Queens West Development

Parcel 9

QUEENS, NEW YORK

2018 Periodic Review Report and Annual Certification

NYSDEC BCP Number: C241049

ATC Project Number:

Z214DC0050

Prepared for:

AvalonBay Communities
1633 Broadway, Suite 22B
New York, New York 10019

Prepared by:

ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

104 East 25th Street, 8th Floor
New York, New York 10010

APRIL, 2019

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1.0 INTRODUCTION

In January of 2018, AvalonBay Communities Inc., (AvalonBay), retained ATC Group Services LLC (ATC) to prepare the Periodic Review Report (PRR) for 2018 (formerly referred to as Site Management Report) and Annual Certification of Institutional and Engineering Controls for the site, which is identified as Queens West Development – Parcel 9. The following introductory and background discussions are according to the PRR prepared by AKRF Engineering, P.C. (AKRF) and dated February 2008.

The Queens West Development is a project of the Queens West Development Corporation (QWDC), a subsidiary of New York State's Empire State Development Corporation (NYSEDC), under the collective sponsorship of the Port Authority of New York and New Jersey, the New York City Economic Development Corporation (NYCEDC), and Empire State Development Corporation. The overall Queens West Development site comprises 74 acres along the East River in Hunters Point, Queens, extending from Anable Basin to the north to Newtown Creek to the south (Figure 1). Stage I of the development involved construction of residential buildings on the portion of the site between 47th Road and 50th Avenue. The development sites in this area were designated as Parcels 8, 9, 10, and 11, as shown on Figure 2.

In August 1998, a Voluntary Cleanup Agreement (VCA) was entered into between New York State Department of Environmental Conservation (NYSDEC) and QWDC. This agreement covered Parcels 8, 9, and 11 and the portion of Center Boulevard between Parcels 8 and 9. In July 2000, the VCA was amended to allow it to be divided into separate agreements for each parcel, which would be executed by the designated developer for the parcel. Accordingly, after AvalonBay was selected as the developer of Parcels 8, 9, and 11, AvalonBay executed separate agreements for each of the three parcels in September 2000. In March 2004, AvalonBay requested that NYSDEC transition Parcels 8 and 9 into the Brownfield Cleanup Program (BCP), with the BCP Agreements for both parcels being signed by the NYSDEC and becoming effective on June 28, 2005.

Subsurface contamination at Parcel 9 was remediated between August 2005 and May 2006 in accordance with the NYSDEC-approved Remedial Work Plan (revised August 2005). The site remediation was documented in a Final Engineering Report (FER) dated December 2006, and on-going site management requirements were specified in a Site Management Plan (SMP), which was included as an attachment to the FER. NYSDEC issued a Certificate of Completion for Parcel 9 on December 29, 2006. The purpose of this PRR and Annual Certification is to document on-going site management activities associated with Engineering and Institutional Controls for the site during the 2018 calendar year, and to certify those controls in accordance with the SMP.

2.0 BACKGROUND

2.1 SITE DESCRIPTION

Parcel 9 is located in the Hunters Point section of Queens, New York. The parcel is bound by 5th Street on the east, 48th Avenue on the south, Center Boulevard on the west, and 47th Road on the north. It has a total area of approximately 1.79 acres, and is defined as Lots 1, 5, and 19 of Tax Block 19 of Queens County. The site is currently occupied by an L-shaped high-rise apartment building located in the western and southwestern portions of the site, a multi-level parking garage located in the eastern portion of the site, with townhouses located south of the garage, along 48th Avenue. Approximately 2,300 square feet of retail space are located on the ground floor of the residential building, along Center Boulevard. A courtyard and driveway are located in the center of the site, providing access to the parking garage and loading dock from 47th Road. A Site Plan is provided as Figure 3.

2.2 REMEDIAL INVESTIGATION FINDINGS

2.2.1 Geology, Hydrogeology and Subsurface Characteristics

The geotechnical studies conducted prior to site redevelopment indicated that the top 10 to 12 feet of soil on the parcel consisted of historic urban fill material. This was underlain in most borings by a layer of alluvial sand up to 17 feet thick. A stratum of soft gray organic silty clay, generally less than 10 feet thick and representing old marsh deposits, was present inter-layered in the sand at many locations. Below the sand and organic deposits was a layer of glacial till up to 30 feet thick. This consisted of compact fine to coarse sand with some gravel, silt, clay, clay pockets, and boulders. The surface of the till was found at an elevation of -10 to -12 feet (Queens Borough Datum) over most of the parcel, dipping sharply to a depth of -30 feet in the southwest corner of the parcel. Bedrock was encountered at elevation -20 to -30 feet over most of the parcel, dipping in the southwest corner, to a minimum elevation of -55 feet.

Groundwater studies performed at the site and in surrounding areas indicated a general groundwater flow direction towards the west or southwest, with some tidal influence at locations close to the river. A localized groundwater depression in 47th Road, approximately 150 feet west of 5th Street, was noted in some studies. It is speculated that this depression was due to a leak in the storm sewer piping that runs under 47th Road.

2.2.2 Nature and Extent of Contamination

Soil Contamination

Cumulative results from the previous studies on Parcel 9 indicated the presence of two separate types of soil contamination on the site. Petroleum contamination, including the presence of light non-aqueous phase liquid (LNAPL) was centered in the north-central portion of the site. Coal tar contamination, including the presence of dense non-aqueous phase liquid (DNAPL), was found in the southwestern portion of the site, and along the western boundary of the site adjacent to Center Boulevard.

The petroleum-contaminated soil was characterized by high levels of benzene, toluene, ethylbenzene, and xylenes (BTEX), as well as other relatively light, monocyclic hydrocarbons, including cyclohexane and methylcyclohexane. Naphthalene was present in the petroleum-contaminated soil, but at lower levels than the monocyclic compounds. The heavier polycyclic aromatic hydrocarbons (PAHs) were present at relatively low concentrations (except for samples from the historic fill layer).

An area of deep contamination was identified in the southwestern portion of the site where DNAPL was found. This area corresponded to a low point in the lower confining layer (till or clay) where it is not unexpected that DNAPL would tend to accumulate. A second area of coal tar contamination was identified further north along the western boundary of the site. The coal tar-contaminated soil was characterized by high levels of naphthalene and 2-methylnaphthalene, with BTEX present, but at lower levels than naphthalene.

The surface soils on the site were characterized as historic fill material incorporating ash as well as brick, concrete, and other demolition debris. The fill contained higher and more variable concentrations of metals and heavy PAHs than the underlying native soils. Metals were detected generally at concentrations typical of soil background levels. Above-background concentrations of mercury were detected in a few soil samples. However, these appeared to be randomly distributed in the fill.

Groundwater Contamination

Petroleum and coal tar-related volatile organic compounds (VOCs) and semi volatile organic compounds (SVOCs) were present at elevated levels in groundwater samples from wells in the northwest quadrant of Parcel 9, and in the area of coal tar contamination at the southwestern corner and along the western edge of the parcel. The most common compounds detected were BTEX, naphthalene, and 2-methylnaphthalene. In general, the higher levels of naphthalene were associated with the coal tar contamination along the western edge of the site, and the higher levels of benzene were associated with the petroleum contamination in the north-central portion of the site. Metals were generally either not detected or detected at concentrations well below the Class GA groundwater standards. Polychlorinated biphenyls (PCBs) and pesticides were not detected in any of the groundwater samples analyzed.

2.3 SITE REMEDIATION

2.3.1 Soil Excavation

Remediation of the petroleum and coal tar contamination identified on Parcel 9 commenced in August 2005. The remediation was conducted in accordance with the approved Remedial Work Plan (RWP), dated May 2005 (Revised August 2005). The selected remedy consisted of excavating soil containing contaminant concentrations exceeding the Site-Specific Soil Action Levels (SSSALs), with soil excavation conducted under a temporary containment structure equipped with an air handling system to control fugitive odors and dust. The remedy also included installation of a permanent subsurface containment wall, constructed of steel sheet piles driven into the low permeability till layer, to facilitate soil removal and isolate the site from off-site contamination. The remediation program also included pumping out and removing several underground storage tanks that were discovered during soil excavation activities.

Excavation and off-site disposal of all contaminated soil from within the containment wall was completed on March 30, 2006. During remediation activities, soil excavation was terminated generally at the till layer based on field screening indicating the end of gross contamination and technical limitations of excavating the till, which consisted of densely packed clay, silt, and gravel, and contained numerous cobbles and boulders. Contaminated soil was removed from the southwestern portion of the excavation to the top of a dense clay layer at approximately 27 to 34 feet below grade, on top of the till layer. DNAPL was observed in an approximately six-inch interval in sandy material just above the clay layer, indicating that the clay was acting as a confining layer preventing downward migration of DNAPL in this portion of the site. These observations were consistent with findings from previous investigations, which identified DNAPL in monitoring wells in the southwestern corner of the parcel.

Between March 30 and May 25, 2006, additional soil remediation was conducted outside of the sheeting

line in an area of historic fill containing elevated naphthalene concentrations and three areas where underground storage tanks were discovered during excavation for foundations in the proposed parking garage area.

2.3.2 Engineering Controls

In addition to soil excavation and disposal, the RWP included the installation of engineering controls to prevent exposure to residual subsurface contamination at the site. The engineering controls, which consist of a site cover, hydraulic barrier, and sub-slab vapor mitigation system, are described in more detail below.

Site Cover

At the time that the FER was submitted, the site cover consisted of: concrete building foundations in the area of the high-rise residential building, townhouses, and portions of the garage; and a temporary cover of at least two feet of clean fill meeting NYSDEC TAGM 4046 RSCOs in the future courtyard area and the remaining portion of the garage not paved with concrete. Following completion of the building construction in the second half of 2007, a permanent site cover was installed in all areas not already covered by building foundations, and included: concrete over the entire garage area; paving in portions of the courtyard area; and two feet of top soil in the remainder of the courtyard and all perimeter landscaped areas.

Hydraulic Barrier

As described in Section 2.3.1., permanent interlocking steel sheeting was installed around the entire soil remediation area to facilitate soil excavation. The sheeting was installed such that it will also serve as a hydraulic barrier to isolate the site from off-site contamination. This was accomplished by driving the sheeting into the low-permeability till or clay layer, and sealing the seams in the sheeting with hydrocarbon-resistant Adeka gaskets to prevent infiltration of contaminants back onto the site. The hydraulic barrier was installed below grade, and does not require maintenance; however, routine groundwater monitoring is conducted as specified in the SMP to gauge the effectiveness of the barrier.

Vapor Mitigation System

Site remediation included the installation of a vapor mitigation system under the residential tower and townhouses. The system consists of a vapor barrier, a sub-slab gas collection network, steel pipe risers, and aboveground blowers/instrumentation. The vapor barrier consists of a 60-mil thick, spray-applied, LiquidBoot® gas vapor membrane. The subsurface gas collection pipe network consists of Schedule 40, 4-inch diameter PVC piping with 0.02-inch slots installed in a 12-inch thick layer of gas-permeable aggregate. The slotted piping is installed in four separate zones under the on-site residential buildings, as follows:

- Zone 1 - Northern wing of high-rise building (facing Center Boulevard)
- Zone 2 - Central tower portion of high-rise building
- Zone 3 - Southern wing of high-rise building (facing 48th Avenue)
- Zone 4 - Townhouses

In each zone, a length of solid 4-inch diameter Schedule 40 PVC piping leads from the slotted piping network to an interior riser. Temporary blower assemblies were connected to the risers and activated on December 22, 2006. Following completion of the building mechanical rooms, the temporary blowers were taken out of service and the permanent blowers were installed at their designated locations and activated on December 4, 2007.

2.3.3 Institutional Controls

Institutional controls incorporated into the site remedy include an environmental easement to prohibit certain on-site uses, and implementation of a SMP specifying soil management, operation, maintenance, monitoring, and reporting procedures during future site use. These Institutional Controls are described in more detail below.

Site Management Plan

A SMP was prepared to describe procedures and protocols for post-remediation management of the site. This SMP includes four plans: an Institutional and Engineering Control Plan for implementation and management of institutional and engineering controls; a Monitoring Plan for implementation of site monitoring; an Operation and Maintenance Plan for operation of the sub-slab vapor mitigation system; and a Site Management Reporting Plan for submittal of data, information, recommendations and certifications to NYSDEC. The Institutional and Engineering Control Plan portion of the SMP includes detailed procedures for handling residual on-site contamination during future soil disturbance activities.

At the end of the 2012 reporting year, ATC requested that the groundwater sampling be reduced from quarterly to semi-annual and that the quarterly vapor sampling be discontinued along with the use of the granulated activated carbon (GAC) adsorbers (which are located at Zone 4). A letter dated June 4, 2013 received from NYSDEC indicating the request to change the frequency of groundwater monitoring from quarterly to semi-annually was approved. Subsequently, a letter was received from NYSDEC dated December 20, 2013 indicating that the quarterly sampling at the four SSDS zones may be discontinued and the carbon should be removed. The GAC adsorbers located in Zone 4 were subsequently removed from the site on February 19, 2014. Disposal documentation is provided in Appendix F.

In February 2015, ATC requested that the semi-annual groundwater sampling be discontinued and the two on-site monitoring wells (MS-11R and MW-12) and the six monitoring wells outside of the hydraulic barrier (MW-2, MW-8 and MW-14 through MW-17) be decommissioned in accordance with NYSDEC CP-43 Groundwater Monitoring Well Decommissioning Policy. An email sent June 2, 2015 from NYSDEC stated that the semi-annual round of monitoring scheduled to take place in June 2015 did not need to be conducted and that a follow-up letter from NYSDEC would be sent in response the ATC's SMP modification request. Subsequently, NYSDEC approved the discontinuation of groundwater monitoring and the decommissioning of the six on-site and two off-site monitoring wells in letters dated November 24, 2015 and March 22, 2016. These monitoring wells were permanently closed in accordance with NYSDEC CP-43 on April 5 and 6, 2016. The SMP issued in December 2016 was subsequently revised in February 2014 and April 2016. NYSDEC correspondence documentation is provided in Appendix E and well decommissioning records are included in Appendix G

Environmental Easement

An environmental easement has been recorded for the site and includes the following site use restrictions:

- Use of the site for "Restricted Residential Use".
- All engineering controls (including the site cover and sub slab vapor depressurization and active venting system) must be operated and maintained as specified in the NYSDEC-approved Site Management Plan. No Engineering and Institutional Controls may be discontinued without a NYSDEC- approved amendment or extinguishment of the Environmental Easement and/or Site Management Plan.
- Annual inspections, certifications of Institutional & Engineering controls, Site usage, and Site

Management Reporting to NYSDEC must be conducted in accordance with the NYSDEC-approved Site Management Plan.

- All future soil disturbance activities on the site that will impact residual contaminated material, including, but not limited to, building construction or expansion, sub-grade utility line construction or repair, must be conducted in accordance with the Soil Management provisions in the NYSDEC-approved Site Management Plan.

- Operation Monitoring and Maintenance (OM&M) of the sub-slab depressurization system must be performed in a manner specified in the NYSDEC-approved Site Management Plan.

- Groundwater and other environmental or public health monitoring required by the NYSDEC-approved Site Management Plan, and reporting of information thus obtained, must be performed in a manner specified in that Plan.

- On-site environmental monitoring devices, including but not limited to, groundwater monitor wells and soil vapor probes, must be protected and replaced as necessary to ensure continued functioning in the manner specified in the NYSDEC-approved Site Management Plan.

- The use of the groundwater underlying the site is prohibited without treatment rendering it safe for intended purpose.

- Vegetable gardens are prohibited.

- The site may not be used for a higher level of use such as unrestricted residential, without proper notification of NYSDEC of the change of use, approval of that use by the NYSDEC, and an amendment of the Site Management Plan approved by NYSDEC.

The environmental easement includes: a description of the use restrictions; a map showing the area of the restrictions; and a copy of the NYSDEC-approved SMP. The property deed and all subsequent instruments of conveyance will contain language indicating that the site is subject to the environmental easement. A copy of the environmental easement is included as an appendix to the SMP.

3.0 SITE COVER OPERATION AND MAINTENANCE

3.1 SITE COVER INSPECTION

ATC conducted an inspection of the entire site cover on December 28, 2018 to check the asphalt/concrete paving for cracking and/or signs of wear, and check for erosion of the soil cover in unpaved areas. All paving was found to be intact, with no signs of cracking or damage. No erosion was noted in the landscaped areas. Photographs documenting the December 28, 2018 inspection and a copy of the site cover inspection log are provided in Appendix A.

4.0 VAPOR MITIGATION SYSTEM OPERATION & MAINTENANCE

4.1 ROUTINE SYSTEM CHECKS

On-site representatives from AvalonBay conducted routine checks of the vapor mitigation system throughout the year to: ensure that the blowers were operational; record the blower runtimes as indicated on the control panels; and note any unusual conditions, such as leaks or odors. Routine checks were conducted on an approximately daily to weekly basis during the 2018 calendar year. Blower runtime data is summarized in Table 1. Copies of the routine system check log sheets are provided in Appendix B.

The zone 3 meter display was replaced on December 13, 2008, at which time the AKRF technician was able to decipher a final reading of 7415.4 hours from the broken meter. This value will be added to all subsequent readings from the new meter to calculate a total runtime for the Zone 3 blower.

Blower downtime for each zone was calculated by subtracting the blower runtimes logged during the routine system checks (converted to days), from the number of calendar days elapsed during the reporting period, as summarized in Table 1. No blower downtime was calculated for Zones 1, 2 3, and 4.

4.2 PERIODIC INSPECTIONS

Periodic system inspections were conducted by ATC personnel on a monthly basis. Copies of the inspection log sheets are provided in Appendix B. Activities conducted during the inspections included recording vacuum gauge and flow meter readings and adjusting system components to optimize system efficiency. All readings are summarized in Table 2. Vacuum readings generally ranged from 5.0 to 13.5 inches of water ("H2O) and total flow readings generally ranged from 252 to 578 cubic feet per minute (CFM), which are within the normal operating range of the blower. The flow readings for Zone 3 before the blower appear to be incorrect. The readings for the November 2018 and December 2018 monthly inspections were 4,361 CFM and 1,931 CFM, respectively. The total flow readings after the blower taken at the same time were within normal range, 302 CFM for November and 309 CFM for December. Based on this information, it appears that the Zone 3 gauge before the blower is giving an inaccurate reading. Based on a troubleshooting event conducted on January 22, 2019, it was determined that the flow gauge and sensor for both the well and the total output be replaced. The equipment was replaced on April 1, 2019. Following the replacement, the flow readings in Zone 3 appeared to return to the expected levels. The differential pressure between pre-filter and post-filter vacuum readings was less than 1" H2O for all blowers. Vapor discharge sampling was discontinued and the GAC adsorbers were removed during the 2013 reporting period.

5.0 CONCLUSIONS AND RECOMMENDATIONS

A site wide inspection was conducted on December 28, 2018, as specified in the SMP to ensure that all aspects of the remedy were in-place and effective. A copy of the Site-Wide Inspection log is included in Appendix C. The inspection included a review of the site cover/vapor mitigation system monitoring logs. Based on this review and the data evaluation summarized in this report, the following conclusions and recommendations were developed:

- The permanent site cover is present and in good condition throughout all portions of the site.
- The active sub-slab vapor mitigation system was operated on a nearly continuous basis in all four (4) zones (Zones 1, 2, 3, and 4) throughout the 2018 reporting period.
- All vacuum and flow rate measurements collected from the vapor mitigation system during the 2018 reporting period were within the operational ranges for the system blowers.

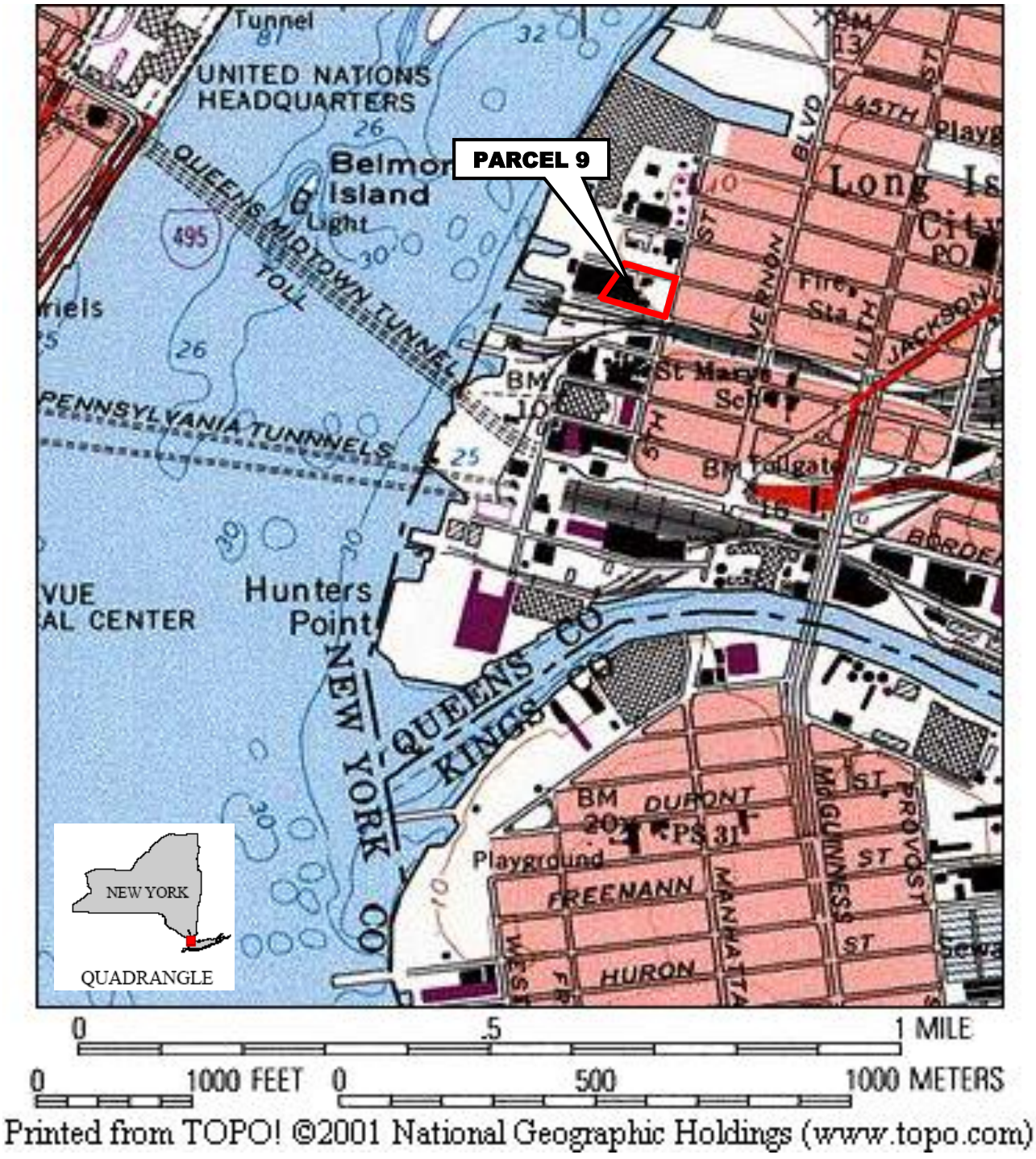
Based on review of the analytical and field data for the 2018 reporting year, ATC has the following recommendations:

- Continue the monitoring and reporting for the 2019 reporting period as identified in the modified SMP issued in April 2016.

6.0 INSTITUTIONAL AND ENGINEERING CONTROL CERTIFICATION

The IC/EC Certification Form for the site was completed based on results from the site monitoring and inspections described in the report. A copy of the form is provided as Appendix D. The Certification Form indicates that all ICs/ECs at the site remain in place and effective.

FIGURES



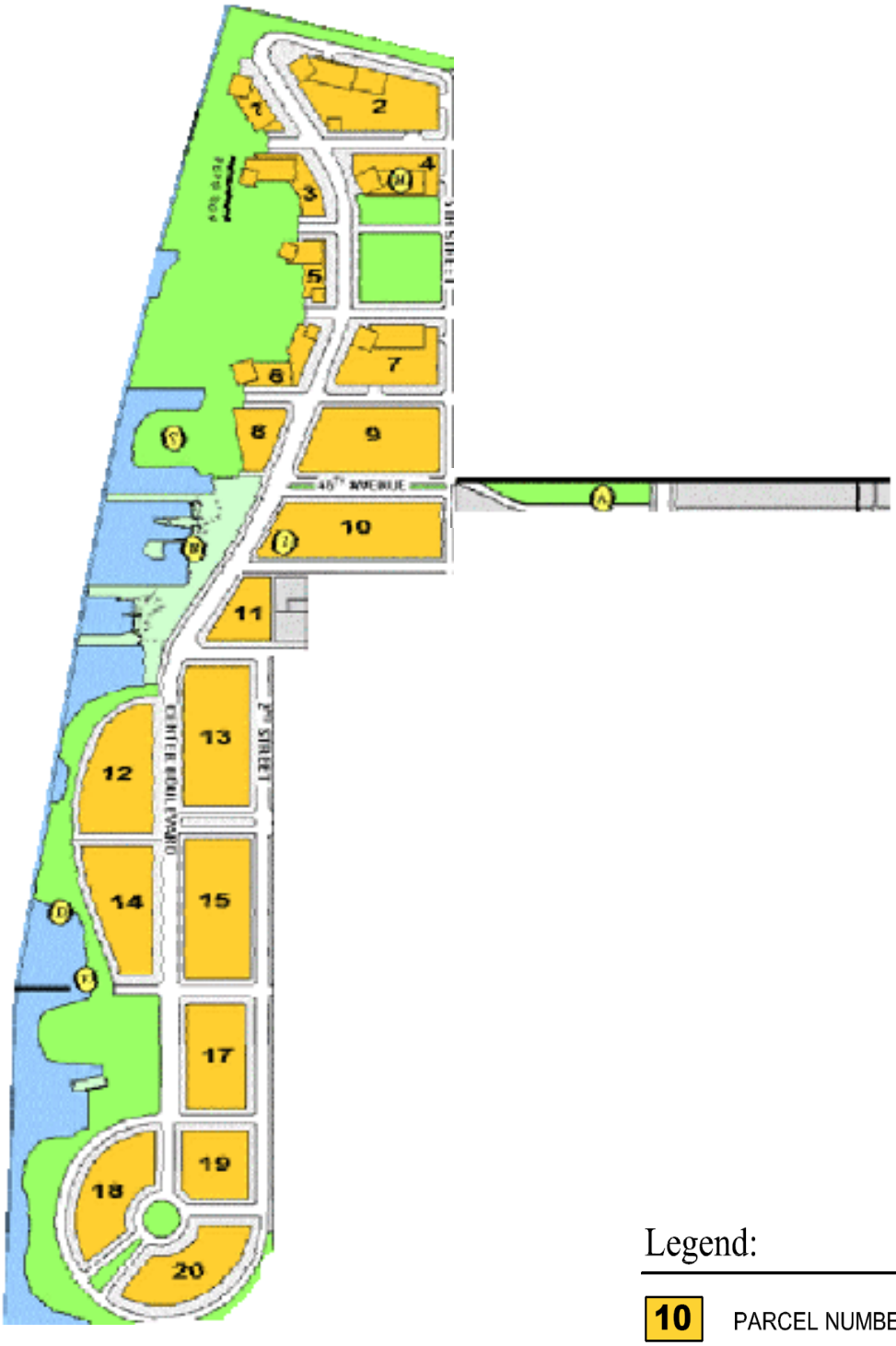
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New York, NY 10010-2917
Phone (212) 353-8280 * Fax (212) 979-8447

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USGS TOPO, Brooklyn, NY Quad.

FIGURE 1 – SITE LOCATION MAP

Client:	Avalon Bay Communities
Site:	Queens West Parcel 9
Project No.:	Z214DC0050
Year:	1995
Scale:	As shown

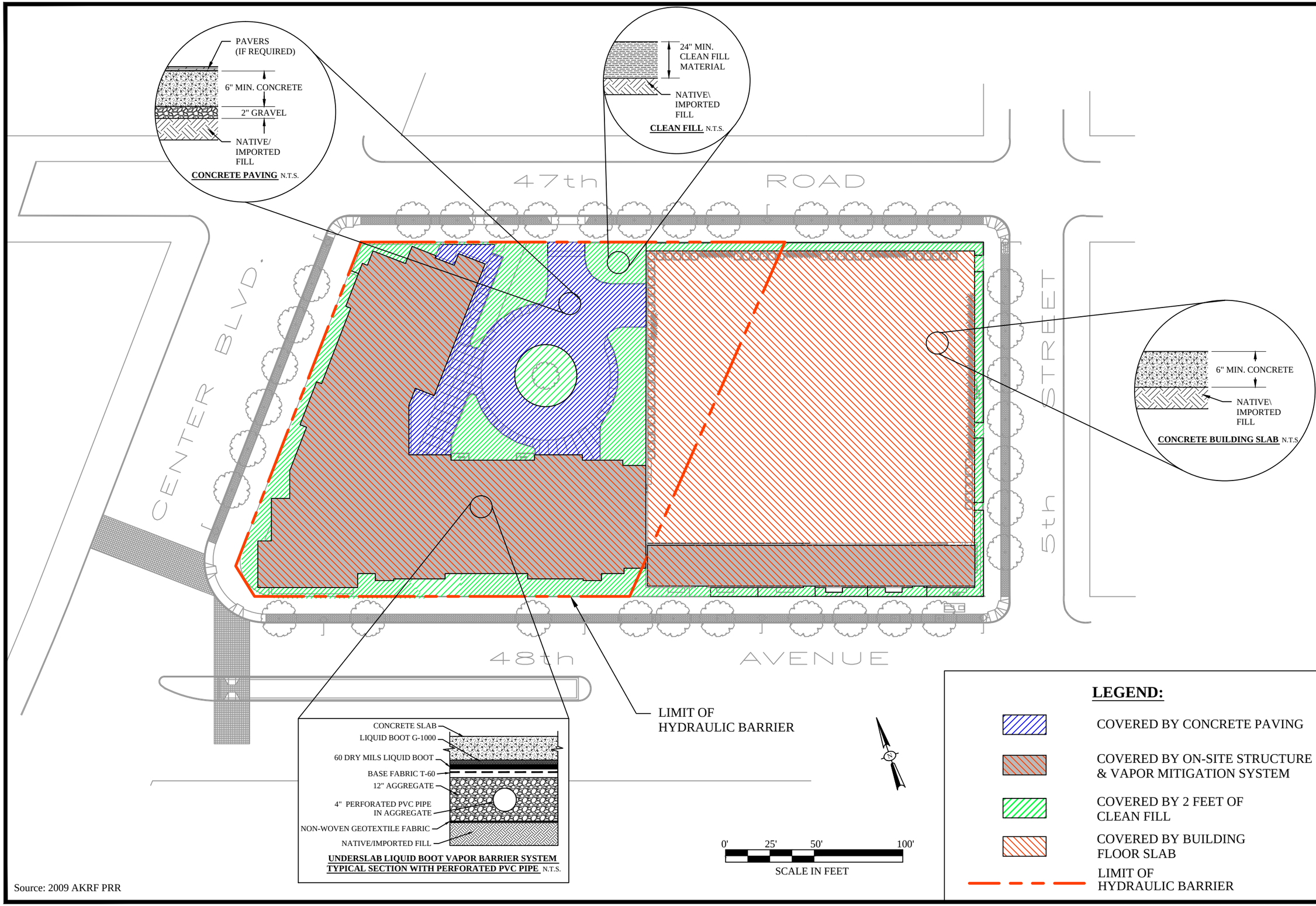


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FIGURE 2 – QUEENS WEST DEVELOPMENT PARCELS

Client: Avalon Bay Communities
Site: Queens West Parcel 9
Project No.: Z214DC0050



Source: 2009 AKRF PRR

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QUEENS WEST PARCEL 9
QUEENS, NEW YORK

SITE PLAN & ENGINEERING CONTROLS

DATE
JANUARY 2019

SCALE
As shown

PROJECT No.
Z214DC0050

FIGURE
3

M:\ACADD-WORKS\Haley & Aldrich\Avalon Bay\2019\Z214DC0050 - Avalon Bay\West Parcel 9\FIGURES

TABLES

TABLE 1
VAPOR MITIGATION SYSTEM BLOWER RUNTIME DATA
QUEENS WEST DEVELOPMENT - PARCEL 9

Date	Zone 1				Zone 2				Zone 3				Zone 4			
	On/Off	Runtime (hrs)	Runtime (days)[1]	Est. Downtime (days)[2]	On/Off	Runtime (hrs)	Runtime (days)[1]	Est. Downtime (days)[2]	On/Off	Runtime (hrs)	Runtime (days)[1]	Est. Downtime (days)[2]	On/Off	Runtime (hrs)	Runtime (days)[1]	Est. Downtime (days)[2]
1/3/2018	On	86,385	3599.4	0.0	On	88,390	3682.9	0.0	On	86,260	3594.2	0.0	On	87,536	3647.3	0.0
2/9/2018	On	87,274	3636.4	0.0	On	89,279	3720.0	0.0	On	87,152	3631.3	0.0	On	88,425	3684.4	0.0
3/30/2018	On	88,484	3686.8	0.0	On	90,462	3769.3	0.0	On	88,337	3680.7	0.0	On	89,604	3733.5	0.0
4/27/2018	On	89,131	3713.8	0.0	On	91,136	3797.3	0.0	On	89,003	3708.5	0.0	On	90,271	3761.3	0.0
5/25/2018	On	89,802	3741.7	0.0	On	91,806	3825.3	0.0	On	89,704	3737.7	0.0	On	90,952	3789.7	0.0
6/25/2018	On	90,538	3772.4	0.0	On	92,543	3856.0	0.0	On	90,418	3767.4	0.0	On	91,689	3820.4	0.0
7/31/2018	On	91,402	3808.4	0.0	On	93,407	3891.9	0.0	On	91,281	3803.4	0.0	On	92,552	3856.4	0.0
8/29/2018	On	92,121	3838.4	0.0	On	94,125	3921.9	0.0	On	92,000	3833.3	0.0	On	93,271	3886.3	0.0
9/28/2018	On	92,923	3871.8	0.0	On	94,828	3951.2	0.0	On	92,702	3862.6	0.0	On	93,974	3915.6	0.0
10/29/2018	On	93,561	3898.4	0.0	On	95,565	3981.9	0.0	On	93,441	3893.4	0.0	On	94,712	3946.3	0.0
11/29/2018	On	94,305	3929.4	0.0	On	96,310	4012.9	0.0	On	94,184	3924.3	0.0	On	95,455	3977.3	0.0
12/28/2018	On	95,002	3958.4	0.0	On	97,007	4041.9	0.0	On	94,880	3953.4	0.0	On	96,153	4006.4	0.0

Notes:

[1] Estimated Runtime (days) = Runtime (hours)/24

[2] Estimated Downtime = # Calendar Days - Runtime (days)

*Total Zone 3 runtime calculated by adding reading at new meter to final reading pulled from broken meter (7415.4).

TABLE 2
VAPOR MITIGATION SYSTEM VACUUM AND FLOW RATE READINGS
QUEENS WEST DEVELOPMENT - PARCEL 9

Date	Zone 1			Zone 2			Zone 3				Zone 4			
	Vacuum at Filter		Flow	Vacuum at Filter		Flow	Vacuum at Filter		Flow		Vacuum at Filter		Flow	
	Pre ("H_2O)	Post ("H_2O)	(CFM)	Pre ("H_2O)	Post ("H_2O)	(CFM)	Pre ("H_2O)	Post ("H_2O)	Riser (CFM)	Total(CFM)	Pre ("H_2O)	Post ("H_2O)	Riser (CFM)	Total(CFM)
1/3/2018	7.5	7.5	328	9.5	9.5	355	11.5	12.0	709	310	5.0	5.5	578	307
2/9/2018	7.5	7.5	326	9.5	9.5	354	11.5	12.0	669	309	5.0	5.5	573	305
3/30/2018	7.5	7.5	342	9.5	9.5	345	12.0	12.5	709	302	5.5	5.5	576	307
4/27/2018	7.5	7.5	342	10.0	10.0	349	12.0	12.5	659	298	5.5	6.0	569	306
5/25/2018	7.5	7.5	322	10.0	10.0	348	13.0	13.5	569	287	5.5	5.5	559	306
6/25/2018	7.5	7.5	321	9.5	9.5	336	13.0	13.5	598	277	5.5	6.0	568	308
7/31/2018	7.5	8.0	318	10.0	10.0	345	12.5	13.0	519	264	5.0	5.5	561	306
8/29/2018	7.0	7.5	317	10.0	10.0	349	12.5	13.0	509	257	5.0	5.5	560	304
9/28/2018	7.5	7.5	318	9.5	10.0	318	12.5	13.0	499	252	5.0	5.5	574	304
10/29/2018	7.0	7.5	321	10.0	10.0	344	12.0	12.0	609	284	5.0	5.5	570	302
11/29/2018	7.0	7.0	351	9.5	9.5	351	11.5	12.0	4361	302	5.3	5.5	576	304
12/28/2018	7.0	7.5	326	9.5	9.5	360	11.5	12.0	1931	309	5.0	5.5	577	305

Notes:
Pre - Reading taken before air filter.
Post - Reading taken after air filter.
Riser - Flow reading taken before dilution valve.
Total - flow reading taken after dilution valve.

APPENDICES

Appendix A - Site Cover Inspection Log and Photographs

SITE CAP INSPECTION FORM
QUEENS WEST PARCEL 9
48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

Inspector: Denise Casenza

Date: December 28, 2018

1. Courtyard/landscaped areas:

Adequate top soil cover present?

Yes

Signs of erosion?

No

Recommended corrective action:

None

2. Outdoor paving/sidewalks:

Note any signs of cracking or other damage:

None

Note any areas where greater than 25% of surface is cracked/damaged:

None

Recommended corrective action:

None

3. Lower level garage slab:

Note any signs of cracking or other damage:

- ATC observed minimal hairline cracks in the lower garage
- Cracks were not significant.

Note any areas where greater than 25% of surface is cracked/damaged:

None

Recommended corrective action:

None

Comments (attach photos/sketches to illustrate any damage noted):

See attached photographs



Photo 1: View of typical landscaping and paving in courtyard.

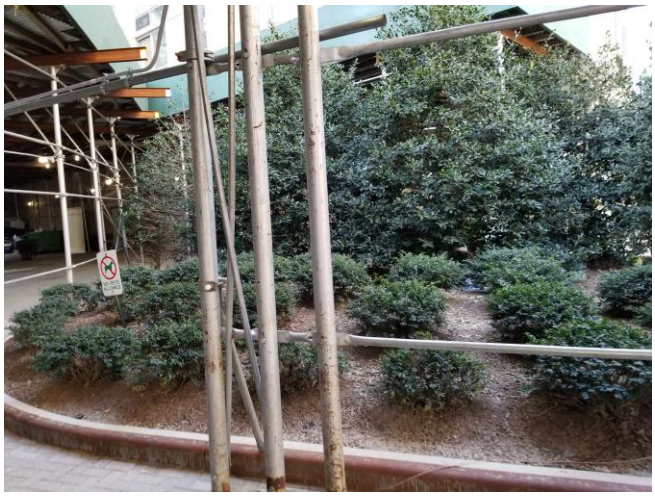


Photo 2: View of typical landscaping in courtyard



Photo 3: View of paving along Center Blvd. looking south @ Center Blvd & 48th Ave. intersection.



Photo 4: View of typical landscaping and paving along 5th Street looking south @ 47th Rd. & 5th St. intersection.



Photo 5: View of typical landscaping and paving along 47th Rd. looking west @ 47th Rd. & Center Blvd. intersection.



Photo 6: View of typical landscaping and paving along 48th Ave. looking towards west @ entrance.



Photo 7: View of Zone 3 Equipment.



Photo 8: View of typical condition of concrete slab in parking garage.



Photo 9: View of Zone 4 Equipment.



Photo 10: View of Zone 2 Equipment.



Photo 11: View of Zone 1 Equipment.



Photo 12: General view of parking area at grade.

Appendix B - Vapor Mitigation System Inspection Logs

PERIODIC INSPECTION FORM
PARCEL 9 VAPOR MITIGATION SYSTEM
48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

Inspector Name:	Denise Cosenza	**Date:**	1-3-18
Time IN:	9:00	**Time OUT:**	945

GENERAL

Are there any leaks in system? yes or (no) (circle one)

If yes, plans for repair:

Are daily system checks being completed? (yes) or no (circle one)

If no, corrective actions taken:

FLOW RATES

Location	Run Time (hours)	Flow Rate (cfm)	
Zone 1	86,385.2	328	
Zone 2	88,389.9	355	
Zone 3	86,260.4	310 (Total)	109 (Well)
Zone 4	87,535.9	307	578

Comments:

Notes:
1. Blower flow rates should be ~250 cfm

VACUUM READINGS (at particulate filter) (after filter change)

	Inlet "H_2O	Oulet "H_2O	Differential "H_2O	Filter Changed?	Inlet "H_2O	Oulet "H_2O	Differential "H_2O
Zone 1	7.5	7.5	0	NO			
Zone 2	9.5	9.5	0	NO			
Zone 3	11.5	12.0	0.5	NO			
Zone 4	5.0	5.5	0.5	NO			

Comments:

Notes:
1. If differential (inlet-outlet pressure) > 3 "H_2O above normal conditions, change out filter.

PERIODIC INSPECTION FORM
PARCEL 9 VAPOR MITIGATION SYSTEM
48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

Inspector Name: Denise Cozza	**Date:** 2-9-18
Time IN: 11:00	**Time OUT:**

GENERAL

Are there any leaks in system? yes or no (circle one)

If yes, plans for repair:

Are daily system checks being completed? yes or no (circle one)

If no, corrective actions taken:

FLOW RATES

Location	Run Time (hours)	Flow Rate (cfm)	
Zone 1	87,274.7	326	
Zone 2	89,279.4	354	
Zone 3	87,152.0	Total 309	Well 669
Zone 4	88,425.4	305	573

Comments:

Notes:
1. Blower flow rates should be ~250 cfm

VACUUM READINGS (at particulate filter) (after filter change)

	Inlet "H_2O	Oulet "H_2O	Differential "H_2O	Filter Changed?	Inlet "H_2O	Oulet "H_2O	Differential "H_2O
Zone 1	7.5	7.5	—	NO			
Zone 2	9.5	9.5	—	NO			
Zone 3	11.5	12.0	~~0.5~~	NO			
Zone 4	5.0	5.5	0.5	NO			

Comments:

Notes:
1. If differential (inlet-outlet pressure) > 3 "H_2O above normal conditions, change out filter.

PERIODIC INSPECTION FORM
PARCEL 9 VAPOR MITIGATION SYSTEM
48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

Inspector Name: Colene Gronemann	Date: 3/30/2018
Time IN: 2:20	Time OUT: 2:50

GENERAL

Are there any leaks in system? yes or no (circle one)

If yes, plans for repair:

Are daily system checks being completed? yes or no (circle one)

If no, corrective actions taken: Building Management Notified

FLOW RATES

Location	Run Time (hours)	Flow Rate (cfm)	
		Total	Well
Zone 1	89,483.5	342	
Zone 2	90,462.0	345	
Zone 3	88,337.0	302	709
Zone 4	89,604.0	307	576

Comments:

Notes:

1. Blower flow rates should be ~250 cfm

VACUUM READINGS (at particulate filter)

	Inlet "H_2O	Outlet "H_2O	Differential "H_2O	Filter Changed?	(after filter change) Inlet "H_2O	Outlet "H_2O	Differential "H_2O
Zone 1	7.5	7.5	0.0	NO			
Zone 2	9.0	9.0	0.0	NO			
Zone 3	11.5	12.0	0.5	NO			
Zone 4	5.4	5.6	0.2	NO			

Comments:

Notes:

1. If differential (inlet-outlet pressure) > 3 "H_2O above normal conditions, change out filter.

PERIODIC INSPECTION FORM
PARCEL 9 VAPOR MITIGATION SYSTEM
48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

Inspector Name: Collene Groneman	Date: 4-27-18
Time IN: 900	Time OUT: 1000

GENERAL

Are there any leaks in system? yes or no (circle one)

If yes, plans for repair:

Are daily system checks being completed? yes or no (circle one)

If no, corrective actions taken:

FLOW RATES

Location	Run Time (hours)	Flow Rate (cfm)	
Zone 1	89,131.2	342	
Zone 2	91,135.7	349	
Zone 3	89,003	Total 298	Well 659
Zone 4	90,271.0	306	569

Comments:

Notes:

1. Blower flow rates should be ~250 cfm

VACUUM READINGS (at particulate filter)

	Inlet "H_2O	Oulet "H_2O	Differential "H_2O	Filter Changed?	(after filter change) Inlet "H_2O	Oulet "H_2O	Differential "H_2O
Zone 1	7.5	7.5	0	NO			
Zone 2	9.5	9.5	0	NO			
Zone 3	11.6	12.0	0.4	NO			
Zone 4	5.5	5.5	0	NO			

Comments:

Notes:

1. If differential (inlet-outlet pressure) > 3 "H_2O above normal conditions, change out filter.

PERIODIC INSPECTION FORM
PARCEL 9 VAPOR MITIGATION SYSTEM
48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

Inspector Name: Collene Groneman	Date: MAY 25, 2018
Time IN: 2:00	Time OUT: 2:45

GENERAL

Are there any leaks in system? yes or no (circle one)

If yes, plans for repair:

Are daily system checks being completed? yes or no (circle one)

If no, corrective actions taken:

FLOW RATES

Location	Run Time (hours)	Flow Rate (cfm)	
Zone 1	89,801.7	322	
Zone 2	91,806.3	348	
Zone 3	89,703.7	Total 287	Well 569
Zone 4	90,952.1	306	559

Comments:

Notes:

1. Blower flow rates should be ~250 cfm

VACUUM READINGS (at particulate filter)

	Inlet "H_2O	Oulet "H_2O	Differential "H_2O	Filter Changed?	(after filter change) Inlet "H_2O	Oulet "H_2O	Differential "H_2O
Zone 1	7.5	7.5	0.0	NO			
Zone 2	9.5	9.5	0.0	NO			
Zone 3	11.5	12.0	0.5	NO			
Zone 4	5.0	5.5	0.5	NO			

Comments:

Notes:

1. If differential (inlet-outlet pressure) > 3 "H_2O above normal conditions, change out filter.

PERIODIC INSPECTION FORM
PARCEL 9 VAPOR MITIGATION SYSTEM
48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

Inspector Name: DENISE COSENZA	**Date:** 6.25.18
Time IN:	**Time OUT:**

GENERAL

Are there any leaks in system? yes or (no) (circle one)

If yes, plans for repair:

Are daily system checks being completed? yes or (no) (circle one)

If no, corrective actions taken: Building Management notified.

FLOW RATES

Location	Run Time (hours)	Flow Rate (cfm)	
Zone 1	90538.4	321	
Zone 2	92543.4	336	
Zone 3	90,418.0	Total 277	Well 591
Zone 4	91689.1	308	568

Comments:

Notes:
1. Blower flow rates should be ~250 cfm

VACUUM READINGS (at particulate filter)

	Inlet "H_2O	Oulet "H_2O	Differential "H_2O	Filter Changed?	(after filter change) Inlet "H_2O	Oulet "H_2O	Differential "H_2O
Zone 1	7.5	7.5	0	No			
Zone 2	9.5	9.5	0	No			
Zone 3	13.0	13.5	0.5	No			
Zone 4	5.5	6.0	0.5	No			

Comments:

Notes:
1. If differential (inlet-outlet pressure) > 3 "H_2O above normal conditions, change out filter.

PERIODIC INSPECTION FORM
PARCEL 9 VAPOR MITIGATION SYSTEM
48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

Inspector Name: Denise Cesaro	**Date:** 7-31-18
Time IN: 10:45	**Time OUT:**

GENERAL

Are there any leaks in system? yes or (no) (circle one)

If yes, plans for repair:

Are daily system checks being completed? (yes) or no (circle one)

If no, corrective actions taken:

FLOW RATES

Location	Run Time (hours)	Flow Rate (cfm)	
Zone 1	91401.8	318	
Zone 2	93406.5	345	
Zone 3	91,231.0	Total 264	Well 519
Zone 4	92,552.4	306	501

Comments:

Notes:
1. Blower flow rates should be ~250 cfm

VACUUM READINGS (at particulate filter) (after filter change)

	Inlet "H_2O	Oulet "H_2O	Differential "H_2O	Filter Changed?	Inlet "H_2O	Oulet "H_2O	Differential "H_2O
Zone 1	7.5	8.0	0.5	NO			
Zone 2	10.0	10.0	0	NO			
Zone 3	12.5	13.0	0.5	NO			
Zone 4	5.0	5.5	0.5	NO			

Comments:

Notes:
1. If differential (inlet-outlet pressure) > 3 "H_2O above normal conditions, change out filter.

PERIODIC INSPECTION FORM
PARCEL 9 VAPOR MITIGATION SYSTEM
48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

Inspector Name: Denise Cosenza	Date: 08/29/2018
Time IN: 11	Time OUT:

GENERAL

Are there any leaks in system? yes or no (circle one)

If yes, plans for repair:

Are daily system checks being completed? yes or no (circle one)

If no, corrective actions taken:

FLOW RATES

Location	Run Time (hours)	Flow Rate (cfm)	
		Total	Well
Zone 1	92,120.7	317	
Zone 2	94,125.2	349	
Zone 3	92,000	257	509
Zone 4	93,270.9	304	560

Comments:

Notes:
1. Blower flow rates should be ~250 cfm

VACUUM READINGS (at particulate filter)

	Inlet "H_2O	Oulet "H_2O	Differential "H_2O	Filter Changed?	(after filter change) Inlet "H_2O	Oulet "H_2O	Differential "H_2O
Zone 1	7.0	7.5	0.5	NO			
Zone 2	10	10	0	NO			
Zone 3	12.5	13.0	0.5	NO			
Zone 4	5.0	5.5	0.5	NO			

Comments:

Notes:
1. If differential (inlet-outlet pressure) > 3 "H_2O above normal conditions, change out filter.

PERIODIC INSPECTION FORM
PARCEL 9 VAPOR MITIGATION SYSTEM
48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

Inspector Name: D. Lorenzo	**Date:** 09-28-18
Time IN: 4:00	**Time OUT:**

GENERAL

Are there any leaks in system? yes or no (circle one)

If yes, plans for repair:

Are daily system checks being completed? yes or no (circle one)

If no, corrective actions taken:

FLOW RATES

Location	Run Time (hours)	Flow Rate (cfm)	
Zone 1	92,923.3	318	
Zone 2	94827.8	350	
Zone 3	92,702.4	Total 252	Well 499
Zone 4	93,973.8	304	574

Comments:

Notes:
1. Blower flow rates should be ~250 cfm

VACUUM READINGS (at particulate filter) **(after filter change)**

	Inlet "H_2O	Oulet "H_2O	Differential "H_2O	Filter Changed?	Inlet "H_2O	Oulet "H_2O	Differential "H_2O
Zone 1	7.5	7.5	0	NO			
Zone 2	9.5	10	0.5	NO			
Zone 3	12.5	13.0	0.5	NO			
Zone 4	5.0	5.5					

Comments:

Notes:
1. If differential (inlet-outlet pressure) > 3 "H_2O above normal conditions, change out filter.

PERIODIC INSPECTION FORM
PARCEL 9 VAPOR MITIGATION SYSTEM
48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

Inspector Name:	Denise Cosnica	Date:	10-29-18
Time IN:	1300	Time OUT:	1340

GENERAL

Are there any leaks in system? yes or (no) (circle one)

If yes, plans for repair:

Are daily system checks being completed? (yes) or no (circle one)

If no, corrective actions taken:

FLOW RATES

Location	Run Time (hours)	Flow Rate (cfm)	
Zone 1	93561.2	321	
Zone 2	95565.3	344	
Zone 3	93,440.7	Total 284	Well 609
Zone 4	94,711.9	302	570

Comments:

Notes:
1. Blower flow rates should be ~250 cfm

VACUUM READINGS (at particulate filter)

	Inlet "H_2O	Oulet "H_2O	Differential "H_2O	Filter Changed?	(after filter change) Inlet "H_2O	Oulet "H_2O	Differential "H_2O
Zone 1	7.0	7.5	0.5	NO			
Zone 2	10.0	10.0	0	NO			
Zone 3	12.0	12.0	0	NO			
Zone 4	5.0	5.5	0.5	NO			

Comments:

Notes:
1. If differential (inlet-outlet pressure) > 3 "H_2O above normal conditions, change out filter.

PERIODIC INSPECTION FORM
PARCEL 9 VAPOR MITIGATION SYSTEM
48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

Inspector Name:	Denise Cosenza	Date:	11.29.18
Time IN:	10⁰⁰	Time OUT:	11⁰⁰

GENERAL

Are there any leaks in system? yes or no (circle one)

If yes, plans for repair:

Are daily system checks being completed? yes or no (circle one)

If no, corrective actions taken:

FLOW RATES

Location	Run Time (hours)	Flow Rate (cfm)	
Zone 1	94,305.0	351	
Zone 2	96,309.5	351	
Zone 3	94,183.8	Total 302	Well 4,361
Zone 4	95,454.8	304	576

Comments:

Notes:
1. Blower flow rates should be ~250 cfm

VACUUM READINGS (at particulate filter)

	Inlet "H_2O	Oulet "H_2O	Differential "H_2O	Filter Changed?	(after filter change) Inlet "H_2O	Oulet "H_2O	Differential "H_2O
Zone 1	7.0	7.0	0	NO			
Zone 2	9.5	9.5	0	NO			
Zone 3	11.5	12.0	0.5	NO			
Zone 4	5.25	5.5	0.25	NO			

Comments: gauge for "Well cfm" Appears to be malfunctioning Will reassess and schedule maintenance

Notes:
1. If differential (inlet-outlet pressure) > 3 "H_2O above normal conditions, change out filter.

PERIODIC INSPECTION FORM
PARCEL 9 VAPOR MITIGATION SYSTEM
48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

Inspector Name:	Denise Caserta	**Date:**	12-28-18
Time IN:	1000	**Time OUT:**	1100

GENERAL

Are there any leaks in system? yes or no (circle one)

If yes, plans for repair:

Are daily system checks being completed? yes or no (circle one)

If no, corrective actions taken:

FLOW RATES

Location	Run Time (hours)	Flow Rate (cfm)	
Zone 1	95001.7	326	
Zone 2	97000.5	360	
Zone 3	94,880.4	Total 309	Well 1931
Zone 4	96152.5	305	577

Comments:

Notes:
1. Blower flow rates should be ~250 cfm

VACUUM READINGS (at particulate filter)

	Inlet "H_2O	Outlet "H_2O	Differential "H_2O	Filter Changed?	(after filter change) Inlet "H_2O	Outlet "H_2O	Differential "H_2O
Zone 1	7.0	7.5	0.5	NO			
Zone 2	9.5	9.5	0	NO			
Zone 3	11.5	12.0	0.5	NO			
Zone 4	5.0	5.5	0.5	NO			

Comments: Zone 3 – well cfm ~~is~~ gauge is malfunctions, preparing scope & troubleshooting maintenance for January

Notes:
1. If differential (inlet-outlet pressure) > 3 "H_2O above normal conditions, change out filter.

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

ZONE: (1) 2 3 4 (Circle One)

Readings/Observations to be recorded by AvalonBay Site Representative.

1. Record Inspector Name and Date.
2. Observe and record if blower is on or off. **If blower is off, immediately notify an emergency contact listed on attached page.**
3. Observe and record the elapsed runtime.
4. Record any other comments e.g., unusual odors, spills, leaks, etc. **If such conditions exsist, immediately notify an emergency contact listed on attached page.**
5. Retain this page on-site for collection by ATC Associates.
6. Conduct inspections daily during first month of operation and weekly thereafter.

Inspector Name	Date	Blower On/Off	Runtime (hours)	CFM	Observations	Pre filter	post
Denise C	1-3-18	☑ ON ☐ OFF	86,385.2	328		7.5	7.5
Denis	1-24-18	☑ ON ☐ OFF	86894.5	328		7.5	7.5
Dennis	1-25-18	☑ ON ☐ OFF	869216	327		7.5	7.5
Dennis	1-26-18	☑ ON ☐ OFF	86945.4	327		7.5	7.5
Dennis	1-29-18	☑ ON ☐ OFF	87020.1	327		7.5	7.5
Dennis	1-31-18	☑ ON ☐ OFF	87006.8	327		7.5	7.5
Dennis	2-5-18	☑ ON ☐ OFF	87158.6	327		7.5	7.5
Denise C	2-9-18	☑ ON ☐ OFF	87274.7	326		7.5	7.5
Dennis	2.20.18	☑ ON ☐ OFF	87546.0	326		7.5	7.5
Dennis	2-28-18	☑ ON ☐ OFF	87819.5	336		7.5	7.5
Kevin	4/2/18	☑ ON ☐ OFF	88529.3	332		7.5	7.5
Kevin	4/3/18	☑ ON ☐ OFF	88554.5	329		7.5	7.5
Kevin	4/4/18	☑ ON ☐ OFF	88577.4	332		7.5	7.5
Kevin	4/5/18	☑ ON ☐ OFF	[illegible]	329		7.5	7.5
Kevin	4/9/18	☑ ON ☐ OFF	[illegible]	326		7.5	7.5
Kevin	4/10/18	☑ ON ☐ OFF	[illegible]	327		7.5	7.5
Kevin	4/11/18	☑ ON ☐ OFF	[illegible]	325		7.5	7.5

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

ZONE: (1) 2 3 4 (Circle One)

Readings/Observations to be recorded by AvalonBay Site Representative.

1. Record Inspector Name and Date.
2. Observe and record if blower is on or off. **If blower is off, immediately notify an emergency contact listed on attached page.**
3. Observe and record the elapsed runtime.
4. Record any other comments e.g., unusual odors, spills, leaks, etc. **If such conditions exsist, immediately notify an emergency contact listed on attached page.**
5. Retain this page on-site for collection by ATC Associates.
6. Conduct inspections daily during first month of operation and weekly thereafter.

Inspector Name	Date	Blower On/Off	Runtime (hours)	CFM	Observations pre-fill + post
Kevin	4/13/18	☑ ON ☐ OFF	887970	326	7.5-7.5
Kevin	4/16/18	☑ ON ☐ OFF	888652	327	7.5-7.5
Kevin	4/17/18	☑ ON ☐ OFF	888895	327	7.5-7.5
Kevin	4/18/18	☑ ON ☐ OFF	889113	330	7.5-7.5
Kevin	4/19/18	☑ ON ☐ OFF	889369	325	7.5-7.5
Kevin	4/20/18	☑ ON ☐ OFF	889691	328	7.5-7.5
Kevin	4/23/18	☑ ON ☐ OFF	890332	329	7.5-7.5
Kevin	4/24/18	☑ ON ☐ OFF	890817	329	7.5-7.5
Kevin	5/1/18	☑ ON ☐ OFF	892214	330	7.5-7.5
Kevin	5/2/18	☑ ON ☐ OFF	892481.5	327	7.5-7.5
Kevin	5/4/18	☑ ON ☐ OFF	892983	321	7.5-7.5
Kevin	5/7/18	☑ ON ☐ OFF	893721	323	7.5-7.5
Kevin	5/8/18	☑ ON ☐ OFF	893989	324	7.5-7.5
Kevin	5/9/18	☑ ON ☐ OFF	894171	325	7.5-7.5
Kevin	5/10/18	☑ ON ☐ OFF	894416	324	7.5-7.5
Kevin	5/11/18	☑ ON ☐ OFF	894760.6	327	7.5-7.5
Kevin	5/14/18	☑ ON ☐ OFF	895381	323	7.5-7.5

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

ZONE: 1 2 3 4 (Circle One)

Readings/Observations to be recorded by AvalonBay Site Representative.

1. Record Inspector Name and Date.
2. Observe and record if blower is on or off. **If blower is off, immediately notify an emergency contact listed on attached page.**
3. Observe and record the elapsed runtime.
4. Record any other comments e.g., unusual odors, spills, leaks, etc. **If such conditions exsist, immediately notify an emergency contact listed on attached page.**
5. Retain this page on-site for collection by ATC Associates.
6. Conduct inspections daily during first month of operation and weekly thereafter.

Inspector Name	Date	Blower On/Off	Runtime (hours)	CM	Observations pre filter - post
Kevin	5/15/18	☑ ON ☐ OFF	89560.7	322	7.5 - 7.5
Kevin	5/16/18	☑ ON ☐ OFF	89585.3	323	7.5 - 7.5
Kevin	5/17/18	☑ ON ☐ OFF	89609.3	324	7.5 - 7.5
Kevin	5/18/18	☑ ON ☐ OFF	89632.1	322	7.5 - 7.5
Kevin	5/21/18	☑ ON ☐ OFF	89704.3	324	7.5 - 7.5
Kevin	5/23/18	☑ ON ☐ OFF	89754.6	322	7.5 - 7.5
Kevin	5/24/18	☑ ON ☐ OFF	89777.4	324	7.5 - 7.5
Kevin	5/29/18	☑ ON ☐ OFF	89898.2	322	7.5 - 7.5
Denise	6/25/18	☑ ON ☐ OFF	90538.4	321	7.5 - 7.5
Mike D	6/26/18	☑ ON ☐ OFF	90564.4	320	7.5 7.5
MIKE D	6/27/18	☑ ON ☐ OFF	90583.9	321	7.5 - 7.5
MIKE D	6/28/18	☑ ON ☐ OFF	90606.9	319	7 - 7.5
MIKE D	6/29/18	☑ ON ☐ OFF	90633.4	319	7 - 7.5
MIKE D	7/2/18	☑ ON ☐ OFF	90703.0	321	7.5 - 8
MIKE D	7/3/18	☑ ON ☐ OFF	90737.8	319	7 - 7.5
MIKE D	7/5/18	☑ ON ☐ OFF	90774.9	319	7 - 7.5
MIKE D	7/9/18	☑ ON ☐ OFF	90872.7	320	7 - 7.5

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

ZONE: (1) 2 3 4 (Circle One)

Readings/Observations to be recorded by AvalonBay Site Representative.

1. Record Inspector Name and Date.
2. Observe and record if blower is on or off. **If blower is off, immediately notify an emergency contact listed on attached page.**
3. Observe and record the elapsed runtime.
4. Record any other comments e.g., unusual odors, spills, leaks, etc. **If such conditions exsist, immediately notify an emergency contact listed on attached page.**
5. Retain this page on-site for collection by ATC Associates.
6. Conduct inspections daily during first month of operation and weekly thereafter.

Inspector Name	Date	Blower On/Off	Runtime (hours)		Observations
MIKE D	7/10/18	☑ ON ☐ OFF	90894.9	319	7-7.5
MIKE D	7/11/18	☑ ON ☐ OFF	90924.6	319	7-7.5
MIKE D	7/12/18	☑ ON ☐ OFF	90943.6	320	7-7.5
MIKE D	7/13/18	☑ ON ☐ OFF	90966.9	320	7-7.25
MIKE D	7/16/18	☑ ON ☐ OFF	91039.9	320	7-7.5
MIKE D	7/17/18	☑ ON ☐ OFF	91063.8	319	7-7.5
MIKE D	7/18/18	☑ ON ☐ OFF	91088.7	318	7.5-7.5
MIKE D	7/19/18	☑ ON ☐ OFF	91111.6	319	7.5-7.5
MIKE D	7/20/18	☑ ON ☐ OFF	91135.5	318	7-7.5
MIKE D	7/23/18	☑ ON ☐ OFF	91207.8	320	7-7.5
MIKE D	7/24/18	☑ ON ☐ OFF	91231.9	318	7-7.25
MIKE D	7/25/18	☑ ON ☐ OFF	91268	320	7-7.5
MIKE D	7/27/18	☑ ON ☐ OFF	91304.7	315	7-7.5
Denise C	7/31/18	☑ ON ☐ OFF	91401.8	318	7.5-8.0
MIKE D	8/6/18	☑ ON ☐ OFF	91544.7	316	7-7.5
MIKE D	8/7/18	☑ ON ☐ OFF	91566.9	318	7-7.5
MIKE D	8/8/18	☑ ON ☐ OFF	91596.4	315	7-7.5
MIKE D	8/9/18	ON	91615.4	318	7-7.5
MIKE D	8/10/18	ON	91644.6	315	7-7.5
MIKE D	8/14/18	ON	91735.0	318	7-7.5
MIKE D	8/15/18	ON	91767.8	317	7-7.5

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

ZONE: (1) 2 3 4 (Circle One)

Readings/Observations to be recorded by AvalonBay Site Representative.

1. Record Inspector Name and Date.
2. Observe and record if blower is on or off. **If blower is off, immediately notify an emergency contact listed on attached page.**
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4. Record any other comments e.g., unusual odors, spills, leaks, etc. **If such conditions exsist, immediately notify an emergency contact listed on attached page.**
5. Retain this page on-site for collection by ATC Associates.
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PRE POST

Inspector Name	Date	Blower On/Off	Runtime (hours)	Observations	
MIKE D	8/9/18	☐ ON ☐ OFF	91615.4	318	7-7.5
MIKE D	8/10/18	☑ ON ☐ OFF	91644.6	315	7-7.5
MIKE D	8/14/18	☑ ON ☐ OFF	91735.0	318	7-7.5
MIKE D	8/15/18	☑ ON ☐ OFF	91767.8	317	7-7.5
MIKE D	8/16/18	☐ ON ☐ OFF	91783.0	316	7-7.5
MIKE D	8/17/18	☑ ON ☐ OFF	91792.8	315	7-7.5
MIKE D	8/21/18	☑ ON ☐ OFF	91911.7	316	7-7.5
MIKE D	8/22/18	☑ ON ☐ OFF	91927.8	318	7-7.25
MIKE D	8/24/18	☐ ON ☐ OFF	91974.6	318	7-7.25
DOUG C	8/30/18	☑ ON ☐ OFF	92120.7	317	7-7.5
MIKE D	9/4/18	☑ ON ☐ OFF	92238.7	318	7-7.5
MIKE D	9/5/18	☑ ON ☐ OFF	92271.6	318	7-7.5
MIKE D	9/6/18	☐ ON ☐ OFF	92293.7	318	7-7.5
MIKE D	9/10/18	☑ ON ☐ OFF	92383.6	318	7.5-7.5
MIKE D	9/11/18	☑ ON ☐ OFF	92406.4	318	7.5-7.5
MIKE D	9/12/18	☑ ON ☐ OFF	92430.9	317	7-7.5
MIKE D	9/13/18	☑ ON ☐ OFF	92454.9	316	7-7.5

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

ZONE: (1) 2 3 4 (Circle One)

Readings/Observations to be recorded by AvalonBay Site Representative.

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Inspector Name	Date	Blower On/Off	Runtime (hours)		Observations
MIKE D	9/17/18	☑ ON ☐ OFF	92561.8	317	7-7.5
mike D	9/18/18	☑ ON ☐ OFF	92584.7	317	7-7.5
mike D	9/20/18	☑ ON ☐ OFF	92613.4	318	7-7.5
mike D	9/21/18	☑ ON ☐ OFF	92647.1	318	7-7.5
Cameron B	9/24/18	☑ ON ☐ OFF	92719.6	317	7-7.5
MIKE D	9/25/18	☑ ON ☐ OFF	92743.6	318	7-7.5
Cameron B	9/27/18	☑ ON ☐ OFF	92791.1	319	7-7.5
MIKE D	9/28/18	☑ ON ☐ OFF	92816.1	319	7-7.5
Cameron B	10/1/18	☑ ON ☐ OFF	92887.9	319	7-7.5
Cameron B	10/2/18	☑ ON ☐ OFF	92913.0	317	7-7.5
Mike D	10/3/18	☑ ON ☐ OFF	92934.9	318	7.5-7.5
MIKE D	10/4/18	☑ ON ☐ OFF	92959.4	320	7-7.5
Cameron B	10/5/18	☑ ON ☐ OFF	92987.6	319	7-7.5
Cameron B.	10/8/18	☑ ON ☐ OFF	93055.9	318	7-7.5
Cameron B	10/9/18	☑ ON ☐ OFF	93079.7	318	7-7.5
MIKE D	10/10/18	☑ ON ☐ OFF	93102.0	316	7-7.5
MIKE D	10/11/18	☑ ON ☐ OFF	93127.8	318	7-7.5
MIKE D	10/12/18	☑ ON	93151.7	320	7-7.5

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

ZONE: (1) 2 3 4 (Circle One)

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Inspector Name	Date	Blower On/Off	Runtime (hours)	Observations
Mike D	10-15-18	☑ ON ☐ OFF	93223.1	318 7-7.5
Mike D	10-16-18	☑ ON ☐ OFF	93246.8	320 7.5 - 7.5
Mike D	10-17-18	☑ ON ☐ OFF	93271.5	319 7-7.5
Cameron B	10-18-18	☑ ON ☐ OFF	93302.9	321 7-7.5
Mike D	10-19-18	☑ ON ☐ OFF	93319.0	321 7-7.5
Mike D	10-23-18	☑ ON ☐ OFF	93415.8	322 7.5 - 7.5
Mike D	10-24-18	☐ ON ☐ OFF	93439.6	321 7-7.5
Cameron Brown	10-25-18	☑ ON ☐ OFF	93463.7	321 7-7.5
Mike D	10-29-18	☑ ON ☐ OFF	93559.7	323 7-7.5
Mike D	10-30-18	☑ ON ☐ OFF	93586.8	322 7-7.5
Cameron Brown	10-31-18	☑ ON ☐ OFF	93615.5	323 7-7.5
Mike D	11-1-18	☑ ON ☐ OFF	93628.6	321 7-7.5
Mike D	11-2-18	☑ ON ☐ OFF	93655.7	323 7-7.5
Mike D	11-5-18	☑ ON ☐ OFF	93728.6	324 7.5 - 7.5
Cameron B	11-6-18	☑ ON ☐ OFF	93735.0	322 7-7.5
Cameron Brown	11-7-18	☑ ON ☐ OFF	93777.0	323 7-7.5
Cameron Brown	11-8-18	☑ ON ☐ OFF	93807.1	323 7-7.5

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

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Inspector Name	Date	Blower On/Off	Runtime (hours)	Observations	
Cameron Brown	11/12/18	☑ ON ☐ OFF	938970	325	7-7.5
MIKE D	11/13/18	☑ ON ☐ OFF	93921.1	323	7-7
MIKE D	11/14/18	☑ ON ☐ OFF	93944.7	322	7-7
MIKE D	11/19/18	☑ ON ☐ OFF	94053.7	321	7-7
MIKE D	11/20/18	☑ ON ☐ OFF	94088.9	323	7-7.5
MIKE D	11/21/18	☑ ON ☐ OFF	94101.8	321	7-7.5
Mike D	11/26/18	☑ ON ☐ OFF	94232.9	323	7-7
Mike D	11/27/18	☑ ON ☐ OFF	94257.8	324	7-7
Mike D	11/28/18	☑ ON ☐ OFF	94287.9	322	7-7
Denise C	11-29-18	☑ ON ☐ OFF	94305.0	324	7.0 – 7.0
Mike D	11-30-18	☑ ON ☐ OFF	94327.8	324	7-7
Mike D	12-3-18	☑ ON ☐ OFF	94404.4	323	7-7
Mike D	12-4-18	☑ ON ☐ OFF	94424.8	324	7-7
Mike D	12-5-18	☑ ON ☐ OFF	94448.7	324	7-7
Mike D	12-6-18	☑ ON ☐ OFF	94472.8	324	7-7
Ervin #	12-10-18	☑ ON ☐ OFF	94568.5	324	7-7
Ervin #	12-11-18	☑ ON ☐ OFF	94593.0	321	7-7

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

ZONE: (1) 2 3 4 (Circle One)

Readings/Observations to be recorded by AvalonBay Site Representative.

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Inspector Name	Date	Blower On/Off	Runtime (hours)	Observations	
Mike D	12/12/18	☑ ON ☐ OFF	94616.6	323	7.5 - 7.5
Mike D	12/13/18	☑ ON ☐ OFF	94641.2	324	7.5 - 7.5
Mike D	12/14/18	☑ ON ☐ OFF	94664.8	325	7 - 7.5
Ervin H	12/17/18	☑ ON ☐ OFF	94736.6	326	7 - 7.5
Ervin H	12/18/18	☑ ON ☐ OFF	94760.5	325	7 - 7.5
Ervin H	12/19/18	☑ ON ☐ OFF	94785.7	325	7 - 7.5
Ervin H	12/20/18	☑ ON ☐ OFF	94809.0	325	7 - 7.5
Mike D	12/24/18	☑ ON ☐ OFF	94906.0	326	7 - 7.5
Mike D	12/26/18	☑ ON ☐ OFF	94954.5	327	7 - 7.5
Denise C	12/28/18	☑ ON ☐ OFF	95001.7	326	7 - 7.5
		☐ ON ☐ OFF			
		☐ ON ☐ OFF			
		☐ ON ☐ OFF			
		☐ ON ☐ OFF			
		☐ ON ☐ OFF			
		☐ ON ☐ OFF			
		☐ ON ☐ OFF			

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

ZONE: 1 (2) 3 4 (Circle One)

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3. Observe and record the elapsed runtime.
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Inspector Name	Date	Blower On/Off	Runtime (hours)	CFM	Observations	Pre	Post
Denise C	1-3-18	☑ ON ☐ OFF	88,389.9	355		9.5	9.5
~~Kevin~~	1-	☐ ON ☐ OFF					
DENNIS	1-3-18	☑ ON ☐ OFF	88396.4	356		9.5	9.5
Dennis	1-24-18	☑ ON ☐ OFF	88499.7	355		9.5	9.5
Dennis	1-25-18	☑ ON ☐ OFF	88926.2	355		9.5	9.5
Dennis	1-26-18	☑ ON ☐ OFF	88950.0	355		9.5	9.5
Dennis	1-29-18	☑ ON ☐ OFF	89024.8	355		9.5	9.5
Dennis	1-31-18	☑ ON ☐ OFF	89071.2	355		9.5	9.5
Dennis	2-5-18	☑ ON ☐ OFF	89191.2	355		9.5	9.5
Denise C	2-9-18	☑ ON ☐ OFF	89,279.4	354		9.5	9.5
Dennis	2-[illegible]-18	☑ ON ☐ OFF	89550.7	354		9.5	9.5
Dennis	2-12-18	☑ ON ☐ OFF	89831.8	354		9.5	9.5
Kevin	4/12/18	☑ ON ☐ OFF	90534.0	346		9.5	9.5
Kevin	4/13/18	☑ ON ☐ OFF	90558.9	350		9.5	9.5
Kevin	4/14/18	☑ ON ☐ OFF	90581.8	361		9.5	9.5
Kevin	4/15/18	☑ ON ☐ OFF	90605.2	343		9.5	9.5
Kevin	4/19/18	☑ ON ☐ OFF	90701.7	345		9.5	9.5

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

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Inspector Name	Date	Blower On/Off	Runtime (hours)	CFM	Observations	PVE Post
Kevin	4/10/18	☑ ON ☐ OFF	90725.2	353		9.5 - 9.5
Kevin	4/11/18	☑ ON ☐ OFF	90749.2	345		9.5 - 9.5
Kevin	4/13/18	☑ ON ☐ OFF	90797.8	344		9.5 - 9.5
Kevin	4/16/18	☑ ON ☐ OFF	90870.3	353		9.5 - 9.5
Kevin	4/17/18	☑ ON ☐ OFF	90893.8	349		9.5 - 9.5
Kevin	4/18/18	☑ ON ☐ OFF	90915.9	351		9.5 - 9.5
Kevin	4/19/18	☑ ON ☐ OFF	90941.7	345		9.5 - 9.5
Kevin	4/20/18	☑ ON ☐ OFF	90960.3	356		9.5 - 9.5
Kevin	4/23/18	☑ ON ☐ OFF	91033.8	358		9.5 - 9.5
Kevin	4/24/18	☑ ON ☐ OFF	91063.2	348		9.5 - 9.5
Kevin	5/1/18	☑ ON ☐ OFF	91229.1	352		9.5 - 9.5
Kevin	5/2/18	☑ ON ☐ OFF	91253.1	352		9.5 - 9.5
Kevin	5/4/18	☑ ON ☐ OFF	91302.9	349		9.5 - 9.5
Kevin	5/7/18	☑ ON ☐ OFF	91374.7	344		9.5 - 9.5
Kevin	5/8/18	☑ ON ☐ OFF	91398.4	365		9.5 - 9.5
Kevin	5/9/18	☑ ON ☐ OFF	91421.7	348		9.5 - 9.5
Kevin	5/10/18	☑ ON ☐ OFF	91446.2	352		9.5 - 9.5

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD, LONG ISLAND CITY, NEW YORK

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Kevin	05/11/18	☑ ON ☐ OFF	91470.9	350	9.5 - 9.5
Kevin	05/14/18	☐ ON ☐ OFF	91542.7	350	9.5 - 9.5
Kevin	5/15/18	☐ ON ☐ OFF	91565.3	360	9.5 - 9.5
Kevin	5/16/18	☐ ON ☐ OFF	91599	349	9.5 - 9.5
Kevin	5/17/18	☐ ON ☐ OFF	91613.9	357	9.5 - 9.5
Kevin	5/18/18	☐ ON ☐ OFF	91637.7	361	9.5 - 9.5
Kevin	5/21/18	☐ ON ☐ OFF	91708.7	349	9.5 - 9.5
Kevin	5/23/18	☐ ON ☐ OFF	91755.8	352	9.5 - 9.5
Kevin	5/24/18	☐ ON ☐ OFF	91782.0	345	9.5 - 9.5
Kevin	5/29/18	☐ ON ☐ OFF	91903.8	346	9.5 - 9.5
Denise C.	6/22/18	☐ ON ☐ OFF	92469.8	345	9.5 - 9.5
Denise	6/25/18	☐ ON ☐ OFF	92543.4	336	9.5 9.5
MIKE D	6/26/18	☐ ON ☐ OFF	92569.0	355	10 - 10
Denise C	7/31/18	☐ ON ☐ OFF	93406.5	345	10 - 10
Denise C.	8/29/18	☐ ON ☐ OFF	94125.2	349	10 10
MIKE D	9/4/18	☐ ON ☐ OFF	94244.1	348	10 - 10
MIKE D	9/5/18	☐ ON ☐ OFF	94276.8	357	10 - 10

ROUTINE SYSTEM CHECK

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48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

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Inspector Name	Date	Blower On/Off	Runtime (hours)	Observations
MIKE D	9/6/18	☑ ON ☐ OFF	94298.4	352 10 - 10
Mike D	9/10/18	☑ ON ☐ OFF	94388.5	352 10 - 10
MIKE D	9/11/18	☑ ON ☐ OFF	94411.6	357 10 - 10
MIKE D	9/12/18	☑ ON ☐ OFF	94435.7	341 10 - 10
MIKE D	9/17/18	☑ ON ☐ OFF	94456.7	352 10 - 10
Mike D	9/17/18	☑ ON ☐ OFF	94543.7	341 10 - 10
Mike D	9/18/18	☑ ON ☐ OFF	94579.6	345 10 - 10
Mike D	9/20/18	☑ ON ☐ OFF	94613.7	341 10 - 10
Mike D	9/21/18	☑ ON ☐ OFF	94651.8	348 10 - 10
Cameron Brown	9/24/18	☑ ON ☐ OFF	94724.4	348 10 - 10
MIKE D	9/25/18	☑ ON ☐ OFF	94748.2	352 10 - 10
Cameron Brown	9/27/18	☑ ON ☐ OFF	94796.3	355 10 - 10
Mike D	9/28/18	☑ ON ☐ OFF	94820.5	336 10 - 10
Cameron Brown	10/1/18	☑ ON ☐ OFF	~~94892.4~~	335 10 - 10
Cameron Brown	10/2/18	☑ ON ☐ OFF	94917.8	358 10 - 10
Mike D	10/3/18	☑ ON ☐ OFF	94939.1	337 10 - 10
MIKE D	10/4/18	☑ ON ☐ OFF	94964.1	363 10 - 10

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

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6. Conduct inspections daily during first month of operation and weekly thereafter.

Inspector Name	Date	Blower On/Off	Runtime (hours)		Observations
Cameron Brown	10/5/18	☑ ON ☐ OFF	94992.2	354	10-10
Cameron Brown	10/8/18	☑ ON ☐ OFF	95060.6	346	10-10
Cameron Brown	10/9/18	☑ ON ☐ OFF	95084.3	346	10-10
Mike D	10/10/18	☑ ON ☐ OFF	95107.6	345	10-10
Mike D	10/11/18	☑ ON ☐ OFF	95129.7	341	10-10
Mike D	10/12/18	☑ ON ☐ OFF	95156.8	343	10-10
Cameron Brown	10/15/18	☑ ON ☐ OFF	95225.1	348	10-10
Mike D	10/16/18	☑ ON ☐ OFF	95251.5	357	10-10
Mike D	10/17/18	☑ ON ☐ OFF	95276.2	352	10-10
Cameron Brown	10/18/18	☑ ON ☐ OFF	95307.4	350	10-10
Mike D	10/19/18	☑ ON ☐ OFF	95323.7	363	10-10
Mike D	10/23/18	☑ ON ☐ OFF	95420.5	341	10-10
Mike D	10/24/18	☑ ON ☐ OFF	95444.1	356	10-10
Cameron Brown	10/25/18	☑ ON ☐ OFF	95468.5	344	10-10
Mike D	10/29/18	☑ ON ☐ OFF	95564.3	348	10-10
Mike D	10/30/18	☑ ON ☐ OFF	95591.5	355	10-10
Cameron Brown	10/31/18	☑ ON ☐ OFF	95620.2	350	10-10

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

ZONE: 1 (2) 3 4 (Circle One)

Readings/Observations to be recorded by AvalonBay Site Representative.

1. Record Inspector Name and Date.
2. Observe and record if blower is on or off. If blower is off, immediately notify an emergency contact listed on attached page.
3. Observe and record the elapsed runtime.
4. Record any other comments e.g., unusual odors, spills, leaks, etc. If such conditions exsist, immediately notify an emergency contact listed on attached page.
5. Retain this page on-site for collection by ATC Associates.
6. Conduct inspections daily during first month of operation and weekly thereafter.

Inspector Name	Date	Blower On/Off	Runtime (hours)	Observations	
Mike D	11-1-18	☑ ON ☐ OFF	95643.8	342	10 - 10
Mike D	11-2-18	☑ ON ☐ OFF	95660.5	348	10 - 10
Cameron Brown	11-4-18	☑ ON ☐ OFF	95733.5	360	10 - 10
Cameron Brown	11-6-18	☑ ON ☐ OFF	95757.5	348	10 - 10
Cameron Brown	11-7-18	☑ ON ☐ OFF	95781.7	350	10 - 10
Cameron Brown	11-9-18	☑ ON ☐ OFF	95806.8	347	10 - 10
Cameron Brown	11-12-18	☑ ON ☐ OFF	95901.4	352	10 - 10
Mike D	11-13-18	☑ ON ☐ OFF	95925.7	345	9.5 - 10
Mike D	11-14-18	☑ ON ☐ OFF	95949.3	358	9.5 - 9.5
Mike D	11-19-18	☑ ON ☐ OFF	96069.7	352	9.5 - 9.5
Mike D	11-20-18	☑ ON ☐ OFF	96093.8	345	9.5 - 9.5
Mike D	11-21-18	☑ ON ☐ OFF	96116.1	363	9.5 - 9.5
Mike D	11-26-18	☑ ON ☐ OFF	96237.6	355	9.5 - 9.5
Mike D	11-27-18	☑ ON ☐ OFF	96268.5	344	9.5 - 9.5
Mike D	11-28-18	☑ ON ☐ OFF	96292.6	353	9.5 - 9.5
Denise C	11-29-18	☑ ON ☐ OFF	96309.5	351	9.5 - 9.5
Mike D	11-30-18	☑ ON ☐ OFF	96323.6	352	9.5 - 9.5

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

ZONE: 1 (2) 3 4 (Circle One)

Readings/Observations to be recorded by AvalonBay Site Representative.

1. Record Inspector Name and Date.
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3. Observe and record the elapsed runtime.
4. Record any other comments e.g., unusual odors, spills, leaks, etc. If such conditions exsist, immediately notify an emergency contact listed on attached page.
5. Retain this page on-site for collection by ATC Associates.
6. Conduct inspections daily during first month of operation and weekly thereafter.

Inspector Name	Date	Blower On/Off	Runtime (hours)		Observations
Mike D	12-3-18	☑ ON ☐ OFF	96403.8	341	9.5-9.5
Mike D	12-4-18	☑ ON ☐ OFF	96429.2	345	9.5-9.5
Mike D	12-5-18	☑ ON ☐ OFF	96453.5	351	9.5-9.5
Ervin H	12/06/18	☑ ON ☐ OFF	96477.8	358	9.5-9.5
Ervin H	12/10/18	☑ ON ☐ OFF	96573.3	362	9.5-9.5
Ervin H	12/11/18	☑ ON ☐ OFF	96597.3	355	9.5-9.5
Mike D	12/12/18	☑ ON ☐ OFF	9662.1	370	9.5-9.5
Mike D	12/13/18	☑ ON ☐ OFF	96645.9	360	9.5-9.5
Mike D	12/14/18	☑ ON ☐ OFF	96669.6	358	9.5-9.5
Ervin H	12/17/18	☑ ON ☐ OFF	96741.0	351	9.5-9.5
Ervin H	12/18/18	☑ ON ☐ OFF	96765.3	353	9.5-9.5
Ervin H	12/19/18	☑ ON ☐ OFF	96789.5	358	9.5-9.5
Ervin H	12/20/18	☑ ON ☐ OFF	96813.7	357	9.5-9.5
Mike D	12/24/18	☑ ON ☐ OFF	96910.8	359	9.5-9.5
Mike D	12/26/18	☑ ON ☐ OFF	96959.2	351	9.5-9.5
Denise C	12/28/18	☑ ON ☐ OFF	97006.5	360	9.5-9.5
		☐ ON ☐ OFF			

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

ZONE: 1 2 (3) 4 (Circle One)

Readings/Observations to be recorded by AvalonBay Site Representative.

1. Record Inspector Name and Date.
2. Observe and record if blower is on or off. **If blower is off, immediately notify an emergency contact listed on attached page.**
3. Observe and record the elapsed runtime.
4. Record any other comments e.g., unusual odors, spills, leaks, etc. **If such conditions exsist, immediately notify an emergency contact listed on attached page.**
5. Retain this page on-site for collection by ATC Associates.
6. Conduct inspections daily during first month of operation and weekly thereafter.

Inspector Name	Date	Blower On/Off	Runtime (hours)	Well - total	Observations	Pre	Post
Denise C	1-3-18	☑ ON ☐ OFF	78,845	709	310	11.5	12.0
Dennis	1-24-18	☐ ON ☐ OFF	79,356.2	789	308	311.5	12-0
Dennis	1-25-18	☑ ON ☐ OFF	7938	779	309	16.0	14.0
Dennis	1-26-18	☑ ON ☐ OFF	79400	739	311	16.0	14.0
Dennis	1-29-18	☑ ON ☐ OFF	79480	759	308	12.0	12.0
Dennis	1-31-18	☑ ON ☐ OFF	79530	759	308	12.0	12.0
Dennis	2-5-18	☑ ON ☐ OFF	79652	759	308	12.0	12.0
Denise C	2-9-18	☑ ON ☐ OFF	79,736.8	669	309	11.5	12.0
Dennis	2-20-18	☑ ON ☐ OFF	79,800.0	669	309	11.5	12.0
Dennis	3-12-18	☑ ON ☐ OFF	80490.	759	300	11.5	12.0
Kevin	4/2/18	☑ ON ☐ OFF	80993.6	749	301	11.5	12.0
Kevin	4/3/18	☑ ON ☐ OFF	81016.8	659	296	11.5	12.0
Kevin	4/4/18	☑ ON ☐ OFF	81041.2	679	302	11.5	12.0
Kevin	4/5/18	☑ ON ☐ OFF	81064.2	709	304	11.5	12.0
Kevin	4/9/18	☑ ON ☐ OFF	81161.4	639	304	11.5	12.0
Kevin	4/10/18	☑ ON ☐ OFF	81184.0	679	306	11.5	12.0
Kevin	4/11/18	☑ ON ☐ OFF	81208.4	659	307	11.5	12.0

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

ZONE: 1 2 (3) 4 (Circle One)

Readings/Observations to be recorded by AvalonBay Site Representative.

1. Record Inspector Name and Date.
2. Observe and record if blower is on or off. **If blower is off, immediately notify an emergency contact listed on attached page.**
3. Observe and record the elapsed runtime.
4. Record any other comments e.g., unusual odors, spills, leaks, etc. **If such conditions exsist, immediately notify an emergency contact listed on attached page.**
5. Retain this page on-site for collection by ATC Associates.
6. Conduct inspections daily during first month of operation and weekly thereafter. 8256.7

Inspector Name	Date	Blower On/Off	Runtime (hours)	well - total	Observations	pre - post
Kevin	4/13/18	☑ ON ☐ OFF	8[illegible]	639 - 706		11.5 - 12.0
Kevin	4/16/18	☑ ON ☐ OFF	8134.5	599 - 287		11.5 - 12.0
Kevin	4/17/18	☑ ON ☐ OFF	8153.0	689 - 293		11.5 - 12.0
Kevin	4/18/18	☑ ON ☐ OFF	8175.0	609 - 296		11.5 - 12.0
Kevin	4/19/18	☑ ON ☐ OFF	8206.3	759 - 297		11.5 - 12.0
Kevin	4/20/18	☑ ON ☐ OFF	8224.2	739 - 299		11.5 - 12.0
Kevin	4/23/18	☑ ON ☐ OFF	8,295.0	749 - 301		11.5 - 12.0
Kevin	4/24/18	☑ ON ☐ OFF	8315.6	699 - 300		11.5 - 12.0
Kevin	5/1/18	☑ ON ☐ OFF	8358.0	719 - 300		11.5 - 12.0
Kevin	5/2/18	☑ ON ☐ OFF	8372.4	689 - 297		11.5 - 12.0
Kevin	5/4/18	☑ ON ☐ OFF	8362.1	731 - 295		11.5 - 12.0
Kevin	5/7/18	☑ ON ☐ OFF	8435.4	619 - 294		11.5 - 12.0
Kevin	5/8/18	☑ ON ☐ OFF	8458.2	639 - 295		11.5 - 12.0
Kevin	5/9/18	☑ ON ☐ OFF	8480.9	599 - 295		11.5 - 12.0
Kevin	5/10/18	☑ ON ☐ OFF	8505.4	609 - 293		11.5 - 12.0
Kevin	5/11/18	☑ ON ☐ OFF	8525.3	719 - 295		11.5 - 12.0
Kevin	5/14/18	☑ ON ☐ OFF	8200.1	589 - 294		11.5 - 12.0

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

ZONE: 1 2 3 4 (Circle One)

Readings/Observations to be recorded by AvalonBay Site Representative.

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4. Record any other comments e.g., unusual odors, spills, leaks, etc. **If such conditions exsist, immediately notify an emergency contact listed on attached page.**
5. Retain this page on-site for collection by ATC Associates.
6. Conduct inspections daily during first month of operation and weekly thereafter.

Inspector Name	Date	Blower On/Off	Runtime (hours)	Observations (well - total)	pre - post
Kevin	5/15/18	☑ ON ☐ OFF	82024.6	719 292	11.5 - 12.0
Kevin	5/16/18	☑ ON ☐ OFF	82045.6	559 - 287	11.5 - 12.0
Kevin	5/17/18	☑ ON ☐ OFF	82073.7	567 - 288	11.5 - 12.0
Kevin	5/18/18	☑ ON ☐ OFF	82096.7	649 293	11.5 - 12.0
Kevin	5/21/18	☑ ON ☐ OFF	82168.7	649 - 289	11.5 - 12.0
Kevin	5/23/18	☑ ON ☐ OFF	82215.6	664 - 286	11.5 - 12.0
Kevin	5/24/18	☑ ON ☐ OFF	82240.3	569 - 285	11.5 - 12.0
Kevin	5/29/18	☑ ON ☐ OFF	82362.1	585 - 283	11.5 - 12.0
Derek	6-25/18	☑ ON ☐ OFF	83002.6	599 - 277	13.0 - 13.5
MIKE D	6/26/18	☑ ON ☐ OFF	83026.9	549 - 276	12.5 - 12.5
MIKE D	6/27/18	☑ ON ☐ OFF	83047.2	569 - 276	12.5 - 12.5
MIKE D	6/28/18	☑ ON ☐ OFF	83070.8	579 - 273	12 - 13
MIKE D	6/29/18	☑ ON ☐ OFF	83091.6	569 - 275	12.5 - 13
MIKE D	7/2/18	☑ ON ☐ OFF	83166.4	579 - 271	12.5 - 12.5
MIKE D	7/3/18	☑ ON ☐ OFF	83195.6	569 - 274	12.5 - 12.5
MIKE D	7/5/18	☑ ON ☐ OFF	83238.0	579 - 269	12.5 - 13
MIKE D	7/9/18	☑ ON ☐ OFF	83336.8	569 - 272	12.5 -

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

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4. Record any other comments e.g., unusual odors, spills, leaks, etc. **If such conditions exsist, immediately notify an emergency contact listed on attached page.**
5. Retain this page on-site for collection by ATC Associates.
6. Conduct inspections daily during first month of operation and weekly thereafter.

Inspector Name	Date	Blower On/Off	Runtime (hours)	Observations	
MIKE D	7/10/18	☑ ON ☐ OFF	83358.3	549 - 273	12-13
MIKE D	7/11/18	☑ ON ☐ OFF	83391.0	579 - 271	12-13
MIKE D	7/12/18	☑ ON ☐ OFF	83447.8	549 - 272	12.5-13
MIKE D	7/13/18	☑ ON ☐ OFF	83430.4	579 - 271	12-13
MIKE D	7/16/18	☑ ON ☐ OFF	83503.6	539 - 268	12.5-13
MIKE D	7/17/18	☑ ON ☐ OFF	83527.8	549 - 270	12.5-13
MIKE D	7/18/18	☑ ON ☐ OFF	83552.7	549 - 261	12.5-13
MIKE D	7/19/18	☑ ON ☐ OFF	83575.9	539 - 267	12.5-13
MIKE D	7/20/18	☑ ON ☐ OFF	83598.4	549 - 261	12.5-13
MIKE D	7/23/18	☑ ON ☐ OFF	83671.6	539 - 259	12.5-13
MIKE D	7/24/18	☐ ON ☑ OFF	83695.9	539 - 262	12.5-13
DENISE C	7/31/18	☑ ON ☐ OFF	83865.4	519 264	12.5-13
MIKE D	8/6/18	☑ ON ☐ OFF	84007.6	509 - 258	12.5-13
MIKE D	8/7/18	☑ ON ☐ OFF	84030.6	519 - 257	12.5-13
MIKE D	8/8/18	☑ ON ☐ OFF	84056.7	509 - 264	12.5-13
MIKE D	8/9/18	☑ ON ☐ OFF	84077.8	539 - 262	12.5-13
MIKE D	8/10/18	☑ ON ☐ OFF	84096.7	519 - 264	12.5-13

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

ZONE: 1 2 (3) 4 (Circle One)

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3. Observe and record the elapsed runtime.
4. Record any other comments e.g., unusual odors, spills, leaks, etc. **If such conditions exsist, immediately notify an emergency contact listed on attached page.**
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6. Conduct inspections daily during first month of operation and weekly thereafter.

Inspector Name	Date	Blower On/Off	Runtime (hours)	Observations (WELL TOTAL)	Observations (PRE POST)
MIKE D	8/14/18	☒ ON ☐ OFF	84198.3	509 - 248	13 - 13
MIKE D	8/15/18	☒ ON ☐ OFF	84231.9	489 - 248	13 - 13
MIKE D	8/16/18	☒ ON ☐ OFF	84246.7	499 - 251	13 - 13
MIKE D	8/17/18	☒ ON ☐ OFF	84259.8	489 - 251	13 - 13
MIKE D	8/20/18	☒ ON ☐ OFF	84363.8	499 - 254	13-13
MIKE D	8/21/18	☒ ON ☐ OFF	84375.2	509 - 255	13-13
MIKE D	8/22/18	☒ ON ☐ OFF	84391.6	489 - 253	12.5-13
MIKE D	8/24/18	☒ ON ☐ OFF	84438.9	519 - 257	12.5-13
DENISE C	8/30/18	☒ ON ☐ OFF	84,584.6	509 - 257	12.5 - 13
MIKE D	9/4/18	☒ ON ☐ OFF	84702.7	529 - 263	12.5 - 13
MIKE D	9/5/18	☒ ON ☐ OFF	84735.9	529 - 259	12.5 - 13
MIKE D	9/6/18	☒ ON ☐ OFF	84757.5	519 - 258	13 - 13
MIKE D	9/10/18	☒ ON ☐ OFF	84847.5	509 - 256	13-13
MIKE D	9/11/18	☒ ON ☐ OFF	84870.5	499 - 253	12.5-13
MIKE D	9/12/18	☒ ON ☐ OFF	84894.0	499 - 257	12.5-13
MIKE D	9/14/18	☒ ON ☐ OFF	84942.5	499 - 255	13 - 13
MIKE D	9/17/18	☒ ON ☐ OFF	84997.6	509 - 263	13-13

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

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4. Record any other comments e.g., unusual odors, spills, leaks, etc. **If such conditions exsist, immediately notify an emergency contact listed on attached page.**
5. Retain this page on-site for collection by ATC Associates.
6. Conduct inspections daily during first month of operation and weekly thereafter.

Inspector Name	Date	Blower On/Off	Runtime (hours)	Observations	
Mike D	9/18/18	☑ ON ☐ OFF	85038.7	499-257	12.5-13
Mike D	9/19/18	☑ ON ☐ OFF	85077.3	502-253	12.5-13
Mike D	9/20/18	☑ ON ☐ OFF	85110.8	499-255	12.5-13
Cameron B	9/24/18	☑ ON ☐ OFF	85183.1	519-260	12.5-13
Mike D	9/25/18	☑ ON ☐ OFF	85207.3	519-256	13-13
Cameron Brown	9/27/18	☑ ON ☐ OFF	85255.2	509-257	12.5-13
Mike D	9/28/18	☑ ON ☐ OFF	85280.0	499.251	13-13
Cameron B	10/1/18	☑ ON ☐ OFF	85351.7	519-261	12.5-13
Cameron B	10/2/18	☑ ON ☐ OFF	85377.0	519-261	12.5-13
Mike D	10/3/18	☑ ON ☐ OFF	85398.8	519-257	12.5-13
Cameron Brown	10/4/18	☑ ON ☐ OFF	85423.7	519-259	12.5-13
Cameron Brown	10/8/18	☑ ON ☐ OFF	85520.7	535-266	12.5-13
Mike D	10/10/18	☑ ON ☐ OFF	85566.9	549-265	12.5-13
Cameron B	10/15/18	☑ ON ☐ OFF	85697.3	549-270	12.5-13
Mike D	10/16/18	☑ ON ☐ OFF	85710.9	551-272	12.5-13
Mike D	10/17/18	☑ ON ☐ OFF	85735.9	544-273	12-12.5
Cameron B	10/19/18	☑ ON ☐ OFF	85766.5	579-278	12-12.5

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

ZONE: 1 2 (3) 4 (Circle One)

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6. Conduct inspections daily during first month of operation and weekly thereafter.

Inspector Name	Date	Blower On/Off	Runtime (hours)	Observations	
Cameron Brown	10/19/18	☑ ON ☐ OFF	85783.1	579-279	12-12-5
MIKE D	10/23/18	☑ ON ☐ OFF	85879.2	589-284	13-13
MIKE D	10/24/18	☑ ON ☐ OFF	85903.4	599-285	12-12
Cameron Brown	10/25/18	☑ ON ☐ OFF	85927.8	599-286	12-12
MIKE D	10/26/18	☑ ON ☐ OFF	86023.7	609-285	12-12
~~MIKE C.~~	~~10/3~~	☐ ON ☐ OFF			
MIKE D	10/30/18	☑ ON ☐ OFF	86050.4	609-288	12-12
Cameron Brown	10/31/18	☑ ON ☐ OFF	86075.4	609-287	12-12
MIKE D	11/1/18	☑ ON ☐ OFF	86099.7	608-285	12-12
MIKE D	11/2/18	☑ ON ☐ OFF	86119.8	599-286	12-12
MIKE D	11/5/18	☑ ON ☐ OFF	86192.7	609-290	12-12
Cameron B	11/6/18	☑ ON ☐ OFF	86217.3	599-298	12-12
Cameron B	11/7/18	☑ ON ☐ OFF	86241.0	599-290	12-12
Cameron Brown	11/8/18	☑ ON ☐ OFF	85265.4	591-290	12-12
Cameron Brown	11/12/18	☑ ON ☐ OFF	86360.3	621-297	12-12
MIKE D	11/13/18	☑ ON ☐ OFF	86384.0	611-287	12-12
MIKE D	11/14/18	☑ ON ☐ OFF	86408.4	607-295	12-12

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

ZONE: 1 2 (3) 4 (Circle One)

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5. Retain this page on-site for collection by ATC Associates.
6. Conduct inspections daily during first month of operation and weekly thereafter.

Inspector Name	Date	Blower On/Off	Runtime (hours)	Observations	
Mike D	11/19/18	☑ ON ☐ OFF	86520.1	631 - 298	12 - 12
Mike D	11/20/18	☑ ON ☐ OFF	86552.7	691 - 299	12 - 12
Mike D	11/21/18	☑ ON ☐ OFF	86575.4	661 - 298	12 - 12
Mike D	11/26/18	☑ ON ☐ OFF	86696.8	- 301	12 - 12
Mike D	11/27/18	☑ ON ☐ OFF	86732.7	-299	12 - 12
Mike D	11/28/18	☑ ON ☐ OFF	86751.6	- 301	12 - 12 ATC called
Denise C.	11/29/18	☑ ON ☐ OFF	86768.4	4361 - 302	
Mike D	11/30/18	☑ ON ☐ OFF	86787.5	5961 - 304	12 - 12
Mike D	12/3/18	☑ ON ☐ OFF	86857.6	6141 - 302	12 - 12
Mike D	12/4/18	☑ ON ☐ OFF	86888.2	6001 - 302	11.5 - 12
Ervin H	12/05/18	☑ ON ☐ OFF	869125	5221 - 305	11.5 - 12
Ervin H	12/06/18	☑ ON ☐ OFF	86937.5	4021 - 307	11.5 - 12
Ervin H	12/10/18	☑ ON ☐ OFF	87032.1	4181 - 309	11.5 - 12
Ervin H	12/11/18	☑ ON ☐ OFF	87056.1	3881 - 311	11.5 - 12
Mike D	12/12/18	☑ ON ☐ OFF	87080.4	1631 - 308	11.5 - 12
Mike D	12/13/18	☑ ON ☐ OFF	87105.4	1671 - 312	11.5 - 12
Mike D	12/14/18	☑ ON ☐ OFF	87126.7	1761 - 313	11.5 - 12

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

ZONE: 1 2 (3) 4 (Circle One)

Readings/Observations to be recorded by AvalonBay Site Representative.

1. Record Inspector Name and Date.
2. Observe and record if blower is on or off. If blower is off, immediately notify an emergency contact listed on attached page.
3. Observe and record the elapsed runtime.
4. Record any other comments e.g., unusual odors, spills, leaks, etc. If such conditions exsist, immediately notify an emergency contact listed on attached page.
5. Retain this page on-site for collection by ATC Associates.
6. Conduct inspections daily during first month of operation and weekly thereafter.

Inspector Name	Date	Blower On/Off	Runtime (hours)	Observations
Ervin H	12/17/18	☒ ON ☐ OFF	87201.3	4221 - 303 11.5-12
Ervin H	12/18/18	☒ ON ☐ OFF	87225.2	4101 - 309 11.5-12
Ervin H	12/19/18	☒ ON ☐ OFF	87247.1	4321 - 311 11.5-12
Ervin H	12/20/18	☒ ON ☐ OFF	87272.5	4971 - 310 11.5-12
Mike D	12/24/18	☒ ON ☐ OFF	87369.4	3281 - 308 11.5 - 12
Mike D	12/26/18	☒ ON ☐ OFF	87416.4	4371 - 312 11.5 - 12
Denise C	12/28/18	☒ ON ☐ OFF	87450	1931 - 309 11.5 -12
		☐ ON ☐ OFF		
		☐ ON ☐ OFF		
		☐ ON ☐ OFF		
		☐ ON ☐ OFF		
		☐ ON ☐ OFF		
		☐ ON ☐ OFF		
		☐ ON ☐ OFF		
		☐ ON ☐ OFF		
		☐ ON ☐ OFF		
		☐ ON ☐ OFF		

2018

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

ZONE: 1 2 3 4 (Circle One)

Readings/Observations to be recorded by AvalonBay Site Representative.

1. Record Inspector Name and Date.
2. Observe and record if blower is on or off. **If blower is off, immediately notify an emergency contact listed on attached page.**
3. Observe and record the elapsed runtime.
4. Record any other comments e.g., unusual odors, spills, leaks, etc. **If such conditions exsist, immediately notify an emergency contact listed on attached page.**
5. Retain this page on-site for collection by ATC Associates.
6. Conduct inspections daily during first month of operation and weekly thereafter.

well # total pre-POST

Inspector Name	Date	Blower On/Off	Runtime (hours)	Observations		
Denise C	1-3-18	☑ ON ☐ OFF	87,535.9	578	307	5.0 5.5
Dennis	1-24-18	☐ ON ☐ OFF	88,045.2	573	307	5.5 5.6
Dennis	1-25-18	☑ ON ☐ OFF	88072.3	578	307	5.1 5.2
Denise C	2-9-18	☑ ON ☐ OFF	88,425.4	573	305	5.0 5.5
Dennis	2-20-18	☑ ON ☐ OFF	88696.7	573	305	5.0 5.3
Kevin	4/2/18	☐ ON ☐ OFF	89679.8	573	306	5.0-5.5
Kevin	4/3/18	☐ ON ☐ OFF	89705.0	571	307	5.0-5.5
Kevin	4/4/18	☐ ON ☐ OFF	89727.8	567	306	5.0-5.5
Kevin	4/5/18	☐ ON ☐ OFF	89752.6	569	306	5.0-5.5
Kevin	4/9/18	☐ ON ☐ OFF	89850.3	571	307	5.0-5.5
Kevin	4/10/18	☐ ON ☐ OFF	89871.3	569	306	5.0-5.5
Kevin	4/11/18	☐ ON ☐ OFF	89895.2	570	306	5.0-5.5
Kevin	4/13/18	☐ ON ☐ OFF	89944.9	571	306	5.0-5.5
Kevin	4/16/18	☐ ON ☐ OFF	90016.2	567	305	5.0-5.5
Kevin	4/17/18	☐ ON ☐ OFF	90040.0	567	307	5.0-5.5
Kevin	4/18/18	☐ ON ☐ OFF	90066.4	570	306	5.0-5.5
Kevin	4/19/18	☐ ON ☐ OFF	90090.2	567	305	5.0-5.5

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

ZONE: 1 2 3 4 (Circle One)

Readings/Observations to be recorded by AvalonBay Site Representative.

1. Record Inspector Name and Date.
2. Observe and record if blower is on or off. **If blower is off, immediately notify an emergency contact listed on attached page.**
3. Observe and record the elapsed runtime.
4. Record any other comments e.g., unusual odors, spills, leaks, etc. **If such conditions exsist, immediately notify an emergency contact listed on attached page.**
5. Retain this page on-site for collection by ATC Associates.
6. Conduct inspections daily during first month of operation and weekly thereafter.

well - total pre-post

Inspector Name	Date	Blower On/Off	Runtime (hours)	Observations		
Kevin	4/20/18	☑ ON ☐ OFF	90114.3	564	306	5.0-5.5
Kevin	4/23/18	☑ ON ☐ OFF	90186.1	568	304	5.0-5.5
Kevin	4/24/18	☑ ON ☐ OFF	90209.1	567	306	5.0-5.5
Kevin	5/1/18	☑ ON ☐ OFF	90375.9	574	306	5.0-5.5
Kevin	5/2/18	☑ ON ☐ OFF	90399.1	566	305	5.0-5.5
Kevin	5/4/18	☑ ON ☐ OFF	90419.4	559	306	5.0-5.5
Kevin	5/7/18	☑ ON ☐ OFF	90520.6	569	306	5.0-5.5
Kevin	5/8/18	☑ ON ☐ OFF	90545.9	572	306	5.0-5.5
Kevin	5/9/18	☑ ON ☐ OFF	90567.6	562	305	5.0-5.5
Kevin	5/10/18	☑ ON ☐ OFF	90592.4	573	307	5.0-5.5
Kevin	5/14/18	☑ ON ☐ OFF	90668.7	564	306	5.0-5.5
Kevin	5/15/18	☑ ON ☐ OFF	90711.2	565	306	5.0-5.5
Kevin	5/16/18	☑ ON ☐ OFF	90735.9	563	305	5.0-5.5
Kevin	5/17/18	☑ ON ☐ OFF	90759.0	564	306	5.0-5.5
Kevin	5/18/18	☑ ON ☐ OFF	90783.0	565	306	5.0-5.5
Kevin	5/21/18	☑ ON ☐ OFF	90857.8	562	307	5.0-5.5
Kevin	5/23/18	☑ ON ☐ OFF	90905.8	555	306	5.0-5.5

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., ~~LONG~~ ISLAND CITY, NEW YORK

ZONE: 1 2 3 (4) (Circle One)

Readings/Observations to be recorded by AvalonBay Site Representative.

1. Record Inspector Name and Date.
2. Observe and record if blower is on or off. **If blower is off, immediately notify an emergency contact listed on attached page.**
3. Observe and record the elapsed runtime.
4. Record any other comments e.g., unusual odors, spills, leaks, etc. **If such conditions exsist, immediately notify an emergency contact listed on attached page.**
5. Retain this page on-site for collection by ATC Associates.
6. Conduct inspections daily during first month of operation and weekly thereafter.

well - total pre-post

Inspector Name	Date	Blower On/Off	Runtime (hours)	Observations	
Kevin	5/24/18	☑ ON ☐ OFF	90928.10	557 305	5.0-5.5
Kevin	5/29/18	☑ ON ☐ OFF	91048.7	561 307	5.0-5.5
Dondo	6-25-18	☑ ON ☐ OFF	91689.1	568 308	5.5-6.0
MIKE D	6-26-18	☑ ON ☐ OFF	91715.2	567 - 307	5-6
MIKE D	6-27-18	☑ ON ☐ OFF	91734.5	565 - 306	5-5.5
MIKE D	6-28-18	☑ ON ☐ OFF	91757.5	564 - 307	5-5.5
MIKE D	6-29-18	☑ ON ☐ OFF	91784.5	565 - 306	5-5.5
MIKE D	7-2-18	☑ ON ☐ OFF	91853.6	564 - 307	5-5
MIKE D	7/3/18	☑ ON ☐ OFF	91875.5	565 - 306	5-5
MIKE D	7/5/18	☑ ON ☐ OFF	91925.5	567 - 306	5-5.5
MIKE D	7/9/18	☑ ON ☐ OFF	92023.5	570 - 307	5-5.5
MIKE D	7/10/18	☑ ON ☐ OFF	92045.5	570 - 306	5-5.5
MIKE D	7/11/18	☑ ON ☐ OFF	92077.6	574 - 306	5-5.5
MIKE D	7/12/18	☑ ON ☐ OFF	92094.2	570 - 307	5-5
MIKE D	7/13/18	☑ ON ☐ OFF	92108.4	574 - 301	5-5.5
MIKE D	7/16/18	☑ ON ☐ OFF	92196.4	571 - 307	5-5.5
MIKE D	7/17/18	☑ ON ☐ OFF	92214.2	568 - 308	5-5.5

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

ZONE: 1 2 3 (4) (Circle One)

Readings/Observations to be recorded by AvalonBay Site Representative.

1. Record Inspector Name and Date.
2. Observe and record if blower is on or off. **If blower is off, immediately notify an emergency contact listed on attached page.**
3. Observe and record the elapsed runtime.
4. Record any other comments e.g., unusual odors, spills, leaks, etc. **If such conditions exsist, immediately notify an emergency contact listed on attached page.**
5. Retain this page on-site for collection by ATC Associates.
6. Conduct inspections daily during first month of operation and weekly thereafter.

Inspector Name	Date	Blower On/Off	Runtime (hours)	Observations	
MIKE D	7/18/18	☒ ON ☐ OFF	92239.4	571-306	5-5.5
MIKE D	7/19/18	☒ ON ☐ OFF	92262.2	577-306	5-5.5
MIKE D	7/20/18	☒ ON ☐ OFF	92286.4	570-306	5-5.5
MIKE D	7/23/18	☒ ON ☐ OFF	92358.4	562-306	5-5.25
MIKE D	7/24/18	☒ ON ☐ OFF	92382.6	567-306	5-5.25
MIKE D	7/25/18	☒ ON ☐ OFF	92405.9	562-305	5-5.5
MIKE D	7/27/18	☒ ON ☐ OFF	92455.4	561-306	5-5.5
DONISE C	7/31/18	☒ ON ☐ OFF	92552.4	561 306	5-5
MIKE D	8/6/18	☒ ON ☐ OFF	92694.2	564-305	5-5.5
MIKE D	8/7/18	☒ ON ☐ OFF	92717.4	568-305	5-5.25
MIKE D	8/8/18	☒ ON ☐ OFF	92770.9	573-305	5-5.5
MIKE D	8/13/18	☒ ON ☐ OFF	92867.4	564-306	5-5.5
MIKE D	8/14/18	☒ ON ☐ OFF	92929.8	571-306	5-5.5
MIKE D	8/15/18	☒ ON ☐ OFF	92918.7	575-305	5-5.5
MIKE D	8/16/18	☒ ON ☐ OFF	92933.5	565-303	5-5.5
[redacted]KE D	8/20/18	☒ ON ☐ OFF	93024.[redacted]	564-304	5-5.5
MIKE D	8/21/18	☒ ON ☐ OFF	93062.6	565-305	5-5.5

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

ZONE: 1 2 3 (4) (Circle One)

Readings/Observations to be recorded by AvalonBay Site Representative.

1. Record Inspector Name and Date.
2. Observe and record if blower is on or off. **If blower is off, immediately notify an emergency contact listed on attached page.**
3. Observe and record the elapsed runtime.
4. Record any other comments e.g., unusual odors, spills, leaks, etc. **If such conditions exsist, immediately notify an emergency contact listed on attached page.**
5. Retain this page on-site for collection by ATC Associates.
6. Conduct inspections daily during first month of operation and weekly thereafter.

WELL TOTAL PRE POST

Inspector Name	Date	Blower On/Off	Runtime (hours)	Observations	
MIKE D	8/22/18	☑ ON ☐ OFF	93078.7	568-304	5-5.5
MIKE D	8/24/18	☑ ON ☐ OFF	93125.1	567-305	5-5.5
DAVID C.	8/30/18	☑ ON ☐ OFF	93270.9	560 304	5.0 5.5
MIKE D	9/4/18	☑ ON ☐ OFF	93389.9	566-304	5-5.5
MIKE D	9/5/18	☑ ON ☐ OFF	93401.9	567-304	5-5.5
MIKE D	9/6/18	☑ ON ☐ OFF	93444.1	564-304	5-5.5
MIKE D	9/10/18	☑ ON ☐ OFF	93534.6	568-304	5-5.5
MIKE D	9/11/18	☑ ON ☐ OFF	93557.9	563-305	5-5.5
MIKE D	9/12/18	☑ ON ☐ OFF	93581.5	566-305	5-5.5
MIKE D	9/14/18	☑ ON ☐ OFF	93629.5	562-305	5-6
MIKE D	9/17/18	☑ ON ☐ OFF	93698.4	564-304	5-5.5
MIKE D	9/18/18	☑ ON ☐ OFF	93725.0	567-305	5-5.5
MIKE D	9/19/18	☑ ON ☐ OFF	93763.9	564-305	5-5.5
MIKE D	9/21/18	☑ ON ☐ OFF	93797.5	569-305	5-5.5
CAMERON B	9/24/18	☑ ON ☐ OFF	93870.2	568-304	5-5.5
MIKE D	9/25/18	☑ ON ☐ OFF	93893.3	565-305	5-6
CAMERON BROWN	9/27/18	☑ ON ☐ OFF	93942.1	568-306	5-5.5

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

ZONE: 1 2 3 4 (Circle One)

Readings/Observations to be recorded by AvalonBay Site Representative.

1. Record Inspector Name and Date.
2. Observe and record if blower is on or off. **If blower is off, immediately notify an emergency contact listed on attached page.**
3. Observe and record the elapsed runtime.
4. Record any other comments e.g., unusual odors, spills, leaks, etc. **If such conditions exsist, immediately notify an emergency contact listed on attached page.**
5. Retain this page on-site for collection by ATC Associates.
6. Conduct inspections daily during first month of operation and weekly thereafter.

Inspector Name	Date	Blower On/Off	Runtime (hours)	Observations	
Mike D	9/28/18	☑ ON ☐ OFF	93966.4	569-304	5-5.5
Cameron Brown	10/1/18	☑ ON ☐ OFF	94038.3	568-302	5-5.5
Cameron Brown	10/2/18	☑ ON ☐ OFF	94063.4	568-304	5-5.5
Mike D	10/3/18	☑ ON ☐ OFF	94085.4	566-305	5-5.5
Cameron Brown	10/4/18	☑ ON ☐ OFF	94110.8	567-305	5-5.5
Cameron Brown	10/5/18	☑ ON ☐ OFF	94138.0	571-303	5-5.5
Cameron Brown	10/8/18	☑ ON ☐ OFF	94206.2	565-305	5-5.5
Cameron Brown	10/9/18	☑ ON ☐ OFF	94250.1	567-303	5-5.5
Mike D	10/10/18	☑ ON ☐ OFF	94253.5	559-306	5-5.5
Mike D	10/11/18	☑ ON ☐ OFF	94298.4	565-307	5-5.5
Mike D	10/12/18	☑ ON ☐ OFF	94327	570-304	5-5.5
Cameron Brown	10/15/18	☑ ON ☐ OFF	94373.8	570-303	5-5.5
Mike D	10/16/18	☑ ON ☐ OFF	94397.2	572-304	5-5.5
Mike D	10/17/18	☑ ON ☐ OFF	94422.1	574-305	5-5.5
Cameron Brown	10/18/18	☑ ON ☐ OFF	94453.3	569-304	5-5.5
Cameron Brown	10/19/18	☑ ON ☐ OFF	94470.2	576-305	5-5.5
Mike D	10/23/18	☑ ON ☐ OFF	94566.3	568-303	5-5.5

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

ZONE: 1 2 3 4 (Circle One)

Readings/Observations to be recorded by AvalonBay Site Representative.

1. Record Inspector Name and Date.
2. Observe and record if blower is on or off. **If blower is off, immediately notify an emergency contact listed on attached page.**
3. Observe and record the elapsed runtime.
4. Record any other comments e.g., unusual odors, spills, leaks, etc. **If such conditions exsist, immediately notify an emergency contact listed on attached page.**
5. Retain this page on-site for collection by ATC Associates.
6. Conduct inspections daily during first month of operation and weekly thereafter.

Inspector Name	Date	Blower On/Off	Runtime (hours)	Observations	
MIKE D	10/24/18	☑ ON ☐ OFF	94590.0	571 - 303	5 - 5.5
Cameron Brown	10/26/18	☑ ON ☐ OFF	94614.3	570 - 303	5 - 5.5
MIKE D	10/29/18	☑ ON ☐ OFF	94710.3	574 - 303	5 - 5.5
MIKE D	10/31/18	☑ ON ☐ OFF	94737.4	563 - 305	5 - 5.5
MIKE D	11/1/18	☑ ON ☐ OFF	94773.6	574 - 302	5 - 5.5
MIKE D	11/2/18	☑ ON ☐ OFF	94806.3	566 - 303	5 - 5.5
MIKE D	11/5/18	☑ ON ☐ OFF	94879.3	564 - 304	5 - 5.5
Cameron B	11/6/18	☑ ON ☐ OFF	94903.6	570 - 303	5 - 5.5
Cameron Brown	11/7/18	☑ ON ☐ OFF	94927.8	570 - 303	5 - 5.5
Cameron Brown	11/8/18	☑ ON ☐ OFF	94952.0	570 - 304	5 - 5.5
MIKE D	11-12-18	☑ ON ☐ OFF	95034.7	570 - 302	5 - 5.5
MIKE D	11-13-18	☑ ON ☐ OFF	95071.4	575 - 304	5 - 5.5
MIKE D	11-14-18	☑ ON ☐ OFF	95095.3	579 - 302	5 - 5.5
MIKE D	11-19-18	☑ ON ☐ OFF	95214.8	575 - 301	5 - 5.5
MIKE D	11-20-18	☑ ON ☐ OFF	95239.5	584 - 304	5 - 5.5
MIKE D	11-21-18	☑ ON ☐ OFF	95262.3	577 - 305	5 - 5.5
MIKE D	11-26-18	☑ ON ☐ OFF	95383.3	583 - 304	5 - 5.5

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

ZONE: 1 2 3 (4) (Circle One)

Readings/Observations to be recorded by AvalonBay Site Representative.

1. Record Inspector Name and Date.
2. Observe and record if blower is on or off. If blower is off, immediately notify an emergency contact listed on attached page.
3. Observe and record the elapsed runtime.
4. Record any other comments e.g., unusual odors, spills, leaks, etc. If such conditions exsist, immediately notify an emergency contact listed on attached page.
5. Retain this page on-site for collection by ATC Associates.
6. Conduct inspections daily during first month of operation and weekly thereafter.

Inspector Name	Date	Blower On/Off	Runtime (hours)	Observations	Well Total
Mike D	11/27/18	☑ ON ☐ OFF	95402.6	578-303	5-5.5
Mike D	11-28-18	☑ ON ☑ OFF	95438.4	584-304	5-5.5
DENISE C	11.29.18	☑ ON ☐ OFF	95,454.8	576-304	5.25-5.5
Mike D	11-30-18	☑ ON ☐ OFF	95476.7	583-304	5-5.5
Mike D	12-3-18	☑ ON ☐ OFF	95544.6	584-303	5-5.5
Mike D	12-4-18	☑ ON ☐ OFF	95575.1	580-305	5-5.5
ERVIN H	12-5-18	☑ ON ☐ OFF	95599.4	586-305	5.5-5.5
ERVIN H	12/6/18	☑ ON ☐ OFF	95623.6	580-304	5-5.5
ERVIN H	12/10/18	☑ ON ☐ OFF	95719.2	580-304	5.5-5.5
ERVIN H	12/11/18	☑ ON ☐ OFF	95743.5	580-305	5.5-5.5
Mike D	12/12/18	☑ ON ☐ OFF	95767.0	579-305	5.5-5.5
Mike D	12/13/18	☑ ON ☐ OFF	95791.6	581-305	5-5.5
Mike D	12/14/18	☑ ON ☐ OFF	95815.5	582-305	5-5.5
ERVIN H	12/17/18	☑ ON ☐ OFF	95886.9	580-304	5-5.5
Mike D	12/18/18	☑ ON ☐ OFF	95916.5	586-303	5-5.5
ERVIN H	12/19/18	☑ ON ☐ OFF	95935.4	580-304	5-5.5
ERVIN H	12/20/18	☑ ON ☐ OFF	95959.6	581-304	5-5.5

ROUTINE SYSTEM CHECK

PARCEL 9 VAPOR MITIGATION SYSTEM

42ND AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

ZONE: 1 2 3 (4) (Circle One)

Readings/Observations to be recorded by AvalonBay Site Representative.

1. Record Inspector Name and Date.
2. Observe and record if blower is on or off. If blower is off, immediately notify an emergency contact listed on attached page.
3. Observe and record the elapsed runtime.
4. Record any other comments e.g., unusual odors, spills, leaks, etc. If such conditions exsist, immediately notify an emergency contact listed on attached page.
5. Retain this page on-site for collection by ATC Associates.
6. Conduct inspections daily during first month of operation and weekly thereafter.

Inspector Name	Date	Blower On/Off	Runtime (hours)	WELL TOTAL Observations
Mike D	12/24/18	☑ ON ☐ OFF	96054.2	580 - 304 5 - 5.5
Mike D	12/26/18	☑ ON ☐ OFF	96165.1	575 - 304 5 - 5.5
Mike C	12/28/18	☑ ON ☐ OFF	96152.5	577 - 305 5 - 5.5
		☐ ON ☐ OFF		
		☐ ON ☐ OFF		
		☐ ON ☐ OFF		
		☐ ON ☐ OFF		
		☐ ON ☐ OFF		
		☐ ON ☐ OFF		
		☐ ON ☐ OFF		
		☐ ON ☐ OFF		
		☐ ON ☐ OFF		
		☐ ON ☐ OFF		
		☐ ON ☐ OFF		
		☐ ON ☐ OFF		
		☐ ON ☐ OFF		

Appendix C - Site-wide Inspection Log

SITE WIDE INSPECTION FORM
QUEENS WEST PARCEL 9
48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

6. Permits

Do vapor emissions meet NYSDEC regulatory standards?

N/A

7. Vapor mitigation system O&M

Are routine system check logs being completed by on-site representative?

yes

Are Periodic Inspections being conducted as scheduled (note the dates of all inspections)?

yes - 1/3/2018, 2/9/2018, 3/30/2018, 4/27/2018, 5/25/2018, 6/25/2018
7/31/2018, 8/29/2018, 9/28/2018, 10/29/2018, 11/29/2018, 12/28/2018

8. Recordkeeping

Check that the following records/reports are being maintained/completed (note report/log dates as appropriate):

1) Annual site cap inspection log

yes - 12/28/2018

2) Close-out report(s) for soil disburbance activities (including manifests for soil disposal)

N/A

3) Annual groundwater monitoring reports (including laboratory analytical data reports/groundwater contours)

N/A

4) Annual vapor discharge monitoring reports

N/A

5) Routine System Check Log for vapor mitigation system

yes

6) Periodic Inspection Log for vapor mitigation system

yes

7) Annual vapor mitigation system O&M reports

yes

9. Comments

(Note any deficiencies and recommendations for corrective actions.)

None.

SITE WIDE INSPECTION FORM
QUEENS WEST PARCEL 9
48th AVE. AND CENTER BLVD., LONG ISLAND CITY, NEW YORK

Inspector: Denise Cosenza

Date: December 28, 2018

1. Site Use Restrictions

No on-site vegetable gardens?

None

No groundwater withdrawal for potable/non-potable use?

None

Restricted residential maintained (single owner, or common ownership)?

YES

2. Site Cap

Note the date that the annual site cap inspection was performed:

December 28, 2018

Repairs made as noted during inspection?

None Noted - Not Applicable (N/A)

3. Soil Management

Note the date(s) of any soil disturbance activities conducted during the past year:

N/A

Proper soil management procedures implemented (cite appropriate close out reports)?

N/A

4. Groundwater Monitoring

Monitoring being conducted on a quarterly basis (note the dates of sampling conducted)?

N/A

All on-site monitoring wells in working condition (note any repairs/replacement)?

N/A - all onsite monitoring wells decommissioned

5. Vapor Discharge Monitoring

Monitoring being conducted on a quarterly basis (note the dates of sampling conducted)?

N/A

All vapor monitoring points in working condition (note any repairs/replacement)?

N/A

Appendix D - Institutional and Engineering Control 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. **C241049**

Site Name **Queens West (Hunter's Point) Parcel 9**

Site Address: 4-75 48th Avenue Zip Code: 11101
City/Town: Long Island City
County: Queens
Site Acreage: 1.800

Reporting Period: December 31, 2017 to December 31, 2018

	YES	NO
1. Is the information above correct?	●	☐
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?	☐	●
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	●
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	●
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?	☐	●

Box 2

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

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

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	●
If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.		
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	●	☐
If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.		

SITE NO. C241049 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
	NYCDOT attn: Division of Legal Affairs	Ground Water Use Restriction Landuse Restriction Site Management Plan

The site is limited to commercial use.
The groundwater underlying the Property may not be used without treatment rendering it safe for drinking water, as appropriate, unless the user first obtains permission to do so from the Department.

19-1	Queens West Development Corporation	Site Management Plan Ground Water Use Restriction Landuse Restriction

The Controlled Property may be used for restricted residential use as long as the following long-term engineering and institutional controls are employed:

a) All engineering controls (including the site cover and sub-slab vapor depressurization system and active venting system) must be operated and maintained as specified in the NYSDEC-approved Site Management Plan (SMP). No Engineering or Institutional Controls may be discontinued without a NYSDEC-approved amendment or extinguishment of the Environmental Easement;
b) Annual inspections of the Site, certifications of Institutional and Engineering Controls and Site usage of the controlled property, and Site Management Reporting to the Department must be conducted in accordance with the NYSDEC-approved SMP;
c) all future soil disturbance activities on the Site that will impact residual contaminated material, including, but not limited to, building construction or expansion, subgrade utility line construction or repair, must be conducted in accordance with the Soil Management provisions in the NYSDEC-approved SMP;
d) Operation Monitoring and Maintenance (OM&M) of the sub-slab depressurization system must be performed in a manner specified in the NYSDEC-approved SMP;
e) Groundwater and other environmental or public health monitoring required by the NYSDEC-approved SMP must be performed in a manner specified in that Plan;
f) Onsite environmental monitoring devices, including but not limited to, groundwater monitoring wells and soil vapor probes, must be protected and replaced as necessary to ensure continued functioning in the manner specified in the NYSDEC-approved SMP;
g) The use of the groundwater underlying the Controlled Property is prohibited without treatment rendering it safe for intended purpose; and
h) Vegetable gardens are prohibited.

The Controlled Property may not be used for a higher level of use such as unrestricted residential without proper notification of NYSDEC of the change of, approval of that use by the NYSDEC, and an amendment of the SMP approved by NYSDEC.

19-19	Queens West Development Corporation	Ground Water Use Restriction Site Management Plan Landuse Restriction

The Controlled Property may be used for restricted residential use as long as the following long-term engineering and institutional controls are employed:

a) All engineering controls (including the site cover and sub-slab vapor depressurization system and active venting system) must be operated and maintained as specified in the NYSDEC-approved Site Management Plan (SMP). No Engineering or Institutional Controls may be discontinued without a NYSDEC-approved amendment or extinguishment of the Environmental Easement;
b) Annual inspections of the Site, certifications of Institutional and Engineering Controls and Site usage of the controlled property, and Site Management Reporting to the Department must be conducted in accordance with the NYSDEC-approved SMP;
c) all future soil disturbance activities on the Site that will impact residual contaminated material, including, but not limited to, building construction or expansion, subgrade utility line construction or repair, must be conducted in accordance with the Soil Management provisions in the NYSDEC-approved SMP;

d) Operation Monitoring and Maintenance (OM&M) of the sub-slab depressurization system must be performed in a manner specified in the NYSDEC-approved SMP;
e) Groundwater and other environmental or public health monitoring required by the NYSDEC-approved SMP must be performed in a manner specified in that Plan;
f) Onsite environmental monitoring devices, including but not limited to, groundwater monitoring wells and soil vapor probes, must be protected and replaced as necessary to ensure continued functioning in the manner specified in the NYSDEC-approved SMP;
g) The use of the groundwater underlying the Controlled Property is prohibited without treatment rendering it safe for intended purpose; and
h) Vegetable gardens are prohibited.

The Controlled Property may not be used for a higher level of use such as unrestricted residential without proper notification of NYSDEC of the change of, approval of that use by the NYSDEC, and an amendment of the SMP approved by NYSDEC.

19-5 Queens West Development Corporation

Site Management Plan
Landuse Restriction
Ground Water Use Restriction

The Controlled Property may be used for restricted residential use as long as the following long-term engineering and institutional controls are employed:

a) All engineering controls (including the site cover and sub-slab vapor depressurization system and active venting system) must be operated and maintained as specified in the NYSDEC-approved Site Management Plan (SMP). No Engineering or Institutional Controls may be discontinued without a NYSDEC-approved amendment or extinguishment of the Environmental Easement;
b) Annual inspections of the Site, certifications of Institutional and Engineering Controls and Site usage of the controlled property, and Site Management Reporting to the Department must be conducted in accordance with the NYSDEC-approved SMP;
c) all future soil disturbance activities on the Site that will impact residual contaminated material, including, but not limited to, building construction or expansion, subgrade utility line construction or repair, must be conducted in accordance with the Soil Management provisions in the NYSDEC-approved SMP;
d) Operation Monitoring and Maintenance (OM&M) of the sub-slab depressurization system must be performed in a manner specified in the NYSDEC-approved SMP;
e) Groundwater and other environmental or public health monitoring required by the NYSDEC-approved SMP must be performed in a manner specified in that Plan;
f) Onsite environmental monitoring devices, including but not limited to, groundwater monitoring wells and soil vapor probes, must be protected and replaced as necessary to ensure continued functioning in the manner specified in the NYSDEC-approved SMP;
g) The use of the groundwater underlying the Controlled Property is prohibited without treatment rendering it safe for intended purpose; and
h) Vegetable gardens are prohibited.

The Controlled Property may not be used for a higher level of use such as unrestricted residential without proper notification of NYSDEC of the change of, approval of that use by the NYSDEC, and an amendment of the SMP approved by NYSDEC.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
19-1	Cover System The composite cover system consisting of the asphalt and concrete of the roadway and sidewalk or a minimum of 1 foot of clean fill on any unpaved areas. Subsurface Barriers Vapor Mitigation Cover System

Parcel	Engineering Control
19-19	Vapor Mitigation Cover System Subsurface Barriers
19-5	Vapor Mitigation Cover System Subsurface Barriers

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
●	☐

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:

   (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; and

   (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
●	☐

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. C241049

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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 J. Brad Romano (print name) at 1633 Broadway, Suite 22B, New York, NY 10019 (print business address)

am certifying as representative of AvalonBay Communities, Inc. (Owner or Remedial Party)

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



Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

1/17/19
Date

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

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 Gilbert Gedeon (print name) at 104 East 25th Street, New York, NY 10010 (print business address),

am certifying as a Qualified Environmental Professional for the Queens West Development (Owner or Remedial Party)



Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date
		4/4/2019

Appendix E - NYSDEC Site Management Modification Approval Letters

New York State Department of Environmental Conservation
Division of Environmental Remediation
47-40 21st Street, Long Island City, NY 11101
Phone: (718) 482-6454 • **Fax:** 718-482-6358
Website: www.dec.ny.gov

Joe Martens
Commissioner

June 4, 2013

Martin Piazzola
Avalon Bay Communities, Inc.
275 7th Avenue, 25th Floor
New York, NY 10001

Re: Site Management Plan (SMP) Modification Request
Queens West (Hunter's Point) Parcel 9, Long Island City
Queens County, Site No.: C241049

Dear Mr. Piazzola:

The New York State Department of Environmental Conservation has reviewed your letter dated March 26, 2013, requesting changes in the SMP requirements for monitoring soil vapor and groundwater. The requested changes for the sampling of soil vapor are under review and will be addressed in separate letter. In the meantime, the monitoring for soil vapor must continue as specified in the SMP. The request to change the frequency of groundwater monitoring from quarterly to semi-annually is approved.

The Site Management Plan must be updated to reflect the approved changes in the groundwater monitoring requirements. Please submit revised pages to the Department within 30 days from the date of this letter. Subsequent to the approval of the changed pages, a revised SMP (in pdf format) with an updated title page must be submitted.

If you have any questions, please contact me at 718-482-4891 or e-mail: smmartin@gw.dec.state.ny.us.

Sincerely,

Sondra Martinkat-Taule
Project Manager

ec: Jane O'Connell - NYSDEC
Dawn Hettrick - NYSDOH
Arana Hankin - QWDC
John Mascioli – Cardno

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2 Office
47-40 21st Street, Long Island City, New York 11101
Phone: (718) 482-6454 • **Fax:** 718-482-6358
Website: www.dec.ny.gov

Joe Martens
Commissioner

December 20, 2013

Martin Piazzola
Avalon Riverview II, LLC
c/o Avalon Bay Communities, Inc.
275 Seventh Avenue, 25th Floor
New York, NY 10001

Re: Site Management Modification Approval
Queens West (Hunter's Point) Parcel 9, Long Island City
Queens County, Site No.: C241049

Dear Mr. Piazzola:

The New York State Department of Environmental Conservation (the Department), in conjunction with the New York State Department of Health, has reviewed the letter submitted by ATC-Cardno Inc, on behalf of Avalon Riverview II, LLC, on March 26, 2013, requesting modification to monitoring requirements specified in the Site Management Plan (SMP). The frequency of groundwater monitoring was the subject of a previous letter dated June 4, 2013. This letter addresses the request to alter the monitoring schedule for soil vapor effluent at the sub-slab depressurization systems (SSDS).

The Department hereby approves the request to modify the SMP. The quarterly sampling at the four SSDS zones may be discontinued. The carbon may be removed and properly disposed of, with documentation included in the Periodic Review Report. All other monitoring requirements remain in effect.

Within 30 days, please submit the appropriate sections of the SMP with revisions (in redline/strikeout mode if possible) to my attention, and include a revised cover page noting the modifications. Following approval of the revised SMP sections, the report will be distributed and a new copy placed in the project repository.

If you have any questions, or need additional forms, please contact me at 718-482-4891 or e-mail: smmartin@gw.dec.state.ny.us.

Sincerely,

Sondra Martinkat
Environmental Engineer 2

ec: Jane O'Connell – NYSDEC
Dawn Hettrick – NYSDOH
John Mascioli – ATC-Cardno

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4995
www.dec.ny.gov

November 24, 2015

David Lewis
Avalon Riverview II
c/o AvalonBay Communities, Inc.
Ballston Tower
671 N. Glebe Road, Suite 800
Arlington VA 22203

Re: Modification of Site Management Plan (SMP) for Queens West Parcel 9 ("Site")
Site ID No.: C241049
Long Island City, Queens County

Dear Mr. Lewis:

The New York State Department of Environmental Conservation has reviewed the February 12, 2015 request to modify the Site Management Plan with respect to semi-annual groundwater monitoring. The request to discontinue monitoring is approved.

Please maintain wells MW-2 and MW-8 to be available for gauging and monitoring by Queens West Development Corp. for the Queens West Center Blvd. Voluntary Cleanup Program site, V00194A. You must decommission the remaining wells in accordance with NYSDEC CP-43 Groundwater Well Decommissioning Policy, which can be found at http://www.dec.ny.gov/regulations/2393.html.

The Site Management Plan must updated to reflect the approved changes. Submit the section number and the text that will replace the current SMP section(s). The title page has to be updated also. Once reviewed, a new PDF document of the SMP will be reissued to the Department and to all repositories.

If you have any questions, please contact me at 718-482-4891, or email me at Sondra.martinkat@dec.ny.gov .

Sincerely,

Sondra Martinkat
Project Manager

cc: Jane O'Connell – NYSDEC
Denise Cosenza, Gil Gedeon – ATC Cardno
Simon Wynn – QWDC
Steve Panter – FLS

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4995
www.dec.ny.gov

March 22, 2016

David Lewis
AvalonBay Communities, Inc.
1499 Post Road, 2nd floor
Fairfield, CT 06824

Re: Site Management (SM) Periodic Review Report (PRR) Response Letter
Queens West (Hunter's Point) Parcel 9, Long Island City
Queens County, Site No.: C241049

Dear Mr. Lewis (as the Certifying Party):

The Department has reviewed your Periodic Review Report (PRR) and IC/EC Certification for following period: 12/31/2014 to 12/31/2015.

The Department hereby accepts the PRR and associated Certification. The frequency of Periodic Reviews for this site is one (1) year, and your next PRR is due on January 30, 2017. You will receive a reminder letter and updated certification form 45-days prior to the due date.

A letter was sent on November 24, 2015 with instructions to close all groundwater wells except MW-2 and MW-8. It is my understanding that these wells have not yet been decommissioned. Please decommission all wells *including* MW-2 and MW-8 within the next 90 days in accordance with CP-43. Submit documentation in the next PRR.

If you have any questions, please contact me at 718-482-4891 or e-mail: Sondra.martinkat@dec.ny.gov .

Sincerely,

Sondra Martinkat
Project Manager

ec: Jane O'Connell – NYSDEC
Dawn Hettrick – NYSDOH
Simon Wynn, Esq. – Queens West Development Corporation
Matthew Ulrich – Avalon Bay Communities
Gil Gedeon, Denise Cosenza – ATC Cardno

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Bureau of Technical Support
625 Broadway, 11th Floor, Albany, NY 12233-7020
P: (518)402-9543 | F: (518)402-9547
www.dec.ny.gov

April 12, 2018

Matthew Ulrich
AvalonBay Communities, Inc.
1499 Post Road, 2nd floor
Fairfield, CT 06824

Re: Site Management (SM) Periodic Review Report (PRR) Response Letter

Queens West (Hunter's Point) Parcel 9, Long Island City
Queens County, Site No.: C241049

Dear Matthew Ulrich (as the Certifying Party):

The Department has reviewed your Periodic Review Report (PRR) and IC/EC Certification for following period: December 31, 2016 to December 31, 2017.

The Department hereby accepts the PRR and associated Certification. The frequency of Periodic Reviews for this site is one (1) year, and your next PRR is due on January 30, 2019. You will receive a reminder letter and updated certification form 45-days prior to the due date.

If you have any questions, or need additional forms, please contact me at 718-482-4891 or e-mail: sondra.martinkat@dec.ny.gov.

Sincerely,

Sondra Martinkat
Project Manager

ec: Jane O'Connell – NYSDEC
Dawn Hettrick – NYSDOH
Simon Wynn – Queens West Development Corporation
Gil Gedeon – ATC

Appendix F - Disposal Documentation

RECOVERY ENVIRONMENTAL SERVICES, INC.

51 U.S. Highway 206 • Suite 102 • Augusta, New Jersey 07822
Phone: (973) 940-3144 • Fax: (973) 940-3146

DAILY JOB REPORT

Company ATC
Street 4-75 48TH AVE
City, State, Zip LIC NY
Location of Work 48+5
Contact JOHN Telephone
Change of Scope (Call your supervisor)

Job Complete ❑ Yes ❑ No Lunch Taken ❑ Yes ❑ No

Day/Date 2-19-14 WED Job Number
Tail Gate Safety Meeting - Time Supervisor/Foreman CULIN
Job Description
DISCONNECT CARBON DRUM'S
AND REMOVE OFF SITE RECONNECT SYSTEM
WITH OUT CARBON AS TO CUSTUMER

Name	Left Shop	On Site	Left Site	At Shop	Total
CULIN	500	700	930		
KEVIN	500	700	930		

Equipment - Type	Qty.
RACK TRUCK	
DRUM CART	
MISC HAND TOOL'S	

Material - Type	Qty.

C.U.L.

Customer

White - CORPORATE OFFICE Canary - BRANCH OFFICE Pink - CUSTOMER Gold - OFFICE

THIS MEMORANDUM is an acknowledgment that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper's No. _____

Carrier's Name: RECOVERY ENVIRONMENTAL SERVICES INC Carrier's No. _____

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of lading,

at 4-75 48th Ave LIC (Date) 2-19-14 FROM AIC

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in the Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address for purposes of notification only.)

Consigned TO _____

On Collect on Delivery Shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

Destination _____ Street _____ City _____

_____ County _____ State _____ Zip _____

Route _____ Delivery Address ★ _____

(★To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

Delivering Carrier _____ Car or Vehicle Initials and No. _____

Collect on Delivery $ _____ And Remit to _____

_____ Street _____ City _____ State _____

No. Packages	H.M.	Kind of Package, Description of Articles, Special Marks, and Exceptions	*Weight (Subject to Correction)	Class or Rate	Check Column
2		55 Gallon Drum's (HAZ'Bus)	1000 LBS.	DR	

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight.
NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____
(Signature of consignor.)

C. O. D. Charges to be Paid by
☐ Shipper ☐ Consignee

If charges are to be prepaid, write or stamp here, "To be Prepaid."

Received $ _____ to apply in prepayment of the charges on the property described hereon.

_____
Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges Advanced:

$ _____

† "The fibre containers used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Rule 41 of the Uniform Freight Classification and Rule 5 of the National Motor Freight Classification."
† Shipper's imprint in lieu of stamp; not a part of bill of lading approved by the Interstate Commerce Commission.

_____ Shipper, Per _____ Agent

Permanent post-office address of shipper, _____ Per _____

3

Appendix G – Well Decommissioning Records

FIGURE 3

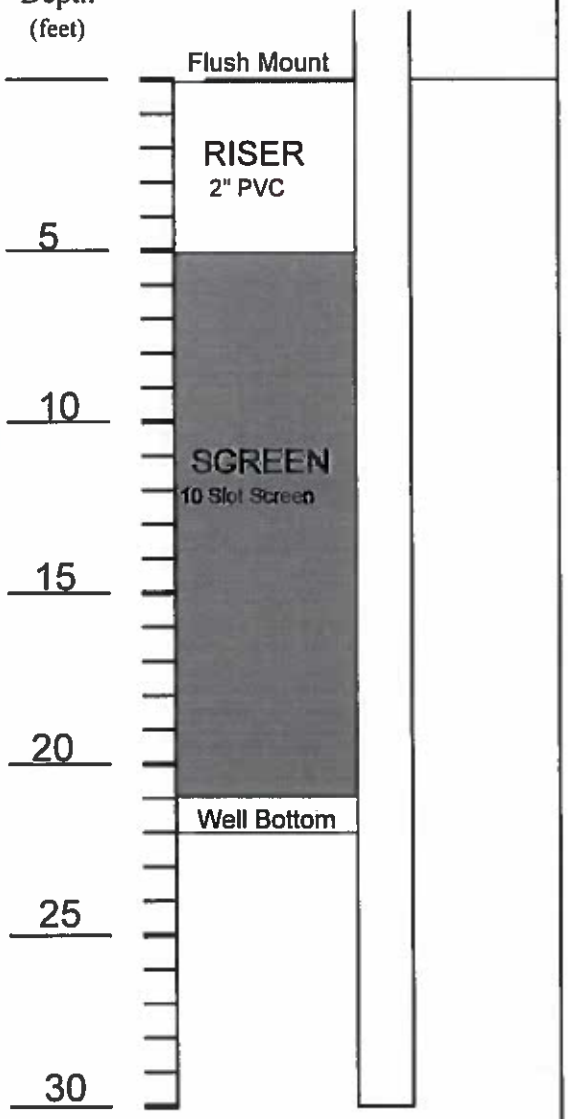
WELL DECOMMISSIONING RECORD

Site Name: Queens West Development Parcel 9	Well I.D.: MW-11R
Site Location: Queens, New York	Driller: CTS
Drilling Co.: Zebra Technical Services, LLC	Inspector: Denise Cosenza
	Date: April 5, 2016

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-22
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	8
Quantity of cement used (lbs.)	94
Cement type	Type I
Quantity of bentonite used (lbs.)	4
Quantity of calcium chloride used (lbs.)	0
Volume of grout prepared (gal.)	12
Volume of grout used (gal.)	4

WELL SCHEMATIC*



COMMENTS: flush mount removed

* Sketch in all relevant decommissioning data, including interval overdrilled, interval grouted, casing left in hole, well stickup, etc

Drilling Contractor

Department Representative

FIGURE 3

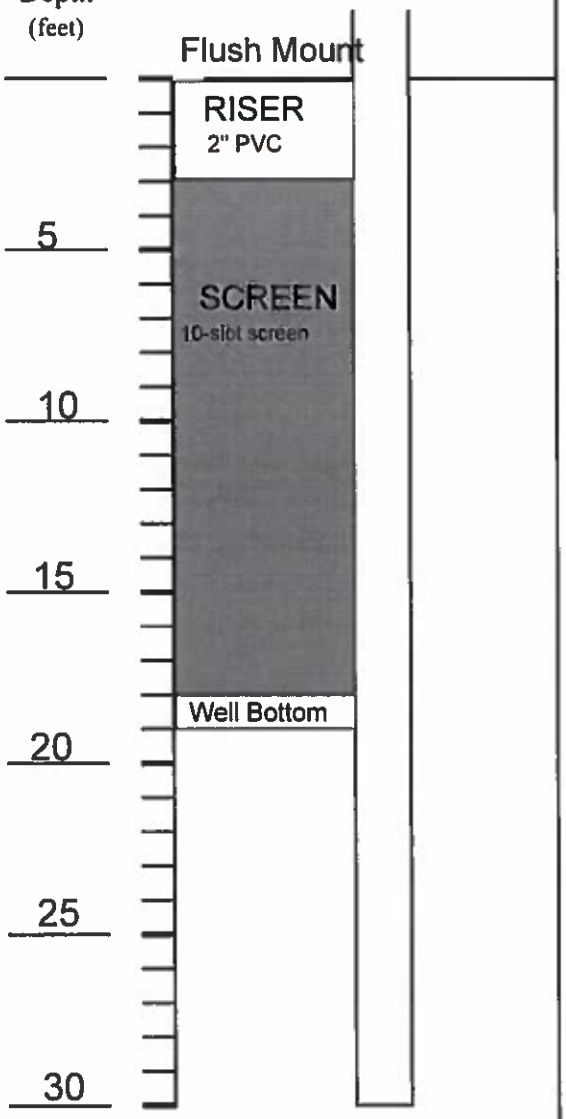
WELL DECOMMISSIONING RECORD

Site Name: Queens West Development Parcel 9	Well I.D.: MW-12R
Site Location: Queens, New York	Driller: CTS
Drilling Co.: Zebra Technical Services, LLC	Inspector: Denise Cosenza
	Date: April 5, 2016

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-19
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	8
Quantity of cement used (lbs.)	94
Cement type	Type I
Quantity of bentonite used (lbs.)	4
Quantity of calcium chloride used (lbs.)	0
Volume of grout prepared (gal.)	12
Volume of grout used (gal.)	4

WELL SCHEMATIC*



COMMENTS: Flush mount removed

* Sketch in all relevant decommissioning data, including interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

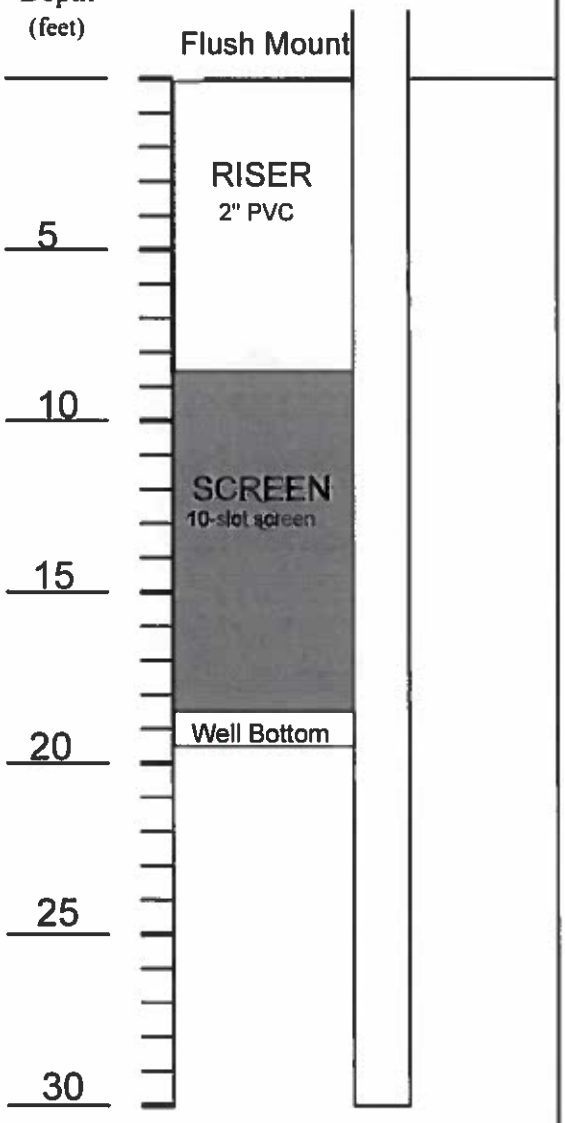
WELL DECOMMISSIONING RECORD

Site Name: Queens West Development Parcel 9	Well I.D.: MW-14
Site Location: Queens, New York	Driller: CTS
Drilling Co.: Zebra Technical Services, LLC	Inspector: Denise Cosenza
	Date: April 5, 2016

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-19.5
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	8
Quantity of cement used (lbs.)	94
Cement type	Type I
Quantity of bentonite used (lbs.)	4
Quantity of calcium chloride used (lbs.)	0
Volume of grout prepared (gal.)	12
Volume of grout used (gal.)	4

WELL SCHEMATIC*



COMMENTS: Flush mount removed

* Sketch in all relevant decommissioning data, including interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

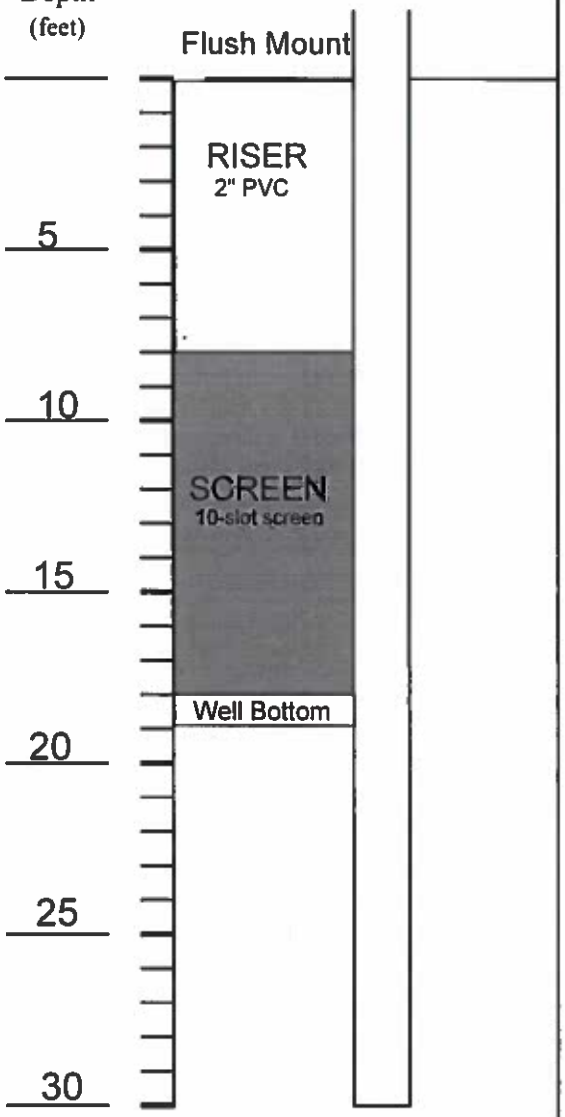
WELL DECOMMISSIONING RECORD

Site Name: Queens West Development Parcel 9	Well I.D.: MW-16
Site Location: Queens, New York	Driller: CTJ
Drilling Co.: Zebra Technical Services, LLC	Inspector: Denise Cosenza
	Date: April 5, 2016

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-19
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	8
Quantity of cement used (lbs.)	94
Cement type	Type I
Quantity of bentonite used (lbs.)	4
Quantity of calcium chloride used (lbs.)	0
Volume of grout prepared (gal.)	12
Volume of grout used (gal.)	4

WELL SCHEMATIC*



COMMENTS: Flush mount removed

* Sketch in all relevant decommissioning data, including interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

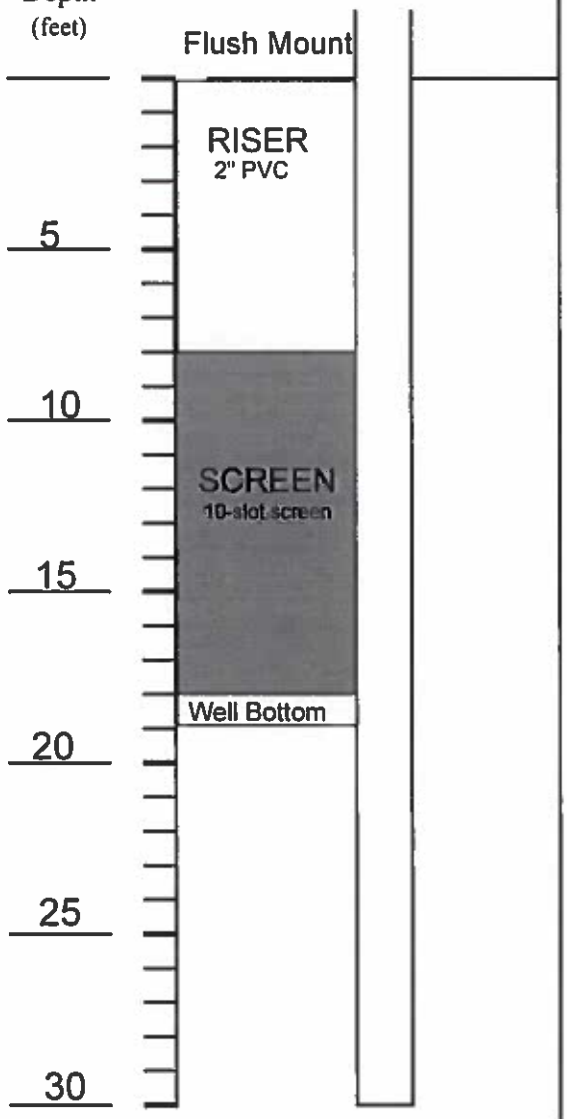
WELL DECOMMISSIONING RECORD

Site Name: Queens West Development Parcel 9	Well I.D.: MW-17
Site Location: Queens, New York	Driller: CTS
Drilling Co.: Zebra Technical Services, LLC	Inspector: Denise Cosenza
	Date: April 5, 2016

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-19
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	8
Quantity of cement used (lbs.)	94
Cement type	type I
Quantity of bentonite used (lbs.)	4
Quantity of calcium chloride used (lbs.)	0
Volume of grout prepared (gal.)	12
Volume of grout used (gal.)	4

WELL SCHEMATIC*



COMMENTS: Flush mt. removed

* Sketch in all relevant decommissioning data, including interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

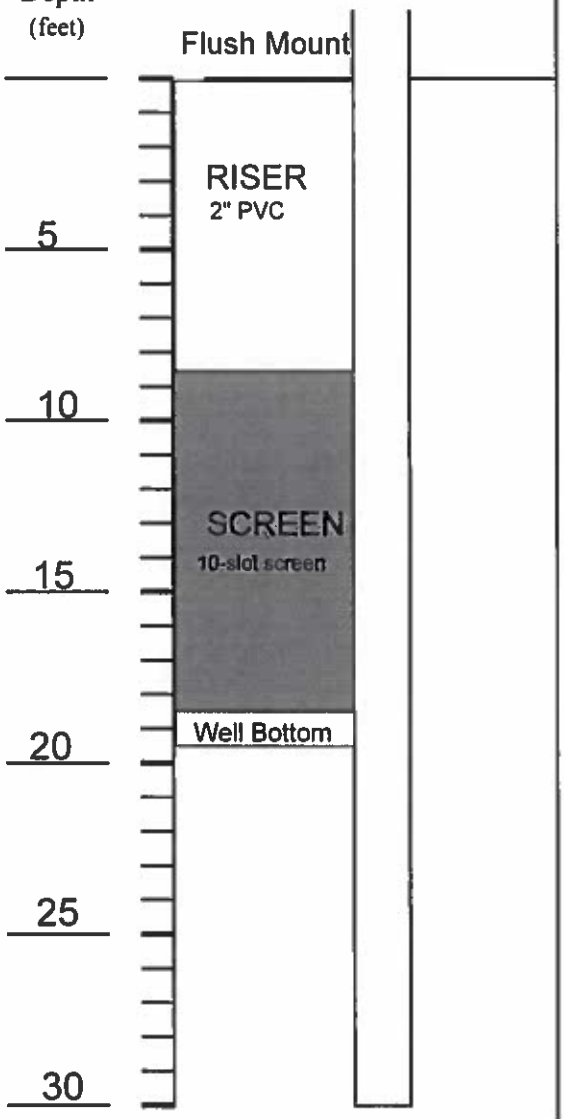
WELL DECOMMISSIONING RECORD

Site Name: Queens West Development Parcel 9	Well I.D.: MW-15
Site Location: Queens, New York	Driller: CTS
Drilling Co.: Zebra Technical Services, LLC	Inspector: Denise Cosenza
	Date: April 6, 2016

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-20
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	8
Quantity of cement used (lbs.)	94
Cement type	type 1
Quantity of bentonite used (lbs.)	4
Quantity of calcium chloride used (lbs.)	0
Volume of grout prepared (gal.)	12
Volume of grout used (gal.)	4

WELL SCHEMATIC*



COMMENTS: Flush mount removed

* Sketch in all relevant decommissioning data, including interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

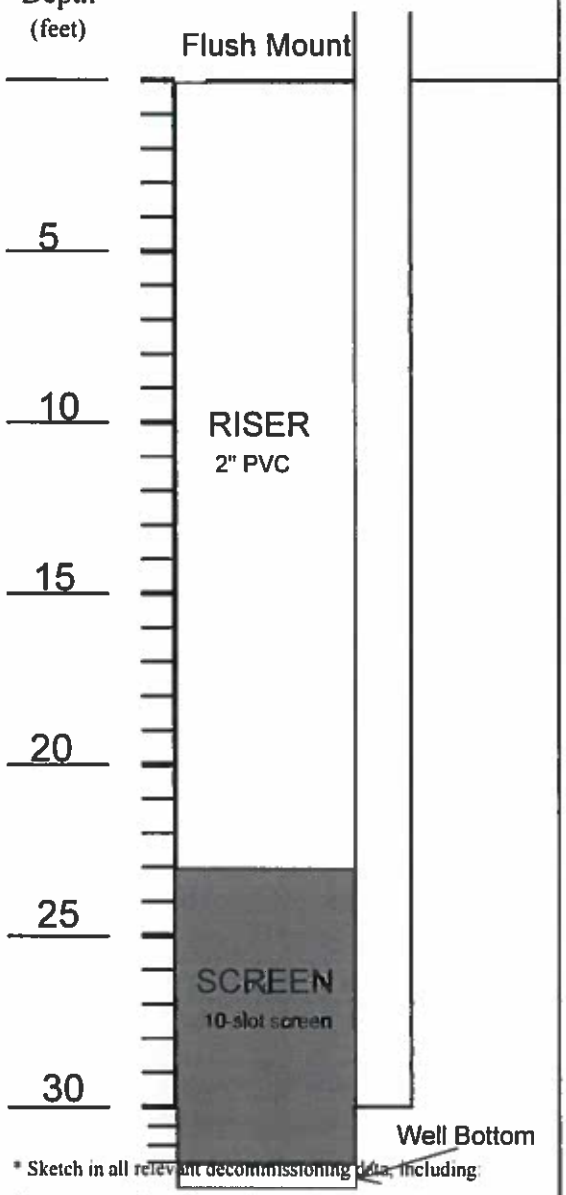
WELL DECOMMISSIONING RECORD

Site Name: Queens West Development Parcel 9	Well I.D.: MW-2
Site Location: Queens, New York	Driller: CTS
Drilling Co.: Zebra Technical Services, LLC	Inspector: Denise Cosenza
	Date: April 6, 2016

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-34
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	8
Quantity of cement used (lbs.)	94
Cement type	Type I
Quantity of bentonite used (lbs.)	4
Quantity of calcium chloride used (lbs.)	0
Volume of grout prepared (gal.)	17
Volume of grout used (gal.)	6

WELL SCHEMATIC*



* Sketch in all relevant decommissioning data, including interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

COMMENTS: Flush mount removed

Drilling Contractor

Department Representative

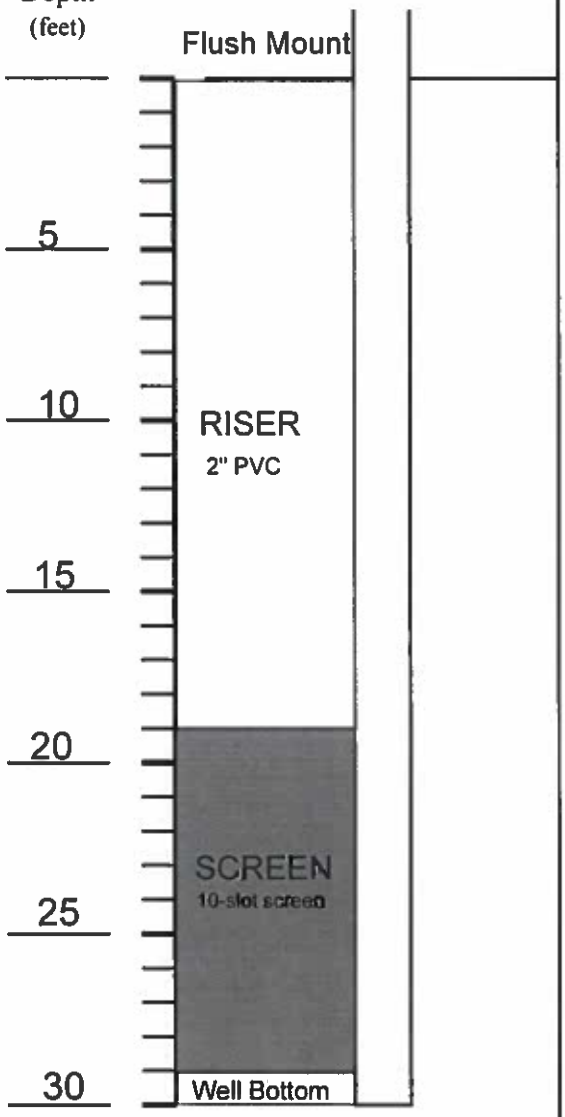
FIGURE 3
WELL DECOMMISSIONING RECORD

Site Name: Queens West Development Parcel 9	Well I.D.: MW-8
Site Location: Queens, New York	Driller: CTS
Drilling Co.: Zebra Technical Services, LLC	Inspector: Denise Cosenza
	Date: April 6, 2016

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0-30
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	8
Quantity of cement used (lbs.)	94
Cement type	Type I
Quantity of bentonite used (lbs.)	4
Quantity of calcium chloride used (lbs.)	0
Volume of grout prepared (gal.)	12
Volume of grout used (gal.)	6

WELL SCHEMATIC*



COMMENTS: Flush mount removed

* Sketch in all relevant decommissioning data, including interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative