REVISED ANNUAL SITE MANAGEMENT REPORT FROM SEPTEMBER 2011 TO FEBRUARY 2012 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: March 20, 2012
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ATC Associates Inc. Project No. 015.19125.1358

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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 625 Broadway Albany, New York 12233 (718) 482-4891 New York City School Construction Authority 30-30 Thomson Avenue Long Island City, New York 11101 (718) 472-8000 Shaw Environmental, Inc. 1633 Broadway, 30th Floor New York, NY 10019 (212) 290-6000 TRC Engineers, Inc. 1430 Broadway New York NY 10018 (212) 221-7822
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, PE, Division Manager Wagdi Abdelshahid, IH, Project Manager Husam Zeidan, Inspector

EXECUTIVE SUMMARY

This Site Management Report (SMR) covers the period from September 21, 2011 to February 29, 2012 for PS 790X located at 730 Concourse Village West, Bronx, NY. This report is being submitted in response to the February 15, 2012 New York State Department of Environmental Conservation (NYSDEC) Reminder Notice. 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 site inspection conducted on February 23, 2012 pursuant to the NYSDEC-approved Site Management Plan (SMP).

The site inspection included an evaluation of engineering controls identified in the SMP which includes the vapor barrier, sub-slab depressurization system (SSDS) and cover system established at the site. In addition, ATC reviewed the custodial inspection logs, and SSDS inspection and groundwater monitoring reports prepared by others.

Based on the visual inspection and document review, ATC Associates, Inc. (ATC) concludes that the Engineering Controls (ECs) and Institutional Controls (ICs) have not changed, are effective, protect public health and the environment, and the remedial goals are being met, except as it relates to the concrete pad (cover) underneath the platforms of PS 156 and IS 151. Accordingly, a Corrective Measures Work Plan (CMWP) was prepared as part of the Annual SMR submitted to the NYSDEC on March 20, 2012.

In a letter dated, March 30, 2012 (Attachment 7), the NYSDEC provided comments on the SMR and CMWP. The comment pertaining to the Institutional and Engineering Controls Certification Form has been addressed by ATC on behalf of the New York City Department of Education (NYCDOE) and is included under Attachment 1. The remaining comments have been addressed by TRC Engineers, Inc. (TRC) on behalf of the New York City School Construction Authority (SCA) concerning the CMWP, and are included under Attachment 7 (CMWP-Revision 1 dated April 3, 2012).

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 PS 790X located at 730 Concourse Village West in Bronx, NY. The school opened in September 2010 and is currently attended by approximately 430 students. This report was completed in accordance with the SMP approved by the NYSDEC.

The scope of work for this service included:

1. Review of the school custodian's monthly inspection logs indicating his routine walk-through to identify any observed changes to the ECs and ICs;
2. Roof Vent SSDS Inspection, Basement Inspection and Exterior Inspection;
3. Review of SMP, Operations and Maintenance Plan (O&M Plan), Groundwater Monitoring Reports and SSDS Biweekly Inspection Logs; and
4. 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., Mr. Wagdi Abdelshahid, and Mr. Husam Zeidan of ATC conducted the annual site inspection on February 23, 2012. ATC met with and was accompanied by Mr. Anthony Mariano and Mr. Albert Andreano, the school's custodial staff.

2.0 ENGINEERING CONTROLS

According to the SMP prepared by Shaw Environmental Inc. (Shaw), dated November 2008, the Mott Haven Campus (X790) contains engineering controls 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 direct contact from subsurface soils. A program for maintenance and monitoring was developed to ensure that the ECs remain effective.

2.1 Vapor Barrier

The vapor barrier was installed beneath the school buildings as a preventative 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 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 roof top fans.

2.3 Composite Cover System

A composite cover system was also installed on the school campus and below the platform of PS 156 and IS 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, concrete cap below platform, 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:

- Comply with the Environmental Easement and Declarations of Covenants and Restrictions (DCR) and comply with all elements of the SMP;
- Operate and maintain all ECs as per the SMP;
- 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;
- Inspect the cover system consisting of a concrete cap on all exposed ground surfaces beneath PS 156 and IS 151 to prevent human exposure to underlying soils remaining under Non-BCP Area B;
- 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;
- Inspect and certify all ECs at a frequency and in a matter defined in the SMP;
- Perform groundwater monitoring as stated in the SMP;
- Report data and information relevant to Site Management for the Property at the frequency and in a manner defined in the SMP;
- Protect and replace on-site monitoring devices as necessary to ensure the devices function in the manner specified in the SMP;
- Refrain from discontinuing the ECs without an amendment or the extinguishment of the Environmental Easement or DCR and approval by NYSDEC and NYSDOH;
- Prohibit farming and vegetable gardens on the Property;
- Prohibit the use of groundwater underlying the Property unless treatment is used rendering it safe for its intended purpose;
- 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;
- Use the Property as a school campus provided all long-term ECs and ICs included in the SMP are employed;
- 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
- 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 daily inspection logs and monthly inspection forms with the custodial staff from September 2011 to February 2012. All Monthly Inspection Forms indicate that the Building Management System (BMS) indicator lights were functioning; work to commission the BMS is progressing and is anticipated to be completed prior to the next SMR. The Monthly Inspection Forms are included in Attachment 2.

4.1.2 Review of Biweekly Inspection Logs

The SCA is working to have the BMS operational and commissioned. Biweekly inspections have been performed and will continue to be performed to verify operation of the SSDS until the BMS commissioning is complete.

ATC reviewed the biweekly logs prepared by SCA from October 17, 2011 to February 1, 2012 and SCA's representative TRC on February 29, 2012. These reports present the activity performed by Mr. Stephen Kline and Mr. Srinivas Kanaparthi of SCA during their biweekly inspections of the SSDS and by Mr. Kevin Boger of TRC (See Attachment 3). Based on this review, ATC noted that all six (6) SSDS fan units were operating at the time of inspection. TRC will continue to conduct biweekly inspections until the BMS is fully commissioned.

During a biweekly inspection conducted on December 20, 2011, Mr. Jaime Pena of Shaw Environmental, Inc. (Shaw) and Mr. Dennis LaPatra of Metro Air conducted a performance evaluation of the six (6) SSDS fan units. Mr. LaPatra indicated that the flow rates of all SSDS fan units were in the recommended range set by the manufacturer.

4.1.3 Review of Shaw's Semiannual Groundwater Monitoring Report

The Site is currently undergoing a semiannual groundwater monitoring program until the upgradient contamination source is addressed. ATC reviewed the last groundwater monitoring report (Attachment 4) prepared by Shaw for the September 2011. The report was submitted to the NYSDEC by NYCSCA on November 14, 2011.The Electronic Data Deliverable (EDD) was provided to the Department by Shaw Environmental on December 12, 2011.

A summary of the September 2011groundwater sampling event is provided below:

September 2011 Sampling Event

On September 17, 2011 Shaw collected ground water samples from the seven (7) existing groundwater monitoring wells. These samples were submitted to Chemtech Environmental Laboratory. No volatile organic compounds (VOC) were detected in two (2) of the three (3) downgradient monitoring wells (MW-5R and MW-11R). Two (2) VOCs were detected in the groundwater samples from MW-3R. The two VOCs did not exceed New York State Class GA standards. Two (2) VOCs were also detected in MW-25 and MW-26R below New York State Class GA standards. One VOC, tetrachloroethene (PCE) was detected in MW-24 at a concentration above the groundwater quality standard and is likely related to an upgradient source.

The remedial objective for groundwater in the NYSDEC-approved Remedial Action Work Plan (RAWP) is to maintain groundwater quality at the downgradient property line. Detections of VOCs were limited to one of three monitoring wells near the downgradient property line (MW-3R) and the concentrations were below groundwater quality standards. The groundwater monitoring results demonstrated that the remedial objective for groundwater continues to be met per the RAWP.

Semiannual groundwater sampling was recently completed by Shaw on March 10, 2012. Results of this sampling event will be provided in the next SMR.

4.2 ATC's Visual Observations

On February 23, 2012, ATC conducted visual observations and photographic documentation while accompanied by the custodial staff. Site photographs are included Attachment 5 and the Annual Inspection Form is included in Attachment 6. During the inspection, ATC noted the following:

- While the BMS was connected, it was indicating no air flow from the SSDS fan units due to BMS programming issue (reportedly will be addressed in the next two months); and
- A spare fan unit labeled EF-7 is available at the school and is located in Room B80A.

4.2.1 Roof Vent SSDS Inspection

1. The SSDS blowers and stacks are located on the top of the roof of Buildings A, B, C, and D as follows:
    - ***Buildings A & B*** roofs have two fans each: one on the top of the main roof and the other on the top of the mechanical room roof
    - ***Buildings C & D*** roofs have one fan each: on the top of the mechanical room roof.
2. All SSDS fan units were operational;
3. When SSDS fan units EF-3 and EF-4 were turned off and back on dripping water was observed from the duct flex connector; this is likely to be condensate;
4. All fan belts were observed to be cracked, except for EF-4 which is aligned and in good condition. The custodial staff has been replacing belts on as needed basis;

5. Rust and holes on the flexible duct connector of SSDS fan unit EF-6 was noted. (Subsequently, the flex duct connectors for all fans were replaced on March 12, 2012);
6. NYCSCA decommissioned the vacuum gauges on the SSDS fan units with the concurrence of the NYSDEC;
7. Guide wires of SSDS fan units EF-4, EF-3 and EF-2 were observed to be loose; and
8. Fan mounting and vibration isolators were intact.

4.2.2 Basement Inspection (Cellar)

ATC inspected the accessible areas of the basement floors. ATC did not observe any visible concrete cracks penetrating into the basement floor during the annual inspection. Furthermore, ATC did not observe any floor joints in the basement floor. As such, smoke testing consistent with Section 3.2.2 of the SMP was not conducted. 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. ATC also inspected the recently constructed DOT maintenance corridor and did not observe any visible cracks.

4.2.3 Exterior Inspection

ATC inspected the composite cover system around the perimeter of the property including the paved and unpaved areas. There was no evidence of pavement removal. No structures have been constructed on the unpaved areas. There were no signs of soil washing or erosion. ATC did not observe any 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 observed construction activities on the concrete pad area under PS 156 and IS 151 in support of storm sewer system improvement. Three (3) temporary shallow excavations (up to 10'x10' and 6"-12" deep), which were part of these activities, were observed. A CMWP (Revision 1) associated with the disturbance of the concrete pad has been prepared and is provided in Attachment 7. Upon completion, ATC will revisit the site to verify that this work has been completed.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on visual observations, ATC concludes the following:

1. The SSDS is operational. Biweekly SSDS inspections are being performed to verify operation of the SSDS and work on connecting/programming the BMS is continuing;
2. No visible concrete cracks penetrating into the basement floors or walls were observed during the annual inspection; therefore, no smoke testing was performed;
3. The ICs and ECs are in place, remain effective and the remedial goals have been met, except as it relates to the concrete pad underneath the platforms of PS 156 and IS 151;
4. The O&M Plan is being implemented;
5. No changes have occurred that would reduce the ability of the controls to protect public health and the environment, except as it relates to the concrete pad underneath the platforms of PS 156 and IS 151;

6. Access is available to the Site by NYSDEC and NYSDOH to evaluate continued maintenance of such controls; and
7. Site usage is compliant with the environmental easement.

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

1. Implement the CMWP to ensure compliance with the SMP;
2. Continue biweekly SSDS inspections until the BMS is properly connected and programmed;
3. Continue documenting all operation and maintenance activities on ECs;
4. Conduct preventative maintenance and document accordingly;
5. Investigate and correct water dripping from the SSDS fan units;
6. Continue to replace any cracked fan belts;
7. Continue to monitor the condition of flexible duct connectors on all SSDS fan units; and
8. Tighten any loose guide wires on the SSDS fan units.

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 ASSOCIATES INC.

Gilbert Gedeon, P.E.
Division Manager

cc: B. Orlan
Y. Efstathiou

Attachment 1
Institutional and Engineering Controls Certification Form

New York State Department of Environmental Conservation
Division of Environmental Remediation, 11th Floor
625 Broadway, Albany, New York 12233
Phone: (518) 402-9553 **Fax:** (518) 402-9577
Website: www.dec.ny.gov

Joe Martens
Commissioner

2/15/2012

Ross Holden
VP and General Counsel
New York City School Construction Authority
30-30 Thomson Avenue
Long Island City, NY 11101-3045

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 Ross Holden:

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 **March 19, 2012**. 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-Taule, 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: smmartin@gw.dec.state.ny.us

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

City Of New York

ec: w/ enclosures

Sondra Martinkat-Taule, Project Manager
Jane O'Connell, Hazardous Waste Remediation Engineer, Region 2
Steven Bates, DOH
ATC Associates Inc.

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.

- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the 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. **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: August 18, 2010 to February 18, 2012
Reporting Period: September 21, 2011 to February 29, 2012

	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?	☑	☐

Storm sewer improvements beneath the platforms of PS 156 and JS 151

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

4/4/12
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	City of New York	Building Use Restriction Ground Water Use Restriction IC/EC Plan Landuse Restriction Monitoring Plan O&M Plan Site Management Plan Soil Management Plan
9-2443-78 P/O	City of New York	

Box 4

Description of Engineering Controls

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

Engineering Control Details for Site No. C203030

Engineering Control Details for Site No. C203030

Parcel: 9-2443-78 P/O

ICs:

Compliance with the Environmental Easment and DCR.
All ECs must be operated and maintained as specified in SMP
Cover systems inspection, certofocation, 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 is 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.

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 _____ at _____,
print name print business address

am certifying as _____(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 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 _____ at _____,
print name print business address

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

_____	_____	_____
Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date

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: Anthony Marquo
Inspection Date: 9/28
Inspection Time: 11:25 AM
Weather Conditions: Cloudy
Air Temperature (°F): 62
Comments:

A. SSDS SYSTEM INSPECTION

1. Walk the entire roof surface of school buildings.

* Inspect fan stack guy wires.
* Inspect fan mounting and vibration isolators. ✓
* Inspect condition of fan belt. ✓
* Inspect alignment of fan belt. ✓
* Record vacuum gauge reading: ✓
* Inspect bolts and set screws for tightness and rusty condition. ✓
* Inspect for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing. ✓
* Is the Building Management System monitoring SSDS fans and functioning properly? ✓
* Confirm that spare fan is stored in designated secure location and in working condition. ✓
* Confirm that the spare fan's bearings are completely filled with grease/lubricant. ✓
* Rotate the fan wheel of the spare fan several times to ensure that bearings remain lubricated. ✓
* Comments (see or hear anything unusual?): ✓

B. COVER SYSTEM - BOTTOM FLOOR INSPECTION

1. Walk all of the bottom floors

* Any visible cracks or depressions in the ground floors? ✓
* Any other visible openings (unintended) in the ground floors? ✓
* Draw approximate location of floor cracks/openings on site map. ✓
* Note the length of the crack/opening. ✓
* Note the width of the crack/opening. ✓
* Comments: R-C05M - Manhole is full of water → Need to be vacuum
OIL SHEEN on the Elevators PIT.

C. COVER SYSTEM - EXTERIOR INSPECTION (Including area under platform)

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? ✓
* Has any of the pavement material been removed? ✓
* Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)? ✓
* Have any structures been constructed on the unpaved areas? ✓
* Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)? ✓
* Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)? ✓
* Comments:

D. REPAIRS Elevator Company corrected the problems

Summarize needed/completed repairs to Engineering Controls:
R-C28 - Bench is blocking the Monitoring Well C → corrected.
R-C24 - Monitoring Well is block by cement - corrected.
Bldg. D - SSDS - Fan № 2: broken belt & replaced

Inspector's Signature: Anthony Marquo

Monthly/Severe Condition Inspection Form

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

Inspector's Name: Anthony Mariano
Weather Conditions: Clear
Inspection Date: 10/10/1
Air Temperature (°F): 64°F
Inspection Time: 10:00 AM
Comments: Robert Fahrenbock from CTI

A. SSDS SYSTEM INSPECTION

1. Walk the entire roof surface of school buildings.

* Inspect fan stack guy wires.	
* Inspect fan mounting and vibration isolators.	✓
* Inspect condition of fan belt.	✓
* Inspect alignment of fan belt.	✓
* Record vacuum gauge reading:	✓
* Inspect bolts and set screws for tightness and rusty condition.	✓
* Inspect for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing.	✓
* Is the Building Management System monitoring SSDS fans and functioning properly?	✓
* Confirm that spare fan is stored in designated secure location and in working condition.	✓
* Confirm that the spare fan's bearings are completely filled with grease/lubricant.	✓
* Rotate the fan wheel of the spare fan several times to ensure that bearings remain lubricated.	✓
* Comments (see or hear anything unusual?):	✓

Bldg. A - SSDS Fan # 5 = Gage not Working.
#1 - Pulley - Problems

B. COVER SYSTEM - BOTTOM FLOOR INSPECTION

1. Walk all of the bottom floors

* Any visible cracks or depressions in the ground floors?	✓
* Any other visible openings (unintended) in the ground floors?	✓
* Draw approximate location of floor cracks/openings on site map.	✓
* Note the length of the crack/opening.	✓
* Note the width of the crack/opening.	✓
* Comments:	

C. COVER SYSTEM - EXTERIOR INSPECTION (Including area under platform)

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?	✓
* Has any of the pavement material been removed?	✓
* Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)?	✓
* Have any structures been constructed on the unpaved areas?	✓
* Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)?	✓
* Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)?	✓
* Comments:	

D. REPAIRS

Summarize needed/completed repairs to Engineering Controls:
Pulley was repaired.

Inspector's Signature: Anthony Mariano

Monthly/Severe Condition Inspection Form

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

Inspector's Name: Anthony Mariano
Inspection Date: 11/12/11
Inspection Time: 9:00 A.M
Comments:

Weather Conditions: Clear
Air Temperature (°F): 39°F

A. SSDS SYSTEM INSPECTION

1. Walk the entire roof surface of school buildings.

* Inspect fan stack guide wires.
* Inspect fan mounting and vibration isolators. ✓
* Inspect condition of fan belt. ✓
* Inspect alignment of fan belt. ✓
* Record vacuum gauge reading: ✓
* Inspect bolts and set screws for tightness and rusty 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? ✓
* Confirm that spare fan is stored in designated secure location and in working condition. ✓
* Confirm that the spare fan's bearings are completely filled with grease/lubricant. ✓
* Rotate the fan wheel of the spare fan several times to ensure that bearings remain lubricated. ✓
* Comments (see or hear anything unusual?): ✓

Bldg. D - SSDS Fan is making a lot of noises.

B. COVER SYSTEM - BOTTOM FLOOR INSPECTION

1. Walk all of the bottom floors

* Any visible cracks or depressions in the ground floors? ✓
* Any other visible openings (unintended) in the ground floors? ✓
* Draw approximate location of floor cracks/openings on site map. ✓
* Note the length of the crack/opening. ✓
* Note the width of the crack/opening. ✓
* Comments:

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.

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? ✓
* Has any of the pavement material been removed? ✓
* Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)? ✓
* Have any structures been constructed on the unpaved areas? ✓
* Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)? ✓
* Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)? ✓
* Comments:

D. REPAIRS

Summarize needed/completed repairs to Engineering Controls:
Repaired Pulley.

Inspector's Signature: Anthony Mariano

Monthly/Severe Condition Inspection Form

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

Inspector's Name: Anthony Mariano
Inspection Date: 12/3/11
Inspection Time:
Comments:

Weather Conditions: Clear
Air Temperature (°F): 38°F

A. SSDS SYSTEM INSPECTION

1. Walk the entire roof surface of school buildings.

- Inspect fan stack guide wires. ✓
- Inspect fan mounting and vibration isolators. ✓
- Inspect condition of fan belt. ✓
- Inspect alignment of fan belt. ✓
- Record vacuum gauge reading: ✓
- Inspect bolts and set screws for tightness and rusty 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? ✓
- Confirm that spare fan is stored in designated secure location and in working condition. ✓
- Confirm that the spare fan's bearings are completely filled with grease/lubricant. ✓
- Rotate the fan wheel of the spare fan several times to ensure that bearings remain lubricated. ✓
- Comments (see or hear anything unusual?):

B. COVER SYSTEM - BOTTOM FLOOR INSPECTION

1. Walk all of the bottom floors

- Any visible cracks or depressions in the ground floors? ✓
- Any other visible openings (unintended) in the ground floors? ✓
- Draw approximate location of floor cracks/openings on site map. ✓
- Note the length of the crack/opening. ✓
- Note the width of the crack/opening. ✓
- Comments: ✓

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.

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? ✓
- Has any of the pavement material been removed? ✓
- Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)? ✓
- Have any structures been constructed on the unpaved areas? ✓
- Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)? ✓
- Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)? ✓
- Comments:

D. REPAIRS

Summarize needed/completed repairs to Engineering Controls:
Replaced Bldg. D- Fan Belts.

Inspector's Signature: [signature]

Monthly/Severe Condition Inspection Form

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

Inspector's Name: Anthony Mariano
Inspection Date: 8/7/12
Inspection Time:
Comments:

Weather Conditions: Clear
Air Temperature (°F): 47° F

A. SSDS SYSTEM INSPECTION

1. Walk the entire roof surface of school buildings.

- Inspect fan stack guide wires. ✓
- Inspect fan mounting and vibration isolators. ✓
- Inspect condition of fan belt. ✓
- Inspect alignment of fan belt. ✓
- Record vacuum gauge reading: ✓
- Inspect bolts and set screws for tightness and rusty 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? ✓
- Confirm that spare fan is stored in designated secure location and in working condition. ✓
- Confirm that the spare fan's bearings are completely filled with grease/lubricant. ✓
- Rotate the fan wheel of the spare fan several times to ensure that bearings remain lubricated. ✓
- Comments (see or hear anything unusual?): ✓

B. COVER SYSTEM - BOTTOM FLOOR INSPECTION

1. Walk all of the bottom floors

- Any visible cracks or depressions in the ground floors? ✓
- Any other visible openings (unintended) in the ground floors? ✓
- Draw approximate location of floor cracks/openings on site map. ✓
- Note the length of the crack/opening. ✓
- Note the width of the crack/opening. ✓
- Comments: ✓

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.

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? ✓
- Has any of the pavement material been removed? ✓
- Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)? ✓
- Have any structures been constructed on the unpaved areas? ✓
- Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)? ✓
- Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)? ✓
- Comments:

D. REPAIRS

Summarize needed/completed repairs to Engineering Controls:

Inspector's Signature: Anthony Mariano

Monthly/Severe Condition Inspection Form

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

Inspector's Name: Anthony Saviano
Inspection Date: 2/4/12
Inspection Time: 9:00 AM
Comments:

Weather Conditions: Clear
Air Temperature (°F): 37°F

A. SSDS SYSTEM INSPECTION

1. Walk the entire roof surface of school buildings.

- Inspect fan stack guide wires. ✓
- Inspect fan mounting and vibration isolators. ✓
- Inspect condition of fan belt. ✓
- Inspect alignment of fan belt. ✓
- Record vacuum gauge reading: ✓
- Inspect bolts and set screws for tightness and rusty 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? ✓
- Confirm that spare fan is stored in designated secure location and in working condition. ✓
- Confirm that the spare fan's bearings are completely filled with grease/lubricant. ✓
- Rotate the fan wheel of the spare fan several times to ensure that bearings remain lubricated. ✓
- Comments (see or hear anything unusual?): ✓

B. COVER SYSTEM - BOTTOM FLOOR INSPECTION

1. Walk all of the bottom floors

- Any visible cracks or depressions in the ground floors? ✓
- Any other visible openings (unintended) in the ground floors? ✓
- Draw approximate location of floor cracks/openings on site map. ✓
- Note the length of the crack/opening. ✓
- Note the width of the crack/opening. ✓
- Comments:

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.

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? ✓
- Has any of the pavement material been removed? ✓
- Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)? ✓
- Have any structures been constructed on the unpaved areas? ✓
- Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)? ✓
- Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)? ✓
- Comments:

D. REPAIRS

Summarize needed/completed repairs to Engineering Controls:

Inspector's Signature: Anthony Saviano

Attachment 3
Biweekly Inspection Logs

Shaw Environmental & Infrastructure
Engineering of NY, P.C.
1633 Broadway, 30th Floor
New York, NY 10019
212-290-6000
FAX: 212-290-6001

Shaw Environmental & Infrastructure
Engineering of NY, P.C.

March 8, 2012

Ms. Lee Guterman
Deputy Director
Industrial & Environmental Hygiene Division
New York City School Construction Authority
30-30 Thomson Avenue
Long Island City, New York 11101

Re: Engineer Certification of Environmental Monitoring Activities
Mott Haven Site
730 Concourse Village West
Bronx, New York 10451
SCA LLW# 033485/SCA Job# 28646
BCP No. C203030

Dear Ms. Guterman:

Pursuant to the New York State Department of Environmental Conservation (NYSDEC)-approved November 2008 Site Management Plan, this letter certifies the following:

- On September 17, 2011, Shaw conducted semi-annual groundwater monitoring. This report was submitted to NYSDEC on November 14, 2011 under separate cover.
- Shaw reviewed the October 17, 2011 to February 1, 2012 biweekly inspection reports prepared by NYCSCA to confirm that the system was operating as designed.
- Shaw reviewed the February 29, 2012 biweekly inspection report prepared by TRC to confirm that the system was operating as designed.

If you have any questions, please feel free to contact me at 212 290-6000.

Sincerely,

Shaw Environmental & Infrastructure
Engineering of NY, P.C.

STATE OF NEW YORK
PAUL FARRINGTON
No. 062242
LICENSED PROFESSIONAL ENGINEER
03/08/2012

Paul Farrington, P.E.
NYS Professional Engineer #062242

FIELD ACTIVITY DAILY LOG

Project Name: NYCSCA Mott Haven **Date:** 10/17/11
Field Activity Subject: SSDS Bi-Weekly Inspection
Description of Daily Activities and Events:

- 15:30 hrs NYCSCA representatives S. Kline and S. Kanaparthi on site.

- Checked in with custodian's office to sign in. The head custodian, Anthony Mariano, provided the roof keys and we performed the inspection of the six (6) SSDS fans.
- All 6 SSDS fans inspected this afternoon and were operating normally with no problems.
- We returned to the custodian's office to drop off the roof keys and let the custodian know the fans were operating properly. Anthony confirmed that although the facility has a BMS computer (located in his office), the system and display screen were not yet functional.
- Informed the custodian that S. Kline would be taking over for D. Greffenius for routine SSDS inspections and that the next one was scheduled in approximately two weeks.

- 16:45 hrs. S. Kline and S. Kanaparthi off site.

Visitors on Site:	**Changes from Plans and Specifications and Other Special Orders and Important Decisions:**
Weather Conditions: Sunny High 60s	
NYCSCA Personnel On Site: Stephen M. Kline and Srinivas Kanaparthi	**Important Telephone Calls:**

FIELD ACTIVITY DAILY LOG

Project Name: NYCSCA Mott Haven **Date:** 11/4/11

Field Activity Subject: SSDS Bi-Weekly Inspection

Description of Daily Activities and Events:

- 09:10 hrs NYCSCA representative S. Kline on site.

- Checked in with custodian's office to sign in. The head custodian, Anthony Mariano, not on-site at this time coordinated with Fireman A.J. A.J. provided the roof keys and SK performed the inspection of the six (6) SSDS fans.
- All 6 SSDS fans inspected this morning and were found to be operating normally with no problems.
- Returned to the custodian's office to drop off the roof keys and let the A.J. know the fans were operating properly.
- Informed A.J. that SK would return in approximately two weeks to perform routine SSDS inspections.

- 10:45 hrs. S. Kline off site.

Visitors on Site:	**Changes from Plans and Specifications and Other Special Orders and Important Decisions:**
Weather Conditions: Overcast, breezy 50s F	
	Important Telephone Calls:
NYCSCA Personnel On Site: Stephen M. Kline	

FIELD ACTIVITY DAILY LOG

Project Name: NYCSCA Mott Haven **Date:** 11/21/11

Field Activity Subject: SSDS Bi-Weekly Inspection

Description of Daily Activities and Events:

- 12:45 hrs NYCSCA representative S. Kline on site.

- Checked in with custodian's office to sign in. The head custodian, Anthony Mariano, provided the roof keys and SK performed the inspection of the six (6) SSDS fans.
- All 6 SSDS fans inspected this afternoon and were found to be operating normally with no problems.
- Returned to the custodian's office to drop off the roof keys and let the custodian know the fans were operating properly.
- Informed custodian that SK would return in approximately two weeks to perform routine SSDS inspections.

- 14:00 hrs. S. Kline off site.

Visitors on Site:	**Changes from Plans and Specifications and Other Special Orders and Important Decisions:**
Weather Conditions: Sunny, clear 50s F	
NYCSCA Personnel On Site: Stephen M. Kline	**Important Telephone Calls:**

FIELD ACTIVITY DAILY LOG

Project Name: NYCSCA Mott Haven **Date:** 12/20/11
Field Activity Subject: SSDS Bi-Weekly Inspection
Description of Daily Activities and Events:

- 8:30 hrs NYCSCA representative S. Kline on site.
- Checked in with custodian's office to sign in.
- Check the BMS operation in the custodian office and the BMS is not reading the flow switches connected to the SSDS system: all flow motion arrows are red. This incorrectly indicates that there is no flow in the system. However, the fans are operational.
- The head custodian, Anthony Mariano, provided the roof keys and SK performed the inspection of the six (6) SSDS fans. All 6 SSDS fans inspected this morning and were found to be operating normally with no problems.
- J. Pena (Shaw) and the fan manufacturer's (Twin City Fans) representative D. LaPatra (from Metro Air) on site at 09:30 hrs to perform an evaluation of SSDS fan performance. During the evaluation DL measured static pressure and calculated flow rate for each of the six fans. Static pressure in the system before the fan inlet ranged from 3.8 inches (") of water column (W.C.) and 4.72 " W.C. and flow rate ranged from 189 cubic feet per minute (CFM) to 288 CFM. DL indicated that these values are within the manufacturer's recommended performance for the SSDS fans. DL made some recommendations to address long-term operation and maintenance of the fans.
- Returned to the custodian's office to drop off the roof keys and let the custodian know the fans were operating properly.
- Informed custodian that SK would return in January 2012 to perform the next routine SSDS inspection.
- S, Kline, J. Pena and D. LaPatra offsite at 12:45 hrs.

Visitors on Site: Jaime Pena Shaw Group Dennis LaPatra – Metro Air	**Changes from Plans and Specifications and Other Special Orders and Important Decisions:**
Weather Conditions: Overcast, breezy low 40s F	
NYCSCA Personnel On Site: Stephen M. Kline	**Important Telephone Calls:**

FIELD ACTIVITY DAILY LOG

Project Name: NYCSCA Mott Haven **Date:** 1/10/12

Field Activity Subject: SSDS Bi-Weekly Inspection

Description of Daily Activities and Events:

- 14:00 hrs NYCSCA representative S. Kline on site.

- Checked in with custodian's office to sign in. The head custodian, Anthony Mariano, provided the roof keys and SK performed the inspection of the six (6) SSDS fans.
- All 6 SSDS fans inspected this afternoon and were found to be operating normally with no problems.
- Returned to the custodian's office to drop off the roof keys and let the custodian know the fans were operating properly.
- Informed custodian that SK would return in approximately two weeks to perform routine SSDS inspections.

- 15:15 hrs. S. Kline off site.

Visitors on Site:	**Changes from Plans and Specifications and Other Special Orders and Important Decisions:**
Weather Conditions: clear, cold 30s F	
NYCSCA Personnel On Site: Stephen M. Kline	**Important Telephone Calls:**

FIELD ACTIVITY DAILY LOG

Project Name: NYCSCA Mott Haven **Date:** 2/1/12

Field Activity Subject: SSDS Bi-Weekly Inspection

Description of Daily Activities and Events:

- 08:30 hrs NYCSCA representative S. Kline on site.

- Checked in with custodian's office to sign in. The head custodian, Anthony Mariano, provided the roof keys and SK performed the inspection of the six (6) SSDS fans.
- All 6 SSDS fans inspected this afternoon and were found to be operating normally with no problems.
- Returned to the custodian's office to drop off the roof keys and let the custodian know the fans were operating properly.
- Informed custodian that SK would return in approximately two weeks to perform routine SSDS inspections.

- 09:15 hrs. S. Kline off site.

Visitors on Site:	**Changes from Plans and Specifications and Other Special Orders and Important Decisions:**
Weather Conditions: clear, cold 40s F	
	Important Telephone Calls:
NYCSCA Personnel On Site: Stephen M. Kline	

FIELD ACTIVITY DAILY LOG

1430 Broadway
10th Floor
New York, NY 10018

212.221.7822 PHONE
212.221.7840 FAX

www.TRCsolutions.com

Date: 2/29/12
Project Name: NYCSCA Mott Haven
Field Activity Subject: SSDS Bi-Weekly Inspection
Description of Daily Activities and Events:

- S. Kline (SCA IEH) and K. Boger (TRC) on-site.

- Checked in with custodian's office to sign in.

- All 6 SSDS fans were inspected and all SSDS fans were operating normally.

- Custodian confirmed that although the facility has a BMS computer (located in his office), the system and display screen were not yet functional.

- Informed the custodian that K. Boger would be taking over for S. Kline for routine SSDS inspections and that the next one was scheduled in approximately two weeks.

Attachment 4
Groundwater Monitoring Report

Shaw Environmental & Infrastructure
Engineering of NY, P.C.
1633 Broadway, 30th Floor
New York, NY 10019
212-290-6000
FAX: 212-290-6001

Shaw Environmental & Infrastructure
Engineering of NY, P.C.

March 8, 2012

Ms. Lee Guterman
Deputy Director
Industrial & Environmental Hygiene Division
New York City School Construction Authority
30-30 Thomson Avenue
Long Island City, New York 11101

Re: Engineer Certification of Environmental Monitoring Activities
Mott Haven Site
730 Concourse Village West
Bronx, New York 10451
SCA LLW# 033485/SCA Job# 28646
BCP No. C203030

Dear Ms. Guterman:

Pursuant to the New York State Department of Environmental Conservation (NYSDEC)-approved November 2008 Site Management Plan, this letter certifies the following:

- On September 17, 2011, Shaw conducted semi-annual groundwater monitoring. This report was submitted to NYSDEC on November 14, 2011 under separate cover.
- Shaw reviewed the October 17, 2011 to February 1, 2012 biweekly inspection reports prepared by NYCSCA to confirm that the system was operating as designed.
- Shaw reviewed the February 29, 2012 biweekly inspection report prepared by TRC to confirm that the system was operating as designed.

If you have any questions, please feel free to contact me at 212 290-6000.

Sincerely,

Shaw Environmental & Infrastructure
Engineering of NY, P.C.

STATE OF NEW YORK
PAUL FARRINGTON
No. 062242
LICENSED PROFESSIONAL ENGINEER
03/08/2012

Paul Farrington, P.E.
NYS Professional Engineer #062242

Shaw Environmental, Inc.
1633 Broadway, 30th Floor
New York, New York 10019
212-290-6000
FAX: 212-290-6001

Shaw® Shaw Environmental, Inc.

November 2, 2011

Ms. Sondra Martinkat
Environmental Engineer 2
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2
47-40 21st Street
Long Island City, New York 11101

Re: Semi-Annual Groundwater Monitoring
September 2011 (10th Event, 6TH Semi-Annual Event)
Mott Haven Site
730 Concourse Village West
Bronx, New York 11375
SCA LLW# 033485/SCA Job# 28646
BCP No. C203030

Dear Ms. Martinkat:

On behalf of the New York City School Construction Authority (NYCSCA), Shaw Environmental, Inc. (Shaw) has prepared this semi-annual report regarding the post remediation groundwater sampling at the Mott Haven Site. Groundwater monitoring results are being reported in accordance with the November 2008 Mott Haven Final Site Management Plan (SMP), approved by the New York State Department of Environmental Conservation (NYSDEC) on November 25, 2008. The groundwater monitoring data will be provided to the Department in Electronic Data Deliverable (EDD) format under separate cover.

On September 17, 2011, water levels were measured in the on-site monitoring wells and in five existing off-site, upgradient monitoring wells (MW-8, MW-9, MW-18, MW-20, and MW-21) as shown on Figure 1. The depth to water measurements and corresponding groundwater elevations are presented in Table 1. Groundwater contours based on the groundwater elevation data are shown on Figure 2. The contours on Figure 2 indicate that the direction of horizontal groundwater flow is toward the southeast, as was determined during the Remedial Investigation (RI) and previous groundwater monitoring events.

On September 17, 2011, groundwater samples were collected from the seven existing on-site groundwater monitoring wells. Sampling was performed in accordance with the Sampling Event Protocol presented in Section 3.3.4 of the SMP. Field Sampling Logs for the groundwater sampling are presented in Appendix A.

The groundwater samples were submitted to Chemtech Environmental Laboratory of Mountainside, New Jersey, a New York State Environmental Laboratory Acceptance Program (ELAP) certified laboratory for analysis of Target Compound List (TCL) volatile organic compounds (VOCs) plus methyl tert-butyl ether (MTBE) per U.S. Environmental Protection Agency (USEPA) Method 8260. Table 2 summarizes

the groundwater analytical data. The laboratory analytical data report for the groundwater sample analysis is provided in Appendix B. Appendix C contains the laboratory certification forms.

No VOCs were detected in the trip blank indicating that the samples were not exposed to any environment that might impact the sample integrity. The field duplicate sample was collected from MW-23, and both the sample and the duplicate contained cis 1,2-dichloroethene (an estimated concentration of 3.1 micrograms per liter [µg/L] in MW-23 and an estimated concentration of 3.3 µg/L in the duplicate) and vinyl chloride (7.8 µg/L in MW-23 and 7.7 µg/L in the duplicate). The corresponding concentrations of cis 1,2-dichloroethene and vinyl chloride in MW-23 and the duplicate are very similar. The field duplicate results indicate good precision in the laboratory analyses. Generally, all other laboratory QC criteria (e.g., surrogate and spike recoveries) were acceptable.

The vinyl chloride concentration (7.8 µg/L) in the groundwater sample collected from MW-23 exceeded the corresponding New York State Class GA standard of 2.0 µg/L. The cis 1,2-dichloroethene and vinyl chloride detected in the sample collected from MW-23 are not related to the contaminant sources (manufactured gas plant waste and petroleum release) identified during the RI, and are likely residuals from an unidentified upgradient source(s).

No VOCs were detected in the groundwater samples from two of the three downgradient monitoring wells (MW-5R and MW-11R). Two VOCs were detected in the groundwater sample collected from MW-3R: cis 1,2-dichloroethene was detected at an estimated concentration of 1.6 µg/L and tetrachloroethene (PCE) was detected at an estimated concentration of 3.2 µg/L. Neither of the two detected VOCs exceeded the corresponding New York State Class GA standards.

Two VOCs were detected in the groundwater sample collected from MW-25. Cis 1,2-dichloroethene was detected at an estimated concentration of 0.98 µg/L, which did not exceed the Class GA standard of 5.0 µg/L. Benzene was detected at an estimated concentration of 0.76 µg/L, which did not exceed the Class GA standard of 1.0 µg/L. Cis 1,2-dichloroethene is not related to the contaminant sources (manufactured gas plant waste and petroleum release) identified during the RI, and is likely residual from an unidentified upgradient source(s). The low concentration of benzene detected in the groundwater sample collected from MW-25 is likely the result of minor residual on-site groundwater contamination remaining just outside of the Brownfield Cleanup Program (BCP) Area.

Two VOCs were detected in the groundwater sample collected from MW-26R. Cis 1,2-dichloroethene was detected at an estimated concentration of 1.0 µg/L and did not exceed the Class GA standard of 5.0 µg/L. Acetone was detected at an estimated concentration of 7.7 µg/L which did not exceed the Class GA standard of 50 µg/L. The cis 1,2-dichloroethene is not related to the contaminant sources (manufactured gas plant waste and petroleum release) identified during the RI, and is likely from an unidentified upgradient source(s). Acetone was only detected once (in MW-25R and MW-26R in September 2009) in the previous nine sampling events. Acetone is a common laboratory contaminant.

Two VOCs were detected in the groundwater sample collected from MW-24; PCE was detected at a concentration of 16 µg/L and trichloroethene (TCE) was detected at an estimated concentration of 3.8 µg/L. In previous sampling events, PCE concentrations in groundwater from MW-24 have ranged from between 26 and 51 µg/L. The Class GA standard for PCE is 5.0 µg/L. TCE was detected twice previously (March 10, 2010 and March 2011 sampling events) in the sample collected from MW-24. None of the detected TCE concentrations have exceeded the Class GA standard of 5.0 µg/L. Monitoring well MW-24 is located on the upgradient side of the Site, and the PCE and TCE detected in the groundwater sample from MW-24 are likely from upgradient sources.

The remedial objective for groundwater in the NYSDEC approved Remedial Action Work Plan (RAWP) is to maintain existing groundwater quality at the downgradient property line. Detections of VOCs were limited to one of the three monitoring wells near the downgradient property line (MW-3R) and concentrations were below groundwater quality standards. Accordingly, the remedial objective for groundwater continues to be met per the RAWP.

Please do hesitate to call us at (212) 290-6000 if you have any questions or require additional information regarding this project.

Sincerely,

SHAW ENVIRONMENTAL, INC.

Curtis A. Kraemer, P.G.
Senior Geologist

Jaime Peña
Project Manager

cc: C. Bethoney, NYSDOH
L. Guterman, NYCSCA

Attachments: Appendix A-Field Sampling Logs
Appendix B-Laboratory Analytical Data
Appendix C-Laboratory Certification Forms

Attachment 5
Photographic Documentation

Photo 1: View of typical SSDS roof fan unit (EF-5).

Photo 2: View of typical cracked fan belt (EF-2).

Photo 3: View of typical SSDS roof fan unit without a vacuum gauge (EF-3).

Photo 4: Water dripping during operation of SSDS fan unit EF-3.

Photo 5: Water dripping during operation of SSDS fan unit EF-4.

Photo 6: View of torn and rusted flexible duct connector on SSDS fan unit EF-6.

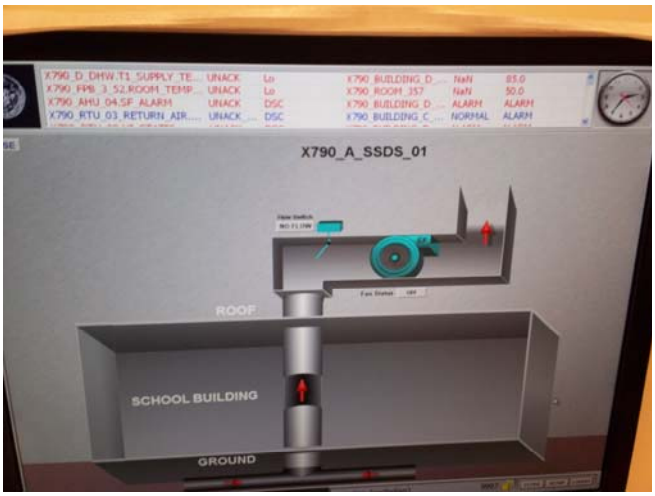


Photo 7: View of BMS indicating no flow on typical SSDS fan unit.

Photo 8: View of spare SSDS fan unit (EF-7) in Telecommunications Room B80A.

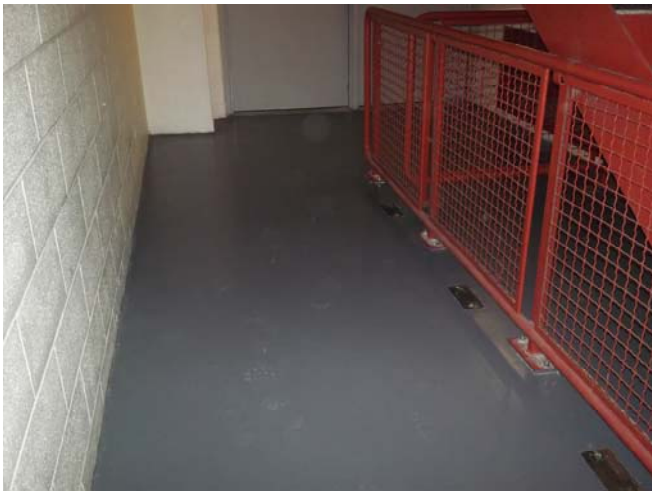


Photo 9: View of typical bare floor in Stairwell B.

Photo 10: View of typical bare concrete floor in Room 20D.

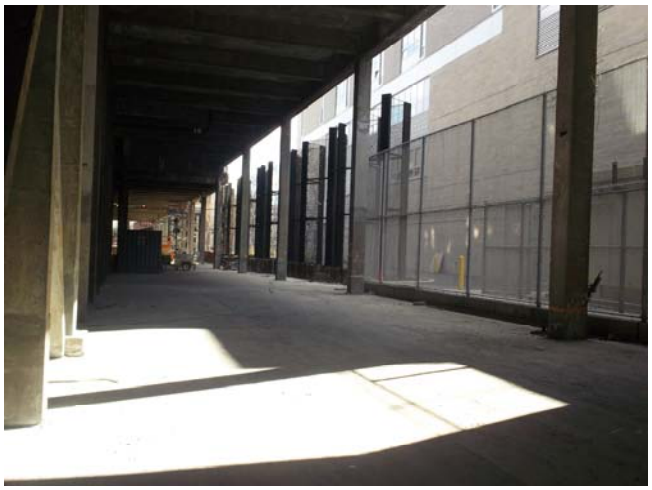


Photo 11: View of ongoing construction below PS 156 and IS 151.

Photo 12: View of shallow excavations in the construction area beneath PS 156 and IS 151.

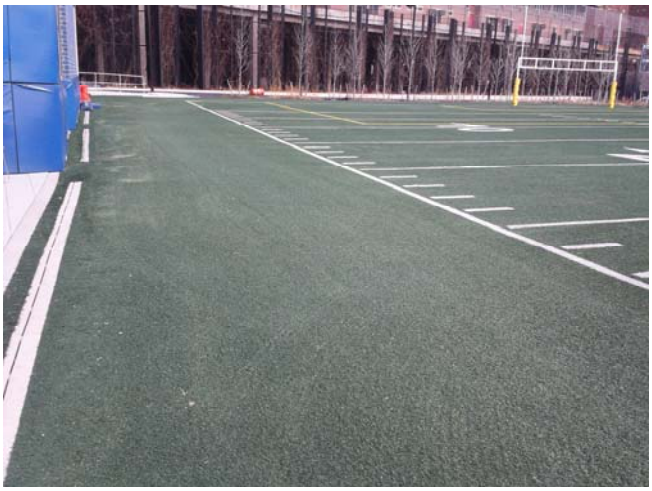


Photo 13: View of artificial turf on football field.

Photo 14: View of typical sidewalk pavers and vegetation cover.

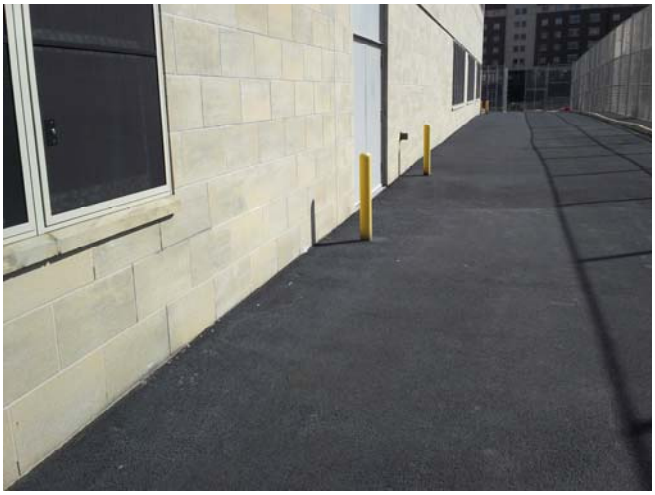


Photo 15: View of typical asphalt cover.

Attachment 6
Annual Inspection Forms

Annual Inspection Form

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

Inspector's Name: Gilbert Gedeon
Inspection Date: 2/23/12
Inspection Time: 10:00 AM
Comments:

Weather Conditions: Sunny / Clear
Air Temperature (°F): 56°F

A. PRE INSPECTION CHECKLIST

* Schedule Annual Inspection when school is not occupied by students. ✓
* Review 12 Previous Monthly Inspection Checklists. ✓ (6 months prior only)
* 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:

B. SSDS SYSTEM INSPECTION

1. Walk the entire roof surface of school buildings.

* Inspect fan stack guy wires. ✓ (EF-2,3,4,6 loose)
* Inspect fan mounting and vibration isolators. ✓
* Inspect condition of fan belt. ✓ (EF-1,2,3,5,6 cracked fan belts)
* Inspect alignment of fan belt. ✓
* Record vacuum gauge reading. – No vacuum gauges.
* Inspect bolts and set screws for tightness and rusty condition. ✓
* Verify spare fan is available, properly lubricated, and properly stored. ✓ (in Room B30A)
* 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 – Indicating no flow.
* Comments (see or hear anything unusual?): Water leaking from EF-3 and EF-4 after turning fan units off and back on; Flex connection at EF-6 is rusted and loose.

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
* Any other visible cracks in elevator pit or other accessible pits? Inaccessible
* 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 (Including area under platform)

1. **Walk and inspect the entire perimeter of the Site and the concrete cap under platform.**
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 (See Comment below)
* Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)? No
* Have any structures been constructed on the unpaved areas? No
* 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)? No
* Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)? Yes
* Comments: Concrete pad under PS 156 and IS 151 platform; Few shallow excavations observed in support of sewer system improvement projects

E. VAPOR BARRIER INSPECTION

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

* Review all cracks or other openings indentified in ground floors during previous inspections. None
* Conduct smoke test at each identified crack/opening/depression using environmentally safe smoke. N/A
* 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). No smoke testing done.
* Redo smoke test at location of potential vapor barrier leak after sealing off sources of potential impact. — N/A

Comments:

F. Repair

Summarize needed/completed repairs to Engineering Controls: See Section 5, on page 7, of the report.

Inspector's Signature:

Attachment 7
Corrective Measures Work Plan

1430 Broadway
10th Floor
New York, NY 10018

212.221.7822 PHONE
212.221.7840 FAX

www.TRCsolutions.com

April 3, 2012

Ms. Jane O'Connell
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2
47-40 21st Street
Long Island City, New York 11101-5407

Re: Cover System Corrective Measures Work Plan – Revision 1
Mott Haven Campus – X790
730 Concourse Village West
Bronx, New York
SCA LLW# 033485, Job#34857

Dear Ms. O'Connell:

On behalf of the New York City School Construction Authority (SCA), TRC Engineers, Inc. (TRC) is providing this Corrective Measures Work Plan Revision 1 (Work Plan) to restore the composite cover system engineering control at the Mott Haven Campus located at 730 Concourse Village West, Bronx, New York (hereafter referred to as the "Site").

Background

ATC Associates, Inc. (ATC) performed the annual site inspection on February 23, 2012, in accordance with the November 2008 Site Management Plan (SMP) at the request of the New York City Department of Education (DOE). While inspecting the concrete cap cover system under the platform that supports Public School (P.S.) 151 and former P.S. 156, ATC's inspector observed three (3) shallow excavations. ATC reported that the shallow excavations were "up to 10' x 10' and 6"- 12" deep" and associated with school plumbing system upgrades. These observations were reported in ATC's Annual Site Management Report (SMR), which was provided to the SCA for review and comments before being finalized and submitted to NYSDEC.

On the same day that the SMR was reviewed, the SCA contacted TRC and requested an immediate Site inspection. TRC inspected the Site on Friday, March 16, 2012, and found that the plumbing excavations had not been entirely backfilled and the concrete cap had not been repaired. The concrete cap cover system includes 8" of gravel and 4" of concrete. According to the SCA's Project Officer, this work includes abandoning the subsurface sewer lines and running the lines above grade to eliminate the sewer leaks under the platform. TRC used a photoionization detector (PID) to analyze the exposed soil and all readings registered 0.0 parts per million (ppm). In addition, the exposed soil did not display any evidence of staining or odors. TRC and the SCA directed the Contractor to stop work immediately and cover the excavations with polyethylene sheeting and plywood/lumber. While these measures were being implemented, the SCA notified the NYSDEC of these temporary corrective measures as they were being performed.

On March 19, 2012, the NYSDEC directed the SCA to develop a work plan to improve communications and avoid similar situations from occurring in the future and to restore the site cover system in compliance with the SMP.

On behalf of the SCA, TRC prepared and submitted the Work Plan to the NYSDEC on March 20, 2012 to respond to the NYSDEC directive. The NYSDEC provided comments to the Work Plan in a letter dated March 30, 2012 (refer to *Attachment A*). This revised Work Plan contains responses to bullets 2 through 5 in the NYSDEC comment letter.

Corrective Measures Work Plan

The duration of the remaining school plumbing system upgrade work is expected to be approximately 4 months from start to completion. This work includes exposing up to 11 house traps, video taping the connections, connecting aboveground piping to the traps, and backfilling and restoring the concrete cap. Approximately 70 cubic yards of additional excavated material (i.e., concrete cap, gravel, and soil) is anticipated to be generated during this work. A drawing showing the locations of the house traps is provided as *Attachment B* to this Work Plan.

The Contractor will not perform any work activities that could disturb the Site cover system until authorized by the NYSDEC and SCA. In order for the Contractor to proceed with intrusive work, they will be required to implement SMP-required controls such as a tire wash for trucks leaving the Site and dust suppression. A water hose capable of spraying water directly onto roads, stockpiles, and into each of the excavations will be used for dust suppression. Excavated material will be kept covered with appropriately anchored tarps when not in use. The Contractor will be required to follow the SMP protocols and provide submittals for SCA and TRC review and approval for soil/waste disposal or importing clean fill prior to proceeding. Finally, the Contractor will be required to restore the concrete cap cover system to its original specifications and to the satisfaction of the NYSDEC and SCA upon completion of all subsurface plumbing improvements.

TRC will implement a community air monitoring plan (CAMP) during the remaining intrusive work activities and will provide full time inspection services to verify SMP compliance. After the plumbing improvements are completed, disposal manifests received, and the Site cover system is restored to its original specifications, TRC will issue a Construction Completion Report (CCR) to SCA and DOE. The CCR will summarize the work activities and confirm compliance with the SMP. Upon receipt of TRC's report, DOE will direct ATC to perform a Site inspection in order to issue a Corrective Measures Report (CMR). The CMR will be submitted to the NYSDEC electronically within 30 days of the completion of Site restoration. ATC will also include the CMR/CCR in the next Periodic Review Report.

In order to improve communication between the IEH Division and SCA's Construction Management (CM) Division and New York City Department of Education (DOE) Division of School Facilities (DSF) responsible for Site work, SCA has expanded their current communication network. SCA CM and DOE DSF have been made aware of this site, and all other SCA/DOE sites in a DEC program with SMPs. SCA CM and DOE DSF staff are required to contact IEH for direction prior to proceeding with work on these sites. An SMP addendum will be prepared that will address this expanded communication network.

Sincerely,

TRC Engineers, Inc.

Michael R. Sherwood
Senior Project Manager

Attachment A – NYSDEC Comment Letter dated March 30, 2012
Attachment B – Plumbing System Upgrade Drawings

CC: S. Martinkat (NYSDEC)
A. Lempert (NYCSCA)
L. Guterman (NYCSCA)
S. Kanaparthi (NYCSCA)
B. Orlan (NYCDOE)

ATTACHMENT A
NYSDEC COMMENT LETTER

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

Joe Martens
Commissioner

March 30, 2012

Ross Holden
NYC School Construction Authority
30-30 Thomson Ave
Long Island City, NY 11101

Re: Site Management (SM) Corrective Measures Work Plan (CMWP)
Former Metro North Property
Bronx County, Site No.: C203030

Dear Mr. Holden:

The Department has reviewed your Periodic Review Report and Corrective Measures Work Plan (CMWP), dated March 20, 2012, and has the following comments.

- The IC/EC certification form must be revised. Specifically, item 7 in Box 2 should be checked "No". This affects the remainder of the certification – the instructions then indicate that the signature line in Box 2 should be signed, and the remainder of the form left blank. The certification cannot be made (i.e., checked "Yes") until such time as the CMWP is implemented and the site cover restored.
- The dedicated water truck seems excessive based upon Photo #12 in the Periodic Review Report (PRR) dated March 20, 2012. Please provide a diagram showing the full extent of the proposed sewer trench and recommend appropriate dust suppression (which may in fact be a water truck).
- Please indicate the duration of the construction activities and estimated volume of soil to be removed.
- Please send a copy (electronic only) of TRC's Construction Completion Report to the NYSDEC within 30 days of the completion of the excavation restoration activities, and include it in the next PRR.
- It was the Department's understanding that the list of sites provided by SCA IEH to SCA CM must be consulted prior to any contractor being hired by SCA CM. This requirement should extend to DOE as well. This needs to be clarified in the CMWP and made part of the SMP requirements.

Please respond to these comments within the 10 days of the date of this letter.

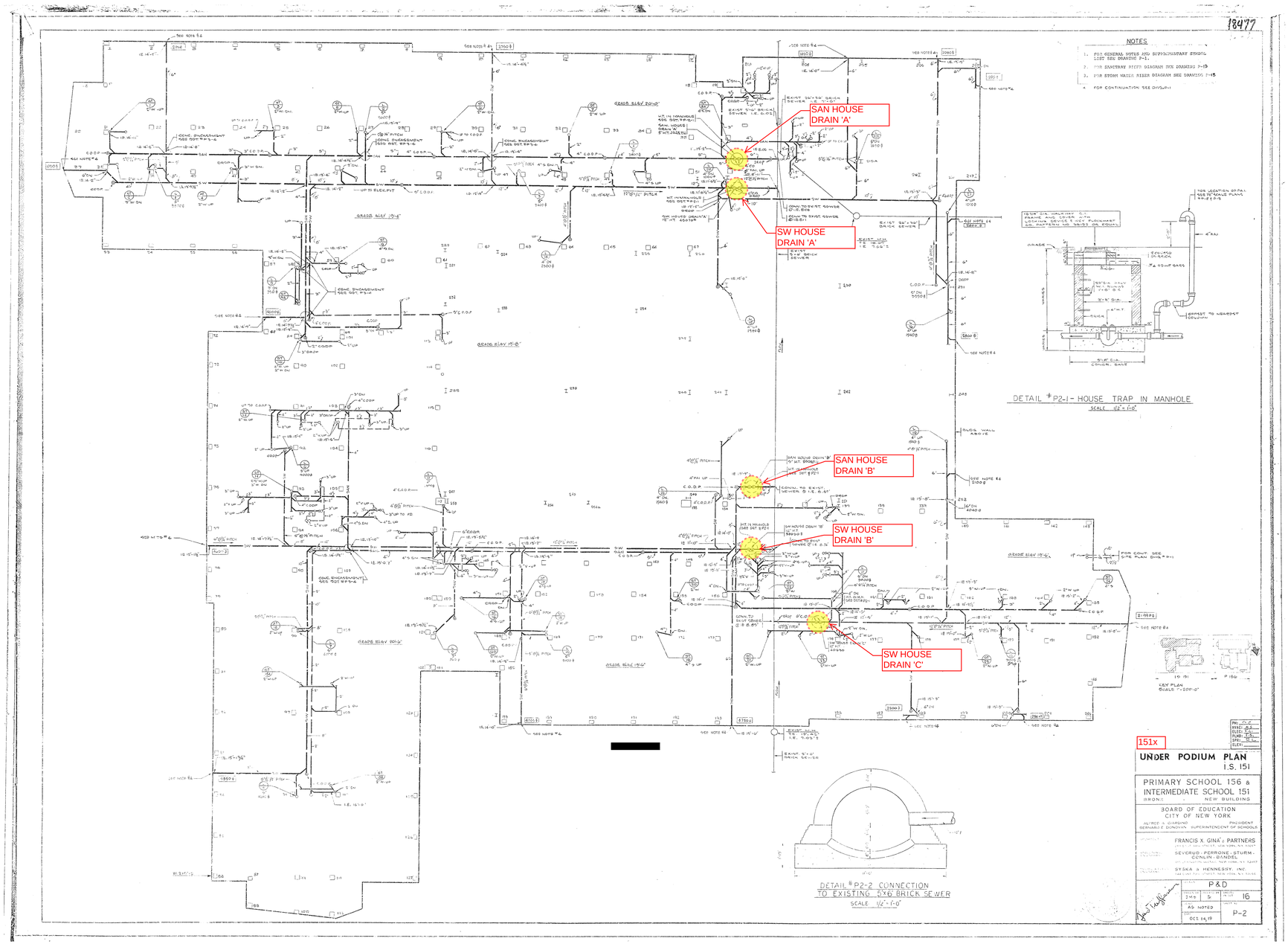
If you have any questions, please contact me at (718) 482-4891 or send me an e-mail: smmartin@gw.dec.state.ny.us

Sincerely,

Sondra Martinkat
Project Manager

ec: J. O'Connell, R. Cozzy – NYSDEC
D. Hettrick - NYSDOH
L. Guterman – SCA
B. Orlan - NYC DOE
G. Gideon – ATC

ATTACHMENT B
PLUMBING SYSTEM UPGRADE DRAWINGS



1 P502 EXISTING PLUMBING UNDER X151 PODIUM PLAN - FOR REFERNCE ONLY
SCALE:1/16" = 1'-0"

Acting President & CEO
Lorraine Grillo

Board of Trustees
Chancellor Joel I. Klein, Chairman
Curtis A. Harris
Emily A. Youssouf

SCA NYC School Construction Authority

Architecture & Engineering

E. Bruce Barrett, R.A. LEED A.P., Vice President
Elan R. Abneri, P.E., Director, Consultant Management
Stanley Dahir, R.A., Director, Quality Control & Construction Support
Maria A. Gómez, P.E., LEED A.P., Director, A&E In-House Design
George D. Roussey, P.E., LEED A.P., Director, Technical Standards
Stacey Spann-Thom, Director, Operations Support

Consultants:

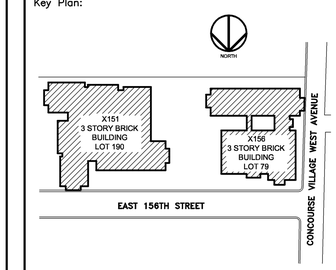
FLETCHERTHOMPSON
ELEVATING DESIGN | SHAPING SOLUTIONS
345 SEVENTH AVENUE, SUITE 15N
NEW YORK, NY 10001
212.695.4767

LILKER ASSOCIATES CONSULTING ENGINEERS, PC
1001 AVENUE OF THE AMERICAS
NEW YORK, NY 10018
212.695.1000

NOTE: Drawing may be printed at reduced scale

No.	Date	Revision
1	11/16/2010	ISSUED FOR BID

Key Plan:



Block # 2443 Lot # 79 & 190

SCA Design Manager:	PRATIMA MALHOTRA
Project Architect/Engineer:	B. LILKER
Discipline Lead:	E. BETSER
Designer:	B. BARKOVITZ
Drawn by:	B. BARKOVITZ
Checked by:	E. BETSER

Design No.:	Facility Code:	Date:
D013054	X151 & X156	11/16/10

Project:
IS 151 AT X151 & PS389 AT X156
CMU WALLS & CONCRETE CEILING BEAMS & FLOOD ELIMINATION
Address:
250 EAST 156 STREET &
750 CONCOURSE VILLAGE WEST AVENUE
BRONX, NY 10451

Drawing Title:
PLUMBING EXISTING UNDER X151 PODIUM PLAN FOR REFERNCE ONLY

Drawing No.:
P502.00

Sheets in Contract Set:
046 of 064

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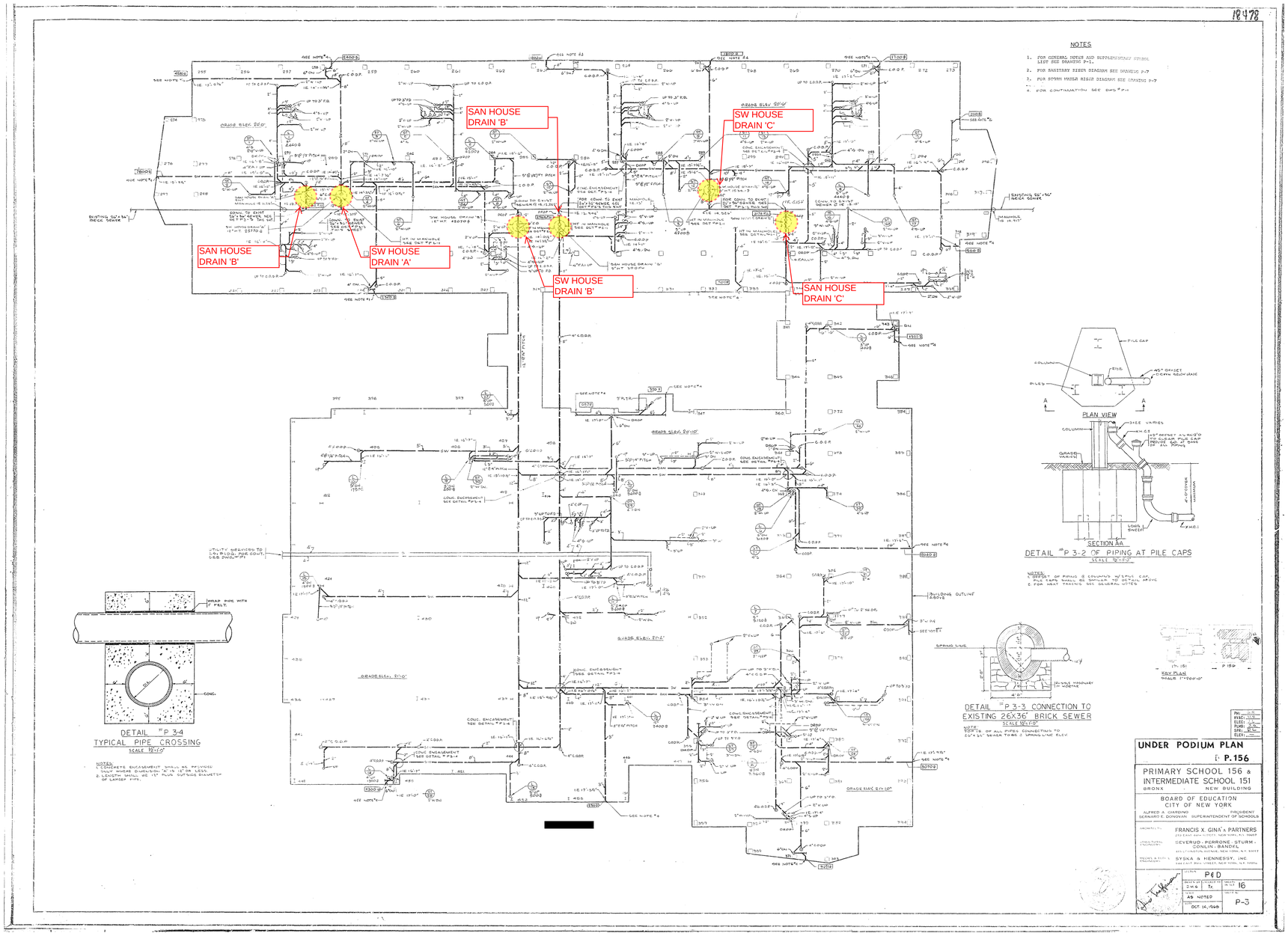

1 / P503 EXISTING PLUMBING UNDER X156 PODIUM PLAN - FOR REFERNCE ONLY
SCALE:1/16" = 1'-0"

Acting President & CEO
Lorraine Grillo

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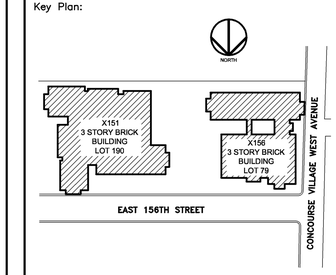
1001 AVENUE OF THE AMERICAS
NEW YORK, NY 10018
212.695.1000

NOTE: Drawing may be printed at reduced scale

No.	Date	Revision
1	11/16/2010	ISSUED FOR BID

Key Plan:



Block # 2443 Lot # 79 & 190

SCA Design Manager:	PRATIMA MALHOTRA
Project Architect/Engineer:	B. LILKER
Discipline Lead:	E. BETSER
Designer:	B. BARKOVITZ
Drawn by:	B. BARKOVITZ
Checked by:	E. BETSER

Design No.:	Facility Code:	Date:
D013054	X151 & X156	11/16/10

Project:
IS 151 AT X151 & PS389 AT X156
CMU WALLS & CONCRETE CEILING
BEAMS & FLOOD ELIMINATION
Address:
250 EAST 156 STREET &
750 CONCOURSE VILLAGE WEST AVENUE
BRONX, NY 10451

Drawing Title:
PLUMBING EXISTING UNDER
X156 PODIUM PLAN
FOR REFERNCE ONLY

Drawing No.:
P503.00

Sheets in Contract Set:
047 of 064

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Attachment 8
Training Acknowledgement

ATC ASSOCIATES INC.

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

Annual Training Acknowledgement
Engineering Controls Operation and Maintenance

Location: X790 Mott Haven Campus

Custodian/Fireman: Anthony Marciano

I, Anthony Marciano, received annual refresher training on Engineering Controls Operation and Maintenance by ATC Associates, Inc. on 2/23/12. As part of the annual refresher training I conducted a walkthrough with ATC Associates, Inc. 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: Anthony Marciano
Custodian/Fireman

Date: 2/23/12

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

Annual Training Acknowledgement
Engineering Controls Operation and Maintenance

Location: X790 Moff Haven Campus

Custodian/Fireman: Albert J. Andreano

I, Albert J. Andreano received annual refresher training on Engineering Controls Operation and Maintenance by ATC Associates, Inc. on 2-23-12. As part of the annual refresher training I conducted a walkthrough with ATC Associates, Inc. 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: _____ **Date:** 2-23-12
Custodian/Fireman