ANNUAL SITE MANAGEMENT REPORT
FROM AUGUST 2016 TO SEPTEMBER 2017
MOTT HAVEN CAMPUS-X790
730 CONCOURSE VILLAGE WEST
BRONX, NEW YORK
BCP AGREEMENT # C-203030

PREPARED FOR:

New York City Department of Education
Office of Environmental Health and Safety
44-36 Vernon Blvd.
Long Island City, New York 11101

PREPARED BY:

104 East 25th Street, 10th Floor
New York, New York 10010-2917

Date of Issue: October 20, 2017

ATC Project No. Z214YI0754

TABLE OF CONTENTS

Attachments:

PROJECT DIRECTORY

CLIENT:	New York City Department of Education Office of Environmental Health and Safety 44-36 Vernon Blvd. Long Island City, New York 11101 (718) 361-3808
PROJECT LOCATION:	Mott Haven Campus - X790 730 Concourse Village West Bronx, New York, 10451 (718) 292-2036
PROJECT TECHNICAL SUPPORT:	New York State Department of Environmental Conservation Division of Environmental Remediation, Region 2 47-40 21st Street Long Island City, New York 11101-5407 (718) 482-4891 New York City School Construction Authority 30-30 Thomson Avenue Long Island City, New York 11101 (718) 472-8000 TRC Engineers, Inc. 1430 Broadway New York, NY 10018 (212) 221-7822 STV Incorporated 225 Park Avenue South New York, NY 10003 (212) 777-4400
DESCRIPTION OF WORK:	Review Site Management Plan, O&M plan and prior reports; review custodian's inspection forms, walk-through visual inspection
ATC REPRESENTATIVES:	Gilbert Gedeon, P.E. Husam Zeidan, Inspector

EXECUTIVE SUMMARY

This Site Management Report (SMR) covers the period from September 2016 to September, 2017 for Mott Haven Campus (X790) located at 730 Concourse Village West, Bronx, New York. This report is being submitted in response to the September 13, 2017 New York State Department of Environmental Conservation (NYSDEC) Reminder Notice included under Attachment 1. This SMR includes information based on the most recent annual site refresher training associated with the operation and maintenance of the sub-slab depressurization system (SSDS), vapor barrier and composite cover system, as well as the annual site inspection conducted on September 20 and 21, 2017 a pursuant to the NYSDEC-approved Site Management Plan (SMP).

The annual site inspection included an evaluation of engineering controls identified in the SMP which includes the vapor barrier, SSDS, and cover system established at the site. During this inspection, ATC Group Services, LLC (ATC) observed that the Building Management System (BMS) was connected to all SSDS fans and working properly, except for EF-1 and EF-3. ATC observed the spare fan unit to be located in Room B80.

During the inspection on the SSDS fan units located on the roof, all SSDS fans were observed to be operational, however, the flex joint cloths on SSDS fan units EF-4 and EF-6 were damaged and require replacement. The guide wires on EF-1 and EF-2 were observed to be loose. All vacuum gauges require adjustment or replacement, as necessary.

During the vapor barrier inspection of the lowest floor, ATC observed some hairline cracks in Rooms C19, C20, C20B, C29F, C44, C48, C59, C80J, C84 and.C86. ATC conducted a smoke test and observed no potential vapor barrier leaks through the hairline cracks. Although the surficial cracks observed are not a concern, monitoring during monthly inspections is required for any significant change in the width of the cracks. Significant cracks observed during these monthly inspections will require patching with cement or grout.

In addition, during the inspection of the cover system and exterior, ATC observed that some of the landscaped areas had slightly eroded and in need of vegetative cover or plantation.

Based on the visual inspection, the aforementioned issues are minor in nature and do not impact the effectiveness of the Engineering Controls (ECs) and Institutional Controls (ICs). Therefore, ATC concludes that the ECs and ICs have not changed, are effective, protect public health and the environment, and the remedial goals are being met. See Attachment 1 for the Institutional and Engineering Controls Certification Form.

1.0 INTRODUCTION

On behalf of the NYCDOE Office of Environmental Health and Safety (DOE/EHS), ATC is pleased to provide this SMR to NYSDEC for Mott Haven Campus (X790) located at 730 Concourse Village West in Bronx, New York. The campus opened in September 2010 and is currently attended by approximately 2,003 students.

A one-acre area of the Mott Haven Property was accepted into the Brownfield Cleanup Program (BCP) and underwent remedial action from July 2006 to October 2007. The SMP was generated to ensure operation, maintenance, and effectiveness of the ECs and Environmental Easement (institutional controls). The BCP Area and the remainder of the property are addressed by the SMP.

This report was completed in accordance with the revised SMP approved by the NYSDEC on April 29, 2016.

The scope of work for this report included:

1. Review of the school custodian's monthly inspection logs documenting his routine walk-through to identify any observed changes to the ECs and ICs;
2. Roof-mounted SSDS equipment inspection;
3. Basement inspection and exterior inspection for concrete cracks;
4. Review of SMP, Operations and Maintenance Plan (O&M Plan) and Groundwater Monitoring Reports; and
5. Photographic documentation of observations.

This report was developed to document: (a) the changes to the ECs and ICs if any, and (b) whether the program for maintenance and monitoring is being implemented in accordance with the SMP. Mr. Gilbert Gedeon, P.E. and Mr. Husam Zeidan of ATC, conducted an annual site inspection on September 20 and 21, 2017. During both inspections, ATC was accompanied by Mr. Robert Rivera Jr., the school's Fireman.

2.0 ENGINEERING CONTROLS

According to the SMP prepared by Chicago Bridge & Iron Company (CB&I) (formerly Shaw Environmental & Infrastructure), dated November 2008, the Mott Haven Campus (X790) contains ECs that include a Gas Vapor Barrier and a SSDS constructed beneath the school to prevent residual soil vapors from entering the Mott Haven Campus buildings. In addition, a Composite Surface Cover System consisting of asphalt, concrete, pavers and soil cover was constructed to act as a barrier to prevent direct contact with subsurface soils.

2.1 Vapor Barrier

The vapor barrier was installed beneath the school buildings as a precautionary measure to prevent soil vapors from entering the buildings in the future. The vapor barrier is applied underneath the buildings' ground floor slabs.

2.2 Sub-Slab Depressurization System

A sub-slab depressurization system was installed at the school as an added safeguard to prevent soil vapors from entering the school buildings in the future. The primary components of the SSDS are gas permeable aggregate (GPA) and slotted schedule 80 PVC piping located beneath the school, schedule 40 steel riser piping through building chase spaces from the ground floor slab to the roof, and stainless steel ductwork connecting the steel SSDS piping to the six (6) roof top fans. The SSDS fans are monitored by the Building Management System (BMS) using differential pressure switches mounted near each SSDS fan.

2.3 Composite Cover System

A composite cover system was installed on the school campus and also below the platform of P.S. 156 and I.S. 151 to the north of the property, to prevent school occupants from exposure to the underlying soils. This composite cover system is comprised of school buildings (concrete foundation), asphalt pavement, concrete sidewalks, and the concrete cap below the platforms that support P.S. 156 and I.S. 151, artificial turf on athletic fields, or two feet of clean fill on all exposed ground surfaces.

3.0 INSTITUTIONAL CONTROLS

The ICs at the Site state that the owner of the Property shall:

1. Comply with the Environmental Easement and Declarations of Covenants and Restrictions (DCR) and comply with all elements of the SMP;
2. Operate and maintain all ECs as per the SMP;
3. Inspect, maintain, and certify the integrity of the cover system consisting of concrete building slabs, asphalt pavement, concrete covered sidewalks, and artificial turf athletic field, or two feet of clean fill on all exposed ground surfaces including landscaped areas in the BCP Area and Non-BCP Area A as required by the SMP;
4. Inspect the cover system consisting of a concrete cap on all exposed ground surfaces beneath P.S. 156 and I.S. 151 to prevent human exposure to underlying soils remaining under Non-BCP Area B;
5. Operate, inspect, maintain, and certify the soil vapor mitigation system consisting of a SSDS and vapor barrier under all building structures (BCP Area and Non-BCP Area A) as required;
6. Inspect and certify all ECs at a frequency and in a matter defined in the SMP;
7. Report data and information relevant to Site Management for the Property at the frequency and in a manner defined in the SMP;
8. Protect and replace on-site monitoring devices as necessary to ensure the devices function in the manner specified in the SMP;
9. Refrain from discontinuing the ECs without an amendment or the extinguishment of the Environmental Easement or DCR and approval by NYSDEC and NYSDOH;
10. Prohibit farming and vegetable gardens on the Property;
11. Prohibit the use of groundwater underlying the Property unless treatment is used rendering it safe for its intended purpose;
12. Prohibit all future activities on the Property that will disturb historic urban fill material (Non-BCP Area A and Non BCP Area B) unless conducted as defined in the soil management provisions of the SMP;
13. Use the Property as a school campus provided all long-term ECs and ICs included in the SMP are employed;
14. Prohibit the Property from being used for purposes other than a school without an amendment or the extinguishment of the Environmental Easement and DCR approved in writing by the NYSDEC; and
15. Agree to submit to NYSDEC a written statement that certifies that: (1) controls employed at the Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow. This annual statement must be certified by an expert that the NYSDEC finds acceptable.

4.0 SITE INSPECTIONS AND SSDS REPAIRS

4.1 Document Review

4.1.1 Review of Custodian's Inspection Logs

ATC reviewed the Monthly or Severe Condition Inspection Forms with the custodial staff, which were prepared for the months of September 2016 through September 2017.

During the review, ATC noted the following:

1. The BMS was not connected to all SSDS units except EF-1 and EF-3, even though the fan units were operational;
2. SSDS EF-3 motor was noted to be defective in November 10, 2016 but was replaced on December 7, 2016; and
3. Flex joints associated with SSDS EF-4 and EF-6 was reported to be deteriorated and in need of replacement.

Additionally, the Routine and Preventative Maintenance Checklists were completed for the months of October 2016 and April 2017.

As part of the annual inspection, ATC provided annual refresher training and advised the custodial staff to continue to conduct the inspection on a monthly basis and document the observations in a monthly inspection form. The Monthly Inspection Forms, routine maintenance checklists and Training Acknowledgement are included in Attachments 2, 3, and 6, respectively.

4.2 ATC's Visual Observations

On September 20 and 21, 2017, ATC conducted visual observations and photographic documentation while accompanied by the custodial staff. Site photographs are included Attachment 4 and the Annual Inspection Form is included in Attachment 5. During the inspection, ATC noted the following:

1. All SSDS fans are operational;
2. The BMS is connected to the SSDS and functioning properly except for EF-1 and EF-3; and
3. A spare fan unit labeled EF-7 is available at the school and is located in Room B80.

4.2.1 Roof Vent SSDS Inspection

1. The SSDS blowers and stacks are located on the roof of Buildings A, B, C, and D as follows:
    - ***Buildings A & B*** roofs have two fans each: one fan unit on the main roof and the other unit on top of the mechanical penthouse roof.
    - ***Buildings C & D*** roofs have one fan unit each: on top of the mechanical penthouse roof.
2. All SSDS fan units were operational;
3. All fan belts were aligned and in good condition. The custodial staff has been replacing worn belts on an as-needed basis;

4. The vacuum gauges on all units were in need of adjustment or repair;
5. The flex joint cloths on SSDS fan units EF-4 and EF-6 were observed to be damaged;
6. Guy wires of all SSDS fan units were observed to be tight except for EF-1 and EF-2; and
7. Fan mounting and vibration isolators were intact.

4.2.2 Basement Inspection

ATC inspected the accessible areas of the basement floor and did not observe any significant visible cracks penetrating into the basement floor during the annual inspection. Furthermore, ATC did not observe any floor joints in the basement floor. ATC did observe some hairline cracks in Rooms C19, C20, C20B, C29F, C44, C48, C59, C80J, C84 and C86. As such, smoke testing consistent with Section 3.2.2 of the SMP was conducted. ATC did not observe potential vapor barrier leaks through the hairline cracks. Although the surficial cracks observed are not a concern, monitoring during monthly inspections is required for any significant change in the width of the cracks. Significant cracks observed during these monthly inspections will require patching with cement or grout.

ATC's observation of the basement concrete floors was limited due to architectural finishes such as ceramic floor tiles, vinyl floor tiles, wood flooring and miscellaneous equipment and furniture.

4.2.3 Exterior Inspection

ATC inspected the composite cover system around the perimeter of the Mott Haven Campus including the paved and unpaved areas. There was no evidence of pavement removal. However, there signs of surficial erosion in some of the landscaped areas. No structures have been constructed on the unpaved areas, however a pull-up bar and a sand pit were installed on the landscaped area by the artificial turf. This installation was done under supervision of ATC and in accordance with the SMP. According to the SMP, there was approximately five (5) feet or more of environmental clean fill prior to excavation. After excavation, there remains more than two (2) feet of environmental clean fill soil which is in compliance with the minimum requirements of two (2) feet of clean fill stated in Soil Management Plan Section 3.1 within the SMP. The area was then reseeded with grass after completion of the installation.

ATC did not observe any other visible cracks in the exterior paved areas or sidewalks during the annual inspection. ATC also inspected the artificial turf and observed no apparent holes, cracks or deterioration. ATC concludes that the composite cover system is intact and provides a barrier from direct contact with underlying soils.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on visual observations, ATC concludes the following:

1. The BMS is operational and properly monitors all SSDS fan units except EF-1 and EF-3;
2. The flex joint cloths on SSDS fan units EF-4 and EF-6 were observed to be damaged;
3. The guide wires on EF-1 and EF-2 were observed to be loose.
4. All vacuum gauges did not indicate a zero flow reading when the units were turned off.
5. Hairline cracks were observed in Rooms C19, C20, C20B, C29F, C44, C48, C59, C80J, C84 and.C86. As such, smoke testing consistent with Section 3.2.2 of the SMP was conducted. ATC did not observe potential vapor barrier leaks through the hairline cracks;
6. The ICs and ECs are in place, remain effective and the remedial goals have been met;
7. The O&M Plan is being implemented;
8. No changes have occurred that would reduce the ability of the controls to protect public health and the environment;
9. Access is available to the Site by NYSDEC and NYSDOH to evaluate continued maintenance of such controls; and
10. Site usage is compliant with the environmental easement.

Based on document review and visual observations, ATC recommends the following:

1. Correct the BMS to monitor EF-1 and EF-3;
2. Replace the damaged flex joint cloths on SSDS fan units EF-4 and EF-6;
3. Tighten the guy wires on EF-1 and EF-2;
4. Adjust or replace all vacuum gauges, as necessary;
5. Although, the surficial cracks observed in Rooms C19, C20, C20B, C29F, C44, C48, C59, C80J, C84 and C86 are not a concern, monitoring during monthly inspections is required for any significant change in the width of the cracks. Significant cracks observed during these monthly inspections will require patching with cement or grout;
6. Continue documenting all operation and maintenance activities on ECs;
7. Continue to conduct monthly and routine/preventative maintenance inspections and record observations in the Monthly and Routine and Preventative Maintenance logs; and
8. Continue to replace any worn fan belts and conduct preventative maintenance on the SSDS fan units as needed.

6.0 STANDARDS OF CARE

ATC's work was performed in a professional manner with the best interest of our client in mind. Our objective was to perform our work with care, exercising the customary skills and competence of consulting professionals in the relevant disciplines. The conclusions presented in this report are professional opinions based upon visual observations, site documents review and real-time environmental measurements. The conclusions expressed in this report reflect only the limited inspections of specific locations. The opinions and recommendations presented herein apply to site conditions existing at the time of our observations. ATC cannot act as insurers, and no expressed or implied representation or warrant is included or intended in our report except that our work was performed, within the limits prescribed by our clients, with the customary thoroughness and competence of our profession at the time and place the services were rendered.

It is our pleasure to provide our consultative services to the NYCDOE. If you have any questions about this report, please call (212) 353-8280.

Sincerely,
ATC GROUP SERVICES, LLC

Gilbert Gedeon, P.E.
Principal Engineer

cc: B. Orlan
Y. Efstathiou
N. Guevara

Attachment 1
Institutional and Engineering Controls Certification Form

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation
625 Broadway, 11th Floor, Albany, NY 12233-7020
P: (518)402-9543 | F: (518)402-9547
www.dec.ny.gov

9/13/2017

Bernie Orlan
Director, Ehs
NEW YORK CITY DEPT OF EDUCATION
44-36 VERNON BLVD
3RD FLOOR
Long Island City, NY 11101

Re: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal
Site Name: Former Metro North Property
Site No.: C203030
Site Address: 730 Concourse Village West
New York, NY 10451

Dear Bernie Orlan:

This letter serves as a reminder that sites in active Site Management (SM) require the submittal of a periodic progress report. This report, referred to as the Periodic Review Report (PRR), must document the implementation of, and compliance with, site specific SM requirements. Section 6.3(b) of DER-10 *Technical Guidance for Site Investigation and Remediation* (available online at http://www.dec.ny.gov/regulations/67386.html) provides guidance regarding the information that must be included in the PRR. Further, if the site is comprised of multiple parcels, then you as the Certifying Party must arrange to submit one PRR for all parcels that comprise the site. The PRR must be received by the Department no later than **August 30, 2017**. Guidance on the content of a PRR is enclosed.

Site Management is defined in regulation (6 NYCRR 375-1.2(at)) and in Chapter 6 of DER-10. Depending on when the remedial program for your site was completed, SM may be governed by multiple documents (e.g., Operation, Maintenance, and Monitoring Plan; Soil Management Plan) or one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional controls and/or engineering controls ("IC/EC Plan"); a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"); and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), include the enclosed forms documenting that all SM requirements are being met. The Institutional Controls (ICs) portion of the form (Box 6) must be signed by you or your designated representative. The Engineering Controls (ECs) portion of the form (Box 7) must be signed by a Professional Engineer (PE). If you cannot certify that all SM requirements are being met, you must submit a Corrective Measures Work Plan that identifies the actions to be taken to restore compliance. The work plan must include a schedule to be approved by the Department. The Periodic Review process will not be considered complete until all necessary corrective measures are completed and all required controls are certified. Instructions for completing the certifications are enclosed.

All site-related documents and data, including the PRR, are to be submitted in electronic format to the Department of Environmental Conservation. The Department will not approve the PRR unless all documents and data generated in support of that report have been submitted in accordance with the electronic submissions protocol. In addition, the certification forms are required to be submitted in both paper and electronic formats.

Information on the format of the data submissions can be found at:
http://www.dec.ny.gov/regulations/2586.html

The signed certification forms should be sent to Sondra Martinkat, Project Manager, at the following address:

New York State Department of Environmental Conservation
One Hunters Point Plaza
47-40 21st Street
Long Island City, NY 11101

Phone number: 718-482-4891. E-mail: sondra.martinkat@dec.ny.gov

The contact information above is also provided so that you may notify the project manager about upcoming inspections, or for any other questions or concerns that may arise in regard to the site.

Enclosures

PRR General Guidance
Certification Form Instructions
Certification Forms

cc: w/ enclosures

New York City Dept. Of Education

ec: w/ enclosures
Sondra Martinkat, Project Manager
Jane O'Connell, Section Chief
Jane O'Connell, Hazardous Waste Remediation Engineer, Region 2

Enclosure 1

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional Controls/ Engineering Controls (IC/ECs)(Boxes 3, 4, and 5)

1.1.1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7)**:**

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.

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. **C203030**

Site Name Former Metro North Property

Site Address: 730 Concourse Village West Zip Code: 10451
City/Town: New York
County: Bronx
Site Acreage: 0.9

Reporting Period: July 31, 2016 to July 31, 2017
August 2, 2016 to September 20, 2017

	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. C203030

Box 3

Description of Institutional Controls

Parcel	Owner	Institutional Control
9-2443-78 P/O	New York City Dept. of Education	Ground Water Use Restriction Soil Management Plan Landuse Restriction Building Use Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan

ICs:
Compliance with the Environmental Easement and DCR.
All ECs must be operated and maintained as specified in SMP
Cover systems inspection, certification, and maintenance.
Soil Vapor Mitigation system consisting of vapor Barrier and SSDS must be inspected, certified, and maintained as required in SMP. All ECs must be inspected and certified at frequency specified in SMP. Groundwater monitoring must be performed as specified in SMP. Groundwater monitoring wells must be protected and replaced as necessary to ensure compliance with SMP. ECs may not be discontinued or amended without concurrence from NYSDEC and NYSDOH. Vegetable gardens and farming at the property i prohibited. The use of groundwater property is prohibited. All activities disturbing urban fill materials are prohibited. Controlled property can only be used as a school provided long term ICs and ECs are employed as specified in SMP.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
9-2443-78 P/O	Vapor Mitigation Groundwater Containment Subsurface Barriers Fencing/Access Control

ECs:
Cover Systems
Vapor Barrier
Jet Grout Hydraulic Barrier
Waterloo Hydraulic Barrier
SSDS

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. C203030

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 BERNARD P ORLOW at 44-36 Vernon Blvd, LIC 11101
print name print business address

am certifying as OWNER (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

9/28/17
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer 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 ATC Group Services, 104 E. 25th St, NY, NY (print business address)

am certifying as a Professional Engineer for the NYC. Dept. of Education (Owner or Remedial Party)

STATE OF NEW YORK
GILBERT GEDEON
075399
LICENSED PROFESSIONAL ENGINEER

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

Stamp (Required for PE)

9/28/17
Date

Enclosure 3
Periodic Review Report (PRR) General Guidance

I. Executive Summary: (1/2-page or less)
   A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
   B. Effectiveness of the Remedial Program - Provide overall conclusions regarding;
      1. progress made during the reporting period toward meeting the remedial objectives for the site
      2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
   C. Compliance
      1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
      2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
   D. Recommendations
      1. recommend whether any changes to the SMP are needed
      2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
      3. recommend whether the requirements for discontinuing site management have been met.

II. Site Overview (one page or less)
   A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
   B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.

III. Evaluate Remedy Performance, Effectiveness, and Protectiveness
   Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.

IV. IC/EC Plan Compliance Report (if applicable)
   A. IC/EC Requirements and Compliance
      1. Describe each control, its objective, and how performance of the control is evaluated.
      2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
      3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
      4. Conclusions and recommendations for changes.
   B. IC/EC Certification
      1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).

V. Monitoring Plan Compliance Report (if applicable)
   A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
   B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
   C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
   D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
   E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.

VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
   A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
   B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.
   C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated

the ability of each component of the remedy subject to O&M requirements to perform as designed/expected.

D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.

E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
   1. whether all requirements of each plan were met during the reporting period
   2. any requirements not met
   3. proposed plans and a schedule for coming into full compliance.

B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.

C. Future PRR Submittals
   1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
   2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.

Attachment 2
Custodian Monthly or Severe Condition Inspection Forms

Monthly/Severe Condition Inspection Form
Mott Haven Campus
730 Concourse Village West, Bronx, New York 10451

Inspector's Name: Robert Riveva Jr
Inspection Date: 9/2/16
Inspection Time: 9:00 am
Comments:

Weather Conditions: Partly Cloudy
Air Temperature (°F): 66° High 86° Low 70°

A. SSDS SYSTEM INSPECTION

1. Walk the entire roof surface of the school buildings.

* Inspect fan stack guy wires. Yes all fan stack guy wires are in good condition
* Inspect fan mounting and vibration isolators. Yes
* Inspect condition of fan belt. Yes all fan belts are in good condition
* Inspect alignment of fan belt. Yes all fan belts are properly align
* Record vacuum gauge reading. EF-1: -8 inches of water EF-2: -5 inches of water
  EF-3: -5 inches of water EF-4: -5 inches of water
  EF-5: -5 inches of water EF-6: -5 inches of water
* Inspect bolts and set screws for tightness and rusty condition. Yes all bolts & set screw are good
* Inspect for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing. Yes
* Is the Building Management System monitoring the SSDS fans and functioning properly? (Y/N) Yes SSO
* Confirm that a spare fan is stored in a designated secure location and in working condition. Yes
* Confirm that the spare fan's bearings are completely filled with grease/lubricant. Yes
* Rotate the fan wheel of the spare fan several times to ensure that bearings remain lubricated. Yes
* Comments (See or hear anything unusual?): No

B. COVER SYSTEM – BOTTOM FLOOR INSPECTION

1. Walk all of the bottom floors.

* Any visible cracks or depressions in the ground floors? (Y/N) No
* Any other visible openings (unintended) in the ground floors? (Y/N) No
* Draw approximate location of floor cracks/openings on the site map. N/A
* Note the length of the crack/opening. N/A
* Note the width of the crack/opening. N/A
* Comments: all ok

C. COVER SYSTEM – EXTERIOR INSPECTION

1. **Walk and inspect the entire perimeter of the Site.**
2. **Walk and inspect all of the paved areas (concrete and asphalt) of the Site and under platform.**
3. **Walk and inspect all of the unpaved areas of the Site including artificial turf field.**

* Are there any signs of significant cracks, settlement, or deterioration of the paved areas? (Y/N) No
* Has any of the pavement material been removed? (Y/N) No
* Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)? (Y/N) No
* Have any structures been constructed on the unpaved areas? (Y/N) No

* Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)? (Y/N) No
* Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)? (Y/N) No
* Comments: all is ok

D. REPAIRS

* Summarize needed/ completed repairs to the Engineering Controls None

Inspector's Signature: Matt Livesay

Monthly/Severe Condition Inspection Form
Mott Haven Campus
730 Concourse Village West, Bronx, New York 10451

Inspector's Name: Robert Rivera JR
Inspection Date: ~~10/8/16~~ 10/8/16
Inspection Time: 10:00am
Comments:

Weather Conditions: Partly Cloudy
Air Temperature (°F): 66

A. SSDS SYSTEM INSPECTION

1. Walk the entire roof surface of the school buildings.

* Inspect fan stack guy wires. All Stack Wires in Good Condition
* Inspect fan mounting and vibration isolators. In Good condition
* Inspect condition of fan belt. All fan belts are in good condition
* Inspect alignment of fan belt. All fan belts are Properly alignment
* Record vacuum gauge reading. EF-1: -8 inches of water EF-2: -4 inches of water
  EF-3: -4.7 inches of water EF-4: -5.2 inches of water
  EF-5: -5 inches of water EF-6: -5 inches of water
* Inspect bolts and set screws for tightness and rusty condition. All bolts & screw are properly tighten in good condition
* Inspect for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing. OK
* Is the Building Management System monitoring the SSDS fans and functioning properly? (Y/N) Yes
* Confirm that a spare fan is stored in a designated secure location and in working condition. Yes
* Confirm that the spare fan's bearings are completely filled with grease/lubricant. Yes
* Rotate the fan wheel of the spare fan several times to ensure that bearings remain lubricated. OK
* Comments (See or hear anything unusual?): NO

B. COVER SYSTEM – BOTTOM FLOOR INSPECTION

1. Walk all of the bottom floors.

* Any visible cracks or depressions in the ground floors? (Y/N) NO
* Any other visible openings (unintended) in the ground floors? (Y/N) NO
* Draw approximate location of floor cracks/openings on the site map. N/A
* Note the length of the crack/opening. N/A
* Note the width of the crack/opening. N/A
* Comments: Everything OK

C. COVER SYSTEM – EXTERIOR INSPECTION

1. **Walk and inspect the entire perimeter of the Site.**
2. **Walk and inspect all of the paved areas (concrete and asphalt) of the Site and under platform.**
3. **Walk and inspect all of the unpaved areas of the Site including artificial turf field.**

* Are there any signs of significant cracks, settlement, or deterioration of the paved areas? (Y/N) NO
* Has any of the pavement material been removed? (Y/N) No
* Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)? (Y/N) NO
* Have any structures been constructed on the unpaved areas? (Y/N) NO

* Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)? (Y/N) No
* Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)? (Y/N) No
* Comments: Everything is ok

D. REPAIRS

* Summarize needed/ completed repairs to the Engineering Controls : No repairs needed for the month of October 2016

Inspector's Signature: Mert Xurcazi

Monthly/Severe Condition Inspection Form
Mott Haven Campus
730 Concourse Village West, Bronx, New York 10451

Inspector's Name: Robert Rivera Jr
Inspection Date: 11/10/16
Inspection Time: 10:00 am
Comments:

Weather Conditions: Sunny
Air Temperature (°F): 59°

A. SSDS SYSTEM INSPECTION

1. Walk the entire roof surface of the school buildings.

* Inspect fan stack guy wires. Yes all fan stack wires are properly tightened in Good condition
* Inspect fan mounting and vibration isolators. Yes in good condition
* Inspect condition of fan belt. Yes all fan belts are in Good Condition
* Inspect alignment of fan belt. Yes all fan belts
* Record vacuum gauge reading. EF-1: -8 inches of water ✓ EF-2: -4 inches of water ✓
  EF-3: - unit is down EF-4: - 5.2 inches of water ✓
  EF-5: -5 inches of water ✓ EF-6: -5 inches of water ✓
* Inspect bolts and set screws for tightness and rusty condition. Yes all bolts & screws are in good condition
* Inspect for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing. Yes
* Is the Building Management System monitoring the SSDS fans and functioning properly? (Y/N) Yes
* Confirm that a spare fan is stored in a designated secure location and in working condition. Yes
* Confirm that the spare fan's bearings are completely filled with grease/lubricant. Yes
* Rotate the fan wheel of the spare fan several times to ensure that bearings remain lubricated. Yes
* Comments (See or hear anything unusual?): Everything is ok.

B. COVER SYSTEM – BOTTOM FLOOR INSPECTION

1. Walk all of the bottom floors.

* Any visible cracks or depressions in the ground floors? (Y/N) NO
* Any other visible openings (unintended) in the ground floors? (Y/N) NO
* Draw approximate location of floor cracks/openings on the site map. N/A
* Note the length of the crack/opening. N/A
* Note the width of the crack/opening. N/A
* Comments: Everything is OK in Good Condition ~~N/A~~

C. COVER SYSTEM – EXTERIOR INSPECTION

1. **Walk and inspect the entire perimeter of the Site.**
2. **Walk and inspect all of the paved areas (concrete and asphalt) of the Site and under platform.**
3. **Walk and inspect all of the unpaved areas of the Site including artificial turf field.**

* Are there any signs of significant cracks, settlement, or deterioration of the paved areas? (Y/N) NO
* Has any of the pavement material been removed? (Y/N) NO
* Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)? (Y/N) NO
* Have any structures been constructed on the unpaved areas? (Y/N) NO

* Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)? (Y/N) No
* Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)? (Y/N) NO.
* Comments:

D. REPAIRS

* Summarize needed/ completed repairs to the Engineering Controls
Yes SSDS-3 Roof top of Building C motor is defective & need Replacement. Notify Nancy Guevara from ATC & DSF.

Inspector's Signature: [signature]

Monthly/Severe Condition Inspection Form
Mott Haven Campus
730 Concourse Village West, Bronx, New York 10451

Inspector's Name: Robert Rivera Sr
Inspection Date: 12/15/16
Inspection Time: 10:00am
Comments:

Weather Conditions: Cloudy
Air Temperature (°F): 46°

A. SSDS SYSTEM INSPECTION

1. Walk the entire roof surface of the school buildings.

* Inspect fan stack guy wires. Yes inspect fan stack guy wires all are in good condition
* Inspect fan mounting and vibration isolators. Yes all are in good condition
* Inspect condition of fan belt. Yes All fan belts are in Good Condition
* Inspect alignment of fan belt. Yes all fan belts are align properly
* Record vacuum gauge reading. EF-1: -8 inches of water EF-2: -5.0 inches of water
  EF-3: -5 inches of water EF-4: -5.2 inches of water
  EF-5: -5.0 inches of water EF-6: -5.0 inches of water
* Inspect bolts and set screws for tightness and rusty condition. All screws & Bolts are in good condition
* Inspect for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing. Yes
* Is the Building Management System monitoring the SSDS fans and functioning properly? (Y/N) Yes
* Confirm that a spare fan is stored in a designated secure location and in working condition. Yes B80
* Confirm that the spare fan's bearings are completely filled with grease/lubricant. Yes
* Rotate the fan wheel of the spare fan several times to ensure that bearings remain lubricated. Yes
* Comments (See or hear anything unusual?): Everything is ok.

B. COVER SYSTEM – BOTTOM FLOOR INSPECTION

1. Walk all of the bottom floors.

* Any visible cracks or depressions in the ground floors? (Y/N) NO
* Any other visible openings (unintended) in the ground floors? (Y/N) NO
* Draw approximate location of floor cracks/openings on the site map. N/A
* Note the length of the crack/opening. N/A
* Note the width of the crack/opening. N/A
* Comments: Everything ok

C. COVER SYSTEM – EXTERIOR INSPECTION

1. **Walk and inspect the entire perimeter of the Site.**
2. **Walk and inspect all of the paved areas (concrete and asphalt) of the Site and under platform.**
3. **Walk and inspect all of the unpaved areas of the Site including artificial turf field.**

* Are there any signs of significant cracks, settlement, or deterioration of the paved areas? (Y/N) NO
* Has any of the pavement material been removed? (Y/N) NO
* Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)? (Y/N) NO
* Have any structures been constructed on the unpaved areas? (Y/N) NO

* Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)? (Y/N) NO
* Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)? (Y/N) NO
* Comments: Everything is OK

D. REPAIRS

* Summarize needed/ completed repairs to the Engineering Controls: SSDS-3 motor was replaced back on 12/7/16 by contractor S&W. Unit is back up & running.

Inspector's Signature: Robert Liverazi

Monthly/Severe Condition Inspection Form
Mott Haven Campus
730 Concourse Village West, Bronx, New York 10451

Inspector's Name: Robert Rivera Jr
Inspection Date: 1-19-2017
Inspection Time: 10:02 am
Comments:

Weather Conditions: Cloudy
Air Temperature (°F): 46

A. SSDS SYSTEM INSPECTION

1. Walk the entire roof surface of the school buildings.

* Inspect fan stack guy wires. Yes inspect Fan stack guy wires all are in good condition
* Inspect fan mounting and vibration isolators. Yes all are in good condition
* Inspect condition of fan belt. Yes all Fan belts are in good condition
* Inspect alignment of fan belt. Yes all Fan belts are align properly
* Record vacuum gauge reading. EF-1: -6 inches of water EF-2: -4 inches of water ✓
  EF-3: -3.5 inches of water EF-4: -1 inches of water ✓
  EF-5: -5 inches of water EF-6: -5.5 inches of water ✓
* Inspect bolts and set screws for tightness and rusty condition. Yes
* Inspect for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing. Yes
* Is the Building Management System monitoring the SSDS fans and functioning properly? (Y/N) Yes
* Confirm that a spare fan is stored in a designated secure location and in working condition. No motor is need
* Confirm that the spare fan's bearings are completely filled with grease/lubricant. Yes
* Rotate the fan wheel of the spare fan several times to ensure that bearings remain lubricated. Yes
* Comments (See or hear anything unusual?): ~~No~~ Everything ok

B. COVER SYSTEM – BOTTOM FLOOR INSPECTION

1. Walk all of the bottom floors.

* Any visible cracks or depressions in the ground floors? (Y/N) NO
* Any other visible openings (unintended) in the ground floors? (Y/N) NO
* Draw approximate location of floor cracks/openings on the site map. N/A
* Note the length of the crack/opening. N/A
* Note the width of the crack/opening. N/A
* Comments: Everything ok

C. COVER SYSTEM – EXTERIOR INSPECTION

1. **Walk and inspect the entire perimeter of the Site.**
2. **Walk and inspect all of the paved areas (concrete and asphalt) of the Site and under platform.**
3. **Walk and inspect all of the unpaved areas of the Site including artificial turf field.**

* Are there any signs of significant cracks, settlement, or deterioration of the paved areas? (Y/N) NO
* Has any of the pavement material been removed? (Y/N) NO
* Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)? (Y/N) NO
* Have any structures been constructed on the unpaved areas? (Y/N) NO

* Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)? (Y/N) No
* Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)? (Y/N) No.
* Comments: N/A

D. REPAIRS

* Summarize needed/ completed repairs to the Engineering Controls
No repairs needed All SSDS are in operation

Inspector's Signature: Robert Lucas Jr

Monthly/Severe Condition Inspection Form
Mott Haven Campus
730 Concourse Village West, Bronx, New York 10451

Inspector's Name: Robert Rivera JR
Inspection Date: 2-22-17
Inspection Time: 11.00 a m
Comments:

Weather Conditions: Mostly Cloudy
Air Temperature (°F): 55°

A. SSDS SYSTEM INSPECTION

1. Walk the entire roof surface of the school buildings.

* Inspect fan stack guy wires. Yes inspect fan stack guy wires all are in good condition
* Inspect fan mounting and vibration isolators. Yes all are in good condition
* Inspect condition of fan belt. Yes all fan belts are in good condition
* Inspect alignment of fan belt. Yes all fan
* Record vacuum gauge reading. EF-1: -9 inches of water ✓ EF-2: -4 inches of water ✓
  EF-3: -3.5 inches of water ✓ EF-4: -7 inches of water ✓
  EF-5: -5 inches of water ✓ EF-6: -5.5 inches of water ✓
* Inspect bolts and set screws for tightness and rusty condition. Yes
* Inspect for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing. Yes
* Is the Building Management System monitoring the SSDS fans and functioning properly? (Y/N) Yes
* Confirm that a spare fan is stored in a designated secure location and in working condition. NO Motor is needed
* Confirm that the spare fan's bearings are completely filled with grease/lubricant. Yes
* Rotate the fan wheel of the spare fan several times to ensure that bearings remain lubricated. Yes
* Comments (See or hear anything unusual?): NO

B. COVER SYSTEM – BOTTOM FLOOR INSPECTION

1. Walk all of the bottom floors.

* Any visible cracks or depressions in the ground floors? (Y/N) NO
* Any other visible openings (unintended) in the ground floors? (Y/N) NO
* Draw approximate location of floor cracks/openings on the site map. N/A
* Note the length of the crack/opening. N/A
* Note the width of the crack/opening. N/A
* Comments: Everything OK

C. COVER SYSTEM – EXTERIOR INSPECTION

1. **Walk and inspect the entire perimeter of the Site.**
2. **Walk and inspect all of the paved areas (concrete and asphalt) of the Site and under platform.**
3. **Walk and inspect all of the unpaved areas of the Site including artificial turf field.**

* Are there any signs of significant cracks, settlement, or deterioration of the paved areas? (Y/N) NO
* Has any of the pavement material been removed? (Y/N) NO
* Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)? (Y/N) NO
* Have any structures been constructed on the unpaved areas? (Y/N) NO

* Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)? (Y/N) No
* Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)? (Y/N) No
* Comments: Everything ok

D. REPAIRS

* Summarize needed/ completed repairs to the Engineering Controls No repairs need SSDS Fan's in operation for the Month of Feb 2017

Inspector's Signature: [signature]

Monthly/Severe Condition Inspection Form
Mott Haven Campus
730 Concourse Village West, Bronx, New York 10451

Inspector's Name: Robert Rivera Jr
Inspection Date: 3-25-2017
Inspection Time: 11:00 am
Comments:

Weather Conditions: Partly cloudy
Air Temperature (°F): 55°

A. SSDS SYSTEM INSPECTION

1. Walk the entire roof surface of the school buildings.

* Inspect fan stack guy wires. Yes all fan stack guy wires are OK properly tighten
* Inspect fan mounting and vibration isolators. Yes all fan mounting and vibration isolators are OK
* Inspect condition of fan belt. Yes all AX25 fan belts are in good condition
* Inspect alignment of fan belt. Yes alignment of fan belts are ok
* Record vacuum gauge reading. EF-1: -10.0 inches of water EF-2: -4.8 inches of water
  EF-3: -4.8 inches of water EF-4: -5.2 inches of water
  EF-5: -4.9 inches of water EF-6: -5.1 inches of water
* Inspect bolts and set screws for tightness and rusty condition. Yes inspected all bolts & set screws all OK
* Inspect for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing. Yes all OK
* Is the Building Management System monitoring the SSDS fans and functioning properly? (Y/N) NO
* Confirm that a spare fan is stored in a designated secure location and in working condition. Yes C80 & B80
* Confirm that the spare fan's bearings are completely filled with grease/lubricant. Yes
* Rotate the fan wheel of the spare fan several times to ensure that bearings remain lubricated. Yes
* Comments (See or hear anything unusual?): No Everything ok.

B. COVER SYSTEM – BOTTOM FLOOR INSPECTION

1. Walk all of the bottom floors.

* Any visible cracks or depressions in the ground floors? (Y/N) NO
* Any other visible openings (unintended) in the ground floors? (Y/N) NO
* Draw approximate location of floor cracks/openings on the site map. N/A
* Note the length of the crack/opening. N/A
* Note the width of the crack/opening. N/A
* Comments: Visial inspection Everything OK

C. COVER SYSTEM – EXTERIOR INSPECTION

1. **Walk and inspect the entire perimeter of the Site.**
2. **Walk and inspect all of the paved areas (concrete and asphalt) of the Site and under platform.**
3. **Walk and inspect all of the unpaved areas of the Site including artificial turf field.**

* Are there any signs of significant cracks, settlement, or deterioration of the paved areas? (Y/N) NO
* Has any of the pavement material been removed? (Y/N) NO
* Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)? (Y/N) NO
* Have any structures been constructed on the unpaved areas? (Y/N) NO

* Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)? (Y/N) NO
* Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)? (Y/N) NO.
* Comments:

D. REPAIRS

* Summarize needed/ completed repairs to the Engineering Controls

Need to replace flex Vapor Cloth for SSDS 2 BLDG B Roof top. BM's Monitor need service Graphics not reading SSDS status.

Inspector's Signature: Albert Rivera Jr

Monthly/Severe Condition Inspection Form
Mott Haven Campus
730 Concourse Village West, Bronx, New York 10451

Inspector's Name: Robert Rivera Jr
Inspection Date: 4-13-2017
Inspection Time: 10:13 AM
Comments: ALL units are running

Weather Conditions: Partly Cloudy
Air Temperature (°F): 48° High 64° Low 45°

A. SSDS SYSTEM INSPECTION

1. Walk the entire roof surface of the school buildings.

* Inspect fan stack guy wires. Yes all fan stack guy wires are ok properly tighten
* Inspect fan mounting and vibration isolators. Yes all fan mounting and vibration isolators are ok
* Inspect condition of fan belt. Yes all AX25 fan belts are in good condition
* Inspect alignment of fan belt. Yes alignment of fan belts are ok
* Record vacuum gauge reading. EF-1: -10.0 inches of water EF-2: -4.8 inches of water
  EF-3: -4.8 inches of water EF-4: -5.2 inches of water
  EF-5: -5.0 inches of water EF-6: -5.1 inches of water
* Inspect bolts and set screws for tightness and rusty condition. Yes all bolts & set screws are ok
* Inspect for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing. Yes all ok
* Is the Building Management System monitoring the SSDS fans and functioning properly? (Y/N) NO
* Confirm that a spare fan is stored in a designated secure location and in working condition. Yes C50 & B80
* Confirm that the spare fan's bearings are completely filled with grease/lubricant. Yes
* Rotate the fan wheel of the spare fan several times to ensure that bearings remain lubricated. Yes
* Comments (See or hear anything unusual?): No Everything ok

B. COVER SYSTEM – BOTTOM FLOOR INSPECTION

1. Walk all of the bottom floors.

* Any visible cracks or depressions in the ground floors? (Y/N) NO
* Any other visible openings (unintended) in the ground floors? (Y/N) No
* Draw approximate location of floor cracks/openings on the site map. N/A
* Note the length of the crack/opening. N/A
* Note the width of the crack/opening. N/A
* Comments: All OK

C. COVER SYSTEM – EXTERIOR INSPECTION

1. **Walk and inspect the entire perimeter of the Site.**
2. **Walk and inspect all of the paved areas (concrete and asphalt) of the Site and under platform.**
3. **Walk and inspect all of the unpaved areas of the Site including artificial turf field.**

* Are there any signs of significant cracks, settlement, or deterioration of the paved areas? (Y/N) No
* Has any of the pavement material been removed? (Y/N) NO
* Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)? (Y/N) NO
* Have any structures been constructed on the unpaved areas? (Y/N) Yes Pull up bar set & Sandpit

* Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)? (Y/N) N
* Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)? (Y/N)
* Comments: Yes digging & excavating was approved & permitted on field level near scoreboard. A Pull up bar set for fitness & a long jump sand pit was constructed. Husam & Nancy from AFC Supervised project.

D. REPAIRS

* Summarize needed/ completed repairs to the Engineering Controls
BMS is not monitoring SSDS fan status. Cloth need replacement on SSDS 6 on BLDG B Roof Top.

Inspector's Signature: Albert Rivera Jr

Monthly/Severe Condition Inspection Form
Mott Haven Campus
730 Concourse Village West, Bronx, New York 10451

Inspector's Name: Robert Rivera JR
Inspection Date: 5/15/2017
Inspection Time: 10.00am
Comments: Everything OK

Weather Conditions: Partly Cloudy
Air Temperature (°F): 55

A. SSDS SYSTEM INSPECTION

1. Walk the entire roof surface of the school buildings.

* Inspect fan stack guy wires. Yes all fan stack guy wires are ok properly tighten
* Inspect fan mounting and vibration isolators. Yes all fan mounting and vibration isolation are ok.
* Inspect condition of fan belt. Yes all AX25 fan belts are in good condition
* Inspect alignment of fan belt. Yes alignment of fan belt
* Record vacuum gauge reading. EF-1: -10.0 inches of water EF-2: -4.8 inches of work
  EF-3: -4.8 inches of water EF-4: -5.0 inches of work
  EF-5: -5.0 inches of water EF-6: -5.1 inches of work
* Inspect bolts and set screws for tightness and rusty condition. Yes all bolts & set screws are OK
* Inspect for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing. Yes all ok
* Is the Building Management System monitoring the SSDS fans and functioning properly? (Y/N) No
* Confirm that a spare fan is stored in a designated secure location and in working condition. Yes case ok
* Confirm that the spare fan's bearings are completely filled with grease/lubricant. Yes
* Rotate the fan wheel of the spare fan several times to ensure that bearings remain lubricated. Yes
* Comments (See or hear anything unusual?): No Everything ok

B. COVER SYSTEM – BOTTOM FLOOR INSPECTION

1. Walk all of the bottom floors.

* Any visible cracks or depressions in the ground floors? (Y/N) No
* Any other visible openings (unintended) in the ground floors? (Y/N) No
* Draw approximate location of floor cracks/openings on the site map. N/A
* Note the length of the crack/opening. N/A
* Note the width of the crack/opening. N/A
* Comments: All OK

C. COVER SYSTEM – EXTERIOR INSPECTION

1. **Walk and inspect the entire perimeter of the Site.**
2. **Walk and inspect all of the paved areas (concrete and asphalt) of the Site and under platform.**
3. **Walk and inspect all of the unpaved areas of the Site including artificial turf field.**

* Are there any signs of significant cracks, settlement, or deterioration of the paved areas? (Y/N) No
* Has any of the pavement material been removed? (Y/N) No
* Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)? (Y/N) No
* Have any structures been constructed on the unpaved areas? (Y/N) Yes Pull up bar set & sand pit.

* Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)? (Y/N) NO
* Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)? (Y/N)
* Comments: ~~Yes~~ NO work was completed for excavation in April inspection

D. REPAIRS

* Summarize needed/ completed repairs to the Engineering Controls
BMS is not monitoring SSDS for status. Both need replacement on SSDS 6 on BLDG 6 Rooftop

Inspector's Signature: [signature]

Monthly/Severe Condition Inspection Form
Mott Haven Campus
730 Concourse Village West, Bronx, New York 10451

Inspector's Name: Robert Rivera Jr
Inspection Date: 6/26/2017
Inspection Time: 1:00 pm
Comments: Everything OK

Weather Conditions: Sunny
Air Temperature (°F): 79

A. SSDS SYSTEM INSPECTION

1. Walk the entire roof surface of the school buildings.

* Inspect fan stack guy wires. Yes all fan stack guy wires are ok properly tighten
* Inspect fan mounting and vibration isolators. Yes all mounting and vibration isolation are ok
* Inspect condition of fan belt. Yes all AX25 Fan belts are in good condition
* Inspect alignment of fan belt. Yes alignment of fan belt
* Record vacuum gauge reading. EF-1: -10.0 inches of water EF-2: -4.8 inches of water
  EF-3: -4.8 inches of water EF-4: -5.2 inches of water
  EF-5: -4.8 inches of water EF-6: -5.1 inches of water
* Inspect bolts and set screws for tightness and rusty condition. Yes all bolts & set screws are ok
* Inspect for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing. Yes
* Is the Building Management System monitoring the SSDS fans and functioning properly? (Y/N) No
* Confirm that a spare fan is stored in a designated secure location and in working condition. Yes 680 & 880
* Confirm that the spare fan's bearings are completely filled with grease/lubricant. Yes
* Rotate the fan wheel of the spare fan several times to ensure that bearings remain lubricated. Ye
* Comments (See or hear anything unusual?): No Everything OK

B. COVER SYSTEM – BOTTOM FLOOR INSPECTION

1. Walk all of the bottom floors.

* Any visible cracks or depressions in the ground floors? (Y/N) NO
* Any other visible openings (unintended) in the ground floors? (Y/N) NO
* Draw approximate location of floor cracks/openings on the site map. N/A
* Note the length of the crack/opening. N/A
* Note the width of the crack/opening. N/A
* Comments: All OK

C. COVER SYSTEM – EXTERIOR INSPECTION

1. **Walk and inspect the entire perimeter of the Site.**
2. **Walk and inspect all of the paved areas (concrete and asphalt) of the Site and under platform.**
3. **Walk and inspect all of the unpaved areas of the Site including artificial turf field.**

* Are there any signs of significant cracks, settlement, or deterioration of the paved areas? (Y/N) NO
* Has any of the pavement material been removed? (Y/N) NO
* Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)? (Y/N) NO
* Have any structures been constructed on the unpaved areas? (Y/N) NO

* Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)? (Y/N) No
* Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)? (Y/N) No.
* Comments: All is ok

D. REPAIRS

* Summarize needed/ completed repairs to the Engineering Controls

BMS is not monitoring SSDS fan status Cloth need replacement on SSDS 6 on BLDG B Roof top

Inspector's Signature: [signature]

Monthly/Severe Condition Inspection Form
Mott Haven Campus
730 Concourse Village West, Bronx, New York 10451

Inspector's Name: Robert Rivera Jr
Inspection Date: 7-17-2017
Inspection Time: 11:00 am
Comments: Everything OK

Weather Conditions: Mostly Clear
Air Temperature (°F): 85

A. SSDS SYSTEM INSPECTION

1. Walk the entire roof surface of the school buildings.

* Inspect fan stack guy wires. Yes all fan stack guy wires are OK properly tighten
* Inspect fan mounting and vibration isolators. Yes all mounting and vibration isolators are OK
* Inspect condition of fan belt. Yes all AX25 belts are in good condition
* Inspect alignment of fan belt. Yes all belts are properly align
* Record vacuum gauge reading. EF-1: -10.0 inches of water EF-2: -4.8 inches of water
  EF-3: -4.8 inches of water EF-4: -5.2 inches of water
  EF-5: -4.8 inches of water EF-6: -5.1 inches of water
* Inspect bolts and set screws for tightness and rusty condition. Yes all bolts & set screws are OK
* Inspect for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing. Yes
* Is the Building Management System monitoring the SSDS fans and functioning properly? (Y/N) Yes
* Confirm that a spare fan is stored in a designated secure location and in working condition. Yes Cost $80
* Confirm that the spare fan's bearings are completely filled with grease/lubricant. Yes
* Rotate the fan wheel of the spare fan several times to ensure that bearings remain lubricated. Yes
* Comments (See or hear anything unusual?): All OK

B. COVER SYSTEM – BOTTOM FLOOR INSPECTION

1. Walk all of the bottom floors.

* Any visible cracks or depressions in the ground floors? (Y/N) NO
* Any other visible openings (unintended) in the ground floors? (Y/N) NO
* Draw approximate location of floor cracks/openings on the site map. N/A
* Note the length of the crack/opening. N/A
* Note the width of the crack/opening. N/A
* Comments: All OK

C. COVER SYSTEM – EXTERIOR INSPECTION

1. **Walk and inspect the entire perimeter of the Site.**
2. **Walk and inspect all of the paved areas (concrete and asphalt) of the Site and under platform.**
3. **Walk and inspect all of the unpaved areas of the Site including artificial turf field.**

* Are there any signs of significant cracks, settlement, or deterioration of the paved areas? (Y/N) No
* Has any of the pavement material been removed? (Y/N) No
* Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)? (Y/N) No
* Have any structures been constructed on the unpaved areas? (Y/N) No

* Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)? (Y/N) NO
* Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)? (Y/N) NO
* Comments: All OK

D. REPAIRS

* Summarize needed/ completed repairs to the Engineering Controls
BMS was repaired. BMS is monitoring all SSDS Fans.

Inspector's Signature: [signature]

Monthly/Severe Condition Inspection Form
Mott Haven Campus
730 Concourse Village West, Bronx, New York 10451

Inspector's Name: Robert Rivera Jr
Inspection Date: 8/12/17
Inspection Time: 10:00
Comments:

Weather Conditions: Cloudy
Air Temperature (°F): High 82° Low 70°

A. SSDS SYSTEM INSPECTION

1. Walk the entire roof surface of the school buildings.

* Inspect fan stack guy wires. Yes all fan stack guy wires are ok properly tighten
* Inspect fan mounting and vibration isolators. Yes all mounting & vibration isolation are ok
* Inspect condition of fan belt. Yes all AX25 belts are good in condition
* Inspect alignment of fan belt. Yes all belts are properly align
* Record vacuum gauge reading. EF-1: -10.0 inches of water EF-2: -4.8 inches of water
  EF-3: -4.8 inches of water EF-4: -5.2 inches of water
  EF-5: -4.8 inches of water EF-6: -5.1 inches of water
* Inspect bolts and set screws for tightness and rusty condition. Yes all bolts & set screws are ok
* Inspect for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing. Need cleaning
* Is the Building Management System monitoring the SSDS fans and functioning properly? (Y/N) Yes
* Confirm that a spare fan is stored in a designated secure location and in working condition. Yes
* Confirm that the spare fan's bearings are completely filled with grease/lubricant. Yes CB06B80
* Rotate the fan wheel of the spare fan several times to ensure that bearings remain lubricated. Yes
* Comments (See or hear anything unusual?): All ok

B. COVER SYSTEM – BOTTOM FLOOR INSPECTION

1. Walk all of the bottom floors.

* Any visible cracks or depressions in the ground floors? (Y/N) NO
* Any other visible openings (unintended) in the ground floors? (Y/N) NO
* Draw approximate location of floor cracks/openings on the site map. N/A
* Note the length of the crack/opening. N/A
* Note the width of the crack/opening. N/A
* Comments: All ok

C. COVER SYSTEM – EXTERIOR INSPECTION

1. **Walk and inspect the entire perimeter of the Site.**
2. **Walk and inspect all of the paved areas (concrete and asphalt) of the Site and under platform.**
3. **Walk and inspect all of the unpaved areas of the Site including artificial turf field.**

* Are there any signs of significant cracks, settlement, or deterioration of the paved areas? (Y/N) NO
* Has any of the pavement material been removed? (Y/N) NO
* Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)? (Y/N) NO
* Have any structures been constructed on the unpaved areas? (Y/N) NO

* Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)? (Y/N) Yes
* Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)? (Y/N) No
* Comments: Soil erosion near football field bleachers

D. REPAIRS

* Summarize needed/ completed repairs to the Engineering Controls Replace flex joint cloth on EF4-& EF6

Inspector's Signature: [signature]

Monthly/Severe Condition Inspection Form
Mott Haven Campus
730 Concourse Village West, Bronx, New York 10451

Inspector's Name: Robert Rivera Jr
Inspection Date: 9/15/17
Inspection Time: 10:00am
Comments:

Weather Conditions: Sunny
Air Temperature (°F): High 82° Low 69°

A. SSDS SYSTEM INSPECTION

1. Walk the entire roof surface of the school buildings.

* Inspect fan stack guy wires. Yes all fan stack guy wires are ok properly tighten
* Inspect fan mounting and vibration isolators. Yes all mounting & vibration isolations are ok
* Inspect condition of fan belt. Yes all AX25 belts are in good condition.
* Inspect alignment of fan belt. Yes all Fan belts are properly align
* Record vacuum gauge reading. EF-1: -10.0 inches of water EF-2: -4.8 inches of water
  EF-3: -4.5 inches of water EF-4: -5.2 "
  EF-5: -4.8 inches of water EF-6: -5.1 "
* Inspect bolts and set screws for tightness and rusty condition. Yes
* Inspect for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing. Yes
* Is the Building Management System monitoring the SSDS fans and functioning properly? (Y/N) Yes
* Confirm that a spare fan is stored in a designated secure location and in working condition. Yes
* Confirm that the spare fan's bearings are completely filled with grease/lubricant. Yes
* Rotate the fan wheel of the spare fan several times to ensure that bearings remain lubricated. Yes
* Comments (See or hear anything unusual?): NO

B. COVER SYSTEM – BOTTOM FLOOR INSPECTION

1. Walk all of the bottom floors.

* Any visible cracks or depressions in the ground floors? (Y/N) NO
* Any other visible openings (unintended) in the ground floors? (Y/N) NO
* Draw approximate location of floor cracks/openings on the site map. N/A
* Note the length of the crack/opening. N/A
* Note the width of the crack/opening. N/A
* Comments: All is ok

C. COVER SYSTEM – EXTERIOR INSPECTION

1. **Walk and inspect the entire perimeter of the Site.**
2. **Walk and inspect all of the paved areas (concrete and asphalt) of the Site and under platform.**
3. **Walk and inspect all of the unpaved areas of the Site including artificial turf field.**

* Are there any signs of significant cracks, settlement, or deterioration of the paved areas? (Y/N) NO
* Has any of the pavement material been removed? (Y/N) No
* Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)? (Y/N) NO
* Have any structures been constructed on the unpaved areas? (Y/N) NO

* Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)? (Y/N) Yes
* Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)? (Y/N) NO.
* Comments: Foot ball field level near bleachers soil is eroding by bleachers

D. REPAIRS

* Summarize needed/ completed repairs to the Engineering Controls Replace flex Joint Cloth for EF4 - EF6

Inspector's Signature: Sara Rivera JL

Attachment 3
Routine and Preventative Maintenance Checklists

Routine and Preventative Maintenance Checklist

SSDS Fan

Inspector's Name: Robert Rivera Sr

Inspection Date/Time: 10/5/16 10:00 am

Purpose: (circle one) Semiannual Inspection Fan Malfunction (describe)

SSDS Fan Maintenance Checklist

Preform the steps below for every SSDS fan during a biannual inspection, or for any SSDS fan experiencing issues	Completed Y/N	List Any Issues or Unusual Behavior
1. Disconnect, lock out, and tag fan electrical power source	Yes	
2. Check all SSDS fan bearings	Yes	
3. Inspect SSDS fan drive belt for tightness and wear. Adjust/replace if required	Yes	
4. Clean/blow down centrifugal fan wheel, inlet, fan, and motor housing	Yes	
5. Grease fan shaft bearing pillow blocks	Yes	
6. Inspect fan inlet and outlet ductwork flex joints	Yes	
7. Inspect fan stack guy wires	Yes	
8. Inspect fan mounting and vibration isolators	Yes	

*Notify the DOE EHS of any fan unit/component failure. In the event that a fan component fails, the component will be replaced by DOE EHS. DOE EHS will make appropriate arrangements in advance with suppliers to provide SSDS replacement parts within 12 hours notice. In the event that a fan unit fails, the fan unit will be replaced by DOE EHS. A spare fan will be available on-site for immediate replacement in case of fan failure.

Inspector's Signature: Robert Rivera Sr

Routine and Preventative Maintenance Checklist

SSDS Fan

Inspector's Name: Robert Rivera Jr

Inspection Date/Time: 4/13/2017

Purpose: (circle one) (Semiannual Inspection) Fan Malfunction (describe)

SSDS Fan Maintenance Checklist

Preform the steps below for every SSDS fan during a biannual inspection, or for any SSDS fan experiencing issues	Completed Y/N	List Any Issues or Unusual Behavior
1. Disconnect, lock out, and tag fan electrical power source	Yes	
2. Check all SSDS fan bearings	Yes	
3. Inspect SSDS fan drive belt for tightness and wear. Adjust/replace if required	Yes	
4. Clean/blow down centrifugal fan wheel, inlet, fan, and motor housing	Yes	
5. Grease fan shaft bearing pillow blocks	Yes	
6. Inspect fan inlet and outlet ductwork flex joints	Yes	EF-4 EF-6 need replacement
7. Inspect fan stack guy wires	Yes	
8. Inspect fan mounting and vibration isolators	Yes	

*Notify the DOE EHS of any fan unit/component failure. In the event that a fan component fails, the component will be replaced by DOE EHS. DOE EHS will make appropriate arrangements in advance with suppliers to provide SSDS replacement parts within 12 hours notice. In the event that a fan unit fails, the fan unit will be replaced by DOE EHS. A spare fan will be available on-site for immediate replacement in case of fan failure.

Inspector's Signature: Robert Rivera Jr

Attachment 4
Photographic Documentation

Photo 1: View of functional BMS associated with SSDS fan unit EF-1.

Photo 2: View of functional BMS associated with SSDS fan unit EF-3.

Photo 3: View of typical SSDS roof fan unit EF-2.

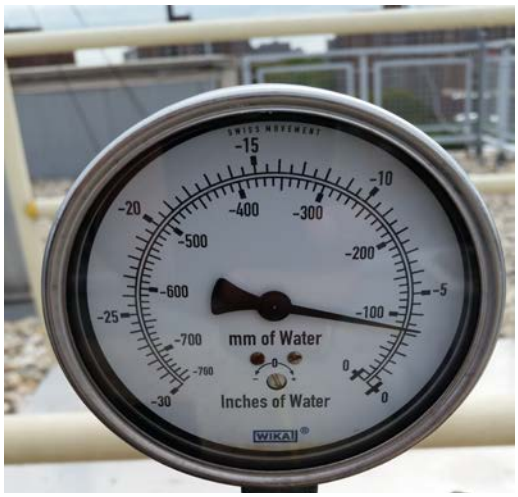

Photo 4: View of typical vacuum gauge associated with SSDS fan unit EF-2.

Photo 5: View of typical motor-fan assembly EF-2.

Photo 6: View of damaged flex joint cloth associated with SSDS fan unit EF-6.

Photo 7: View of spare SSDS fan unit in Room B80.

Photo 8: Typical view of bare concrete floor in Stair F.

Photo 9: View of typical exterior pavement/sidewalk.

Photo 10: View of concrete cap area below P.S. 151X.

Photo 11: View of artificial turf on football field.

Photo 12: View of landscaped areas.

Attachment 5
Annual Inspection Forms

Annual Inspection Form

Mott Haven Campus
730 Concourse Village West, Bronx, New York 10451

Inspector's Name: G. Geyden / M. Zeids	Weather Conditions: Partly Sunny
Inspection Date: 9/20/17	Air Temperature (°F): 75°F
Inspection Time:	
Comments:	

A. PRE-INSPECTION CHECKLIST

* Schedule Annual Inspection when school is not occupied by students.
* Review 12 Previous Monthly Inspection Checklists.
* Meet with Custodian and Principal to solicit comments/concerns regarding the operation of the Engineering Controls over the last 12 months.
* Conduct Annual Refresher SMP Training with DOE, DSF.
* Comments: None

B. SSDS SYSTEM INSPECTION

1. Walk the entire roof surface of school buildings.

* Inspect fan stack guide wires. loose on EF-1 & EF-2
* Inspect fan mounting and vibration isolators.
* Inspect condition of fan belt.
* Inspect alignment of fan belt.
* Record vacuum gauge reading. 1: -10", 2: -4", 3: -3", 4: -5", 5: -5", 6: -7"
* Inspect bolts and set screws for tightness and rusty condition.
* Verify spare fan is available, properly lubricated, and properly stored. Spare in Room B80
* Verify spare fan parts (i.e. drive belts) are available and in good condition.
* Inspect for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing,
* Are the indicator lights on the Building Management System functioning properly? NO, EF-1 & EF-3 doesn't alarm
* Comments (see or hear anything unusual?): flex joints for EF-4 & EF-6 need replacement; ~~loose~~ EF-1, EF-2, EF-4, EF-5 & EF-6 need vacuum gauge adjustment

C. COVER SYSTEM - BOTTOM FLOOR INSPECTION

1. Walk all of the bottom floors

* Any visible cracks or settlement in the ground floors? No
* Any other visible openings (unintended) in the ground floors? No
* Draw approximate location of floor cracks/openings on site map. N/A
* Note the length of the crack/opening. N/A
* Note the width of the crack/opening. N/A
* Comments:

Annual Inspection Form

Mott Haven Campus
730 Concourse Village West, Bronx, New York 10451

D. COVER SYSTEM - EXTERIOR INSPECTION

✓ **1. Walk and inspect the entire perimeter of the Site.**

✓ **2. Walk and inspect all of the paved areas (concrete and asphalt) of the Site, including areas under PS 156 and IS 151.**

✓ **3. Walk and inspect all of the unpaved areas of the Site including artificial turf field.**

- ✓ * Are there any signs of significant cracks, settlement or deterioration of the paved areas? No
- ✓ * Has any of the pavement material been removed? No
- ✓ * Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)? No
- ✓ * Have any structures been constructed on the unpaved areas? Yes, pull-up bar ~~and sand pit~~
- ✓ * Inspect synthetic turf. Any problems identified? No
- ✓ * Are the flush-mounted caps/protective casings for the 7 monitoring wells secured? Yes
- ✓ * Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)? Yes
- ✓ * Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)? Yes, sand pit
- * Comments: Pull-up bars and sand pit do not impact the minimum 2 foot environmental clean fill cover.

E. VAPOR BARRIER INSPECTION

✓ **1. Walk all of the bottom floors**

- ✓ * Review all cracks or other openings indentified in ground floors during previous inspections.
- ✓ * Conduct smoke test at each identified crack/opening/depression using environmentally safe smoke.
- ✓ * Draw approximate location of floor cracks/openings that appear to have potential leak through vapor barrier. N/A
- ✓ * Identify sources of potential impact to smoke test (i.e., HVAC vent nearby). N/A
- ✓ * Redo smoke test at location of potential vapor barrier leak after sealing off sources of potential impact.

Comments: Smoke test conducted in Rooms C19, C20, C20B, C29F, C44, C48, C59, C80S, C84, C86,

F. Repair

Summarize needed/completed repairs to Engineering Controls:

1 - Connect BMS to EF-1 & EF-3, 2 - Tighten guy wires on EF-1 & EF-2
3 - Adjust/Replace vacuum gages for all fans, 4 - Replace flex joints for EF-4 & EF6.
5 - Monitor Hairline cracks, 6 - Seed all exposed/eroded soil surfaces.

Inspector's Signature: [signature]

Attachment 6
Training Acknowledgement

ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

104 East 25th St, 10th Floor
New York, NY 10010-2917
www.cardnoatc.com
212-353-8280
Fax 212-353-8306

Annual Training Acknowledgement
Engineering Controls Operation and Maintenance

Location: X790

Custodian/Fireman: Robert Rivera

I, Robert Rivera, received annual refresher training on Engineering Controls Operation and Maintenance by ATC Group Services, LLC (ATC) on 9/21/17. As part of the annual refresher training I conducted a walkthrough with ATC during which all elements covered by the Operation and Maintenance Plan were explained to me including the completion of the daily logs and monthly inspection form.

Signed by: Robert Rivera **Date:** 9/21/17
Custodian/Fireman

Recommendations:

1) Connect SMS to EF1 & EF3
2) Tighten Guy wires on EF1 & EF2
3) Adjust or replace vacuum gages for all SSDs
4) Replace flex joints for EF4 & EF6
5) Monitor hairline cracks in Rms: C80, C84, C86, C59, C20, C20B, C48, C44, C29F, & C19. Patch as necessary.
6) Seed all exposed/eroded soil surfaces.