CONSTRUCTION SUBMISSION

NYC Green Schools Rating System

P.S. 49 Queens Addition
63-60 80th St (btw Juniper Blvd S & Penelope)
Middle Village, NY 11379
LLW# 089232
Architect: John Ciardullo Associates, P.C.
24 May 2018**, 29 June Revision**

Table of Contents

SCA School Construction Authority

Project Checklist - page 1 of 2

NYC Green Schools Rating System 2009

			SD	DD	60%	100%	Const
Project:	P.S. 49 Queens Addition	Submission (Check one):					X
Address | Zip Code:	63-60 80th St, Middle Village, NY 11379	Submission Date:	24 May 2018, Revised 25 June 2018				
LLW #:	89232						
Design #:		Reviewer :					
Architect:	John Ciardullo P.C.	Reviewer Sign Off:					

Credit Names	BD&C Reference LEED for Schools 2009	CHPS Reference	NYC GSG 2009	Credit Description and Relevant Information and Drop-Down Menus	RPC (check project zipcode in GSG) [5]	Required For all Projects	Required if Feasible [1]	Optional Credits [2]	If Anticipated, or if Documented: [3] Enter point value, or leave blank if Not Feasible or if Not Pursued: Design Phase	If Anticipated, or if Documented: [3] Enter point value, or leave blank if Not Feasible or if Not Pursued: Construction Phase	Auto Filled: Blank if Pursued, No. of Points if Not Pursued or if Not Feasible or Additional Credit Not Pursued
Site				**31% of Total Points**					**Points: 13 out of 19**		
	SS Pr 1		S 1.1R	**Construction Activity Pollution Prevention**		NP	☑ YES		Credit Req'd - Confirm Pursuit		
	SS 1		S 1.2R	**Site Selection**		1			1		
		1.1.7	S 1.3	**Sustainable Site & Building Layout**		NP	☑ YES		Indicate Pursuit		☐ NO
Site Selection	SS 2		S 1.4	**Development Density & Community Connectivity**			4		4		
	SS 10	1.1.2	S 1.5R	**Joint Use of Facilities, Community Access**		1			1		
	SS Pr 2		S 1.6R	**Environmental Site Assessment**		NP	☑ YES		Credit Req'd - Confirm Pursuit		
	SS 3		S 1.7	**Brownfield Redevelopment**			1			NF	1
	SS 4.1		S 2.1	**Alternative Transportation,** Public Transportation Access			4		4		
Transportation	SS 4.2		S 2.2	**Alternative Transportation,** Bicycle Storage & Changing Rooms			1		NF		1
	SS 4.3/4.4		S 2.3R	**Alternative Transportation,** Fuel-Efficient Vehicles/Parking Cap.		2			2		
Minimize Impact on Site	SS 5.1		S 3.1	**Site Development,** Protect or Restore Habitat	RPC		1			NF	1
	SS 5.2		S 3.2	**Site Development,** Maximize Open Space			1		NF		1
Stormwater Design	SS 6.2		S 4.1	**Stormwater Design,** Quality Control			1		NF		1
Heat Island Effect	SS 7.2		S 5.1	**Heat Island Effect,** Roof			1		1		
Outdoor Lighting	SS 8		S 6.1R	**Light Pollution Reduction**		1					1
				Site Category Sub-Total:		5	14		13	0	6
Water				**7% of Total Points**					**Points: 3 out of 8**		
Outdoor Systems	WE 1.1		W 1.1	**Water Efficient Landscaping,** Reduce by 50%			2		NF		2
	WE 1.1		W 1.2	**Water Efficient Landscaping,** No Potable Water Use or Irrigation			2		NF		2
Indoor Systems	WE Pr 1		W 2.1R	**Minimum Water Use Reduction,** 20% Reduction	RPC	NP	☑ YES		Credit Req'd - Confirm Pursuit		
	WE 3		W 2.2	**Enhanced Water Use Reduction,** 30% Reduction		2			2		
	WE 3		W 2.3	**Enhanced Water Use Reduction,** 35% Reduction		1			1		
	WE 3		W 2.4	**Enhanced Water Use Reduction,** 40% Reduction			1		NF		1
				Water Category Sub-Total:		3	5		3		5
Energy				**7% of Total Points**					**Points: 3 out of 7**		
Commissioning	EA Pr 1		E 1.1R	**Fundamental Commissioning**		NP	☑ YES		Credit Req'd - Confirm Pursuit		
	EA 3		E 1.2R	**Enhanced Commissioning**		2					2
Refrigerant Management	EA Pr 3		E 2.1R	**Fundamental Refrigerant Management**		NP	☑ YES		Credit Req'd - Confirm Pursuit		
	EA 4		E 2.2	**Enhanced Refrigerant Management**			2		NF		2
Verification	EA 5		E 3.1R	**Measurement & Verification**		1				1	
		3.3.5	E 3.2R	**Energy Management System Controls,** HVAC & H. W. Systems		NP	☑ YES		Indicate Pursuit		☐ NO
Energy Efficiency	EA Pr 2		E 4.1R	**Minimum Energy Performance**		NP	☑ YES		Credit Req'd - Confirm Pursuit		
		3.1.2	E 4.2R	**HVAC System Sizing,** Avoid Oversizing		NP	☑ YES		Indicate Pursuit		☐ NO
Power	EA 6		E 5.1R	**Green Power**		2				2	
				Energy Category Sub-Total:		5	2		0	3	4
Materials				**10% of Total Points**					**Points: 4 out of 10**		
	MR Pr 1		M 1.1R	**Storage & Collection of Recyclables**		NP	☑ YES		Credit Req'd-Confirm Pursuit		
	MR 1.1		M 1.2	**Building Reuse,** Maintain 75% of Existing Walls, Floors & Roof	RPC		1			NF	1
	MR 1.1		M 1.3	**Building Reuse,** Maintain 95% of Existing Walls, Floors & Roof			1			NF	1
Efficient Material Use	MR 1.2		M 1.4	**Building Reuse,** Maintain 50% of Interior Non-Structural Elements			1			NF	1
	MR 2		M 1.5R	**Construction Waste Management,** Divert 50% from Disposal		1				1	
	MR 2		M 1.6	**Construction Waste Management,** Divert 75% from Disposal			1			1	
	MR 2		M 1.7	**Construction Waste Management,** Divert 95% from Disposal			1			NF	1
	MR 4		M 2.1R	**Recycled Content,** 10% (post-consumer + ½ pre-consumer)		1				1	
	MR 4		M 2.2	**Recycled Content,** 20% (post-consumer + ½ pre-consumer)			1			NF	1
Sustainable Materials	MR 5		M 2.3	**Regional Materials,** 10% Extracted, Processed & Manufactured			1			1	
	MR 5		M 2.4	**Regional Materials,** 20% Extracted, Processed & Manufactured			1			NF	1
		4.1.1	M 2.5R	**Wallboard & Roof Deck Products,** Mold Resistance		NP	☑ YES		Indicate Pursuit		☐ NO
		7.2.3	M 2.6R	**Low-Mercury Lighting,** Reduce Mercury Waste		NP	☑ YES		Indicate Pursuit		☐ NO
See Notes on Page 2 of 2				Materials Category Sub-Total:		2	8			4	6

Project Checklist - page 2 of 2

SCA School Construction Authority
NYC Green Schools Rating System 2009

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Address | Zip Code:	63-60 80th St, Middle Village, NY 11379	Submission Date:	24 May 2018, Revised 25 June 2018				
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Indoor Environmental Quality	**33%**	**of Total Points**				**Points:**			**14**	**out of**	**17**
IAQ Post-occupancy	IEQ Pr 1		Q 1.1R	**Minimum IAQ Performance**		NP	☑ YES		Credit Req'd - Confirm Pursuit		
	IEQ 2		Q 1.1R	**Increased Ventilation** (included in Q 1.1R credit language)		1			1		
	IEQ 1		Q 1.2R	**Air Flow Stations,** Outside Air Intakes		1			1		
IAQ Pre-occupancy	IEQ 3.1		Q 2.1R	**Construction IAQ Management Plan,** During Construction		1				1	
	IEQ 3.2		Q 2.2R	**Construction IAQ Management Plan,** Before Occupancy		1				1	
Low-Emitting Materials	IEQ 4.1		Q 3.1R	**Low-Emitting Materials,** Adhesives & Sealants [4]		1				1	
	IEQ 4.2		Q 3.2R	**Low-Emitting Materials,** Paints & Coatings [4]		1				1	
	IEQ 4.3		Q 3.3R	**Low-Emitting Materials,** Flooring Systems [4]		1				1	
	IEQ 4.4		Q 3.4R	**Low-Emitting Materials,** Comp Wood & Agrifiber Products [4]		1				1	
Pollution Source Control	IEQ 5		Q 4.1R	**Indoor Chemical & Pollutant Source Control**		1			1		
		5.3.5	Q 4.2R	**Electric Ignition Stoves**		NP	☐ YES		Indicate Pursuit		☑ NO
		6.2.4	Q 4.3R	**Provide HEPA Vacuums**		NP	☑ YES		Indicate Pursuit		☐ NO
Controllability of Systems	IEQ 6.1		Q 5.1R	**Controllability of Systems,** Lighting		1			1		
	IEQ 6.2		Q 5.2R	**Controllability of Systems,** Thermal Comfort		1			1		
Thermal Comfort	IEQ 7.1		Q 6.1R	**Thermal Comfort,** Comply with ASHRAE 55-2004		1			1		
Lighting and Views	IEQ 8.1		Q 7.1	**Daylight & Views,** Daylight 75% of Classrooms			1		NF		1
	IEQ 8.1		Q 7.2	**Daylight & Views,** Daylight for 90% of Classrooms			1		NF		1
	IEQ 8.1		Q 7.3	**Daylight & Views,** Daylight for 75% of Other Spaces			1		NF		1
	IEQ 8.2		Q 7.4	**Daylight & Views,** Views			1		1		
		5.2.1	Q 7.5	**Visual Performance,** Artificial Direct-Indirect Lighting		NP	☐ YES		Indicate Pursuit		☑ NO
Acoustics	IEQ Pr 3	5.5.1	Q 8.1R	**Minimum Acoustical Performance**		NP	☑ YES		Credit Req'd - Confirm Pursuit		
	IEQ 9		Q 8.2	**Enhanced Acoustical Performance** & Sound for Special Spaces		1			1		
		SCA	Q 8.3	**Acoustic Windows**		NP	☐ YES		Indicate Pursuit		☑ NO
				IEQ Category Sub-Total:		13	4		8	6	3
Regional	**0%**	**of Total Points**	Use pull-down menus ↘	**RPC Claimed**		**Points:**			**0**	**out of**	**4**
Regionally Appropriate [5]	RP 1.1	R 1.1	**Regionally Defined Credit Achieved**	**WEc2 (NF/SCA)**			1		0		0
	RP 1.2	R 1.2	**Regionally Defined Credit Achieved**	**Blank**			1		0		1
	RP 1.3	R 1.3	**Regionally Defined Credit Achieved**	**Blank**			1		0		1
	RP 1.4	R 1.4	**Regionally Defined Credit Achieved**	**Blank**			1		0		1
				Regional Category Sub-Total:		0	4	0	0		3
Additional Credits	**12%**	**of Total Points**	For A 3.1 Use pull-down menu ↓			**Points:**			**5**	**out of**	**30**
Innovation in Design	ID 2	A 1.1R	**LEED® Accredited Professional**			1			1		
	ID 1	A 1.2	**Innovation or Exemplory Performance (Active Design)**					1			1
	ID 1	A 1.3	**Innovation or Exemplory Performance**					1			1
Optional - Site Impact	SS 7.1	A 2.1	**Heat Island Effect,** Non-Roof					1			1
	SS 6.1	A 2.2	**Stormwater Design,** Quantity Control		RPC			1			1
Optional - Energy	EA 1	A 3.1	**Optimize Energy Performance** [6]	**New 18%, Existing 14%, 4 pts**	RPC			15	4		11
	EA 2	A 3.2	**On-Site Renewable Energy**	**If NOT Approved, 0 pts**	RPC			7		0	7
Optional - IEQ	IEQ 4.5	A 4.1	**Low-Emitting Materials,** Furniture and Furnishings [4]					1			1
	IEQ 4.6	A 4.2	**Low-Emitting Materials,** Ceiling and Wall Systems [4]					1			1
Optional - Education	ID 3	A 5.1	**The School Building as a Teaching Tool**					1			1
				Additional Credit Category Sub-Total:		1		29	5	0	25
				Column Totals:		29	37	29	29	13	52
				LEED® Equivalent Point Total [7]:					42	out of	95

SCA Credit Name :
- Letter prefix indicates credit section (S, W, E, M, Q, R, A)
- First number indicates the category within the section
- Second number indicates the specific credit within the section category
- Suffix "R" is added for credits that are required of all projects

1 Projects required to achieve all "feasible" credits that are possible for a particular project.
2 Projects may only pursue optional "Additional" section credits with permission from SCA unless otherwise noted.
3 During GSG submission phases, enter anticipated design and construction credits, keeping the Checklist current.
4 A maximum total value of four (4) points is allowed between these six low-emitting material credits (Q3.1, 3.2, 3.3, 3.4; A5.1, 5.2)
5 RPC incentive regional credits as indicated. If the referenced credit is achieved, then the associated RPC can be claimed.
6 This credit requires project-specific energy modeling and can not be achieved by use of proto-typical modeling.
7 LL86/05 requires Certified LEED® 2009 for Schools or equivalent of a no-less stringent rating system - Minimum 40-49 Points

NP: To be consistent with LEED®, the NYC GSG assigns no point value to credits based on prerequisites or non-LEED® credits.
NYC GSG: Requires that all credits be attempted and proof through calcuation for those which are not-feasible.
NYC GSG: PENDING = Has been reviewed for equivalence to LEED® for Schools 2009 through the Mayor's Office of Environmental Coordination.

School Construction Authority

NYC Green Schools Rating System

Credit Compliance Narratives

P.S. 49 Queens Addition
Address: 63-60 80th, Middle Village, NY 11379
LLW #: 089232
Design #:

Date: 24 May 2018**, Revised 29 June 2018**
Architect: John Ciardullo, P.C.
Submission: Construction
Reviewer:
Reviewer Sign Off:

Site Credits

Site Selection

S 1.1R Construction Activity Pollution Prevention

SCA GSG committee indicated, in 22Jun2018 meeting minutes, that credit documented.

Due to the fact that the site discharges to a combined city sewer, a NYS DEC SPDES General Permit (GP-0-10-001) and preparation of a Storm Sewer Pollution Prevention Plan (SWPPP) is not required. However, as a Best Management Practice (BMP), a Soil Erosion and Sediment Control Plan have been prepared and included in the Contract Documents. The total renovated project site area is 23,390 sf including renovated sidewalks but not existing building or existing sidewalks.

This Soil Erosion and Sediment Control Plan has been provided on drawing A041 to satisfy the requirements of the SCA's NYC Green School Guide. The plan involves notes, descriptions, and details (drawing A050) of the necessary controls. A plan has been developed for the specific scheme chosen. Silt fencing, storm drain inlet protection, protection of existing vegetation, and a temporary stabilized construction entrance is indicated for this project.

In addition to implementing the Erosion and Sediment Control Plan the Contractor, Darcon Construction Inc provided a dust control plan that covers the exterior environment of the building; an additional dust control plan was provided by the construction contractor, EW Howell, for the interior of the building. Refer to Appendix A for the dust control plan and documentation of erosion & sediment control implementation, and Appendix B for the Construction Phase Certification form.

S 1.2R Site Selection

SCA GSG committee indicated credit as anticipated at the 16 September 2014 meeting.

Credit was documented and accepted during Design Phase submissions and there is no documentation that requires an update.

S 1.3 Sustainable Site & Building Layout

SCA GSG committee indicated credit as anticipated at the 16 September 2014 meeting.

Credit was documented and accepted during Design Phase submissions and there is no documentation that requires an update.

S 1.4 Development Density & Community Connectivity

SCA GSG committee indicated credit as anticipated at the 16 September 2014 meeting.

Credit was documented and accepted during Design Phase submissions and there is no documentation that requires an update.

S 1.5R Joint Use of Facilities, Community Access

SCA GSG committee indicated credit as anticipated at the 16 September 2014 and 12 March 2015 meetings.

Credit was documented and accepted during Design Phase submissions and there is no documentation that requires an update.

S 1.6R Site Assessment

SCA GSG committee indicated credit as anticipated at the 16 September 2014 and 12 March 2015 meetings.

A Phase I Environmental Site Assessment (ESA) was performed by GZA GeioEnvironmental of New York on 24 November 2013.The Phase I ESA identified no on-site Recognized Environmental Conditions (RECs) or Vapor Encroachment Conditions (VECs), but has identified off-site RECs in proximity to the site that included two dry cleaners and a historic dry cleaner/rug cleaner, and environmental concerns associated with the potential presence of asbestos containing material (ACM), interior and exterior lead-based paint (LBP) and polychlorinated biphenyls (PCBs)-containing light ballasts and caulking material. A Phase II ESI was recommended to determine whether the identified RECs and VECs have affected the site subsurface.

Please see the following Executive Summary from the Phase I ESA report:

1.0 EXECUTIVE SUMMARY

At the request of the Industrial and Environmental Hygiene (IEH) Division of the New York City School Construction Authority (NYCSCA), GZA GeoEnvironmental of New York (GZA) conducted a Phase I Environmental Site Assessment (ESA) of the proposed second addition to Primary School (P.S.) 49 (hereafter referred to as the "Site"). The NYCSCA is proposing to construct a 20,000 gross square feet (SF) addition to existing P.S. 49 located at 63-60 80th Street in Middle Village, New York (Borough of Queens Block 2990, Lot 45). The Site area is primarily characterized by residential, recreational and institutional use.

As indicated in the NYCSCA Test Fit/Sketch Study dated November 26, 2013, the Site is situated on an approximately 5,000-SF portion of the property, located in the northwest corner of the P.S. 49 school property and adjoining the recent addition to the P.S. 49 building to the west. The Site is currently occupied by a school yard consisting of a grassy area and an open paved play area. The adjoining properties are P.S. 49 (main school building and addition) to the east and south, residences, and a public park. The Site can be accessed from Penelope Avenue and the main school building's primary entrance is on Juniper Boulevard South. P.S. 49 is an active public school located on an approximately 59,030-SF lot and is a three-story building with a partial basement that was constructed in the 1930s with an addition built in 2007.

The main objective of the Phase I ESA is to identify recognized environmental conditions (RECs) and environmental concerns that may affect the suitability of the Site for use as a school. RECs are defined in American Society of Testing and Materials (ASTM) Standard Practice E 1527-13 as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property. Note that controlled recognized environmental conditions (CRECs) are considered to be RECs and are listed in the Executive Summary and Conclusions of this Phase I ESA. Additionally, vapor encroachment conditions (VECs) were evaluated as per ASTM E 2600-10.

Other environmental issues and conditions that, in the opinion of the *environmental professional* conducting the assessment, would not be considered *RECs* are identified in this assessment. These may include *historical RECs, and*/or *de minimis* conditions. The Phase I ESA also includes a preliminary evaluation of specific potential environmental issues or conditions that are, according to ASTM E 1527-13, considered non-scope considerations. These issues include radon, asbestos-containing material (ACM), polychlorinated biphenyl (PCB) -containing light ballasts and caulking materials, exterior lead-based paint (LBP), chemical storage, wetlands, regulatory compliance issues, dry cleaner and other industrial emissions, mold, biological agents, electromagnetic fields, and methane. The Phase I ESA included a review of federal, state, and local records, previous reports (if available) and historical documents; visual observation of the Site and adjoining properties; and interviews with selected Site representatives.

The assessment requested by the NYCSCA is intended to identify conditions that would have the potential to impact the value of the Site or the development and use of the Site as a public school facility. The assessment was also conducted for purposes of environmental due diligence in order to qualify for the innocent landowner, a bona fide prospective purchaser or a contiguous property owner defense under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA). The Phase I ESA included evaluation of the following: current and historical Site usage; current and historical usage of adjoining properties; regulatory agency records review; on-site solid waste management and disposal practices; on-site hazardous materials and petroleum products management; chemical storage, ACM, PCBs and exterior LBP management; wetlands; regulatory compliance issues; dry cleaner and other

industrial emissions; radon; mold and moisture intrusion; biological agents; electromagnetic fields; and potential for methane generating materials.

Summary of RECs, Vapor Encroachment Concerns (VECs) and Environmental Concerns

This Phase I ESA has revealed the following RECs and/or VECs associated with the Site:

On-Site RECs/VECs:

- None.

Off-Site RECs/VECs:

- Two confirmed dry cleaners and a historic dry cleaner/rug cleaner located downgradient/crossgradient of the Site and within 1/3 of a mile of the Site.

This Phase I ESA has revealed the following environmental concerns associated with the Site:

- Suspect ACM may be present and this is considered an environmental concern.
- Fluorescent light fixtures were observed throughout the adjacent Site building during the Site inspection. The fluorescent light ballasts may contain PCBs. The potential presence of PCB-containing ballasts is considered an environmental concern.
- PCB-containing caulking may be present. The potential presence of PCB-containing caulking is considered an environmental concern.
- The painted surfaces may contain lead and LBP is considered an environmental concern. Additionally, the presence of damaged suspect LBP is also considered an environmental concern.

Recommendations

Based on the findings of the Phase I ESA, GZA recommends that a Phase II Environmental Site Investigation be performed at the Site, which includes subsurface soil and soil gas samples, to evaluate whether the identified RECs/VECs have affected the suitability of the Site for use as a public school facility.

Since partial demolition of the existing school addition will take place during construction of the new addition, GZA also recommends that any ACM, LBP and PCB-containing light ballasts and window caulk affected by future demolition at the Site be identified and properly managed during such activities.

A Phase II Environmental Site Assessment (ESA) was performed by GZA GeioEnvironmental of New York on 15 & 19 January 2014.

Please see the following Executive summary from the Phase II Environmental Site Investigation Report:

EXECUTIVE SUMMARY

At the request of the New York City School Construction Authority (NYCSCA), GZA GeoEnvironmental of New York (GZA) conducted a Phase II Environmental Site Investigation (ESI) at the area designated as the location of a proposed second addition to Primary School (P.S.) 49 (hereafter referred to as the "Site"). The Site is located at 63-60 80th Street in Middle Village, New York (Borough of Queens Block 2290 and Lot 45) in an area that is primarily characterized by residential, recreational and institutional use. The Site is situated on an approximately 5,000-SF portion of the property, located in the northwest corner of the P.S. 49 school property and adjoining the recent addition to the P.S. 49 building to the west. The Site is currently occupied by a school yard consisting of a grassy area and an open paved play area. The adjoining properties are P.S. 49 (main school building and addition) to the east and south, residences, and a public park. The Site can be accessed from Penelope Avenue and the main school building's primary entrance is on Juniper Boulevard South. P.S. 49 is an active public school located on an approximately 59,030-SF lot and is a three-story building with a partial basement that was constructed in the 1930s with an addition built in 2007. Historical use of the Site is primarily play yard for a school and surrounding properties were used for residential, recreational, and institutional purposes.

GZA previously performed a Phase I Environmental Site Assessment (ESA) of the Site for the NYCSCA. The Phase I ESA Report, dated December 26, 2013, identified no on-Site Recognized Environmental Conditions (RECs) or Vapor Encroachment Conditions (VECs). The Phase I ESA Report identified off-site RECs in proximity to the Site that included two dry cleaners and a historic dry cleaner/rug cleaner. Additionally, the Phase I ESA Report identified environmental concerns associated with the potential presence of asbestos containing material (ACM), interior and exterior lead-based paint (LBP) and polychlorinated biphenyls (PCBs)-containing light ballasts and caulking material.

The purpose of the Phase II ESI was twofold: 1) evaluate if the RECs, VECs, and environmental concerns identified in the Phase I ESA Report require special consideration and/or affect the suitability of the Site for use as a public school facility, and 2) preliminarily characterize the environmental condition of the soil anticipated to be excavated for construction of the new school facility. The conclusions and recommendation of this report only apply to the Site as defined as the 5,000 SF footprint of the proposed addition.

The Phase II ESI field activities were performed on January 15, 2014 and January 19, 2014, and consisted of a geophysical survey, the completion of three soil borings and the collection and analysis of three soil samples and three soil vapor samples.

Based on the results of the Phase II ESI, the following can be concluded:

- The geophysical survey did not reveal evidence of utilities or buried structures in the vicinity of the soil borings, or potential underground storage tanks (USTs) on the accessible portions of the Site.

- Soils observed during soil sampling were primarily fine to medium sand, silty sand and silt with gravel. Evidence of fill material in the form of brick fragments and concrete was observed in two of the three borings on-Site.

- One volatile organic compound (VOC), benzene, was detected in one soil vapor sample at a concentration above the range of New York State published background levels. The detection of the VOC in soil vapor is related to an off-site source in the surrounding area since there is no

corresponding detection of this compound in soil samples collected on-Site, no historic record of benzene use on-Site, and potential benzere sources have been identified in the surrounding area.

- The metal lead was detected at a concentration above Unrestricted Use Soil Cleanup Objectives (SCOs) in one soil sample and zinc was detected at a concentration above SCOs in a second soil sample. These metals are typically encountered in urban fill material which as was observed at the Site.

- Two pesticide compounds (4,4'-DDT and 4,4'-DDE) were detected in pre-design waste characterization sample at concentrations above Unrestricted Use SCOs. The pesticide exceedances detected are most likely attributed to urban fill or historic use on-Site in this landscaped area.

To address the RECs, VECs, and environmental concerns that require special considerations and/or affect the suitability of the Site for use as a school facility, GZA recommends the following:

- As a standard NYCSCA practice, a soil vapor barrier should be integrated into the new building's design.

- All material excavated during construction activities should be properly characterized and disposed, including collection and analysis of samples required by the contractor-selected disposal facilities.
- After the proposed new building and grounds are constructed, any exposed soil (landscaped areas) should be covered with at least two feet of environmentally clean fill.
- Suspect ACM, LBP, and/or PCB-containing materials should be properly managed during construction or demolition activities for any portions of the work that will come in contact with the existing school, immediately adjacent to the Site.

A description of the recommended engineering controls including a remediation cost estimate is included in *Appendix F.*

As a standard SCA practice, a soil vapor barrier will be integrated into the new building design as per drawings H201-H202. The project team has also incorporated the specification Section 02200, Earthwork, into the construction documents.

A small amount of remediation was required, but does not meet the requirements to achieve Credit S1.7.

See below for the no remediation required documentation and Appendix B for the Construction Phase Certification form.

REVIEWED FOR SUBMISSION
PS /IS 49 Queens
SCA Contract #: C000014133
EWHOWELL
Submittal # S01352-003-001
10/20/17

October 20, 2017

PS 49Q

63-60 80th Street
Middle Village, NY 11379

RE: Green School Guidelines – S1.6R

To whom it may concern,

This letter is to confirm that no brownfield remediation is required for this project.

Thank you,

Molly Rooney

Molly Rooney, LEED AP BD+C

EW Howell
Assistant Project Manager

S 1.7 Brownfield Redevelopment

SCA GSG committee indicated agreement that the credit is not feasible at the 16 September 2014 and 12 March 2015 meetings.

See Sc1.6R above for the contamination status narrative and executive summary of the Phase II Environmental Site Assessment Report.

As a standard SCA practice, a soil vapor barrier will be integrated into the new building design. The project team has also incorporated the specification Section 02200, Earthwork, into the construction documents on drawings H201 and H202.

See above in S1.6R for the no remediation required documentation and Appendix B for the Construction Phase Certification form.

Transportation

S 2.1 Alternative Transportation, Public Transportation Access

SCA GSG committee indicated credit as anticipated at the 16 September 2014 and 12 March 201**5** meetings.

Credit was documented and accepted during Design Phase submissions and there is no documentation that requires an update.

S 2.2 Alternative Transportation, Bicycle Storage & Changing Rooms

GSG committee declares this credit as not pursued at 12 March 2015 meeting as no showers are provided.

Credit was documented and agreed to as not feasible during Design Phase submissions and there is no documentation that requires an update.

S 2.3R Alternative Transportation, Fuel-Efficient Vehicles/Parking

SCA GSG committee indicated credit as anticipated at the 16 September 2014 and 12 March 2015 meetings.
Option 1, no new parking, will be pursued.

Credit was documented and accepted during Design Phase submissions and there is no documentation that requires an update.

Minimize Impact on Site

S 3.1 Site Development, Protect or Restore Habitat

SCA GSG committee indicated agreement that the credit is not feasible at the 16 September 2014 meeting.

As currently designed, the project will be unable to comply with the requirements of this credit due to constraints of the site area and the desire to maximize the undersized student recreation space. The credit guidelines would require the project to include a minimum of 6,910 sf of native or adapted vegetation which is not possible based on the renovated site program. Currently, the renovated site design contains approximately 2,345 sf of planted area, and does not have a vegetated roof.

Refer to Appendix B for the Construction Phase Certification form.

S 3.2 Site Development, Maximize Open Space

In order to comply with this credit, the project must provide vegetated open space equal to at least 20% of the project's site area, excluding the building footprint. Since this project is located in an urban area and will be achieving S1.4, pedestrian-oriented hardscape can contribute to this credit if a minimum of 25% of the open space is vegetated.

This would require an open area of 2,764sf minimum, of which 691sf must be vegetated. The open space (including play yard) and vegetated areas of the following schematic design well exceed the required thresholds, but the proposed vegetation is grass which is not considered native/adaptive and thus this credit is not earned.

Renovated Site Area only (incl. new building addition, school yard, proposed sidewalks, proposed permeable paving areas & tree pits; does not include existing buildings and sidewalks to remain)	**22,308**	**Scaled from 60% CD drawings 17Dec2014**
Building Footprint Existing (Main Only)	**30,151**	**Scaled from 60% CD drawings 17Dec2014**
Building Footprint Proposed	**8,487**	**Scaled from 60% CD drawings 17Dec2014**
Building Footprint in Renovated Site Area Only	**8,487**	**Existing Building not in renovated site area.**
Renovated Site Area Minus Building Footprint	**13,821**	
20% of Site Area (excl. building footprint)	**2,764**	
25% of 20% Site Area Requiring Vegetation	**691**	
Renovated Site Area Open Space (Pedestrian & Vegetade	**11,475**	**Verified in 21Aug2014 JCA e-mail.**
Green Roof Space	**0**	**Verified in 21Aug2014 JCA e-mail.**
Vegetated Area (proposed + existing to be replaced/maintained in renovated site area)	**2,345**	**Scaled from 60% CD drawings 17Dec2014**

Credit was documented as not feasible during Design Phase submissions and there is no documentation that requires an update.

Stormwater Design

S 4.1 Stormwater Management, Quantity Control

SCA GSG committee agreed credit is not feasible at the 12 November 2014 and 12 March 2015 meetings.

The installed system does not comply with this credit.

Credit was documented and agreed to as not feasible during Design Phase submissions and there is no documentation that requires an update.

Heat Island Effect

S 5.1R Heat Island Effect, Roof

SCA GSG committee indicated credit as anticipated at the 12 November 2014 and 12 March 2015 meetings.

78 Hanover Glacier White Pavers with SRI of 85 provided 13Oct2016.

Outdoor Lighting

S 6.1R Light Pollution Reduction

SCA GSG committee agrees this credit is not feasible at the 12 March 2015 meeting.

Credit was documented and agreed to as not feasible during Design Phase submissions and there is no documentation that requires an update.

Water Credits

Outdoor Systems

W 1.1 Water Efficient Landscaping, 50% Reduction

SCA GSG committee agrees this credit is not feasible at the 12 March 2015 meeting.

Credit was documented and agreed to as not feasible during Design Phase submissions and there is no documentation that requires an update.

W 1.2 Water Efficient Landscaping, No Potable Water Use

SCA GSG committee agrees this credit is not feasible at the 12 March 2015 meeting.

Credit was documented and agreed to as not feasible during Design Phase submissions and there is no documentation that requires an update.

Indoor Systems

W 2.1R Minimum Water Use Reduction, 20% Reduction

SCA GSG committee indicated credit as anticipated at the 12 November 2014 and 12 March 2015 meetings.

Credit was documented and accepted during Design Phase submissions and there is no documentation that requires an update.

W 2.2R Water Use Reduction, 30% Reduction

SCA GSG committee indicated credit as anticipated at the 12 November 2014, 12 March 2015, and 21 May 2015 meetings

Credit was documented and accepted during Design Phase submissions and there is no documentation that requires an update.

W 2.3R Water Use Reduction, 35% Reduction

SCA GSG committee indicated credit as anticipated at the 12 November 2014, 12 March 2015, and 21 May 2015 meetings

Credit was documented and accepted during Design Phase submissions and there is no documentation that requires an update.

W 2.4 Water Use Reduction, 40% Reduction

SCA committee agreed that credit is not feasible.

Credit was documented and agreed to as not feasible during Design Phase submissions and there is no documentation that requires an update.

Energy Credits

Commissioning

E1.1R Fundamental Commissioning

SCA GSG committee indicated credit as anticipated at the 12 November 2014 and 12 March 2015 meetings.

EME Group is providing fundamental commissioning for the project.

SCA noted in 30Mar2018 GSG Construction Submission seminar not to hold up GSG final submission for commissioning deficiencies.

E1.2R Enhanced Commissioning

SCA GSG committee indicated, in 22Jun2018 meeting minutes that Insufficient information to determine credit documentation. This credit will be documented during the Commissioning Certification meeting. CxE is EME.

Refrigerant Management

E2.1R Fundamental Refrigerant Management

SCA GSG Committee indicated credit as feasible at 12 November 2014 and 12 March 2015 meetings.

Credit was documented and accepted during Design Phase submissions and there is no documentation that requires an update.

E2.2 Enhanced Refrigerant Management

SCA GSG committee agrees credit is not feasible at 12 March 2015 meeting.

Credit was documented and agreed to as not feasible during Design Phase submissions and there is no documentation that requires an update.

Verification

E3.1R Measurement and Verification

SCA GSG committee indicated, in 22Jun2018 meeting minutes that insufficient information to determine credit documentation. Contractor to address all FMSI deficiencies.

The projects approach and documentation for the credit has been provided and approved during design. **SCA noted in 30Mar2018 GSG Construction Submission seminar not to hold up GSG final submission for meter deficiencies. SCA**

indicated in 25Jun2018 e-mail that consultant shouldn't wait for FMSI deficiencies resolutions to provide GSG-Construction re-submission; this credit is verified prior certification.

Refer to Appendix B for the Construction Phase Certification form verifying required building systems have been implemented and confirmed by the design engineer.

E3.2R Energy Management System – Controls, HVAC, & Hot Water

GSG committee indicated credit as anticipated at 4 June 2015 meeting.

The School Construction Authority used the services of a Facility Management Systems Integrator (FMSI) whose responsibilities where:

- Evaluate the control submissions made by the HVAC contractor's proposed Temperature Controls subcontractor. Systems Integrator will prepare a report if the proposed Temperature Controls Contractor is rejected by the Systems Integrator.
- Supervise the installation of the field level controls by the controls subcontractor.
- Commission the field level controls as installed by the controls subcontractor.
- Provide the Graphic User Interface (GUI) front-end software and provide schematic control graphics according to SCA Standard Details.
- Turn over all software routines, operation manuals and access codes.
- Provide 40 hours of training for the custodial staff in the operation of the control system.
- Connect the project school to the Department of Education Centralized Host Work Station located at the Department of Education Bureau of Supplies Building.

Energy Efficiency

E4.1R Minimum Energy Performance

GSG committee indicated credit as anticipated at 4 June 2015 meeting.

The Project's goal is complete compliance with NYC Green Schools Guide (GSG) 2009 which will show compliance with NYC Local Law 86/05. It was determined during GSG-DD discussion that project-specific modeling will be required. EME' energy model is being used in determination of compliance with LL86 and this credit of GSG E4.1 but not to demonstrate compliance with Energy Code.

LL86/05 Reporting Form Construction sheet as follows:

Prototypical Compliance Summary		**PS49Q**
Project Name In SEPTS Capital Project Record	Name of Project Phase in SEPTS Capital Project Record	Managing Agency Internal Project Identification # in SEPTS Capital Project Record
PS49Q	N/A	LLW# 089232

Green Building Rating

Green Building Rating System Utilized	Has LocalLaw86@cityhall.nyc.gov been invited to view USGBC application?	Cost Attributable to LEED® or Green Schools 2009 Compliance
NYC Green Schools 2009	No	$117,165

Energy Sources and Utility Rates

Electric Used in Project Area?	Electric Rate Group	Gas for Heating Used in Project Area?	Gas Rate Group for Heating	Gas for Non-Heating Used in Project Area?	Gas Rate Group for Non-Heating	Purchased Steam Used in Project Area?	# 2 Oil Used in Project Area?
Yes	NYPA Public Buildings Conv	Yes	Gas, Firm-Heating.	No		No	No

Is all energy use affected by the work that is subject to LL86 requirements metered independently of other buildings or spaces?	Will the cost of all energy use affected by project work be paid out of the city treasury?
Yes	Yes

Energy Use and Electric Peak Demand

Electric Use Baseline (Kwh/yr)	Electric Use Design Case (Kwh/yr)	Design Case with Unregulated Loads (Kwh/yr)	Electric Peak Demand Baseline (Kw)	Peak Demand Design Case (Kw)	Peak Demand Design Case with Unregulated Loads (Kw)
333,755	235,592	328,512	231.8	172.6	203.3
From Energy Model dated 16June2015	From Energy Model dated 16June2015	From Energy Model dated 16June2015	From Energy Model dated 16June2015	From Energy Model dated 16June2015	From Energy Model dated 16June2015
Regulated only	Regulated only		Regulated only	Regulated only	
			Highest Month	Highest Month	Highest Month

Sum of Monthly Electric Peak Demands Baseline (Kw/yr)	Sum of Monthly Electric Peak Demands Design Case (Kw/yr)	Sum of Monthly Peak Demands Design Case with Unregulated Loads (Kw/yr)	Gas Use for Heating Baseline (therms/yr)	Gas Use for Heating Design Case (therms/yr)	Gas Use for Heating Design Case with Unregulated Loads (therms/yr)
1,664.5	1,231.7	1,600.9	7,636	7,475	13,257
From Energy Model dated 16June2015	From Energy Model dated 16June2015	From Energy Model dated 16June2015	From Energy Model dated 16June2015	From Energy Model dated 16June2015	From Energy Model dated 16June2015
Regulated only	Regulated only		Regulated only	Regulated only	

Gas Use for Non-Heating Baseline (therms/yr)	Gas Use for Non-Heating Design Case (therms/yr)	Gas Use for Non-Heating Design Case with Unregulated Loads (therms/yr)	Purchased Steam Use Baseline (Mlbs/yr)	Purchased Steam Use Design Case (Mlbs/yr)	Purchased Steam Use Design Case with Unregulated Loads (Mlbs/yr)
0	0	0	0	0	0
Hot water boiler is the only gas load.	Hot water boiler is the only gas load.	Hot water boiler is the only gas load.			

#2 Oil Use Baseline (gals/yr)	#2 Oil Use Design Case (gals/yr)	#2 Oil Use Design Case with Unregulated Loads (gals/yr)	Methodology Required by LL86 Rules to Establish Energy Use and Peak Demand Baseline and Design Case
0	0	0	ANSI/ASHRAE/IESNA Standard 90.1-2007, Energy Cost Budget

Potable Water Use			Stormwater Run-Off	
Is all potable water use in the portion of project that is subject to LL86 requirements metered independently of other buildings or spaces?	Potable Water Use Baseline (gals/yr)	Potable Water Use Design Case (gals/yr)	Stormwater Run Off Baseline (gals/yr)	Stormwater Run Off Design Case (gals/yr)
Yes	552,277	348,323	N/A	N/A
	From W2.1R updated from 21May2015 mtg.	From W2.1R updated from 21May2015 mtg.		

LL86/05 Reporting Form Construction-EEM sheet as follows:

Prototypical Compliance Summary — PS49Q

Project Name in SEPTS Capital Project Record	Name of Project Phase in SEPTS Capital Project Record	Managing Agency Internal Project Identification # in SEPTS Capital Project Record
PS49Q	N/A	LLW# 089232

Energy Efficiency Measures for LEED® Project with Construction Cost of $12,000,000 or More (copy and paste columns D - J for each additional EEM, as necessary)

Energy Conservation Measure (EEM) Description	Incremental Construction Cost of EEM	Reduction in Electric Use from EEM (Kwh/yr)	Reduction in Sum of Monthly Peak Demand from EEM (Kw/yr)	Reduction in Gas Used for Heating from EEM (therms/yr)	Reduction in Gas Used for Non-Heating from EEM (therms/yr)	Reduction in Use of Purchased Steam from EEM (Mlbs/yr)	Reduction in the Use of #2 Oil from EEM (gals/yr)
Low Flow Water Fixtures	$724	4,598	24.6	0	0	0	0
		From Energy Model dated 16June2015	From Energy Model dated 16June2015				

Energy Conservation Measure (EEM) Description	Incremental Construction Cost of EEM	Reduction in Electric Use from EEM (Kwh/yr)	Reduction in Sum of Monthly Peak Demand from EEM (Kw/yr)	Reduction in Gas Used for Heating from EEM (therms/yr)	Reduction in Gas Used for Non-Heating from EEM (therms/yr)	Reduction in Use of Purchased Steam from EEM (Mlbs/yr)	Reduction in the Use of #2 Oil from EEM (gals/yr)
Variable Speed Pumps	$2,014	7,866	14.9	-440	0	0	0
		From Energy Model dated 16June2015	From Energy Model dated 16June2015	From Energy Model dated 16June2015			

Energy Conservation Measure (EEM) Description	Incremental Construction Cost of EEM	Reduction in Electric Use from EEM (Kwh/yr)	Reduction in Sum of Monthly Peak Demand from EEM (Kw/yr)	Reduction in Gas Used for Heating from EEM (therms/yr)	Reduction in Gas Used for Non-Heating from EEM (therms/yr)	Reduction in Use of Purchased Steam from EEM (Mlbs/yr)	Reduction in the Use of #2 Oil from EEM (gals/yr)
Premium Efficiency Motors	$1,132	1,204	6.3	-10	0	0	0
		From Energy Model dated 16June2015	From Energy Model dated 16June2015	From Energy Model dated 16June2015			

Energy Conservation Measure (EEM) Description	Incremental Construction Cost of EEM	Reduction in Electric Use from EEM (Kwh/yr)	Reduction in Sum of Monthly Peak Demand from EEM (Kw/yr)	Reduction in Gas Used for Heating from EEM (therms/yr)	Reduction in Gas Used for Non-Heating from EEM (therms/yr)	Reduction in Use of Purchased Steam from EEM (Mlbs/yr)	Reduction in the Use of #2 Oil from EEM (gals/yr)
Efficient condensing boiler	$10,554	0	0	452	0	0	0
				From Energy Model dated 16June2015			

Energy Conservation Measure (EEM) Description	Incremental Construction Cost of EEM	Reduction in Electric Use from EEM (Kwh/yr)	Reduction in Sum of Monthly Peak Demand from EEM (Kw/yr)	Reduction in Gas Used for Heating from EEM (therms/yr)	Reduction in Gas Used for Non-Heating from EEM (therms/yr)	Reduction in Use of Purchased Steam from EEM (Mlbs/yr)	Reduction in the Use of #2 Oil from EEM (gals/yr)
High Efficiency Classroom AHU	$26,870	8955	65.1	0	0	0	0
		From Energy Model dated 16June2015	From Energy Model dated 16June2015				

Energy Conservation Measure (EEM) Description	Incremental Construction Cost of EEM	Reduction in Electric Use from EEM (Kwh/yr)	Reduction in Sum of Monthly Peak Demand from EEM (Kw/yr)	Reduction in Gas Used for Heating from EEM (therms/yr)	Reduction in Gas Used for Non-Heating from EEM (therms/yr)	Reduction in Use of Purchased Steam from EEM (Mlbs/yr)	Reduction in the Use of #2 Oil from EEM (gals/yr)
Improved lighting and controls (incl daylighting)	$19,324	56,126	225.4	-600	0	0	0
		From Energy Model dated 16June2015	From Energy Model dated 16June2015	From Energy Model dated 16June2015			

Energy Conservation Measure (EEM) Description	Incremental Construction Cost of EEM	Reduction in Electric Use from EEM (Kwh/yr)	Reduction in Sum of Monthly Peak Demand from EEM (Kw/yr)	Reduction in Gas Used for Heating from EEM (therms/yr)	Reduction in Gas Used for Non-Heating from EEM (therms/yr)	Reduction in Use of Purchased Steam from EEM (Mlbs/yr)	Reduction in the Use of #2 Oil from EEM (gals/yr)
Better Envelope	$62,735	2,191	15.5	653	0	0	0
		From Energy Model dated 16June2015	From Energy Model dated 16June2015	From Energy Model dated 16June2015			

LL86/05 Reporting Form LL86 EEM sheet as follows:

	Reduction in Electric Use from EEM (Kwh/yr)	Reduction in Sum of Monthly Peak Demand from EEM (Kw/yr)	Reduction in Gas Used for Heating from EEM (therms/yr)
Low Flow Water Fixtures	4598	24.6	0
Variable Speed Pumps	7866	14.9	-440
Premium Efficiency Motors	1204	6.3	-10
Efficient condensing boiler	0	0	452
High Efficiency Classroom AHU	8955	65.1	0
Improved lighting and controls (incl daylighting)	56126	225.4	-600
Better Envelope	2,191	15.5	653
Total	98163	432.8	161
	From Energy Model dated 16June2015		From Energy Model dated 16June2015

LL86/05 Reporting Form Construction-Print sheet as follows:

Energy Model Compliance Summary		PS49Q
	Project Name In SEPTS Capital Project Record	PS49Q
	Name of Project Phase in SEPTS Capital Project Record	N/A
	Managing Agency Internal Project Identification # in SEPTS Capital Project Record	LLW# 089232
Green Building Rating	**Green Building Rating System Utilized**	NYC Green Schools 2009
	Has LocalLaw86@ cityhall.nyc.gov been invited to view USGBC application?	No
	Cost Attributable to LEED® or Green Schools 2007 Compliance	$117,165
Energy Sources and Utility Rates	**Electric Used in Project Area?**	Yes
	Electric Rate Group	NYPA Public Buildings Conv
	Gas for Heating Used in Project Area?	Yes
	Gas Rate Group for Heating	Gas, Firm-Heating.
	Gas for Non-Heating Used in Project Area?	No
	Gas Rate Group for Non-Heating	
	Purchased Steam Used in Project Area?	No
	# 2 Oil Used in Project Area?	No
	Is all energy use affected by the work that is subject to LL86 requirements metered independently of other buildings or spaces?	Yes
	Will the cost of all energy use affected by project work be paid out of the city treasury?	Yes
Energy Use and Electric Peak Demand	**Electric Use Baseline (Kwh/yr)**	333,755
	Electric Use Design Case (Kwh/yr)	235,592
	Design Case with Unregulated Loads (Kwh/yr)	328,512
	Electric Peak Demand Baseline (Kw)	232
	Peak Demand Design Case (Kw)	173
	Peak Demand Design Case with Unregulated Loads (Kw)	203
	Sum of Monthly Electric Peak Demands Baseline (Kw/yr)	1,665
	Sum of Monthly Electric Peak Demands Design Case (Kw/yr)	1,232
	Sum of Monthly Peak Demands Design Case with Unregulated Loads (Kw/yr)	1,601
	Gas Use for Heating Baseline (therms/yr)	7,636
	Gas Use for Heating Design Case (therms/yr)	7,475
	Gas Use for Heating Design Case with Unregulated Loads (therms/yr)	13,257
	Gas Use for Non-Heating Baseline (therms/yr)	0
	Gas Use for Non-Heating Design Case (therms/yr)	0
	Gas Use for Non-Heating Design Case with Unregulated Loads (therms/yr)	0
	Purchased Steam Use Baseline (Mlbs/yr)	0
	Purchased Steam Use Design Case (Mlbs/yr)	0
	Purchased Steam Use Design Case with Unregulated Loads (Mlbs/yr)	0
	#2 Oil Use Baseline (gals/yr)	0
	#2 Oil Use Design Case (gals/yr)	0
	#2 Oil Use Design Case with Unregulated Loads (gals/yr)	0
	Methodology Required by LL86 Rules to Establish Energy Use and Peak Demand Baseline and Design Case	ANSI/ASHRAE/IESNA Standard 90.1-2007, Energy Cost Budget
Potable Water Use	**Is all potable water use in the portion of project that is subject to LL86 requirements metered independently of other buildings or spaces?**	Yes
	Potable Water Use Baseline (gals/yr)	552,277
	Potable Water Use Design Case (gals/yr)	348,323
Stormwater Run-Off	**Stormwater Run Off Baseline (gals/yr)**	N/A
	Stormwater Run Off Design Case (gals/yr)	N/A

LL86/05 Reporting Form Construction-EEM Print sheet as follows:

PS49Q					
EEM	Reduction in Electric Use from EEM (Kwh/yr)	Reduction in Sum of Monthly Peak Demand from EEM (Kw/yr)	Reduction in Gas Used for Heating from EEM (therms/yr)	Reduction in Electric Use from EEM (Kwh/yr)	Reduction in Sum of Monthly Peak Demand from EEM (Kw/yr)
Low Flow Water Fixtures	4598	24.6	0	0.8409	0.5133
Variable Speed Pumps	7866	14.9	-440	0.0289	0.2405
Premium Efficiency Motors	1204	6.3	-10	0	0
Efficient condensing boiler	0	0	452	-0.002	-0.0018
High Efficiency Classroom AHU	8955	65.1	0	-0.16	-0.1816
Improved lighting and controls (incl daylighting)	56126	225.4	-600	0.277	0.4239
Better Envelope	2191	15.5	653	0.0152	0
Total	98163	432.8	161	0	0

HVAC Optimization

E4.2R HVAC System Sizing – Avoid Oversizing

GSG committee indicated credit as anticipated at 4 June 2015 meeting.

Credit was documented and accepted during Design Phase submissions and there is no documentation that requires an update.

Power

E5.1R Green Power

SCA GSG committee indicated, in 22Jun2018 meeting minutes, that credit documented.

The amount of energy required will be established from the project specific energy model (Option 1) related to credit E4.1R as per SCA Direction at meeting on 12 November 2014.

The latest results from the Energy Model Report dated 16 June 2015 indicates the Design Case with Unregulated Loads will have an annual energy consumption of 328,512 kWh. Based on this estimate, 114,979 kWh of green power will need to be purchased for each of the first two years of building operation to satisfy the 35% requirement.

The SCA has provided documentation to the Design Team that they have applied for and have received approval for obtaining the required 35% building electrical consumption through Green Power credits as follows:

From: METLITSKY, GENDEL
Sent: Thursday, April 28, 2016 8:16 AM
To: MORRISON, CLEVELAND
Subject: RE: RE: Beacon HS RE: Open Construction GSG Submission items?

Cleveland,
We do not need verification E5.1R Green Power credit.

City is buying green power in bulk for all city funded buildings, including schools. We need just to provide calculations of green power required.

Thank you

Gendel Metlitsky R.A.
LEED Accredited Professional BD+C
Sustainability Design Project Manager
718.472.8577

As stated in GSG Construction Phase Architect/PO Toolkit, Page 6, "New York City has stated that they are providing the requisite green power to meet this credit for all city projects, and thus by such fiat the credit can be initialed by the AOR. Refer to Appendix B for the Construction Phase Certification form.

Materials Credits

Efficient Material Use

M1.1R Storage and Collection of Recyclables

SCA GSG committee indicated credit as anticipated at 12 November 2014 and 12 March 2015 meetings

Credit was documented and accepted during Design Phase submissions and there is no documentation that requires an update.

M1.2 Building Reuse – 75% of structure and envelope

SCA GSG committee agreed credit is not feasible at the 12 November 2014 and 12 March 2015 meetings.

The focus of this project is the new addition so this credit would not be applicable and thus not feasible.

Refer to Appendix B for the Construction Phase Certification form.

M1.3 Building Reuse – 95% of structure and envelope

SCA GSG committee agreed credit is not feasible at the 12 November 2014 and 12 March 2015 meetings.

The focus of this project is the new addition so this credit would not be applicable and thus not feasible.

Refer to Appendix B for the Construction Phase Certification form.

M1.4 Building Reuse – 50% of interior non-structural

SCA GSG committee agreed credit is not feasible at the 12 November 2014 and 12 March 2015 meetings.

The focus of this project is the new addition so this credit would not be applicable and thus not feasible.

Refer to Appendix B for the Construction Phase Certification form.

M1.5R, 1.6, & 1.7 Construction Waste Management – 50, 75, or 95% diversion

SCA GSG committee indicated, in 22Jun2018 meeting minutes, that credit documented.

As this building addition is a new construction, it is assumed that no building structure or non-structural items can be re-used.

Construction Waste Mangement

Credit M1.5R, M1.6 and M1.7

School Construction Authority

NYC Green Schools Rating System

Project:	PS 49 Queens Addition		
Address:	63-60 80th St, Middle Village, NY 11379	Contractor:	EW How ell
LLW:	89232	Preparer:	EME Group
Date:	11/14/2017	Telephone:	212-529-5969

Table 1: Construction Waste Management diversion Summary

Diverted / Recycled Materials Description	Diversion / Recycling Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
Concrete		0.00	tons
Wood	Bestw ay / City Recycling	175.01	tons
Gypsum Wallboard	Bestw ay / City Recycling	23.89	tons
Crushed Asphalt		0.00	tons
Masonry	Bestw ay / City Recycling	200.90	tons
Cardboard	Bestw ay / City Recycling	75.34	tons
Other: Metal	Bestw ay / City Recycling	46.18	tons
Other: Plastic	Bestw ay / City Recycling	52.58	tons
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
TOTAL CONSTRUCTION WASTE DIVERTED		573.90	tons

Landfill materials Description	Landfill Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
General Mixed Waste	Bestw ay	111.33	tons
Other:			
Other:			
TOTAL CONSTRUCTION WASTE SENT TO LANDFILL		111.33	tons

TOTAL OF ALL CONSTRUCTION WASTE	685.23	
PERCENTAGE OF CONSTRUCTION WASTE DIVERTED FROM LANDFILL	84%	

Refer to Appendix A for the Construction Waste Management Plan, Waste Reduction Progress Reports, and signed letter stating total waste material diverted and method of diversion.

Refer to Appendix B for the Construction Phase Certification form.

Sustainable Materials

M2.1R & 2.2 Recycled Content – 10% or 20%

SCA GSG committee indicated, in 22Jun2018 meeting minutes, that credit documented.

RECYCLED CONTENT - SUMMARY FORM

Credit M2.1R and M2.2

SCA School Construction Authority
NYC Green Schools Rating System

Project:	PS 49 Queens Addition	Architect:	**John Ciardullo, P.C**
Address:	63-60 80th St, Middle Village, NY 11379	Preparer:	**EME Group**
LLW #:	89232 Design #:	Telephone:	**212-529-5969**
Date:	5/17/2018		

Contractors Total Construction Cost for CSI Divisions 2-10:	$
Assumed Materials Cost based on 45% of cost above:	$
Recycled Materials Content Target (10% of the cost of Materials):	**$**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Percentage **Post** Consumer* by weight	Percentage **Pre-** Consumer** by weight	Cost of Complying Material	Recycled Content Information Source
4000 psi NW Air Entrained Conventional	Best Concrete	$	0%	8.37%	$	Manufacturer Literature
4000 psi NW Air Entrained Pump	Best Concrete	$	0%	8.58%	$	Manufacturer Literature
4000 psi NW No Air Pump	Best Concrete	$	0%	7.86%	$	Manufacturer Literature
4000 psi LW Air Entrained Pump	Best Concrete	$	0%	10.06%	$	Manufacturer Literature
Foamular 250 XPS	Owens Corning	$	0%	20%	$	Manufacturer Literature
Reinforcing Bar	Gerdau	$	74%	21%	$	Manufacturer Literature
Foamular 604	Owens Corning	$	0%	20%	$	Manufacturer Literature
790-11 EV	Henry	$	25%	0%	$	Manufacturer Literature
DB 200S	Henry	$	0%	74%	$	Manufacturer Website
Continuous Wire	HB	$	0%	97%	$	Manufacturer Literature
Steel Rebar	Nucor	$	83%	17%	$	Manufacturer Literature
353L Column Anchor	HB	$	0%	99%	$	Manufacturer Literature
Rubber Control Joint	HB	$	0%	50%	$	Manufacturer Literature
120 Truss Mesh	HB	$	25%	75%	$	Manufacturer Literature
Look Lok Truss Wire	HB	$	0%	97%	$	Manufacturer Literature
Dovetail Brick Tie	HB	$	0%	97%	$	Manufacturer Literature
Lightweight CMU	Barrasso	$	0%	23%	$	Manufacturer Literature
344 Ridgid Anchor	HB	$	0%	99%	$	Manufacturer Literature
355L Column Anchor	HB	$	0%	99%	$	Manufacturer Literature
Type N Mortar Grey	Spec Mix	$	0%	2%	$	Manufacturer Literature
Type S Mortar	Spec Mix	$	0%	2%	$	Manufacturer Literature
3000 psi Fine Grout	Spec Mix	$	0%	2%	$	Manufacturer Literature
Type N Mortar Colored	Spec Mix	$	0%	2%	$	Manufacturer Literature
Type S Mortar Colored	Spec Mix	$	0%	2%	$	Manufacturer Literature
Toiler Partitions	Global Partitions	$	11%	6%	$	Manufacturer Literature
HDPE Pipe	Lane	$	40%	0%	$	Manufacturer Literature
Metal Lockers	ASI Storage Sol	$	25%	0%	$	Manufacturer Literature
Metal Stud Framing	Clark Dietrich	$	40%	9%	$	Manufacturer Literature
Metal Stud Framing	Marino/Ware	$	20%	14%	$	Manufacturer Literature
Grounds Blocking	Marino/Ware	$	20%	14%	$	Manufacturer Literature
Furring Channel	Clark Dietrich	$	40%	9%	$	Manufacturer Literature
Shaft Wall Framing	Clark Dietrich	$	40%	9%	$	Manufacturer Literature
Spazzer Bar Horizontal Framing	Clark Dietrich	$	40%	9%	$	Manufacturer Literature
Thermafiber SAFB	Thermafiber	$	0%	70%	$	Manufacturer Literature
Mold Tough Sheetrock	USG	$	5%	93%	$	Manufacturer Literature
Mold Defense Sheetrock	Lafarge	$	3%	96%	$	Manufacturer Literature

Gold Bond XP Sheetrock	National Gypsum	$		5%	0%	$	Manufacturer Literature
Mold Tough Shaft Liner	USG	$		2%	97%	$	Manufacturer Literature
Mold Defense Shaft Liner	Lafarge	$		3%	96%	$	Manufacturer Literature
Gold Bond XP Shaft Liner	National Gypsum	$		5%	0%	$	Manufacturer Literature
Glass Mat Panels	USG	$		0%	96%	$	Manufacturer Literature
Glass Mat Shaft Wall Liner	USG	$		0%	96%	$	Manufacturer Literature
5/8' Fiberock Aqua-Tough	USG	$		3%	23%	$	Manufacturer Literature
5/8" Hi-Impact XP	National Gypsum	$		5%	0%	$	Manufacturer Literature
5/8" Protecta AR 100	Lafarge	$		3%	96%	$	Manufacturer Literature
Cement Tile Backer Board	USG	$		0%	15%	$	Manufacturer Literature
Perma Base Tile Backer	National Gypsum	$		0%	35%	$	Manufacturer Literature
Metal Drywall Trim	Marino/Ware	$		20%	14%	$	Manufacturer Literature
Paper Faced Metal Corner Bead	USG	$		0%	61%	$	Manufacturer Literature
Portland Cement	Holcin	$		0%	19%		Manufacturer Letter
Essroc Slag	Essroc Italcementi Group	$		0%	100%	$	Manufacturer Letter
Coram Sand	Coram	$		0%	0%	$	Manufacturer Letter
Tilcon Stone	Tilcon	$		0%	0%	$	Manufacturer Letter
MBVR	BASF	$		0%	4%	$	Manufacturer Letter
Pozzolith 200N	BASF			0%	25%	$	Manufacturer Letter
Rolling Steel Doors	Cookson Company	$		54%	8%	$	Manufacturer
Arctic White Brick	Belden	$		26%	4%	$	Manufacturer
Mountain Red Brick	Belden	$		9%	1%	$	Manufacturer
NAUF Veneer Core Plywood	Columbia Forest Products			0%	80%	$	Manufacturer
Terra NAF Particleboard	Flakeboard	$		4%	92%	$	Manufacturer
Wilsonart Laminate Types 335, 735	Wilsonart	$		34%	0%	$	Manufacturer Documentation
Excelon Vinyl Composition Tile	Armstrong	$		0%	1%	$	Manufacturer
700 Series Wall Base	Roppe	$		0%	10%	$	Manufacturer
Quick Frame Header	Marino/Ware	$		20%	14%	$	Manufacturer
Mineral Wool	Hilti	$		0%	90%	$	Manufacturer
Thermafiber SAFB & Firespan 40	owens Corning	$		0%	70%		Manufacturer
F Fissured Basic 102	USG	$		2%	65%		Manufacturer
Mars 88785	USG	$		0%	75%	$	Manufacturer
Donn DX_DXL Grid	USG	$		26%	7%	$	Manufacturer
700 Series Fiberglass Insulation	Owens Corning	$		0%	57%	$	Manufacturer
Expansion Joint Filler	MR Meadows	$		0%	36%	$	Manufacture Letter
NYCDDC A-4000 psi AE	Best Concrete Mix Corp	$		0%	10%	$	Manufacturer
Asphaltic Concrete Paving	Willets Point Ave			15%	0%	$	Manufacturer
CAFCO 300 Fireproofing	Isolatek	$		10%	0%	$	Manufacturer
CAFCO 400 Fireproofing	Isolatek	$		10%	0%	$	Manufacturer
Precast Concrete	Accurate Precast	$		12%	20%	$	Manufacturer
Steel Stairs	Nucor	$		81%	15%	$	Manufacturer
Structural Steel	Steel Dynamics			75%	22%	$	Manufacturer
Arctic White 0190	Daltile	$		0%	35%	$	Manufacturer
Sunflower DH50	Daltile	$		0%	35%	$	Manufacturer
Desert Gray	Daltile	$		0%	35%	$	Manufacturer
Waterfall 0169	Daltile	$		0%	35%	$	Manufacturer
SeaBreeze Q174	Daltile	$		0%	35%	$	Manufacturer
Waterfall D169	Daltile	$		0%	8%	$	Manufacturer
Parkland Arctic	Stone Peak	$		0%	8%	$	Manufacturer
253 Gold	Laticrete	$		12%	24%	$	Manufacturer
255 Multimax	Laticrete	$		24%	9%	$	Manufacturer
Fire Rated Frames	Technical Glass Products	$		5%	21%	$	Manufacturer
Push Plates	Assa Abloy/Rockwood			56%	26%	$	Manufacturer
Closers	Allegion/LCN	$		57%	31%	$	Manufacturer
Holder and Stop	Allegion/Glynn Johnson	$		57%	31%	$	Manufacturer

Aluminum	Keymark Corp.	$	8%	31%	$	Manufacturer
Aluminum Panels	Mapes	$	5%	5%	$	Manufacturer
Aluminum Extrusions	Kawneer	$	11%	62%	$	Manufacturer
Aluminum Extrusions	Kawneer	$	14%	60%	$	Manufacturer
Aluminum Extrusions	Kawneer	$	2%	65%	$	Manufacturer
Aluminum Extrusions	Kawneer	$	7%	63%	$	Manufacturer
Aluminum Extrusions	Kawneer	$	7%	63%	$	Manufacturer
1 1/8" Clear Double Lami	Oldcastle	$	0%	3%	$	Manufacturer
1 13/16" Clear Low-e Double Lami	Oldcastle	$	0%	3%	$	Manufacturer
1 5/32 Clear Spandrel Double Lam	Oldcastle	$	0%	4%	$	Manufacturer
19/32 Clear Monolithic Lami	Oldcastle	$	0%	3%	$	Manufacturer
Firelate	TGP	$	0%	60%	$	Manufacturer
HM Doors + Frames	LIF Industries	$	26%	7%	$	Manufacturer
			Total Cost of Complying Material		$	

Confirm that Total Cost of Complying Materials is greater than or equal to Project's Recycled Materials Content Target:	Yes

Definitions:

* **Post-Consumer Recycled Content:** Material or finished product that has served its intended consumer use and has been discarded by consumer.

** **Pre-Consumer Recycled Content:** Recovered industrial and manufacturing materials diverted from municipal solid waste for the purpose of collection and recycling.

Notes:

1. Recycled content for concrete - provide cost for cementitious materials and percentage of cementitious materials that are recycled content.
2. Recycled content for steel products - where it is not possible to determine recycled content - use default assumption of 25% post-consumer recycled content

Refer to Appendix A for Comprehensive Contractor Sustainable Materials Form and Contractor Sustainable Materials Tracking Form.

Refer to Appendix B for the Construction Phase Certification form.

M2.3 & 2.4 Regional Materials – 10% or 20%

SCA GSG committee indicated, in 22Jun2018 meeting minutes, that credit documented.

REGIONAL MATERIALS - SUMMARY FORM

Credit M2.3 and M2.4

School Construction Authority
NYC Green Schools Rating System

Project:	PS 49 Queens Addition	Architect:	**John Ciardullo, P.C**
Address:	63-60 80th St, Middle Village, NY 11379	Preparer:	**EME Group**
LLW #:	89232 Design #:	Telephone:	**212-529-5969**
Date:	5/24/2018		

Contractors Total Construction Cost for CSI Divisions 2-10:	$
Assumed Materials Cost based on 45% of cost above:	$
Regional Materials Content Target (10% of the cost of Materials):	**$**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Percentage Regionally Extracted*** by weight	Cost of Complying Material	Distance in miles between project site and site of		Regional Materials Information Source
					extraction	manufacture	
4000 psi NW Air Entrained Conventional	Best Concrete	$	90%	$	90	4	Manufacturer Literature
4000 psi NW Air Entrained Pump	Best Concrete	$	90%	$	90	4	Manufacturer Literature
4000 psi NW No Air Pump	Best Concrete	$	91%	$	90	4	Manufacturer Literature
4000 psi LW Air Entrained Pump	Best Concrete	$	88%	$	143	4	Manufacturer Literature
Foamular 250 XPS	Owens Corning	$	100%	$	499	402	Manufacturer Literature
Reinforcing Bar	Gerdau	$	100%	$	52	52	Manufacturer Literature
Foamular 604	Owens Corning	$	100%	$	499	499	Manufacturer Literature
Type N Mortar Gray	Spec Mix	$	94%	$	68	70	Manufacturer Literature
Type S Mortar	Spec Mix	$	96%	$	68	70	Manufacturer Literature
3000 psi Fine Grout	Spec Mix	$	100%	$	68	70	Manufacturer Literature
Type N Mortar Colored	Spec Mix	$	94%	$	68	70	Manufacturer Literature
Type S Mortar Colored	Spec Mix	$	96%	$	68	68	Manufacturer Literature
Metal Stud Framing	Clark Dietrich	$	44%	$	104	101	Manufacturer Literature
Metal Stud Framing	Marino/Ware	$	37%	$	64	30	Manufacturer Literature
Grounds Blocking	Marino/Ware	$	37%	$	64	30	Manufacturer Literature
Furing Channel	Clark Dietrich	$	44%	$	104	101	Manufacturer Literature
Shaft Wall Framing	Clark Dietrich	$	44%	$	104	101	Manufacturer Literature
Spazzer Bar Horizontal Framing	Clark Dietrich	$	44%	$	104	101	Manufacturer Literature
Mold Tough Sheetrock	USG	$	93%	$	499	148	Manufacturer Literature
Mold Defense Sheetrock	Lafarge	$	100%	$	271	47	Manufacturer Literature

Mold Tough Shaft Liner	USG	$	97%	$	499	176	Manufacturer Literature
Mold Defense Shaft Liner	Lafarge	$	100%	$	271	47	Manufacturer Literature
Glass Mat Panels	USG	$	97%	$	499	176	Manufacturer Literature
Glass Mat Shaft Wall Liner	USG	$	97%	$	499	176	Manufacturer Literature
5/8" Fiberock Aqua-Tough	Lafarge	$	16%		499	354	Manufacturer Literature
5/8" Protecta AR 100	Lafarge	$	100%	$	272	48	Manufacturer Literature
Cement Tile Backer Board	USG	$	86%	$	499	176	Manufacturer Literature
PermaBase Tile Backer	National Gypsum	$	35%		300	322	Manufacturer Literature
Metal Drywall Trim	Marino/Ware		37%	$	64	30	Manufacturer Literature
Paper Faced Metal Corner Bead	USG	$	89%	$	499	355	Manufacturer Literature
Essroc Slag	Essroc Italcementi Group	$	100%	$	499	499	Manufacturer Letter
Coram Sand	Coram	$	100%	$	499	499	Manufacturer Letter
Tilcon Stone	Tilcon	$	100%	$	499	499	Manufacturer Letter
MBVR	BASF		87%	$	499	499	Manufacturer Letter
Pozzolith 200N	BASF	$	68%	$	499	499	Manufacturer Letter
Continuous Wire	HB	$	100%	$	12	25	Manufacturer Literature
Steel Rebar	Nucor	$	100%	$	207	207	Manufacturer Literature
353L Column Anchor	HB	$	100%	$	4	25	Manufacturer Literature
Rubber Control Joint	HB	$	100%	$	411	400	Manufacturer Literature
120 Truss Mesh	HB	$	100%	$	36	25	Manufacturer Literature
Look Lok Truss Wire	HB	$	100%	$	12	25	Manufacturer Literature
Dovetail Brick Tie	HB	$	100%	$	12	25	Manufacturer Literature
Mesh Wall Tie	MWT	$	100%	$	39	38	Manufacturer Literature
Lightweight CMU	Barrasso	$	100%	$	112	45	Manufacturer Literature
344 Ridgid Anchor	HB	$	100%	$	4	25	Manufacturer Literature
355L Column Anchor	HB	$	100%	$	4	25	Manufacturer Literature
Quick Frame Header	Marino/Ware	$	37%	$	65	30	Manufacturer Letter
Sheetrock Acoustical Sealant	USG	$	60%	$	499	348	Manufacturer Letter
NYCDDC A-4000 psi AE Concrete Design Mix	Best Concrete Mix Corp	$	89%	$	499	4	Manufacturer Documentation
Asphaltic Concrete Paving	Willets Point Ave	$	15%	$	16	16	Manufacturer Documentation
CAFCO 300 Fireproofing	Isolatek	$	100%	$	159	46	Manufacturer Documentation
CAFCO 400 Fireproofing	Isolatek	$	100%	$	159	46	Manufacturer Documentation

Precast Concrete	Accurate Precast	$	80%	$	200	4	Manufacturer Documentation
Metal Deck	Canam	$	100%	$	499	499	Manufacturer Documentation
Steel Stairs	Nucor	$	97%		208	499	Manufacturer Documentation
Waterfall D169	Daltile	$	100%	$	188	62	Manufacturer Documentation
1500 Sanded Grout	Laticrete	$	94.90%	$	100	499	Manufacturer Documentation
1600 Unsanded Grout	Laticrete	$	94.90%	$	100	499	Manufacturer Documentation
253 Gold	Laticrete	$	96.90%	$	100	499	Manufacturer Documentation
255 Multimax	Laticrete	$	94.50%	$	100	499	Manufacturer Documentation
9235 Waterproofing	Laticrete	$	35.50%	$	100	499	Manufacturer Documentation
HM Doors + Frames	LIF Industries	$	100.00%	$	82	16	Manufacturer CSMF
Landscaping	Island Topsoil	$	100.00%	$	29	29	Manufacturer CSMF
Expansion Joint Filler	MR Meadows	$	100.00%	$	161	161	Manufacturer CSMF
	Total Cost of Complying Material			**$**			

Confirm that Total Cost of Complying Materials is greater than or equal to Project's Regional Materials Content Target:	Yes

Definitions:

** **Regional Materials:** Regionally manufactured materials that have their origin within 500 miles of the project site. These would included products that are regionally mined, harvested or re-used (including those salvaged from the site).

Notes:

1. Regional content for concrete provide combined cost for all concrete materials, and distance information requested.
2. Regional content for materials with various points of extraction all within the 500-mile radius list single item with the greatest distance.

Refer to Appendix A for Comprehensive Contractor Sustainable Materials Form and Contractor Sustainable Materials Tracking Form.

Refer to Appendix B for the Construction Phase Certification form.

M2.5R Wallboard & Roof Deck Products – Mold Resistance

CA GSG committee indicated credit as anticipated at the 12 November 2014 and 12 March 2015 meetings.

Credit was documented and accepted during Design Phase submissions and there is no documentation that requires an update.

M2.6R Low Mercury Lighting – Reduce Mercury Waste

SCA GSG committee indicated credit as anticipated at the 12 November 2014 and 12 March 2015 meetings.

Credit was documented and accepted during Design Phase submissions and there is no documentation that requires an update.

Indoor Environmental Quality

IAQ Post-Occupancy

Q1.1R Minimum IAQ Performance & Increased Ventilation

SCA GSG committee indicated credit as anticipated at the 12 November 2014 and 12 March 2015 meetings.

Credit was documented and accepted during Design Phase submissions.

Air Balancing Reports were completed; see stamped and signed cover page below:

15993-001-003

TOMCO MECHANICAL CORP.

125 State Street, Westbury, New York 11590
(516) 546-5700 / FAX (516) 546-7521

PS 49 - Middle Village

EW Howell Project: #03-15-13

Submittal Date: 08/24/17

Revision Date: 01/17/18

Contractor: E.W. Howell Co., LLC

Subcontractor: Tomco Mechanical Corp.

Supplier: Precision Test & Balance Corp.

Manufacturer: PTB

Preparer: Precision Test & Balance Report

Drawing No.:

Specification No.:15993-001-003

Sect./Div. No.: Sect. 15 / Div.15993

Paragraph No.: All Paragraphs within given sections

Title: **15993 – FINAL AIR BALANCING REPORT**

DVL JOB NO.	SUBMITTAL NO.
678	15993-001-003

X NO EXCEPTIONS TAKEN
☐ MAKE CORRECTIONS AS NOTED
☐ REJECTED

BY DH DATE 1/26/18
DVL CONSULTING ENGINEERS, INC.
575 MAIN ST.
HACKENSACK, NJ 07601

Q1.2R Outdoor Air Delivery Monitoring

SCA GSG committee indicated credit as anticipated at the 12 November 2014 and 12 March 2015 meetings.

Verification of operation of flow measuring stations; SCA noted in 30Mar2018 GSG Construction Submission seminar not to hold up GSG final submission for meter deficiencies.

IAQ Pre-Occupancy

Q2.1R Construction IAQ Management Plan – During Construction

SCA GSG committee indicated, in 22Jun2018 meeting minutes, that credit documented.

Refer to Appendix A for IAQ Plan and photos of IAQ measures.

Refer to Appendix B for the Construction Phase Certification form.

Q2.2R Construction IAQ Management Plan – Before Occupancy

SCA GSG committee indicated, in 22Jun2018 meeting minutes, that Insufficient information to determine credit documentation. Consultant to provide a letter from Contractor attesting that flush-out was completed.

Refer to Appendix A for flush-out procedures description, flush-out period on construction schedule, flush-out calculations**, and flush-out letter**.

Refer to Appendix B for the Construction Phase Certification form.

Low-Emitting Materials

Q3.1R Low-Emitting Materials – Adhesives and Sealants

SCA GSG committee indicated, in 22Jun2018 meeting minutes, that credit documented. However, Consultant to include VOC content of <20 g/L for the Wilsonart 3100 PVA Adhesive as per manufacturer's specifications.

LOW EMITTING MATERIALS - SUMMARY FORM A (page 1)

Adhesives and Sealants

Credit Q 3.1R

SCA School Construction Authority

NYC Green Schools Rating System

Project:	PS 49 Queens Addition	Architect:	**John Ciardullo, P.C**
Address:	63-60 80th St, Middle Village, NY 11379	Preparer:	**EME Group**
LLW #:	89232 Design #:	Telephone:	**212-529-5969**
Date:	4/2/2018, **Revised 6/25/2018**		

Adhesives

Product Use	Manufacturer's Name	Product Name	Product's VOC Level [g/L less water]	VOC Limit [g/L less water]
Architectural Applications				
Indoor Carpet Adhesives	NA			50
Carpet Pad Adhesives	NA			50
Wood Flooring Adhesives	NA			100
Rubber Floor Adhesives	Laticrete	Latapoxy 210 Adhesive	0	60
Rubber Floor Adhesives	Connor Sports Flooring	ElastiPlus Adhesive Adhesive	0	60
Subfloor Adhesives				50
Ceramic Tile Adhesives	Laticrete	253 Gold	0	65
Ceramic Tile Adhesives	Laticrete	255 MultiMax	0	65
Ceramic Tile Adhesives	Laticrete	1500 Grout	0	65
Ceramic Tile Adhesives	Laticrete	1600 Grout	0	65
Ceramic Tile Adhesives	Laticrete	254 Platinum	0	65
Ceramic Tile Adhesives	Laticrete	9235 Waterproofing	2.4	65
VCT & Asphalt Adhesives	Mapei	Ultrabond Eco 711	11	50
Drywall & Panel Adhesives	Titebond	Acoustical Ceiling Tile	3	50
Cove Base Adhesives	Mapei	Ultrabond Eco 575	40	50
Multipurpose Construction Adhesives	CRL	Gunther Premier Plus Mirror	10	70
Structural Glazing Adhesives				100
General Construction Adhesive	Liquid Nails	Heavy Duty Const Adhesive	70	70
Specialty Applications				
PVC Welding				510
CPVC Welding				490
ABS Welding				325
Plastic Cement Welding				250
Adhesive Primer for Plastic				550
Wood Adhesive	Wilsonart	Wilsonart 3100 PVA Adhesive	**20**	**30**
Special Purpose Contact Adhesive				250
Structural Wood Member Adhesive				140
Sheet Applied Rubber Lining Operatio				850
Top & Trim Adhesive				250

LOW EMITTING MATERIALS - SUMMARY FORM A (page 2)

Adhesives and Sealants

Credit Q 3.1R

SCA School Construction Authority
NYC Green Schools Rating System

Project:	PS 49 Queens Addition	Architect:	**John Ciardullo, P.C**
Address:	63-60 80th St, Middle Village, NY 11379	Preparer:	**EME Group**
LLW #:	89232 Design #:	Telephone:	**212-529-5969**
Date:	7/27/2017		

Adhesives

Product Use	Manufacturer's Name	Product Name	Product's VOC Level	VOC Limit [g/L less
Architectural Applications				
Substrate Specific Applications				
Metal to Metal				30
Plastic Foams				50
Porous Material (except wood)	Sika	SikaGrout 212	0	50
Porous Material (except wood)	Sika	Armatec 110 EpoCem	40	50
Porous Material (except wood)	Hilti	Hit HY 200 A/R	27	50
Fiberglass				80
Wood	Jowat	Edge Banding Glue	10	30
Wood	Titebond	Ultimate Wood Glue	9	30
Substrate Specific Applications				
General purpose mist spray				65% VOCs by wt.
General purpose web spray				55% VOCs by weight
Special purpose aerosol adhesives (all types)				70% VOCs by weight

Sealants

Product Use	Manufacturer's Name	Product Name	Product VOC Level	VOC Limit [g/L less
Architectural	USG	Sheetrock Acoustical Sealant	15	250
Architectural	Henry	HE925 BES Sealant	5	250
Architectural	Henry	Aqua Bloc PUMA Resin	0	250
Architectural	Henry	Aqua Bloc PUMA Primer	0	250
Architectural	Laticrete	Latisil	32.7	250
Fire Barrier Sealant	3M	CP 25WB+	1	250
Fire Barrier Sealant	Hilti	CP 606	71	250
Fire Barrier Sealant	Hilti	CP 672	0	250
Fire Barrier Sealant	Hilti	FireStop Joint Spray CFS-SP-WB	34	250
Fire Barrier Sealant	Hilti	Firestop Silicone Sealant	48	250
Fire Barrier Sealant	Hilti	FS-ONE MAX	9	250
Nonmembrane Roof				300
Roadway				250
Single-Ply Roof Membrane				450
Other				420
Architectural Non Porous				250
Architectural Porous				775
Other				750

Refer to Appendix B for the Construction Phase Certification form.

Q3.2R Low-Emitting Materials – Paints and Coatings

SCA GSG committee indicated, in 22Jun2018 meeting minutes, that credit documented.

LOW EMITTING MATERIALS - SUMMARY FORM B
Paints, Coatings, Flooring
Composite Wood & Agrifiber Products
Credit Q 3.2R, 3.3R and 3.4R

SCA School Construction Authority
NYC Green Schools Rating System

Project:	PS 49 Queens Addition	Architect:	**John Ciardullo, P.C**
Address:	63-60 80th St, Middle Village, NY 11379	Preparer:	**EME Group**
LLW #:	89232 Design #:	Telephone:	**212-529-5969**
Date:	12/12/2017		

Paints and Coatings

Product Use	Manufacturer's Name	Product Name	Product's VOC Level [g/L less water]	VOC Limit [g/L less water]
Architectural paints				
Flats	Sherwin Williams	PM 200 latex primer	0	50 g / L
	Sherwin Williams	PM 200 latex flat	0	50 g / L
	Sherwin Williams	Preprite block filler	<50	50 g / L
Graffiti Resistant Coating	Prosoco	Sacrificial Coating SC-1	30	50 g/L
Non-Flats	Sherwin Williams	Pro ind. Acrylic semi-gloss	<50	150 g/L
	Sherwin Williams	PM 200 interior latex semi-gloss	0	150 g/L
	Sherwin Williams	PM 200 interior latex gloss	<50	150 g/L
Anti-corrosive, anti-rust paints	Sherwin Williams	Firetex FX 5120	4	250 g / L
Clear wood finishes				
varnish				350 g / L
lacquer				550 g / L
Floor coatings	Euclid Chemical	Super Diamond Clear VOX	96	100 g / L
Curing Agent	Euclid Chemical	Kurez DR VOX Curing Agent	285	350 g / L
	Euclid Chemical	Euco Diamond Hard	0	100 g / L
	Laticrete	9265 Waterproofing Membrane	2.39	100 g / L
	Laticrete	HydroBan	2.39	100 g / L
Floor Coatings	Sherwin Williams	Armoseal 8100 floorplex	<50	100 g/L
Floor Coatings	Tnemec	Enviro Pox Series 287	8	100 g/L
Floor Coatings	Connor Sports Flooring	ElastiPlus Water-based Top Coat	94	100 g/L
Concrete Sealer	Sherwin Williams	H&C Wet Look Sealer	98	100 g/L
Sealer				
waterproofing sealers	Miracle	511 H2O Plus	<65	250 g / L
waterproofing sealers				250 g / L
sanding sealers				275 g / L
all other sealers				200 g / L
	CAFCO	Bond X Sealer	0 g/l	200 g/l
	Henry	Aqua Bloc PUMA Sealer/Primer	0 g/l	200 g/l
Stains				250 g / L

Refer to Appendix B for the Construction Phase Certification form.

Q3.3R Low-Emitting Materials – Flooring Systems

SCA GSG committee indicated, in 22Jun2018 meeting minutes, that credit documented.

LOW EMITTING MATERIALS - SUMMARY FORM B		**SCA School Construction Authority**	
Paints, Coatings, Flooring			
Composite Wood & Agrifiber Products		NYC Green Schools Rating System	
Credit Q 3.2R, 3.3R and 3.4R			
Project: PS 49 Queens Addition		Architect: **John Ciardullo, P.C**	
Address: 63-60 80th St, Middle Village, NY 11379		Preparer: **EME Group**	
LLW #: 89232	Design #:	Telephone: **212-529-5969**	
Date: 12/12/2017			
Flooring			
Product Use	**Manufacturer's Name**	**Product Name**	**Type of CRI Green Label Plus Documentation Attached**
Vinyl Composition Tile	Armstrong	Excelon VCT	**Floor Score**
Wall Base	Roppe	700 Series Wall Base	**Floor Score**

Refer to Appendix B for the Construction Phase Certification form.

Q3.4R Low-Emitting Materials – Composite Wood & Agrifiber Products

SCA GSG committee indicated, in 22Jun2018 meeting minutes, that credit documented.

LOW EMITTING MATERIALS - SUMMARY FORM B		**SCA School Construction Authority**	
Paints, Coatings, Flooring			
Composite Wood & Agrifiber Products		NYC Green Schools Rating System	
Credit Q 3.2R, 3.3R and 3.4R			
Project: PS 49 Queens Addition		Architect: **John Ciardullo, P.C**	
Address: 63-60 80th St, Middle Village, NY 11379		Preparer: **EME Group**	
LLW #: 89232	Design #:	Telephone: **212-529-5969**	
Date: 12/12/2017			
Composite Wood & Agrifiber Products			**Documentation of Lack of added Urea Formaldehyde**
Product Use	**Manufacturer's Name**	**Product Name**	
Wood Door	Marshfield	Marshfield Doorsystems	**Yes**
Finish Carpentry	Columbia Forest Products	NAUF Veneer Core Plywood	**Yes**
Casework	Columbia Forest Products	Purebond Plywood	**Yes**
Casework	Nu	Green Particleboard	**Yes**
Finish Carpentry	Flakeboard	Terra NAF	**Yes**
Laminate Adhesive	Wilsonart	Wilsonart 3100 PVA Adhesive	**Yes**
Fire Treated Wood	John A. Biewer Co.	Dricon Fire Retardant Treated	**Yes**

Refer to Appendix B for the Construction Phase Certification form.

Pollution Source Control

Q4.1R Indoor Chemical & Pollutant Source Control

SCA GSG committee indicated, in 22Jun2018 meeting minutes, that credit documented.

Credit was documented and accepted during Design Phase submissions.

See Q1.1R above for copy of stamped and signed cover page of the final Air Balancing Report.

Q4.2R Electric Ignition Stoves

SCA GSG committee indicated this credit as not feasible at 12 November 2014 and 12 March 2015 meetings.

No stoves are proposed for the addition.

Q4.3R Provide HEPA Vacuums

SCA GSG committee indicated credit as anticipated at 12 November 2014 and 12 March 2015 meetings.

High Efficiency Particulate Arrestor (HEPA) vacuums shall be provided through the SCA/F&E Unit as part of the initial equipment for the school.

From: MENDEZ, DIANA
Sent: Tuesday, March 04, 2008 5:57 PM
To: SHAH, ARTI
Cc: MAJOR, NICOLE
Subject: RE: HEPA Vacuums and Recycling Bins

Arti:

The maintenance equipment list provided to new buildings is selected and approved by DOE/DSF, not F&E. The DOE/DSF approved list includes (2) HEPA vacuums. Please note there are other vacuums also provided (backpack vacuum and wet/dry vacuum).

Diana Mendez
Manager, Operations - F&E
NYC School Construction Authority

Controllability of Systems

Q5.1R Controllability of Systems – Lighting

SCA GSG committee indicated credit as anticipated at 12 November 2014 and 21 May 2015 meetings.

Credit was documented and accepted during Design Phase submissions and there is no documentation that requires an update.

Q5.2R Controllability of Systems – Thermal Comfort

SCA GSG committee indicated credit as anticipated at 12 November 2014 and 12 March 2015 meetings

Credit was documented and accepted during Design Phase submissions and there is no documentation that requires an update.

Thermal Comfort

Q6.1R Thermal Comfort – Design

SCA GSG committee indicated credit as anticipated at 12 November 2014 and 12 March 2015 meeting**s.**

Credit was documented and accepted during Design Phase submissions and there is no documentation that requires an update.

Lighting and Views

Q7.1 (75% classrooms), 7.2(90% classrooms) Daylight and Views – Daylight

SCA GCG committee agrees this credit is not feasible at 12 March 2015 meeting.

Credit was documented and agreed to as not feasible during Design Phase submissions and there is no documentation that requires an update.

7.3 (75% other spaces) Daylight and Views – Daylight

SCA GCG committee agrees this credit is not feasible at 12 March 2015 meeting.

Credit was documented and agreed to as not feasible during Design Phase submissions and there is no documentation that requires an update.

Q7.4 Daylight and Views – Views

SCA GSG committee indicated credit as anticipated at 12 March 2015 meeting.

Credit was documented and accepted during Design Phase submissions and there is no documentation that requires an update.

Q7.5 Visual Performance – Artificial Direct-Indirect Lighting

SCA GSG committee indicated credit as denied at the 21 May 2015 meeting as the documentation provided does not satisfactorily demonstrate compliance with SCA design requirements.

Credit was documented as denied during Design Phase submissions and there is no documentation that requires an update.

Acoustics

Q8.1R Minimum Acoustical Performance

SCA GSG committee indicated credit as anticipated at 12 November 2014 and 12 March 2015 meetings.

Credit was documented and accepted during Design Phase submissions and there is no documentation that requires an update.

Q8.2 Enhanced Acoustical Performance

SCA GSG committee indicated credit as anticipated at 12 November 2014 and 12 March 2015 meetings.

Credit was documented and accepted during Design Phase submissions and there is no documentation that requires an update.

Q8.3 Acoustic Windows

SCA GSG committee agreed credit not feasible at 12 November 2014 and 12 March 2015 meetings.

Credit was documented and agreed to as not feasible during Design Phase submissions and there is no documentation that requires an update.

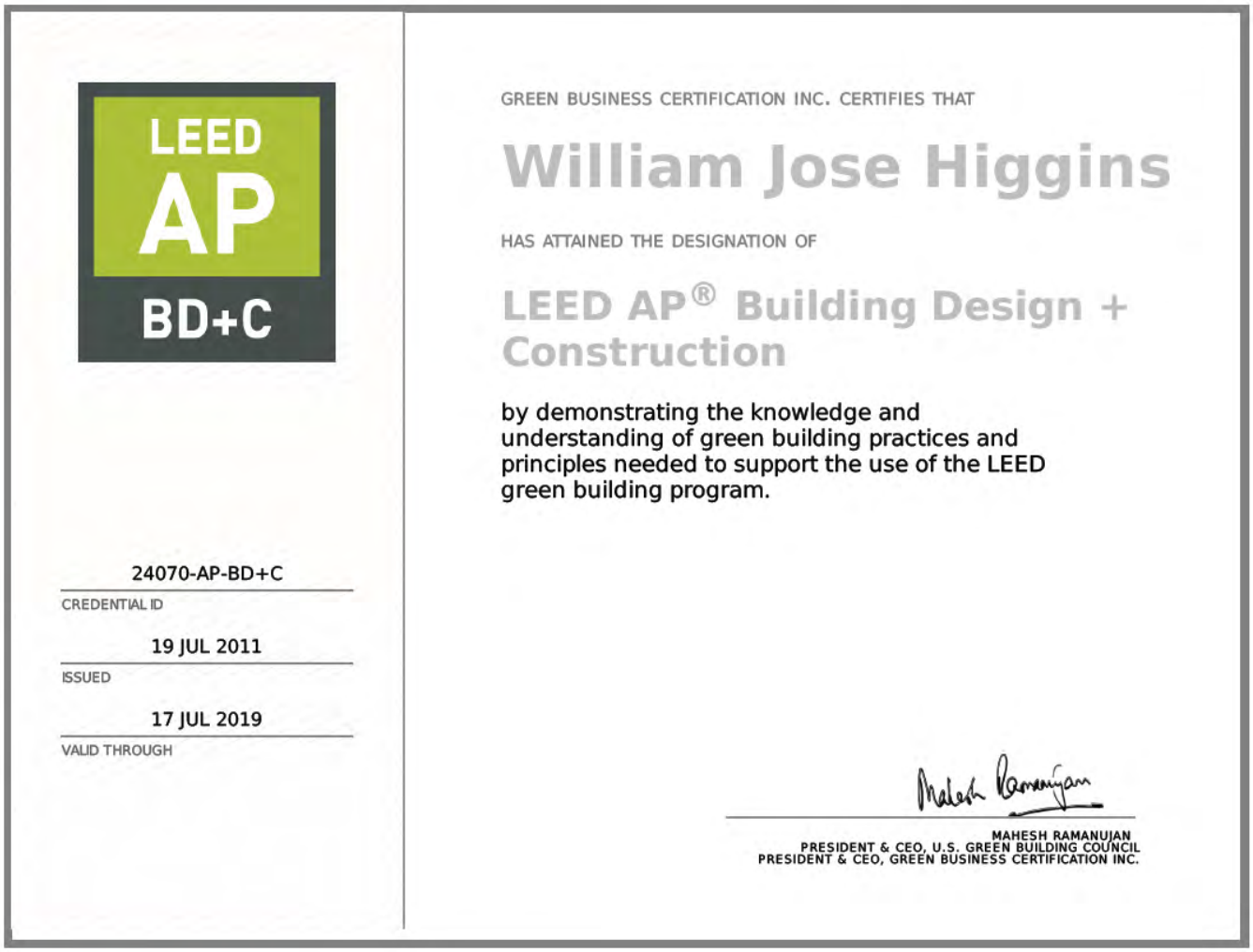
Additional Credits

Required Support

A1.1R LEED Accredited Professional

SCA GSG committee agreed credit not feasible at 12 November 2014 and 12 March 2015 meetings.

William Jose Higgins, EME Consulting Engineers Group – Green Consultant



A1.2 Innovation: Active Design

SCA GSG agreed credit not feasible at 12 November 2014 and 12 March 2015 meetings.

Credit was documented and agreed to as not feasible during Design Phase submissions and there is no documentation that requires an update.

Optional Site Impact

A2.1 Heat Island Effect – Non-Roof

Not authorized by SCA.

A2.2 Stormwater Design – Quantity Control

Not authorized by SCA.

Optional - Energy

A3.1 Optimize Energy Performance

GSG committee indicated credit as anticipated at 4 June 2015 meeting.

Based on the Energy Model Report dated 16 June 2015, there is an energy cost savings of 19.**0**%, earning 4 points under this credit.

See Ec4.1R for LL86 forms.

A3.2 Renewable Energy

Not authorized by SCA.

Optional - IEQ

A4.1 Low-Emitting Materials - Furniture

Not authorized by SCA.

Refer to Appendix B for the Construction Phase Certification form.

A4.2 Low-Emitting Materials – Ceiling and Wall Systems

Not authorized by SCA.

Refer to Appendix B for the Construction Phase Certification form.

Optional - Education

A5.1 Building as a Teaching Tool

Not authorized by SCA.

Refer to Appendix B for the Construction Phase Certification form.

No other credit narratives and/or information required for the Construction Submission.

APPENDIX A

Credit Supporting Documentation

Credit S1.1R: Exterior and Interior Dust Control Plans, Digital photos during construction from contractor, and Inspection logs during construction from contractor.

Darcon Construction Inc.

360 Meacham Ave.
Elmont, NY 11003

Phone: 516-358-2533
Fax: 516-488-6467

November 30, 2016

EW HOWELL
245 Newtown Rd
Plainview, NY 11803
Phone:516-390-8189

Attn: Robert Isbit

Project: PS 49 Middle Village
Excavation, Foundation & Superstructure

Contract/PO #: C000014133

Re: Response to Comments on Sub. No. S01900-001-001
Dust Control Plan

Job #: EWH #03-15-13

Dear Mr. Isbit,

This is in response to returned submittal S01900-001-001.

Please be advised that Darcon will not be generating any dust inside the building. Darcon's contract for dust control pertains to work outside the building for earthwork.

Paragraph 1.21 as stated on returned submittal comment does not apply to Darcon.

Sincerely,

APRIL MANALO
Project Manager

Darcon Construction Inc.
360 Meacham Avenue
Elmont, New York 11003

Phone: (516) 358-2532
(516) 358-2533
Fax: (516) 488-6467

DUST CONTROL PLAN

This plan details potential dust control measures that Darcon will implement to minimize dust emissions during demolition and grading activities. Dust emission may result from activities during demolition and grading from wind erosion. These sources are most effectively controlled using wet suppression.

DUST MITIGATION

The main mechanism for the control of fugitive dust emissions from construction activities and wind erosion are by watering, which leads to the formation of a surface crust to reduce the available reservoir of dust. In addition to water, a wide variety of chemical dust suppressants are available to enhance the formation of a surface crust. The effectiveness of wet suppression is dependent on the type of activities occurring and the frequency of watering. The watering schedule will be determined by site conditions and site activities.

Dust control measures will include, but may not be limited to:

- Water all active construction areas at least twice daily and more often during windy periods.
- Active areas adjacent to residences should be kept damp at all times.
- Cover all hauling trucks or maintain at least 2 feet of freeboard. Apply water at least twice daily on all unpaved access roads, parking areas and staging areas. Enclose, cover, water twice daily all exposed stockpiles.
- Limit traffic speeds on any unpaved roads to 15mph.
- Install erosion control measures to prevent silt run off to public roadways.

EW HOWELL
CONSTRUCTION GROUP

DUST CONTROL PLAN

1. Any penetrations made through walls or floors will be covered after work is completed that day.
2. When debris and/or material is being moved in or out of the working spaces, EW Howell will cover and tightly fix around the debris or material to ensure a dust free situation.
3. Before construction debris is dumped into a garbage truck, EW Howell will water down the debris to ensure there will be limited dust created by the activity.
4. At the end of each day, any paths used outside the contained construction space will be properly cleaned to ensure a dust free and clean environment.
5. The site will be kept clean of miscellaneous trash.
6. Areas to be swept and/or mopped daily, after work is completed.
7. Spent material will be immediately contained and disposed of at an appropriate facility.
8. Lids will be kept on all containers of paints and coatings.
9. When possible, cleaners with low hazardous air pollutant and volatile organic compound content such as water-based, alkaline, or microbial cleaners will be used.
10. During non-working hours, the site will be left in a condition that will prevent dust from being generated. At the end of each work day, security fencing will be installed and or inspected to prevent access and additional disturbance.

Phone: (516) 358-2533
Fax: (516) 488-6467

Darcon Construction Inc.

360 Meacham Avenue
Elmont, New York 11003

EROSION CONTROL LOG

Project Name: PS 49 Middle Village
Address: 63-60 80th St., Middle Village, NY 11379
Date: 5/16/16 Time: 3:30 Weather: Sunny
Rainfall in the last 24 hrs: Yes: ____ No: ✓
Site Active: Yes ✓ No ____
Days Since Last Inspection ____

Inspection Type: Initial Inspection ✓ Regular Inspection ____ Final ____ Actve Storm Water Runoff ____ Other ____

Observations:
All tree pits have been installed per plan
Bale dike and silt fence installed per plan
Filter fabric installed @ all drains per plan
(More Space - next page)

Corrective Actions Taken/Needed:
(More Space - next page)

Have Any Changes Been Made to the ESCP: Yes ____ No ✓
If Yes, What Changes Have Been Made: ____

Have The Changes Been Documented: Red Lines: Yes N/A No ____ Action Plan: Yes: ____ No: ____

Inspected By: Print Name: Bill Lape Title: Super
Signature: ____

Phone: (516) 358-2533
Fax: (516) 488-6467

Darcon Construction Inc.
360 Meacham Avenue
Elmont, New York 11003

EROSION CONTROL LOG

Project Name: PS 49 Middle Village
Address: 63-60 80th St., Middle Village, NY 11379
Date: 6/1/16 Time: 8:30 Weather: Sunny
Rainfall in the last 24 hrs: Yes: ____ No: ✓
Site Active: Yes ✓ No ____
Days Since Last Inspection 15

Inspection Type: Initial Inspection ____ Regular Inspection ✓ Final ____ Actve Storm Water Runoff ____ Other ____

Observations:
Tree pits are all in order, no adjustments needed
Silt fence and bale dike in good shape
Drainage is clean of from silt and debris

(More Space - next page)

Corrective Actions Taken/Needed:

(More Space - next page)

Have Any Changes Been Made to the ESCP: Yes ____ No ✓
If Yes, What Changes Have Been Made: ____

Have The Changes Been Documented: Red Lines: Yes N/A No ____ Action Plan: Yes: ____ No: ____

Inspected By: Print Name: Bill Lage Title: Super
Signature: ____


Silt Fence
05/23/2016 18:49


EXIT
Silt Fence

Phone: (516) 358-2533
Fax: (516) 488-6467

Darcon Construction Inc.

360 Meacham Avenue
Elmont, New York 11003

EROSION CONTROL LOG

Project Name: PS 49 Middle Village Address: 62-00 58th St, Middle Village NY
Date: 10/28/2016 Time: 10:00 AM Weather: cloudy Rainfall in the last 24 hrs: Yes: ✓ No:
Site Active: Yes ✓ No Days Since Last Inspection 5 days

Inspection Type: Initial Inspection ____ Regular Inspection ✓ Final ____ Actve Storm Water Runoff ____ Other ____

Observations:
Tracking pad needs maintenance
tree guards/protection in good condition. No adjustment needed
Drainage is clean from silt & debris

(More Space - next page)

Corrective Actions Taken/Needed:
stone for tracking pad replaced + compacted

(More Space - next page)

Have Any Changes Been Made to the ESCP: Yes ____ No ✓
If Yes, What Changes Have Been Made: ____

Have The Changes Been Documented: Red Lines: Yes ____ No ____ Action Plan: Yes: ____ No: ____

Inspected By: Print Name: STEVEN CERRITO Title: Site Super
Signature: ____


Construction Entrance
10/28/2016 7:37 AM

SIDEWALK
CLOSED
Construction Entrance
10/28/2016 8:06 AM

Tree Protection
10/28/2010 3:10 PM

Tree Protection
10/28/2016 3:05 PM

REVIEWED FOR SUBMISSION
PS /IS 49 Queens
SCA Contract #: C000014133
LLW 000232

HOWELL

Submittal # 501900-002-003
1/5/17

Phone: (516) 358-2533
Fax: (516) 488-6467

Darcon Construction Inc.

360 Meacham Avenue
Elmont, New York 11003

EROSION CONTROL LOG

Project Name: PS 49 Middle Village
Address: ______
Date: 12/16/16 Time: 1:00 pm Weather: Clear, Partly Cloudy
Rainfall in the last 24 hrs: Yes: ______ No: ✓
Site Active: Yes ✓ No ______
Days Since Last Inspection ______

Inspection Type: Initial Inspection ______ Regular Inspection ✓ Final ______ Actve Storm Water Runoff ______ Other ______

Observations:
Drainage Inlet protection inspected. No build up, well maintained.

(More Space - next page)

Corrective Actions Taken/Needed:
NONE

(More Space - next page)

Have Any Changes Been Made to the ESCP: Yes ______ No ✓
If Yes, What Changes Have Been Made: ______

Have The Changes Been Documented: Red Lines: Yes ______ No ______ Action Plan: Yes: ______ No: ______

Inspected By: Print Name: STEVEN CERUTO Title: SUPER
Signature: [signature]


Storm Drain Protection
12/16/2016 1:01 PM

REVIEWED FOR SUBMISSION

EW HOWELL

Submittal # S01900-002-002

12/14/16

Phone: (516) 358-2533
Fax: (516) 488-6467

Darcon Construction Inc.

360 Meacham Avenue
Elmont, New York 11003

EROSION CONTROL LOG

Project Name: PS 49 Middle Village
Address: 63-60 80th St., Middle Village, NY 11379

Date: 5/16/16 Time: 3:30 Weather: Sunny
Rainfall in the last 24 hrs: Yes: ____ No: ✓

Site Active: Yes ✓ No ____
Days Since Last Inspection ____

Inspection Type: Initial Inspection ✓ Regular Inspection ____ Final ____ Actve Storm Water Runoff ____ Other ____

Observations:
All tree pits have been installed per plan.
Bale dike and silt fence installed per plan
Filter fabric installed @ all drains per plan

(More Space - next page)

Corrective Actions Taken/Needed:

(More Space - next page)

Have Any Changes Been Made to the ESCP: Yes ____ No ✓
If Yes, What Changes Have Been Made:

Have The Changes Been Documented: Red Lines: Yes NA No ____ Action Plan: Yes: ____ No: ____

Inspected By: Print Name: Bill Lope Title: Super
Signature: [signature]

Phone: (516) 358-2533
Fax: (516) 488-6467

Darcon Construction Inc.
360 Meacham Avenue
Elmont, New York 11003

EROSION CONTROL LOG

Project Name: PS 49 Middle Village
Address: 63-60 80th St., Middle Village, NY 11379
Date: 6/1/16 Time: 8:30 Weather: Sunny
Rainfall in the last 24 hrs: Yes: No: ✓
Site Active: Yes ✓ No -
Days Since Last Inspection 15

Inspection Type: Initial Inspection ____ Regular Inspection ✓ Final ____ Actve Storm Water Runoff ____ Other ____

Observations:
Tree pits are all in order, no adjustments needed
Silt fence and bale dike in good shape
Drainage is clear of from silt and debris

(More Space - next page)

Corrective Actions Taken/Needed:

(More Space - next page)

Have Any Changes Been Made to the ESCP: Yes ____ No ✓
If Yes, What Changes Have Been Made: ____

Have The Changes Been Documented: Red Lines: Yes NA No ____ Action Plan: Yes: ____ No: ____

Inspected By: Print Name: Bill Lage Title: Super
Signature: ____


Straw Bale Dike
05/16/2016 8:02 AM


Straw Bale Dike, Silt Fence,
& Tree Protection
05/16/2016 3:17 PM

Construction Entrance
05/16/2016 2:33 PM


Construction Entrance
05/16/2016 2:34 PM


Tree Protection
05/16/2016 3:18 PM


Tree Protection
05/16/2016 3:25 PM

Tree Protection


Tree Protection
05/16/2016 3:28 PM

M1.5R, M1.6, & M1.7: Construction Waste Management Plan, Waste Reduction Progress Reports with sample of carting tickets, and signed letter stating total waste material diverted and method of diversion.

EW HOWELL
GENERAL CONTRACTORS / CONSTRUCTION MANAGERS

PS 49

63-60 80th Street

Middle Village, NY 11379

CONSTRUCTION WASTE MANAGEMENT PLAN

January 21, 2015

245 Newtown Road, Suite 600 • Plainview, New York 11803 • Tel (516) 921-7100 • Fax (516) 921-0119
592 Fifth Avenue-Seventh Floor • New York, New York 10036 • Tel (212) 930-1050 • Fax (212) 704-9817 www.ewhowell.com

PS 49

DEMOLITION & CONSTRUCTION WASTE MANAGEMENT PLAN

I. Objectives

The objectives of this plan are to salvage and recycle as much non-hazardous demolition & construction waste as possible.

II. Project Description

Building Site:

The project is located at 63-60 80th Street, Middle Village, New York. The site contains an existing New York City Public School, to which we will build a 3 story addition.

III. Plan Implementation, Oversight and Enforcement

1. The demolition & construction waste management plan will be managed by E.W. Howell and Bestway Carting Inc., and will encompass all general non-hazardous demolition & construction debris. The plan will provide oversight, coordination and enforcement of all waste management on site and as directed by their contract.

2. E.W. Howell will assemble copies of all tickets, receipts or other submittal information related to waste recycling, salvage or removal. The Waste Reduction Progress Reports will be submitted with each Application for Payment.

3. Bestway Carting Inc. will compile a log of the salvaged and recycled material throughout the demolition & construction phase. The log will track the total amount of salvaged and recycled materials by weight or cubic yards. The amount of the materials sent to the landfill by weight or cubic yards, and the overall salvage recycled rate for the project (see attachments for format). The log will be updated and presented to EWH for review on a monthly basis.

IV. Waste Management Measures During Demolition & Construction

During the demolition & construction and site preparation phase, all salvage and recycling activities will be undertaken by E.W. Howell. The target material, sorting methods and required submittals are described below:

During the demolition & construction phase, all salvage and recycling activities will be undertaken by E.W. Howell along with Bestway Carting Inc. The target materials, sorting methods and required submittals are described below.

PS 49

LIST OF TARGETED DEMOLITION & CONSTRUCTION WASTE FOR SALVAGE/RECYCLING

Masonry and CMU
Wood sheet materials
Metals
Roofing
Insulation
Carpet and pad
Gypsum board
Piping
Electrical conduit
Packaging materials; paper, cardboard, boxes, plastic sheet and film, polystyrene packaging, wood crates and plastic pails

POINTS OF WASTE GENERATION – FOR DEMOLITION & CONSTRUCTION

1. 63-60 80TH Street
   Middle Village, NY 11379

Demolition of existing structures and construction waste from the addition.

SORTING METHODS

1. All demolition & construction waste material will be gathered in a central location and then trucked to a remote location to be off loaded by Bestway Carting Inc. for sorting and recycling. E.W. Howell will provide a letter from Bestway Carting Inc. on their letterhead declaring their recycling rate and list the receiving facilities/companies that will be purchasing or accepting the recycled or salvaged materials.

MATERIALS/EQUIPMENT PROTECTION METHODS

1. All reusable materials will be cleaned and stored on site in a lockable storage container. E.W. Howell does not foresee that there will be any reusable material. All new material will be stored in a dry safe place on site.

DOCUMENTATION TO BE PROVIDED

1. Waste Management Plan
2. Waste Reduction Progress Reports; weight tickets and receipts from companies listed below.

Demolition Phase (estimated quantities and percentages):

Material	Quantity	%	Recycle/Salvage/Processing Company	On-site Handling Procedure
Concrete	0 tons	0		
Masonry & CMU	25 tons	82		
Ceramic Tile	0 tons	0		
Sheetrock	0 tons	0		
Metal Studs	0.5 tons	1.6		
Mixed	2.5 tons	8.2		
Garbage /Other	2.5 tons	8.2		

Construction Phase (estimated quantities and percentages):

Material	Quantity	%	Recycle/Salvage/Processing Company	On-site Handling Procedure
Wood Sheet Materials	45 tons	56		
Metals	2.7 tons	3		
Roofing	0 tons	0		
Carpet and pad	1 ton	1.5		
Gypsum board	2 tons	2.5		
Piping	0 tons	0		
Electrical Conduit	0 tons	0		
Packaging Materials (cardboard, plastic, etc)	30 tons	37		

Estimated Quantities for Salvaged, Recycled, or Disposal

	Salvaged/Recycled	Disposal
Demolition	80%	20%
Construction	80%	20%

SUBMITTALS

Bestway Carting Inc. will provide calculation and supporting documentation to demonstrate off site salvage/recycling rates meeting the goal of a minimum of 75% diversion from the landfill.

1. The total weight in tons or cubic yards of all demolition waste material sent to the landfill will be documented.
2. The total weight in tons or cubic yards of all demolition materials recycled or salvaged will be recorded.
3. Receipts or other proof of facility reception of materials will be provided to EWH when the facility purchases or accepts the recycled or salvaged materials.
4. For materials separated for recycling off site E.W. Howell will obtain a letter from the processor Bestway Carting Inc. stating the average percentage of waste they recycle along with the listing of the receiving facilities/companies that will be purchasing or accepting the recycled or salvage materials.
5. Bestway Carting Inc.will submit monthly waste management progress reports containing the following information:
   A. Project title, name of company completing report, and dates of period covered by the report.

B. Report on the disposal of all jobsite waste, including:

i. Reused or salvaged materials. For each material, the following information is to be provided

a. Amount of material salvaged in tons or cubic yards

b. The dates removed from the jobsite

c. The receiving party

FINAL CALCULATION OF DEMOLITION & CONSTRUCTION WASTE DIVERSION

Final project wide demolition & construction waste diversion rate will be calculated as follows:

Total Demolition & Construction Waste	X Tons	Total waste generated by demolition & construction
Total Recycled	Y Tons	Materials diverted from the landfill by salvage, reuse and recycling
Diversion Rate	Y/(X +Y)%	Percentage of the project waste diverted from the landfill

V. COST/REVENUE ANALYSIS

Estimated Total Quantity of Waste: 134 tons
Estimated Cost with CWM: $
Estimated Cost without CWM:
Estimated Revenue from Recycled Materials: $0
Estimated Savings in Hauling & Tipping Fees: 20%
Estimated Handling & Transportation Costs: $
Estimated Savings from CWM: 20%

VI. MEETINGS AND COMMUNICATION

The construction waste management plan will be reviewed at the kick off meeting prior to the mobilization and startup of each trade's work. Ongoing plan issues will be recorded via project meeting minutes as the project progresses.

VII. ATTACHMENTS

Bestway Carting Inc.

Since 1983 BIC # 280

Residential • Commercial • Construction Waste Removal

April 5, 2016

Construction Waste Management Plan

E.W. Howell Co., LLC Attn: Christine Schultz
Job Site Location: P.S.49 – Middle Village, NY

E.W. Howell Co., LLC will be the responsible party for implementing the WMP. The project will utilize several options to meet the goal of diverting 75% of waste from a landfill or incinerator. Construction debris will be recycled, reused, salvaged or donated when options are available. If it is necessary to route debris to a landfill/incinerator, that material will be tracked as non-recyclable demolition debris.

Primary Waste Hauler:

The project's primary waste hauler will be Bestway Carting Inc. For all material picked up at P.S.49, Bestway Carting's Truck Driver will complete a 2 ply LEED ticket noting the contents of the container(s) in percentages showing the amounts of recycled and waste material. If available, a copy of this LEED ticket is given to an E.W.Howell Co., LLC representative or project Foreman at the job site if personnel are present at the time the load is picked up. The material is then hauled and dumped at a Transfer Station Facility. The Material Recovery Facility is as follows:

Recyclables will be separated at the Transfer Station. City Recycling receives commingled Construction and Demolition Debris {C&D) from numerous haulers and trucking companies in the New York City Metropolitan area. The commingled C&D debris which is received at the facility is separated on site by a team of hand pickers as well as machinery. The material is separated into several commodities which are then sent to recyclers of that commodity. The remainder of the C&D debris received which has not been diverted is then disposed of at an authorized landfill.

As each container of debris is emptied at City Recycling Transfer Station, a Gate Manager controlling the incoming traffic does a visual assessment of the contents being dumped and notates the percentages of the mixed material being dumped onto a LEED Recycling Report Form. Waste and Recyclables are recorded on this form in separate categories such as metal, cardboard, wood, concrete, waste, etc.
These LEED Recycling Report Forms are transposed onto a Monthly Waste Management Report spreadsheet that calculates by weight or volume the material being recycled and/or disposed of at an authorized landfill.

The Monthly Waste Management Report is electronically sent to the Carting Company or General Contractor 5 business days following the reporting month.

49-60 Annadale Lane, Little Neck, NY 11362
Phone: 718-423-6473 Fax:718-281-9830

City Recycling Transfer Station

Material Handling Facilities

Material	Name	Address	Facility Type
Demolition Mixed Waste	110 Sand	120 Cabot Street W. Babylon, NY	LF
Wood - Tainted Waste	110 Sand	120 Cabot Street W. Babylon, NY	LF
Wood (clean)	Waste Mgmt	75 Thomas Street Brooklyn, NY	REC
Cardboard	Empire State	3 Railroad Place Maspeth, NY	Rec
Plastic	Empire State	3 Railroad Place Maspeth, NY	Rec
Paper	Empire State	123 Varick Avenue Brooklyn, NY 11237	Rec
Wood (clean)	Cooper Tank	222 Maspeth Avenue Brook.Jyn, NY 11211	Rec
Metal	Benson Scrap	543 Smith Street Brooklyn, NY	Rec
Metal	TNT	340 Maspeth Ave Brooklyn, NY	Rec
Metal	Sixth Street	163 6th Street Brooklyn, NY	Rec
Rock, Dirt, Brick & Concrete	Vanbro	1900 South Avenue Staten Island, NY	Rec
Rock, Dirt, Brick & Concrete	Durante Bros.	31-40 123rd Street Flushing, NY 11354	Rec

Construction Waste Mangement
Credit M1.5R, M1.6 and M1.7

E.W. HOWELL
Submittal # S01524-002-01
1/11/17

SCA School Construction Authority
NYC Green Schools Rating System

Project: PS/IS 49Q
Address: 63-60 80th Street, Middle Village, NY 11379
LLW: 089232
Date: End of July 2016

Contractor: E.W. Howell
Preparer: Molly Rooney
Telephone:

Table 1: Construction Waste Management diversion Summary

Diverted / Recycled Materials Description	Diversion / Recycling Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
Concrete	Bestway	0.00	Tons
Wood	Bestway	4.83	Tons
Gypsum Wallboard	Bestway	0.19	Tons
Masonry	Bestway	0.00	Tons
Crushed Asphalt	Bestway	0.00	Tons
Masonry	Bestway	14.71	Tons
Cardboard	Bestway	0.55	Tons
Other: Metal	Bestway	0.21	Tons
Other: Waste	Bestway	3.45	Tons
Other: Plastic	Bestway	1.47	Tons
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
TOTAL CONSTRUCTION WASTE DIVERTED		21.96	

Landfill materials Description	Landfill Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
General Mixed Waste	Bestway	3.45	Tons
Other:			
Other:			
TOTAL CONSTRUCTION WASTE SENT TO LANDFILL		3.45	

TOTAL OF ALL CONSTRUCTION WASTE	25.41	
PERCENTAGE OF CONSTRUCTION WASTE DIVERTED FROM LANDFILL	86%	

05/01/09

Electronic copy of Form can be downloaded from SCA web site

Project Total as of end of July 2016

City Recycling Transfer Station 151 Anthony Street Brooklyn, NY 11222 Tel.# 718-599-6573 Fax.# 718-388-6473

Construction Waste Management Monthly Tracking Form

Project Name: PS 49
Project Location Middle Village
Project No.

Prepared Name: City Recycling Transfer Station
Dawn M. Mantz-Torres
Title: Administrator
Date: 8/15/2016

Verified by Name: E.W. Howell
Christine Schultz
Title:
Date:

Ticket No.	Date	Waste Handler	Materials Recipient	Container Volume (Cu. Yds)	Total Weight (Tons)	Recycled Material									Weight of Recycled Material	Weight of Landfilled Materials	
						Wood	Metal	Gypsum	CMU	Paper/ Cardboard	Fills/ Fines & Regrinds	Masonry	Rubbish	Plastic			
17486	7/19/2016	Bestway	City Recycling	N/A	2.05	1.54	0.00	0.00	0.00	0.10	0.00	0.10	0.21	0.10	1.85	0.21	2.05
21335	7/21/2016	Bestway	City Recycling	N/A	0.83	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.04	0.12	0.79	0.04	0.83
21340	7/27/2016	Bestway	City Recycling	N/A	9.22	0.00	0.00	0.00	0.00	0.00	0.00	8.30	0.00	0.92	9.22	0.00	9.22
21384	7/28/2016	Bestway	City Recycling	N/A	2.58	1.16	0.13	0.00	0.00	0.26	0.00	0.13	0.77	0.13	1.81	0.77	2.58
21385	7/29/2016	Bestway	City Recycling	N/A	6.87	0.00	0.00	0.00	0.00	0.00	0.00	6.18	0.69	0.00	6.18	0.69	6.87
17497	7/29/2016	Bestway	City Recycling	N/A	3.87	1.55	0.00	0.19	0.00	0.19	0.00	0.00	1.74	0.19	2.13	1.74	3.87
					25.42	4.83	0.21	0.19	0.00	0.55	0.00	14.71	3.45	1.47			25.42
														Total	21.97	3.45	25.42
														RECYCLING % THIS PERIOD		86%	

Sample

Since 1983
BIC #280

BESTWAY CARTING
Mini & Rolloff Containers

17486

TEL: 718-423-6473
297 Norman Avenue
Brooklyn, New York 11222
FAX: 718-281-9830

LEED RECYCLING REPORT

Customer Name: EW Howell		Date: 7-19-16
Job Location: 63-30 80 St		
Ticket #: 66907	Yards: 20	Tons: 2.05
Driver's Name: Dave		Truck #: 18

Name / Authorized Signature: By signing below, I agree to the content described within the body of % of material to be true and correct

X

% OF MATERIAL BY VOLUME

PLASTIC	5 %	CARPET	X %
PAPER/CARDBOARD	5 %	CLEAN WOOD	75 %
METAL	X %	SCREEN FINES	X %
6" MINUS	%	WASTE	10 %
SHEET ROCK, WALLBOARD	X %		
BRICK, CONCRETE, MASONRY	5 %		
ROOFING MATERIAL	X %		

INSTRUCTIONS: Estimate the amount or recyclables by volume. Give driver a copy and keep one for the office.

DAWN MANTZ
Coordinator
Office: 718-599-6573 • Fax: 718-388-6184

Construction Waste Mangement
Credit M1.5R, M1.6 and M1.7

School Construction Authority
NYC Green Schools Rating System

Project: PS/IS 49Q
Address: 63-60 80th Street, Middle Village, NY 11379
LLW: 089232
Date: End of August 2016

Contractor: E.W. Howell
Preparer: Molly Rooney
Telephone:

Table 1: Construction Waste Management diversion Summary

Diverted / Recycled Materials Description	Diversion / Recycling Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
Concrete	Bestway	0.00	Tons
Wood	Bestway	7.24	Tons
Gypsum Wallboard	Bestway	1.45	Tons
Masonry	Bestway	0.00	Tons
Crushed Asphalt	Bestway	0.00	Tons
Masonry	Bestway	14.94	Tons
Cardboard	Bestway	1.21	Tons
Other: Metal	Bestway	1.10	Tons
Other: Waste	Bestway	5.67	Tons
Other: Plastic	Bestway	2.15	Tons
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
TOTAL CONSTRUCTION WASTE DIVERTED		28.09	

Landfill materials Description	Landfill Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
General Mixed Waste	Bestway	5.67	Tons
Other:			
Other:			
TOTAL CONSTRUCTION WASTE SENT TO LANDFILL		5.67	

TOTAL OF ALL CONSTRUCTION WASTE	33.76	
PERCENTAGE OF CONSTRUCTION WASTE DIVERTED FROM LANDFILL	83%	

05/01/09

Electronic copy of Form can be downloaded from SCA web site

Project Total as of end of August 2016

City Recycling Transfer Station 151 Anthony Street Brooklyn, NY 11222 Tel.# 718-599-6573 Fax.# 718-388-6473

Construction Waste Management Monthly Tracking Form

Project Name: PS 49
Project Location Middle Village
Project No.

Prepared Name: City Recycling Transfer Station
Dawn M. Mantz-Torres
Title: Administrator
Date: 9/14/2016

Verified by Name: E.W. Howell
Christine Schultz
Title:
Date:

Ticket No.	Date	Waste Handler	Materials Recipient	Container Volume (Cu. Yds)	Total Weight (Tons)	Recycled Material									Weight of Recycled Material	Weight of Landfilled Materials	
						Wood	Metal	Gypsum	CMU	Paper/ Cardboard	Fills/ Fines & Regrinds	Masonry	Rubbish	Plastic			
21387	8/1/2016	Bestway	City Recycling	N/A	1.72	0.43	0.00	0.60	0.00	0.09	0.00	0.09	0.34	0.17	1.38	0.34	1.72
21389	8/3/2016	Bestway	City Recycling	N/A	0.60	0.12	0.00	0.06	0.00	0.03	0.00	0.00	0.33	0.06	0.27	0.33	0.60
20751	8/5/2016	Bestway	City Recycling	N/A	1.43	0.50	0.14	0.29	0.00	0.07	0.00	0.14	0.14	0.14	1.29	0.14	1.43
20754	8/12/2016	Bestway	City Recycling	N/A	1.60	0.16	0.00	0.16	0.00	0.32	0.00	0.00	0.80	0.16	0.80	0.80	1.60
21482	8/22/2016	Bestway	City Recycling	N/A	2.99	1.20	0.75	0.15	0.00	0.15	0.00	0.00	0.60	0.15	2.39	0.60	2.99
					8.34	2.41	0.89	1.26	0.00	0.66	0.00	0.23	2.22	0.68			8.34
															Total	6.13	2.22	8.34
															RECYCLING % THIS PERIOD		73%	

Since 1983
BIC #280

BESTWAY CARTING
Mini & Rolloff Containers

Sample

21387

TEL: 718-423-6473
297 Norman Avenue
Brooklyn, New York 11222
FAX: 718-281-9830

LEED RECYCLING REPORT

Customer Name: E W HOWELL		Date: 08/01/16
Job Location: 63-60 80ST QUEENS		
Ticket #: 669479	Yards: 10	Tons: 1.72 TONS
Driver's Name: ZEVON		Truck #: 22

Name / Authorized Signature: By signing below, I agree to the content described within the body of % of material to be true and correct.

X

% OF MATERIAL BY VOLUME

PLASTIC	10 %	CARPET	— %
PAPER/CARDBOARD	5 %	CLEAN WOOD	25 %
METAL	— %	SCREEN FINES	— %
6" MINUS	— %	WASTE	20 %
SHEET ROCK, WALLBOARD	35 %		
BRICK, CONCRETE, MASONRY	5 %		
ROOFING MATERIAL	— %		

INSTRUCTIONS: Estimate the amount or recyclables by volume. Give driver a copy and keep one for the office.

DAWN MANTZ
Coordinator
Office: 718-599-6573 • Fax: 718-388-6184

Construction Waste Mangement
Credit M1.5R, M1.6 and M1.7

SCA School Construction Authority
NYC Green Schools Rating System

Project: PS/IS 49Q
Address: 63-60 80th Street, Middle Village, NY 11379
LLW:
Date: End of September 2016

Contractor: E.W. Howell
Preparer: Molly Rooney
Telephone:

Table 1: Construction Waste Management diversion Summary

Diverted / Recycled Materials Description	Diversion / Recycling Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
Concrete	Bestway	0.00	Tons
Wood	Bestway	11.09	Tons
Gypsum Wallboard	Bestway	4.26	Tons
Crushed Asphalt	Bestway	0.00	Tons
Masonry	Bestway	18.12	Tons
Cardboard	Bestway	2.87	Tons
Other: Metal	Bestway	2.24	Tons
Other: Waste	Bestway	7.13	Tons
Other: Plastic	Bestway	3.72	Tons
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
TOTAL CONSTRUCTION WASTE DIVERTED		42.30	

Landfill materials Description	Landfill Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
General Mixed Waste	Bestway	7.13	Tons
Other:			
Other:			
TOTAL CONSTRUCTION WASTE SENT TO LANDFILL		7.13	

TOTAL OF ALL CONSTRUCTION WASTE	49.43	
PERCENTAGE OF CONSTRUCTION WASTE DIVERTED FROM LANDFILL	86%	

05/01/09

Electronic copy of Form can be downloaded from SCA web site

Project Total as of end of August 2016

City Recycling Transfer Station 151 Anthony Street Brooklyn, NY 11222 Tel.# 718-599-6573 Fax.# 718-388-6473

Construction Waste Management Monthly Tracking Form

Project Name: PS 49
Project Location Middle Village
Project No.

Prepared Name: City Recycling Transfer Station
Dawn M. Mantz-Torres
Title: Administrator
Date: 10/10/2016

Verified by Name: E.W. Howell
Christine Schultz
Title:
Date:

Ticket No.	Date	Waste Handler	Materials Recipient	Container Volume (Cu. Yds)	Total Weight (Tons)	Recycled Material									Weight of Recycled Material	Weight of Landfilled Materials	
						Wood	Metal	Gypsum	CMU	Paper/ Cardboard	Fills/ Fines & Regrinds	Masonry	Rubbish	Plastic			
21502	9/1/2016	Bestway	City Recycling	N/A	1.53	0.38	0.00	0.54	0.00	0.08	0.00	0.08	0.31	0.15	1.22	0.31	1.53
21525	9/13/2016	Bestway	City Recycling	N/A	2.20	0.22	0.00	0.22	0.00	0.00	0.00	1.32	0.22	0.22	1.98	0.22	2.20
21536	9/19/2016	Bestway	City Recycling	N/A	1.29	0.65	0.13	0.13	0.00	0.13	0.00	0.00	0.13	0.13	1.16	0.13	1.29
21631	9/22/2016	Bestway	City Recycling	N/A	2.47	0.86	0.25	0.49	0.00	0.12	0.00	0.25	0.25	0.25	2.22	0.25	2.47
21663	9/29/2016	Bestway	City Recycling	N/A	5.11	0.51	0.00	1.28	0.00	1.02	0.00	1.53	0.26	0.51	4.85	0.26	5.11
21711	9/30/2016	Bestway	City Recycling	N/A	3.07	1.23	0.77	0.15	0.00	0.31	0.00	0.00	0.31	0.31	2.76	0.31	3.07
					15.67	3.85	1.14	2.81	0.00	1.66	0.00	3.18	1.46	1.57			15.67
															Total	14.21	1.46	15.67
															RECYCLING % THIS PERIOD		91%	

Since 1983
BIC #280

BESTWAY CARTING
Mini & Rolloff Containers

21502

Sample

49-60 Annandale Lane
TEL: 718-423-6473 Little Neck, New York 11362 FAX: 718-281-9830

LEED RECYCLING REPORT

Customer Name:	EW Howell	Date:	9/1/2016
Job Location:	63rd 80th St.		
Ticket #: 677021	Yards: 10	Tons:	1.53
Driver's Name:		Truck #:	

Name / Authorized Signature: By signing below, I agree to the content described within the body of % of material to be true and correct.

X _____

% OF MATERIAL BY VOLUME

PLASTIC 10 %
PAPER/CARDBOARD 5 %
METAL ____ %
6" MINUS ____ %
SHEET ROCK, WALLBOARD 35 %
BRICK, CONCRETE, MASONRY 5 %
ROOFING MATERIAL ____ %

CARPET ____ %
CLEAN WOOD 25 %
SCREEN FINES ____ %
WASTE 20 %

INSTRUCTIONS: Estimate the amount or recyclables by volume. Give driver a copy and keep one for the office.

DAWN MANTZ
Coordinator
Office: 718-599-6573 • Fax: 718-388-6184

Construction Waste Mangement

Credit M1.5R, M1.6 and M1.7

SCA School Construction Authority
NYC Green Schools Rating System

Project: PS/IS 49Q
Address: 63-60 80th Street, Middle Village, NY 11379
LLW:
Date: End of October 2016

Contractor: E.W. Howell
Preparer: Molly Rooney
Telephone:

Table 1: Construction Waste Management diversion Summary

Diverted / Recycled Materials Description	Diversion / Recycling Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
Concrete	Bestway	0.00	Tons
Wood	Bestway	20.11	Tons
Gypsum Wallboard	Bestway	8.42	Tons
Crushed Asphalt	Bestway	0.00	Tons
Masonry	Bestway	21.42	Tons
Cardboard	Bestway	5.43	Tons
Other: Metal	Bestway	2.43	Tons
Other: Waste	Bestway	11.18	Tons
Other: Plastic	Bestway	6.51	Tons
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
TOTAL CONSTRUCTION WASTE DIVERTED		84.32	

Landfill materials Description	Landfill Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
General Mixed Waste	Bestway	11.18	Tons
Other:			
Other:			
TOTAL CONSTRUCTION WASTE SENT TO LANDFILL		11.18	

TOTAL OF ALL CONSTRUCTION WASTE	75.50	
PERCENTAGE OF CONSTRUCTION WASTE DIVERTED FROM LANDFILL	85%	

05/01/09

Electronic copy of Form can be downloaded from SCA web site

Project Total as of end of October 2016

City Recycling Transfer Station 151 Anthony Street Brooklyn, NY 11222 Tel.# 718-599-6573 Fax.# 718-388-6473

Construction Waste Management Monthly Tracking Form

Project Name: PS 49
Project Location Middle Village
Project No.

Prepared Name: City Recycling Transfer Station
Dawn M. Mantz-Torres
Title: Administrator
Date: 11/15/2016

Verified by Name: E.W. Howell
Christine Schultz
Title:
Date:

Ticket No.	Date	Waste Handler	Materials Recipient	Container Volume (Cu. Yds)	Total Weight (Tons)	Recycled Material									Weight of Recycled Material	Weight of Landfilled Materials	
						Wood	Metal	Gypsum	CMU	Paper/ Cardboard	Fills/ Fines & Regrinds	Masonry	Rubbish	Plastic			
21532	10/5/2016	Bestway	City Recycling	N/A	4.18	1.05	0.00	1.46	0.00	0.21	0.00	0.21	0.84	0.42	3.34	0.84	4.18
21591	10/10/2016	Bestway	City Recycling	N/A	1.92	0.19	0.19	0.38	0.00	0.19	0.00	0.00	0.77	0.19	1.15	0.77	1.92
21632	10/14/2016	Bestway	City Recycling	N/A	2.02	0.20	0.00	0.20	0.00	0.00	0.00	1.21	0.20	0.20	1.82	0.20	2.02
21669	10/18/2016	Bestway	City Recycling	N/A	1.81	0.45	0.00	0.18	0.00	0.54	0.00	0.09	0.18	0.36	1.63	0.18	1.81
21789	10/20/2016	Bestway	City Recycling	N/A	5.32	2.66	0.00	0.53	0.00	0.53	0.00	0.53	0.53	0.53	4.79	0.53	5.32
21805	10/26/2016	Bestway	City Recycling	N/A	6.27	2.19	0.00	0.94	0.00	0.63	0.00	1.25	0.63	0.63	5.64	0.63	6.27
17008	10/28/2016	Bestway	City Recycling	N/A	4.54	2.27	0.00	0.45	0.00	0.45	0.00	0.00	0.91	0.45	3.63	0.91	4.54
					26.06	9.02	0.19	4.16	0.00	2.56	0.00	3.30	4.05	2.79			26.06
															Total	22.01	4.05	26.06
															RECYCLING % THIS PERIOD		84%	

Since 1983
BIC #280

BESTWAY CARTING
Mini & Rolloff Containers

21532

Sample

49-60 Annandale Lane
TEL: 718-423-6473 Little Neck, New York 11362 FAX: 718-281-9830

LEED RECYCLING REPORT

Customer Name: EW Howell	Date: 10/5/16
Job Location: 63-60 80th St	
Ticket #: 683041 Yards: 10	Tons: 4.18 ←
Driver's Name:	Truck #:

Name / Authorized Signature: By signing below, I agree to the content described within the body of % of material to be true and correct.

X _____

% OF MATERIAL BY VOLUME

PLASTIC 10 %
CARPET ____ %
PAPER/CARDBOARD 5 %
CLEAN WOOD 25 %
METAL ____ %
SCREEN FINES ____ %
6" MINUS ____ %
WASTE 20 %
SHEET ROCK, WALLBOARD 35 %
BRICK, CONCRETE, MASONRY 5 %
ROOFING MATERIAL ____ %

INSTRUCTIONS: Estimate the amount or recyclables by volume. Give driver a copy and keep one for the office.

DAWN MANTZ
Coordinator
Office: 718-599-6573 • Fax: 718-388-6184

Construction Waste Mangement
Credit M1.5R, M1.6 and M1.7

SCA School Construction Authority
NYC Green Schools Rating System

Project: PS/IS 49Q
Address: 63-60 80th Street, Middle Village, NY 11379
LLW:
Date: End of November 2016

Contractor: E.W. Howell
Preparer: Molly Rooney
Telephone:

Table 1: Construction Waste Management diversion Summary

Diverted / Recycled Materials Description	Diversion / Recycling Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
Concrete	Bestway	0.00	Tons
Wood	Bestway	26.15	Tons
Gypsum Wallboard	Bestway	11.42	Tons
Crushed Asphalt	Bestway	0.00	Tons
Masonry	Bestway	30.42	Tons
Cardboard	Bestway	7.45	Tons
Other: Metal	Bestway	3.93	Tons
Other: Waste	Bestway	16.79	Tons
Other: Plastic	Bestway	9.53	Tons
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
TOTAL CONSTRUCTION WASTE DIVERTED		88.90	

Landfill materials Description	Landfill Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
General Mixed Waste	Bestway	16.79	Tons
Other:			
Other:			
TOTAL CONSTRUCTION WASTE SENT TO LANDFILL		16.79	

TOTAL OF ALL CONSTRUCTION WASTE	105.69	
PERCENTAGE OF CONSTRUCTION WASTE DIVERTED FROM LANDFILL	84%	

05/01/09

Electronic copy of Form can be downloaded from SCA web site

Project Total as of end of November 2016

City Recycling Transfer Station 151 Anthony Street Brooklyn, NY 11222 Tel.# 718-599-6573 Fax.# 718-388-6473

Construction Waste Management Monthly Tracking Form

Project Name: PS 49
Project Location: Middle Village
Project No.

Prepared Name: City Recycling Transfer Station / Dawn M. Mantz-Torres
Title: Administrator
Date: 12/21/2016

Verified by Name: E.W. Howell / Molly Rooney
Title:
Date:

Ticket No.	Date	Waste Handler	Materials Recipient	Container Volume (Cu. Yds)	Total Weight (Tons)	Recycled Material									Weight of Recycled Material	Weight of Landfilled Materials	
						Wood	Metal	Gypsum	CMU	Paper/ Cardboard	Fills/ Fines & Regrinds	Masonry	Rubbish	Plastic			
21688	11/7/2016	Bestway	City Recycling	N/A	10.37	3.63	0.00	0.00	0.00	0.52	0.00	1.56	3.63	1.04	6.74	3.63	10.37
111016	11/10/2016	Bestway	City Recycling	N/A	4.82	2.41	0.00	0.00	0.00	0.00	0.00	1.45	0.48	0.48	4.34	0.48	4.82
21863	11/29/2016	Bestway	City Recycling	N/A	15.00	0.00	1.50	3.00	0.00	1.50	0.00	6.00	1.50	1.50	13.50	1.50	15.00
					30.19	6.04	1.50	3.00	0.00	2.02	0.00	9.00	5.61	3.02			30.19
															Total	24.58	5.61	30.19
															RECYCLING % THIS PERIOD		81%	

Since 1983
BIC #280

BESTWAY CARTING
Mini & Rolloff Containers

Sample

21688

297 Norman Avenue
Brooklyn, New York 11222

TEL: 718-423-6473

FAX: 718-281-9830

LEED RECYCLING REPORT

Customer Name:	E. W. HOWELL	Date:	11/07/16
Job Location:	63-60 80 ST QUEENS		
Ticket #:	689267	Yards: 20	Tons: 10.37 TON
Driver's Name:	ZENON		Truck #: 22

Name / Authorized Signature: By signing below, I agree to the content described within the body of % of material to be true and correct.

X

% OF MATERIAL BY VOLUME

PLASTIC	10 %	CARPET	— %
PAPER/CARDBOARD	5 %	CLEAN WOOD	35 %
METAL	— %	SCREEN FINES	%
6" MINUS	— %	WASTE	35 %
SHEET ROCK, WALLBOARD	— %		
BRICK, CONCRETE, MASONRY	15 %		
ROOFING MATERIAL	— %		

INSTRUCTIONS: Estimate the amount or recyclables by volume. Give driver a copy and keep one for the office.

DAWN MANTZ
Coordinator
Office: 718-599-6573 • Fax: 718-388-6184

Construction Waste Mangement
Credit M1.5R, M1.6 and M1.7

SCA School Construction Authority
NYC Green Schools Rating System

Project: PS/IS 49Q
Address: 63-60 80th Street, Middle Village, NY 11379
LLW:
Date: End of December 2016

Contractor: E.W. Howell
Preparer: Molly Rooney
Telephone:

Table 1: Construction Waste Management diversion Summary

Diverted / Recycled Materials Description	Diversion / Recycling Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
Concrete	Bestway	0.00	Tons
Wood	Bestway	34.33	Tons
Gypsum Wallboard	Bestway	12.93	Tons
Crushed Asphalt	Bestway	0.00	Tons
Masonry	Bestway	50.62	Tons
Cardboard	Bestway	9.55	Tons
Other: Metal	Bestway	4.82	Tons
Other: Waste	Bestway	24.03	Tons
Other: Plastic	Bestway	11.35	Tons
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
TOTAL CONSTRUCTION WASTE DIVERTED		123.60	

Landfill materials Description	Landfill Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
General Mixed Waste	Bestway	24.03	Tons
Other:			
Other:			
TOTAL CONSTRUCTION WASTE SENT TO LANDFILL		24.03	

TOTAL OF ALL CONSTRUCTION WASTE	147.63	
PERCENTAGE OF CONSTRUCTION WASTE DIVERTED FROM LANDFILL	84%	

05/01/09

Electronic copy of Form can be downloaded from SCA web site

Project Total as of end of December 2016

City Recycling Transfer Station 151 Anthony Street Brooklyn, NY 11222 Tel.# 718-599-6573 Fax.# 718-388-6473

Construction Waste Management Monthly Tracking Form

Project Name: PS 49
Project Location: Middle Village
Project No.

Prepared Name: City Recycling Transfer Station / Dawn M. Mantz-Torres
Title: Administrator
Date: 1/10/2017

Verified by Name: E.W. Howell / Molly Rooney
Title:
Date:

Ticket No.	Date	Waste Handler	Materials Recipient	Container Volume (Cu. Yds)	Total Weight (Tons)	Recycled Material									Weight of Recycled Material	Weight of Landfilled Materials	
						Wood	Metal	Gypsum	CMU	Paper/ Cardboard	Fills/ Fines & Regrinds	Masonry	Rubbish	Plastic			
21747	12/16/2016	Bestway	City Recycling	N/A	11.82	1.77	0.00	0.00	0.00	0.59	0.00	7.09	1.77	0.59	10.05	1.77	11.82
21045	12/23/2015	Bestway	City Recycling	N/A	12.26	5.52	0.00	0.61	0.00	0.61	0.00	0.61	3.68	1.23	8.58	3.68	12.26
21908	12/29/2017	Bestway	City Recycling	N/A	17.85	0.89	0.89	0.89	0.00	0.89	0.00	12.50	1.79	0.00	16.07	1.79	17.85
					41.93	8.18	0.89	1.51	0.00	2.10	0.00	20.20	7.24	1.82			41.93
												Total			34.69	7.24	41.93
												RECYCLING % THIS PERIOD				83%	

Since 1983
BIC #280

BESTWAY

CARTING
Mini & Rolloff Containers

Sample

21747

TEL: 718-423-6473
297 Norman Avenue
Brooklyn, New York 11222
FAX: 718-281-9830

LEED RECYCLING REPORT

Customer Name: EW Howell
Date: 12-16-16
Job Location: 63-60 80 & [illegible]
Ticket #: 696543
Yards: 20
Tons: 11.82
Driver's Name: [illegible]
Truck #: 18

Name / Authorized Signature: By signing below, I agree to the content described within the body of % of material to be true and correct.

X [illegible]

% OF MATERIAL BY VOLUME

PLASTIC 5 %
PAPER/CARDBOARD 5 %
METAL X %
6" MINUS X %
SHEET ROCK, WALLBOARD X %
BRICK, CONCRETE, MASONRY 60 %
ROOFING MATERIAL X %
CARPET X %
CLEAN WOOD 15 %
SCREEN FINES X %
WASTE 15 %

INSTRUCTIONS: Estimate the amount or recyclables by volume. Give driver a copy and keep one for the office.

DAWN MANTZ
Coordinator
Office: 718-599-6573 • Fax: 718-388-6184

Construction Waste Mangement
Credit M1.5R, M1.6 and M1.7

SCA School Construction Authority
NYC Green Schools Rating System

Project: PS/IS 49Q
Address: 63-60 80th Street, Middle Village, NY 11379
LLW:
Date: End of January 2017

Contractor: E.W. Howell
Preparer: Molly Rooney
Telephone:

Table 1: Construction Waste Management diversion Summary

Diverted / Recycled Materials Description	Diversion / Recycling Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
Concrete	Bestway	0.00	Tons
Wood	Bestway	64.69	Tons
Gypsum Wallboard	Bestway	23.89	Tons
Crushed Asphalt	Bestway	0.00	Tons
Masonry	Bestway	104.76	Tons
Cardboard	Bestway	20.69	Tons
Other: Metal	Bestway	8.66	Tons
Other: Waste	Bestway	44.12	Tons
Other: Plastic	Bestway	20.02	Tons
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
TOTAL CONSTRUCTION WASTE DIVERTED		242.71	

Landfill materials Description	Landfill Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
General Mixed Waste	Bestway	44.12	Tons
Other:			
Other:			
TOTAL CONSTRUCTION WASTE SENT TO LANDFILL		44.12	

TOTAL OF ALL CONSTRUCTION WASTE	286.83	
PERCENTAGE OF CONSTRUCTION WASTE DIVERTED FROM LANDFILL	85%	

05/01/09

Electronic copy of Form can be downloaded from SCA web site

Project Total as of end of January 2017

City Recycling Transfer Station 151 Anthony Street Brooklyn, NY 11222 Tel.# 718-599-6573 Fax.# 718-388-6473

Construction Waste Management Monthly Tracking Form

Project Name: PS 49
Project Location: Middle Village
Project No.

Prepared by: City Recycling Transfer Station
Name: Dawn M. Mantz-Torres
Title: Administrator
Date: 2/7/2017

Verified by: E.W. Howell
Name: Molly Rooney
Title:
Date:

Ticket No.	Date	Waste Handler	Materials Recipient	Container Volume (Cu. Yds)	Total Weight (Tons)	Recycled Material									Weight of Recycled Material	Weight of Landfilled Materials	
						Wood	Metal	Gypsum	CMU	Paper/ Cardboard	Fills/ Fines & Regrinds	Masonry	Rubbish	Plastic			
21708	1/2/2017	Bestway	City Recycling	N/A	6.09	1.22	0.00	0.00	0.00	2.74	0.00	0.00	1.52	0.61	4.57	1.52	6.09
21040	1/3/2017	Bestway	City Recycling	N/A	8.83	1.77	0.00	2.65	0.00	0.88	0.00	1.77	0.88	0.88	7.95	0.88	8.83
21022	1/10/2017	Bestway	City Recycling	N/A	11.71	1.17	0.00	1.17	0.00	0.59	0.00	7.03	1.17	0.59	10.54	1.17	11.71
21915	1/12/2017	Bestway	City Recycling	N/A	9.30	1.40	1.86	3.72	0.00	0.00	0.00	1.86	0.47	0.00	8.84	0.47	9.30
21700	1/13/2017	Bestway	City Recycling	N/A	5.54	2.22	0.28	0.55	0.00	0.28	0.00	0.00	1.66	0.55	3.88	1.66	5.54
21026	1/16/2017	Bestway	City Recycling	N/A	17.81	2.67	0.00	0.00	0.00	0.89	0.00	13.36	0.00	0.89	17.81	0.00	17.81
21160	1/17/2017	Bestway	City Recycling	N/A	17.85	1.79	0.00	0.89	0.00	0.89	0.00	12.50	0.89	0.89	16.96	0.89	17.85
21112	1/18/2017	Bestway	City Recycling	N/A	10.96	1.10	0.00	0.00	0.00	1.10	0.00	6.58	1.10	1.10	9.86	1.10	10.96
21030	1/20/2017	Bestway	City Recycling	N/A	13.97	2.10	0.14	0.84	0.00	0.70	0.00	7.96	1.96	0.28	12.01	1.96	13.97
21114	1/23/2017	Bestway	City Recycling	N/A	10.83	3.25	0.54	0.00	0.00	0.54	0.00	1.62	4.33	0.54	6.50	4.33	10.83
21704	1/24/2017	Bestway	City Recycling	N/A	6.21	2.48	0.31	0.62	0.00	0.62	0.00	0.31	1.24	0.62	4.97	1.24	6.21
21705	1/25/2017	Bestway	City Recycling	N/A	5.19	2.08	0.26	0.52	0.00	0.26	0.00	0.00	1.56	0.52	3.63	1.56	5.19
30063	1/28/2017	Bestway	City Recycling	N/A	5.83	3.50	0.00	0.00	0.00	0.29	0.00	1.17	0.58	0.29	5.25	0.58	5.83
21706	1/31/2017	Bestway	City Recycling	N/A	9.10	3.64	0.46	0.00	0.00	1.37	0.00	0.00	2.73	0.91	6.37	2.73	9.10
					139.22	30.36	3.84	10.96	0.00	11.14	0.00	54.14	20.09	8.67			139.22
															Total	119.13	20.09	139.22
															RECYCLING % THIS PERIOD		86%	

Since 1983
BIC #280

BESTWAY CARTING
Mini & Rolloff Containers

Sample
21708

TEL: 718-423-6473
297 Norman Avenue
Brooklyn, New York 11222
FAX: 718-281-9830

LEED RECYCLING REPORT

Customer Name: EW Howell		Date: 01/02/17
Job Location: 63-60 80st Queens		
Ticket #: 704579	Yards: 20	Tons: 6.09 tons
Driver's Name: Zenon		Truck #: 22

Name / Authorized Signature: By signing below, I agree to the content described within the body of % of material to be true and correct.

X _____

% OF MATERIAL BY VOLUME

PLASTIC 10 %
CARPET — %
PAPER/CARDBOARD 45 %
CLEAN WOOD 20 %
METAL — %
SCREEN FINES — %
6" MINUS — %
WASTE 25 %
SHEET ROCK, WALLBOARD — %
BRICK, CONCRETE, MASONRY — %
ROOFING MATERIAL — %

INSTRUCTIONS: Estimate the amount or recyclables by volume. Give driver a copy and keep one for the office.

DAWN MANTZ
Coordinator
Office: 718-599-6573 • Fax: 718-388-6184

Construction Waste Mangement
Credit M1.5R, M1.6 and M1.7

E.W. HOWELL

Submittal # S01524-009-001
3/16/17

SCA School Construction Authority
NYC Green Schools Rating System

Project: PS/IS 49Q
Address: 63-60 80th Street, Middle Village, NY 11379
LLW:
Date: End of February 2017

Contractor: E.W. Howell
Preparer: Molly Rooney
Telephone:

Table 1: Construction Waste Management diversion Summary

Diverted / Recycled Materials Description	Diversion / Recycling Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
Concrete	Bestway	0.00	Tons
Wood	Bestway	81.75	Tons
Gypsum Wallboard	Bestway	23.89	Tons
Crushed Asphalt	Bestway	0.00	Tons
Masonry	Bestway	129.49	Tons
Cardboard	Bestway	25.77	Tons
Other: Metal	Bestway	9.59	Tons
Other: Waste	Bestway	51.83	Tons
Other: Plastic	Bestway	23.77	Tons
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
TOTAL CONSTRUCTION WASTE DIVERTED		294.26	

Landfill materials Description	Landfill Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
General Mixed Waste	Bestway	51.83	Tons
Other:			
Other:			
TOTAL CONSTRUCTION WASTE SENT TO LANDFILL		51.83	

TOTAL OF ALL CONSTRUCTION WASTE	346.09	
PERCENTAGE OF CONSTRUCTION WASTE DIVERTED FROM LANDFILL	85%	

05/01/09

Electronic copy of Form can be downloaded from SCA web site

Project Total as of end of February 2017.xls

City Recycling Transfer Station 151 Anthony Street Brooklyn, NY 11222 Tel.# 718-599-6573 Fax.# 718-388-6473

Construction Waste Management Monthly Tracking Form

Project Name: PS 49
Project Location: Middle Village
Project No.

Prepared Name: City Recycling Transfer Station / Dawn M. Mantz-Torres
Title: Administrator
Date: 3/15/2017

Verified by Name: E.W. Howell / Molly Rooney
Title:
Date:

Ticket No.	Date	Waste Handler	Materials Recipient	Container Volume (Cu. Yds)	Total Weight (Tons)	Recycled Material									Weight of Recycled Material	Weight of Landfilled Materials	
						Wood	Metal	Gypsum	CMU	Paper/ Cardboard	Fills/ Fines & Regrinds	Masonry	Rubbish	Plastic			
30007	2/6/2017	Bestway	City Recycling	N/A	8.99	2.70	0.45	0.00	0.00	0.90	0.00	3.60	0.90	0.45	8.09	0.90	8.99
30076	2/9/2017	Bestway	City Recycling	N/A	8.09	0.81	0.00	0.00	0.00	1.21	0.00	4.85	0.81	0.40	7.28	0.81	8.09
30111	2/13/2017	Bestway	City Recycling	N/A	11.85	2.37	0.00	0.00	0.00	0.00	0.00	7.11	1.19	1.19	10.67	1.19	11.85
30015	2/16/2017	Bestway	City Recycling	N/A	2.23	0.67	0.11	0.00	0.00	0.22	0.00	0.67	0.45	0.11	1.78	0.45	2.23
30083	2/18/2017	Bestway	City Recycling	N/A	8.75	1.75	0.00	0.00	0.00	0.44	0.00	5.25	0.88	0.44	7.88	0.88	8.75
30019	2/22/2017	Bestway	City Recycling	N/A	7.43	2.97	0.37	0.00	0.00	1.11	0.00	1.49	1.11	0.37	6.32	1.11	7.43
30169	2/24/2017	Bestway	City Recycling	N/A	4.46	1.56	0.00	0.00	0.00	0.45	0.00	0.67	1.34	0.45	3.12	1.34	4.46
30171	2/25/2017	Bestway	City Recycling	N/A	3.49	1.05	0.00	0.00	0.00	0.35	0.00	0.70	1.05	0.35	2.44	1.05	3.49
30222	2/28/2017	Bestway	City Recycling	N/A	3.98	3.18	0.00	0.00	0.00	0.40	0.00	0.40	0.00	0.00	3.98	0.00	3.98
					59.27	17.06	0.93	0.00	0.00	5.08	0.00	24.73	7.71	3.75			59.27
															Total	51.56	7.71	59.27
															RECYCLING % THIS PERIOD		87%	

Since 1983
BIC #280

BESTWAY CARTING
Mini & Rolloff Containers

297 Norman Avenue
Brooklyn, New York 11222

TEL: 718-423-6473 **FAX: 718-281-9830**

Sample

30007

LEED RECYCLING REPORT

Customer Name: EW Howell		Date: 2-6-17
Job Location: 63-60 80 St		
Ticket #: 705074	Yards: 20	Tons: 8.99
Driver's Name: Chuck		Truck #: 2

Name / Authorized Signature: By signing below, I agree to the content described within the body of % of material to be true and correct.

X

% OF MATERIAL BY VOLUME

PLASTIC 5 %
CLEAN WOOD 30 %
PAPER/CARDBOARD 10 %
SCREEN FINES x %
METAL 5 %
WASTE 10 %
6" MINUS x %
BRICK, CONCRETE, MASONRY 40 %

INSTRUCTIONS: Estimate the amount or recyclables by volume. Give driver a copy and keep one for the office.

DAWN MANTZ
Coordinator
Office: 718-599-6573 • Fax: 718-388-6184

Construction Waste Mangement
Credit M1.5R, M1.6 and M1.7

HOWELL

Submittal # S01524-010-001
4/20/17

SCA **School Construction Authority**
NYC Green Schools Rating System

Project: PS/IS 49Q
Address: 63-60 80th Street, Middle Village, NY 11379
LLW:
Date: End of March 2017

Contractor: E.W. Howell
Preparer: Molly Rooney
Telephone:

Table 1: Construction Waste Management diversion Summary

Diverted / Recycled Materials Description	Diversion / Recycling Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
Concrete	Bestway	0.00	Tons
Wood	Bestway	96.79	Tons
Gypsum Wallboard	Bestway	23.89	Tons
Crushed Asphalt	Bestway	0.00	Tons
Masonry	Bestway	147.81	Tons
Cardboard	Bestway	30.35	Tons
Other: Metal	Bestway	9.59	Tons
Other: Waste	Bestway	60.01	Tons
Other: Plastic	Bestway	28.78	Tons
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
TOTAL CONSTRUCTION WASTE DIVERTED		337.21	

Landfill materials Description	Landfill Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
General Mixed Waste	Bestway	60.01	Tons
Other:			
Other:			
TOTAL CONSTRUCTION WASTE SENT TO LANDFILL		60.01	

TOTAL OF ALL CONSTRUCTION WASTE	397.22	
PERCENTAGE OF CONSTRUCTION WASTE DIVERTED FROM LANDFILL	85%	

05/01/09

Electronic copy of Form can be downloaded from SCA web site

Project Total as of end of March 2017

City Recycling Transfer Station 151 Anthony Street Brooklyn, NY 11222 Tel.# 718-599-6573 Fax.# 718-388-6473

Construction Waste Management Monthly Tracking Form

Project Name: PS 49
Project Location: Middle Village
Project No.

Prepared by: City Recycling Transfer Station
Name: Dawn M. Mantz-Torres
Title: Administrator
Date: 4/15/2017

Verified by: E.W. Howell
Name: Molly Rooney
Title:
Date:

Ticket No.	Date	Waste Handler	Materials Recipient	Container Volume (Cu. Yds)	Total Weight (Tons)	Recycled Material									Weight of Recycled Material	Weight of Landfilled Materials	
						Wood	Metal	Gypsum	CMU	Paper/ Cardboard	Fills/ Fines & Regrinds	Masonry	Rubbish	Plastic			
30272	3/3/2017	Bestway	City Recycling	N/A	6.19	2.48	0.00	0.00	0.00	0.00	0.00	2.48	0.00	1.24	6.19	0.00	6.19
30275	3/8/2017	Bestway	City Recycling	N/A	6.85	2.06	0.00	0.00	0.00	0.69	0.00	1.71	1.71	0.69	5.14	1.71	6.85
30030	3/10/2017	Bestway	City Recycling	N/A	5.75	1.73	0.29	0.00	0.00	0.86	0.00	0.58	1.44	0.86	4.31	1.44	5.75
30343	3/11/2017	Bestway	City Recycling	N/A	10.50	2.10	0.00	0.00	0.00	1.58	0.00	4.20	1.05	1.58	9.45	1.05	10.50
30290	3/20/2017	Bestway	City Recycling	N/A	3.77	2.26	0.00	0.00	0.00	0.38	0.00	0.19	0.75	0.19	3.02	0.75	3.77
30034	3/22/2017	Bestway	City Recycling	N/A	6.11	1.22	0.61	0.00	0.00	0.61	0.00	0.92	2.44	0.31	3.67	2.44	6.11
30297	3/24/2017	Bestway	City Recycling	N/A	3.14	1.26	0.00	0.00	0.00	0.47	0.00	0.47	0.79	0.16	2.36	0.79	3.14
30248	3/28/2017	Bestway	City Recycling	N/A	9.73	1.95	0.00	0.00	0.00	0.00	0.00	7.78	0.00	0.00	9.73	0.00	9.73
					52.04	15.04	0.90	0.00	0.00	4.58	0.00	18.32	8.18	5.01			52.04
															Total	43.86	8.18	52.04
															RECYCLING % THIS PERIOD		84%	

Since 1983
BIC #280

BESTWAY CARTING
Mini & Rolloff Containers

Sample
30272

TEL: 718-423-6473
297 Norman Avenue
Brooklyn, New York 11222
FAX: 718-281-9830

LEED RECYCLING REPORT

Customer Name: E.W Howell	Date: 03/03/17
Job Location: 63-60 80 ST	
Ticket #: 30272 / Yards: 20	Tons: 6.19
Driver's Name: George	Truck #: 22

Name / Authorized Signature: By signing below, I agree to the content described within the body of % of material to be true and correct.

X

% OF MATERIAL BY VOLUME

PLASTIC 20 %
CLEAN WOOD 40 %
PAPER/CARDBOARD _____ %
SCREEN FINES _____ %
METAL _____ %
WASTE _____ %
6" MINUS _____ %
BRICK, CONCRETE, MASONRY 40 %

INSTRUCTIONS: Estimate the amount or recyclables by volume. Give driver a copy and keep one for the office.

DAWN MANTZ
Coordinator
Office: 718-599-6573 • Fax: 718-388-6184

Construction Waste Mangement
Credit M1.5R, M1.6 and M1.7

School Construction Authority
NYC Green Schools Rating System

Project: PS/IS 49Q
Address: 63-60 80th Street, Middle Village, NY 11379
LLW:
Date: End of April 2017

Contractor: E.W. Howell
Preparer: Molly Rooney
Telephone:

Table 1: Construction Waste Management diversion Summary

Diverted / Recycled Materials Description	Diversion / Recycling Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
Concrete	Bestway	0.00	Tons
Wood	Bestway	113.07	Tons
Gypsum Wallboard	Bestway	23.89	Tons
Crushed Asphalt	Bestway	0.00	Tons
Masonry	Bestway	153.50	Tons
Cardboard	Bestway	36.21	Tons
Other: Metal	Bestway	13.05	Tons
Other: Plastic	Bestway	32.12	Tons
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
TOTAL CONSTRUCTION WASTE DIVERTED		372.14	

Landfill materials Description	Landfill Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
General Mixed Waste	Bestway	69.63	Tons
Other:			
Other:			
TOTAL CONSTRUCTION WASTE SENT TO LANDFILL		69.63	

TOTAL OF ALL CONSTRUCTION WASTE	441.77	
PERCENTAGE OF CONSTRUCTION WASTE DIVERTED FROM LANDFILL	84%	

05/01/09

Electronic copy of Form can be downloaded from SCA web site

Project Total as of end of April 2017.xls

City Recycling Transfer Station 151 Anthony Street Brooklyn, NY 11222 Tel.# 718-599-6573 Fax.# 718-388-6473

Construction Waste Management Monthly Tracking Form

Project Name: PS 49
Project Location: Middle Village
Project No.

Prepared by: City Recycling Transfer Station
Name: Dawn M. Mantz-Torres
Title: Administrator
Date: 5/15/2017

Verified by: E.W. Howell
Name: Molly Rooney
Title:
Date:

Ticket No.	Date	Waste Handler	Materials Recipient	Container Volume (Cu. Yds)	Total Weight (Tons)	Recycled Material									Weight of Recycled Material	Weight of Landfilled Materials	
						Wood	Metal	Gypsum	CMU	Paper/ Cardboard	Fills/ Fines & Regrinds	Masonry	Rubbish	Plastic			
30305	4/6/17	Bestway	City Recycling	N/A	6.38	1.60	0.00	0.00	0.00	0.64	0.00	0.96	2.55	0.64	3.83	2.55	6.38
30134	4/18/17	Bestway	City Recycling	N/A	6.46	1.94	0.32	0.00	0.00	0.65	0.00	0.00	2.91	0.65	3.55	2.91	6.46
30321	4/20/17	Bestway	City Recycling	N/A	3.13	2.50	0.00	0.00	0.00	0.00	0.00	0.63	0.00	0.00	3.13	0.00	3.13
30619	4/25/17	Bestway	City Recycling	N/A	7.01	2.10	1.05	0.00	0.00	0.70	0.00	1.05	1.40	0.70	5.61	1.40	7.01
30620	4/26/17	Bestway	City Recycling	N/A	5.08	2.54	0.51	0.00	0.00	0.51	0.00	0.51	0.51	0.51	4.57	0.51	5.08
30650	4/27/17	Bestway	City Recycling	N/A	6.93	3.47	0.00	0.00	0.00	2.08	0.00	1.39	0.00	0.00	6.93	0.00	6.93
30621	4/28/17	Bestway	City Recycling	N/A	7.30	1.46	1.46	0.00	0.00	0.73	0.00	1.46	1.46	0.73	5.84	1.46	7.30
30595	4/29/17	Bestway	City Recycling	N/A	2.25	0.68	0.11	0.00	0.00	0.56	0.00	0.00	0.79	0.11	1.46	0.79	2.25
					44.54	16.28	3.46	0.00	0.00	5.86	0.00	5.99	9.62	3.34			44.54
															Total	34.92	9.62	44.54
															RECYCLING % THIS PERIOD		78%	

Since 1983
BIC #280

BESTWAY CARTING
Mini & Rolloff Containers

297 Norman Avenue
Brooklyn, New York 11222

TEL: 718-423-6473 FAX: 718-281-9830

Sample
30305

LEED RECYCLING REPORT

Customer Name:	E.W. Howell	Date: 4-6-17
Job Location:	68-60 80 St	
Ticket #: 73781	Yards: 20	Tons: 6.38
Driver's Name:	DAN	Truck #: 18

Name / Authorized Signature: By signing below, I agree to the content described within the body of % of material to be true and correct.

X

% OF MATERIAL BY VOLUME

PLASTIC 10 %
CLEAN WOOD 25 %
PAPER/CARDBOARD 10 %
SCREEN FINES X %
METAL X %
WASTE 40 %
6" MINUS X %
BRICK, CONCRETE, MASONRY 15 %

INSTRUCTIONS: Estimate the amount or recyclables by volume. Give driver a copy and keep one for the office.

DAWN MANTZ
Coordinator
Office: 718-599-6573 • Fax: 718-388-6184

Construction Waste Mangement
Credit M1.5R, M1.6 and M1.7

SCA School Construction Authority
NYC Green Schools Rating System

Project: PS/IS 49Q
Address: 63-60 80th Street, Middle Village, NY 11379
LLW:
Date: End of May 2017

Contractor: E.W. Howell
Preparer: Molly Rooney
Telephone:

Table 1: Construction Waste Management diversion Summary

Diverted / Recycled Materials Description	Diversion / Recycling Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
Concrete	Bestway	0.00	Tons
Wood	Bestway	125.32	Tons
Gypsum Wallboard	Bestway	23.89	Tons
Crushed Asphalt	Bestway	0.00	Tons
Masonry	Bestway	155.72	Tons
Cardboard	Bestway	39.40	Tons
Other: Metal	Bestway	13.38	Tons
Other: Plastic	Bestway	33.49	Tons
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
TOTAL CONSTRUCTION WASTE DIVERTED		391.20	

Landfill materials Description	Landfill Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
General Mixed Waste	Bestway	72.91	Tons
Other:			
Other:			
TOTAL CONSTRUCTION WASTE SENT TO LANDFILL		72.91	

TOTAL OF ALL CONSTRUCTION WASTE	464.11	
PERCENTAGE OF CONSTRUCTION WASTE DIVERTED FROM LANDFILL	84%	

05/01/09

Electronic copy of Form can be downloaded from SCA web site

Project Total as of end of May 2017.xls

City Recycling Transfer Station 151 Anthony Street Brooklyn, NY 11222 Tel.# 718-599-6573 Fax # 718-388-6473

Construction Waste Management Monthly Tracking Form

Project Name: PS 49
Project Location: Middle Village

Project No.

Prepared I City Recycling Transfer Station
Name: Dawn M. Mantz-Torres
Title: Administrator
Date: 6/6/2017

Verified by E.W. Howell
Name: Molly Rooney
Title:
Date:

Ticket No.	Date	Waste Handler	Materials Recipient	Container Volume (Cu. Yds)	Total Weight (Tons)	Recycled Material									Weight of Recycled Material	Weight of Landfilled Materials	
						Wood	Metal	Gypsum	CMU	Paper/ Cardboard	Fills/ Fines & Regrinds	Masonry	Rubbish	Plastic			
30597	5/2/17	Bestway	City Recycling	N/A	2.83	1.42	0.00	0.00	0.00	0.57	0.00	0.00	0.85	0.00	1.98	0.85	2.83
30164	5/4/17	Bestway	City Recycling	N/A	1.95	0.88	0.20	0.00	0.00	0.10	0.00	0.00	0.68	0.10	1.27	0.68	1.95
30396	5/10/17	Bestway	City Recycling	N/A	4.81	2.41	0.00	0.00	0.00	0.48	0.00	1.92	0.00	0.00	4.81	0.00	4.81
30691	5/15/17	Bestway	City Recycling	N/A	2.77	0.83	0.14	0.00	0.00	0.28	0.00	0.00	1.25	0.28	1.52	1.25	2.77
30782	5/25/17	Bestway	City Recycling	N/A	4.29	3.00	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.43	4.29	0.00	4.29
30335	5/27/17	Bestway	City Recycling	N/A	2.34	1.87	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.23	2.34	0.00	2.34
30452	5/31/17	Bestway	City Recycling	N/A	3.36	1.85	0.00	0.00	0.00	0.67	0.00	0.00	0.50	0.34	2.86	0.50	3.36
					22.35	12.25	0.33	0.00	0.00	3.19	0.00	1.92	3.28	1.37			22.35
												Total			19.07	3.28	22.35
												RECYCLING % THIS PERIOD				85%	

Since 1983
BIC #280

BESTWAY CARTING

Mini & Rolloff Containers

Sample
30597

TEL: 718-423-6473
297 Norman Avenue
Brooklyn, New York 11222
FAX: 718-281-9830

LEED RECYCLING REPORT

Customer Name: E.W. Howell		Date: 5/2/17
Job Location: 63-60 80 ST		
Ticket #:	Yards: 20	Tons: 2.83
Driver's Name: George O'Neil		Truck #: 18

Name / Authorized Signature: By signing below, I agree to the content described within the body of % of material to be true and correct.

X

% OF MATERIAL BY VOLUME

PLASTIC______%   CLEAN WOOD 50 %

PAPER/CARDBOARD 20 %   SCREEN FINES______%

METAL______%   WASTE 30 %

6" MINUS______%

BRICK, CONCRETE, MASONRY______%

INSTRUCTIONS: Estimate the amount or recyclables by volume. Give driver a copy and keep one for the office.

DAWN MANTZ
Coordinator
Office: 718-599-6573 • Fax: 718-388-6184

Construction Waste Mangement
Credit M1.5R, M1.6 and M1.7

E.W. HOWELL

Submittal # 501524-013-001 8/1/17

SCA School Construction Authority
NYC Green Schools Rating System

Project: PS/IS 49Q
Address: 63-60 80th Street, Middle Village, NY 11379
LLW:
Date: End of June 2017

Contractor: E.W. Howell
Preparer: Molly Rooney
Telephone:

Table 1: Construction Waste Management diversion Summary

Diverted / Recycled Materials Description	Diversion / Recycling Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
Concrete	Bestway	0.00	Tons
Wood	Bestway	132.26	Tons
Gypsum Wallboard	Bestway	23.89	Tons
Crushed Asphalt	Bestway	0.00	Tons
Masonry	Bestway	155.72	Tons
Cardboard	Bestway	40.78	Tons
Other: Metal	Bestway	14.20	Tons
Other: Plastic	Bestway	33.80	Tons
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
TOTAL CONSTRUCTION WASTE DIVERTED		400.65	

Landfill materials Description	Landfill Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
General Mixed Waste	Bestway	76.79	Tons
Other:			
Other:			
TOTAL CONSTRUCTION WASTE SENT TO LANDFILL		76.79	

TOTAL OF ALL CONSTRUCTION WASTE	477.44	
PERCENTAGE OF CONSTRUCTION WASTE DIVERTED FROM LANDFILL	84%	

05/01/09

Electronic copy of Form can be downloaded from SCA web site

Project Total as of end of June 2017

City Recycling Transfer Station 151 Anthony Street Brooklyn, NY 11222 Tel.# 718-599-6573 Fax.# 718-388-6473

Construction Waste Management Monthly Tracking Form

Project Name: PS 49
Project Location: Middle Village
Project No.

Prepared Name: City Recycling Transfer Station / Dawn M. Mantz-Torres
Title: Administrator
Date: 6/6/2017

Verified by Name: E.W. Howell / Molly Rooney
Title:
Date:

Ticket No.	Date	Waste Handler	Materials Recipient	Container Volume (Cu. Yds)	Total Weight (Tons)	Recycled Material									Weight of Recycled Material	Weight of Landfilled Materials	
						Wood	Metal	Gypsum	CMU	Paper/ Cardboard	Fills/ Fines & Regrinds	Masonry	Rubbish	Plastic			
30787	6/6/17	Bestway	City Recycling	N/A	2.50	0.88	0.13	0.00	0.00	0.38	0.00	0.00	1.13	0.00	1.38	1.13	2.50
30816	6/12/17	Bestway	City Recycling	N/A	3.85	3.27	0.00	0.00	0.00	0.19	0.00	0.00	0.19	0.19	3.66	0.19	3.85
30788	6/12/17	Bestway	City Recycling	N/A	4.65	1.86	0.47	0.00	0.00	0.47	0.00	0.00	1.86	0.00	2.79	1.86	4.65
30635	6/14/17	Bestway	City Recycling	N/A	2.34	0.94	0.23	0.00	0.00	0.35	0.00	0.00	0.70	0.12	1.64	0.70	2.34
					13.34	6.94	0.82	0.00	0.00	1.38	0.00	0.00	3.88	0.31			13.34
															Total	9.46	3.88	13.34
															RECYCLING % THIS PERIOD		71%	

Since 1983
BIC #280

BESTWAY CARTING
Mini & Rolloff Containers

297 Norman Avenue
Brooklyn, New York 11222

TEL: 718-423-6473
FAX: 718-281-9830

Sample
30787

LEED RECYCLING REPORT

Customer Name: E W Howell		Date: 06/06/17
Job Location: 68-60 80st QUEENS		
Ticket #: 727370	Yards: 20	Tons: 2.50 TONS
Driver's Name: Zenon		Truck #: 3

Name / Authorized Signature: By signing below, I agree to the content described within the body of % of material to be true and correct.

X

% OF MATERIAL BY VOLUME

PLASTIC ___ %
CLEAN WOOD 35 %
PAPER/CARDBOARD 15 %
SCREEN FINES ___ %
METAL 5 %
WASTE 45 %
6" MINUS ___ %
BRICK, CONCRETE, MASONRY ___ %

INSTRUCTIONS: Estimate the amount or recyclables by volume. Give driver a copy and keep one for the office.

DAWN MANTZ
Coordinator
Office: 718-599-6573 • Fax: 718-388-6184

Construction Waste Management
Credit M1.5R, M1.6 and M1.7

SCA School Construction Authority
NYC Green Schools Rating System

Project: PS/IS 49Q
Address: 63-60 80th Street, Middle Village, NY 11379
LLW:
Date: End of July 2017

Contractor: E.W. Howell
Preparer: Molly Rooney
Telephone:

Table 1: Construction Waste Management diversion Summary

Diverted / Recycled Materials Description	Diversion / Recycling Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
Concrete	Bestway	0.00	Tons
Wood	Bestway	157.76	Tons
Gypsum Wallboard	Bestway	23.89	Tons
Crushed Asphalt	Bestway	0.00	Tons
Masonry	Bestway	168.69	Tons
Cardboard	Bestway	56.22	Tons
Other: Metal	Bestway	31.84	Tons
Other: Plastic	Bestway	42.89	Tons
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
TOTAL CONSTRUCTION WASTE DIVERTED		481.29	

Landfill materials Description	Landfill Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
General Mixed Waste	Bestway	102.44	Tons
Other:			
Other:			
TOTAL CONSTRUCTION WASTE SENT TO LANDFILL		102.44	

TOTAL OF ALL CONSTRUCTION WASTE	583.73	
PERCENTAGE OF CONSTRUCTION WASTE DIVERTED FROM LANDFILL	82%	

05/01/09

Electronic copy of Form can be downloaded from SCA web site

Project Total as of end of July 2017.xls

City Recycling Transfer Station 151 Anthony Street Brooklyn, NY 11222 Tel.# 718-599-6573 Fax.# 718-388-6473

Construction Waste Management Monthly Tracking Form

Project Name: PS 49
Project Location: Middle Village
Project No.:

Prepared by: City Recycling Transfer Station
Name: Dawn M. Mantz-Torres
Title: Administrator
Date: 9/17/2017

Verified by: E.W. Howell
Name: Molly Rooney
Title:
Date:

Ticket No.	Date	Waste Handler	Materials Recipient	Container Volume (Cu. Yds)	Total Weight (Tons)	Recycled Material									Weight of Recycled Material	Weight of Landfilled Materials	
						Wood	Metal	Gypsum	CMU	Paper/ Cardboard	Fills/ Fines & Regrinds	Masonry	Rubbish	Plastic			
30795	7/1/17	Bestway	City Recycling	N/A	0.84	0.25	0.00	0.00	0.00	0.50	0.00	0.00	0.08	0.00	0.76	0.08	0.84
30956	7/3/17	Bestway	City Recycling	N/A	21.38	4.28	4.28	0.00	0.00	3.21	0.00	2.14	5.34	2.14	16.03	5.34	21.38
30957	7/5/17	Bestway	City Recycling	N/A	15.38	1.54	3.08	0.00	0.00	1.54	0.00	2.31	6.15	0.77	9.23	6.15	15.38
30499	7/5/17	Bestway	City Recycling	N/A	3.93	1.97	0.39	0.00	0.00	0.79	0.00	0.00	0.00	0.79	3.93	0.00	3.93
30960	7/6/17	Bestway	City Recycling	N/A	22.13	4.43	4.43	0.00	0.00	3.32	0.00	2.21	5.53	2.21	16.59	5.53	22.13
30895	7/6/17	Bestway	City Recycling	N/A	2.67	1.07	0.00	0.00	0.00	0.67	0.00	0.00	0.67	0.27	2.00	0.67	2.67
30802	7/10/17	Bestway	City Recycling	N/A	2.98	0.89	1.49	0.00	0.00	0.30	0.00	0.00	0.00	0.30	2.98	0.00	2.98
31516	7/15/17	Bestway	City Recycling	N/A	2.51	0.50	0.13	0.00	0.00	0.38	0.00	0.00	1.26	0.25	1.26	1.26	2.51
30968	7/17/17	Bestway	City Recycling	N/A	6.75	1.35	1.35	0.00	0.00	0.68	0.00	1.35	1.69	0.34	5.06	1.69	6.75
30972	7/21/17	Bestway	City Recycling	N/A	7.88	2.76	1.18	0.00	0.00	1.18	0.00	0.39	1.58	0.79	6.30	1.58	7.88
31504	7/22/17	Bestway	City Recycling	N/A	9.14	2.74	0.46	0.00	0.00	0.91	0.00	4.57	0.46	0.00	8.68	0.46	9.14
31529	7/24/17	Bestway	City Recycling	N/A	2.94	0.88	0.00	0.00	0.00	0.59	0.00	0.00	1.18	0.29	1.76	1.18	2.94
31533	7/26/17	Bestway	City Recycling	N/A	3.42	1.54	0.00	0.00	0.00	0.51	0.00	0.00	0.86	0.51	2.57	0.86	3.42
31508	7/31/17	Bestway	City Recycling	N/A	4.36	1.31	0.87	0.00	0.00	0.87	0.00	0.00	0.87	0.44	3.49	0.87	4.36
					106.29	25.50	17.64	0.00	0.00	15.44	0.00	12.97	25.65	9.09			106.29
															Total	80.64	25.65	106.29
															RECYCLING % THIS PERIOD		76%	

Since 1983
BIC #280

BESTWAY

CARTING
Mini & Rolloff Containers

Sample
30795

TEL: 718-423-6473

297 Norman Avenue
Brooklyn, New York 11222

FAX: 718-281-9830

LEED RECYCLING REPORT

Customer Name: EW Howell		Date: 7-1-17
Job Location: 63-60 80 St		
Ticket #: 75276	Yards: 10	Tons: 0.84
Driver's Name: Chuck		Truck #: 3

Name / Authorized Signature: By signing below, I agree to the content described within the body of % of material to be true and correct.

X

% OF MATERIAL BY VOLUME

PLASTIC \ %
CLEAN WOOD 30 %
PAPER/CARDBOARD 60 %
SCREEN FINES \ %
METAL \ %
WASTE 10 %
6" MINUS \ %
BRICK, CONCRETE, MASONRY \ %

INSTRUCTIONS: Estimate the amount or recyclables by volume. Give driver a copy and keep one for the office.

DAWN MANTZ
Coordinator
Office: 718-599-6573 • Fax: 718-388-6184

Construction Waste Management
Credit M1.5R, M1.6 and M1.7

School Construction Authority
NYC Green Schools Rating System

Project: PS/IS 49Q
Address: 63-60 80th Street, Middle Village, NY 11379
LLW:
Date: End of August 2017

Contractor: E.W. Howell
Preparer: Molly Rooney
Telephone:

Table 1: Construction Waste Management diversion Summary

Diverted / Recycled Materials Description	Diversion / Recycling Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
Concrete	Bestway	0.00	Tons
Wood	Bestway	171.18	Tons
Gypsum Wallboard	Bestway	23.89	Tons
Crushed Asphalt	Bestway	0.00	Tons
Masonry	Bestway	172.61	Tons
Cardboard	Bestway	63.64	Tons
Other: Metal	Bestway	41.68	Tons
Other: Plastic	Bestway	47.29	Tons
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
TOTAL CONSTRUCTION WASTE DIVERTED		520.29	

Landfill materials Description	Landfill Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
General Mixed Waste	Bestway	108.40	Tons
Other:			
Other:			
TOTAL CONSTRUCTION WASTE SENT TO LANDFILL		108.40	

TOTAL OF ALL CONSTRUCTION WASTE	628.69	
PERCENTAGE OF CONSTRUCTION WASTE DIVERTED FROM LANDFILL	83%	

05/01/09

Electronic copy of Form can be downloaded from SCA web site

Project Total as of end of August 2017

City Recycling Transfer Station 151 Anthony Street Brooklyn, NY 11222 Tel.# 718-599-6573 Fax.# 718-388-6473

Construction Waste Management Monthly Tracking Form

Project Name: PS 49
Project Location: Middle Village
Project No.

Prepared Name: City Recycling Transfer Station / Dawn M. Mantz-Torres
Title: Administrator
Date: 9/15/2017

Verified by Name: E.W. Howell / Molly Rooney
Title:
Date:

Ticket No.	Date	Waste Handler	Materials Recipient	Container Volume (Cu. Yds)	Total Weight (Tons)	Recycled Material									Weight of Recycled Material	Weight of Landfilled Materials	
						Wood	Metal	Gypsum	CMU	Paper/ Cardboard	Fills/ Fines & Regrinds	Masonry	Rubbish	Plastic			
30436	8/1/17	Bestway	City Recycling	N/A	2.56	0.77	0.51	0.00	0.00	0.77	0.00	0.00	0.00	0.51	2.56	0.00	2.56
30905	8/2/17	Bestway	City Recycling	N/A	2.95	1.03	0.00	0.00	0.00	0.44	0.00	0.00	1.18	0.30	1.77	1.18	2.95
30909	8/3/17	Bestway	City Recycling	N/A	1.92	0.48	0.00	0.00	0.00	0.48	0.00	0.00	0.58	0.38	1.34	0.58	1.92
21933	8/4/17	Bestway	City Recycling	N/A	3.50	0.35	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.70	1.75	0.00	1.75
31512	8/8/17	Bestway	City Recycling	N/A	7.66	2.30	2.30	0.00	0.00	1.15	0.00	0.77	0.38	0.77	7.28	0.38	7.66
31142	8/14/17	Bestway	City Recycling	N/A	6.75	1.35	1.69	0.00	0.00	1.01	0.00	0.68	1.35	0.68	5.40	1.35	6.75
31145	8/16/17	Bestway	City Recycling	N/A	14.63	5.12	3.66	0.00	0.00	2.19	0.00	1.46	1.46	0.73	13.16	1.46	14.63
31148	8/24/17	Bestway	City Recycling	N/A	6.75	2.03	1.69	0.00	0.00	0.68	0.00	1.01	1.01	0.34	5.74	1.01	6.75
					46.72	13.42	9.84	0.00	0.00	7.42	0.00	3.92	5.96	4.40			44.97
															Total	39.00	5.96	44.97
															RECYCLING % THIS PERIOD		87%	

Since 1983
BIC #280

BESTWAY CARTING
Mini & Rolloff Containers

297 Norman Avenue
Brooklyn, New York 11222

TEL: 718-423-6473
FAX: 718-281-9830

Sample
30436

LEED RECYCLING REPORT

Customer Name:	EW Howell	Date:	8/1/17
Job Location:	63-60 80 st		
Ticket #: 738491	Yards: 30	Tons:	2.56
Driver's Name:	Chris	Truck #:	14

Name / Authorized Signature: By signing below, I agree to the content described within the body of % of material to be true and correct.

X

% OF MATERIAL BY VOLUME

PLASTIC 20 %
CLEAN WOOD 30 %
PAPER/CARDBOARD 30 %
SCREEN FINES _____ %
METAL 20 %
WASTE _____ %
6" MINUS _____ %
BRICK, CONCRETE, MASONRY _____ %

INSTRUCTIONS: Estimate the amount or recyclables by volume. Give driver a copy and keep one for the office.

DAWN MANTZ
Coordinator
Office: 718-599-6573 • Fax: 718-388-6184

Construction Waste Management
Credit M1.5R, M1.6 and M1.7

SCA School Construction Authority
NYC Green Schools Rating System

Project: PS/IS 49Q
Address: 63-60 80th Street, Middle Village, NY 11379
LLW:
Date: End of September 2017

Contractor: E.W. Howell
Preparer: Molly Rooney
Telephone:

Table 1: Construction Waste Management diversion Summary

Diverted / Recycled Materials Description	Diversion / Recycling Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
Concrete	Bestway	0.00	Tons
Wood	Bestway	175.01	Tons
Gypsum Wallboard	Bestway	23.89	Tons
Crushed Asphalt	Bestway	0.00	Tons
Masonry	Bestway	200.90	Tons
Cardboard	Bestway	75.34	Tons
Other: Metal	Bestway	46.18	Tons
Other: Plastic	Bestway	52.58	Tons
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
Other:			
TOTAL CONSTRUCTION WASTE DIVERTED		573.90	

Landfill materials Description	Landfill Hauler or Location	Quantity of Diverted / Recycled Waste	Units (tons or cubic yards)
General Mixed Waste	Bestway	111.33	Tons
Other:			
Other:			
TOTAL CONSTRUCTION WASTE SENT TO LANDFILL		111.33	

TOTAL OF ALL CONSTRUCTION WASTE	685.23	
PERCENTAGE OF CONSTRUCTION WASTE DIVERTED FROM LANDFILL	84%	

05/01/09

Electronic copy of Form can be downloaded from SCA web site

Project Total as of end of September 2017

City Recycling Transfer Station 151 Anthony Street Brooklyn, NY 11222 Tel.# 718-599-6573 Fax.# 718-388-6473

Construction Waste Management Monthly Tracking Form

Project Name: PS 49
Project Location: Middle Village
Project No.

Prepared Name: Dawn M. Mantz-Torres
Title: Administrator
Date: 10/15/2017

Verified by Name: E.W. Howell
Title:
Date:

Ticket No.	Date	Waste Handler	Materials Recipient	Container Volume (Cu. Yds)	Total Weight (Tons)	Recycled Material									Weight of Recycled Material	Weight of Landfilled Materials	
						Wood	Metal	Gypsum	CMU	Paper/ Cardboard	Fills/ Fines & Regrinds	Masonry	Rubbish	Plastic			
0901107	9/1/17	Bestway	City Recycling	N/A	11.25	1.13	1.13	0.00	0.00	5.63	0.00	0.00	1.13	2.25	10.13	1.13	11.25
090217	9/2/17	Bestway	City Recycling	N/A	27.28	0.00	0.00	0.00	0.00	0.00	0.00	27.28	0.00	0.00	27.28	0.00	27.28
090817	9/8/17	Bestway	City Recycling	N/A	11.25	1.69	1.69	0.00	0.00	5.06	0.00	0.00	1.13	1.69	10.13	1.13	11.25
092317	9/23/17	Bestway	City Recycling	N/A	6.75	1.01	1.69	0.00	0.00	1.01	0.00	1.01	0.68	1.35	6.08	0.68	6.75
					56.53	3.83	4.50	0.00	0.00	11.70	0.00	28.29	2.93	5.29			56.53
														Total	53.61	2.93	56.53
														RECYCLING % THIS PERIOD		95%	

Since 1983
BIC #280

BESTWAY CARTING
Mini & Rolloff Containers

297 Norman Avenue
Brooklyn, New York 11222

TEL: 718-423-6473 FAX: 718-281-9830

Sample
090117

LEED RECYCLING REPORT

Customer Name: EW Howell		Date 9/1/17
Job Location: 63-60 80th St.		
Ticket #:	Yards: 15	Tons:
Driver's Name:		Truck #:

Name / Authorized Signature: By signing below, I agree to the content described within the body of % of material to be true and correct.

X

% OF MATERIAL BY VOLUME

PLASTIC 20 %
CLEAN WOOD 10 %
PAPER/CARDBOARD 50 %
SCREEN FINES _____ %
METAL 10 %
WASTE 10 %
6" MINUS _____ %
BRICK, CONCRETE, MASONRY _____ %

INSTRUCTIONS: Estimate the amount or recyclables by volume. Give driver a copy and keep one for the office.

DAWN MANTZ
Coordinator
Office: 718-599-6573 • Fax: 718-388-6184

New York City School Construction Authority

30-30 Thomson Ave, Long Island City, NY 11101

RE: Construction Waste Management, Material Credits M1.5R, M1.6, M1.7

To whom it may concern,

As per the supplemental Construction Waste Management forms, the total amount of waste material diverted from PS 49Q is 573.90 tons. This waste was diverted by means of a third-party carting company, Bestway Carting Company. Please see form dated, End of September 2017, for calculations regarding the final project total.

Regards,

Molly Rooney

Molly Rooney, LEED AP BD+C

Assistant Project Manager

E.W. Howell Construction Group

M2.1R & M2.2, M2.3, M2.4: Comprehensive Contractor Sustainable Materials Form. Contractor Sustainable Materials Tracking Form.

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA **School Construction Authority**
NYC Green Schools Rating System

Project: P.S. 49 Queens
Address: 6360 80the Street, Middle Village
LLW: 89232 Date: AUG. 31ST 2017

Contractor: ISLAND TOPSOIL
Contractor Contact: JOHN
Spec Section:
Telephone: 516-364-2972

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content: Percentage Post-Consumer* by weight	Recycled Content: Percentage Pre-Consumer** by weight	Regional*** Materials: Percentage Regionally Extracted*** by weight	Regional*** Materials: Distance between project site and extraction site	Regional*** Materials: Distance between project site and manufacture site
SCREENED TOPSOIL	ISLAND TOPSOIL						
〃	〃		N/A	N/A	N/A	29.10 miles	29.10 miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

* **Post-Consumer Recycled Content:** Material or finshed product that has served its intended consumer use and has been discarded by consumer.

** **Pre-Consumer Recycled Content:** Recovered industrial and manufacturing materials diverted from municipal solid waste for the purpose of collection, recycling and disposition. Examples include fly-ash and synthetic gypsum, because they are waste products from coal burning electricity plants. (Scrap raw materials that can be reused in the same manufacturing process from which they are recovered are not considered Pre-Consumer Recycled Content.)

*** **Regional Materials:** Regionally manufactured materials that have their origin within 500 miles of the project site. These would included products that are regionally mined, harvested, salvaged or re-used (including those salvaged from the site.)

Notes:

1 Recycled content for concrete - provide cost for cementitious materials and percentage of cementitious materials that are recycled-content.
2 Recycled content for steel products - where it is not possible to determine recycled content use default assumption of 25% post-consumer recycled content.
3 Regional content for concrete - provide combined cost for all concrete materials and distance information requested.
4 Regional content - for materials with varyone point of extraction all within the 500-mile radius list a single item with the greatest distance.
5 Provide back-up documentation for information on form above - such as product data or manufacturer's statements.

Contractor Certification:

I, JOHN CANAVAN a duly authorized representative of ISLAND TOPSOIL hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: [signature] Date: MAY 15TH 2018

EME revised on 24May2018

05/01/09

This form may be downloaded from SCA web site

CONTRACTOR'S SUSTAINABLE MATERIALS FORM

Credit M 2.1R, M 2.2, M2.3R and M2.4

REVIEWED FOR SUBMISSION
EW HOWELL
Submittal # 02511-005-002
10/24/17

SCA School Construction Authority
NYC Green Schools Rating System

Project: PS49Q - Queens
Address: 63-60 80th Street, Middle Village
LLW: _____ Date: 7/26/2017

Contractor: Pioneer Landscaping & Asphalt Paving, Inc.
Contractor Contact: Michael Cox
Spec Section: 02511 Telephone: 631-269-400

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Type 3 Binder & Type 7 Top	Rason Materials - Cedarhurst		15%	0%	15%	16 miles	16 miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

* **Post-Consumer Recycled Content:** Material or finished product that has served its intended consumer use and has been discarded by consumer.

** **Pre-Consumer Recycled Content:** Recovered industrial and manufacturing materials diverted from municipal solid waste for the purpose of collection, recycling and disposition. Examples include fly-ash and synthetic gypsum, because they are waste products from coal burning electricity plants. (Scrap raw materials that can be reused in the same manufacturing process from which they are recovered are not considered Pre-Consumer Recycled Content.)

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Notes:

1. Recycled content for concrete - provide cost for cementitious materials and percentage of cementitious materials that are recycled-content.
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3. Regional content for concrete - provide combined cost for all concrete materials and distance information requested.
4. Regional content - for materials with varyone point of extraction all within the 500-mile radius list a single item with the greatest distance.
5. Provide back-up documentation for information on form above - such as product data or manufacturer's statements.

Contractor Certification:

I, Michael Cox, a duly authorized representative of Pioneer Landscaping & Asphalt Paving, hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: _____ Date: 10/24/17

Michael Cox, President

05/01/09

This form may be downloaded from SCA web site

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: **PS 49 MIDDLE VILLAGE**
Address: **63-60 80th St., Middle Village, NY 11379**
LLW: **089232** Date: **Feb. 7, 2018**

Sub - Contractor: **Darcon Construction, Inc.**
Contractor Contact: **April Manalo**
Spec Section: **03300** Telephone: **516-358-2533**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
NYCDDC 4000 psi AE	Best Concrete	$					
> Holcim Portland Cement	Holcim	$		%			s
				100%	10	<500 miles	<500 miles
> Fine Aggregate	LI Natural/Coram	$	0%	0%	100%	<500 miles	<500 miles
> Tilcon Stone	Tilcon	$	0%	0%	100%	<500 miles	<500 miles
> MBVR	BASF	$	<5%		87%	<500 miles	<500 miles
> Pozzolith 200N	BASF	$	0%	25%	68%	<500 miles	<500 miles

Definitions:

* **Post-Consumer Recycled Content:** Material or finished product that has served its intended consumer use and has been discarded by consumer.

** **Pre-Consumer Recycled Content:** Recovered industrial and manufacturing materials diverted from municipal solid waste for the purpose of collection, recycling and disposition. Examples include fly-ash and synthetic gypsum, because they are waste products from coal burning electricity plants. (Scrap raw materials that can be reused in the same manufacturing process from which they are recovered are not considered Pre-Consumer Recycled Content.)

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3 Regional content for concrete - provide combined cost for all concrete materials and distance information requested.
4 Regional content - for materials with varyone point of extraction all within the 500-mile radius list a single item with the greatest distance.
5 Provide back-up documentation for information on form above - such as product data or manufacturer's statements.

Contractor Certification:

I, Shiela Zalameda a duly authorized representative of **Darcon Construction, Inc.** hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: _____ Date: 2/7/2018

05/01/09

This form may be downloaded from SCA web site

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: **PS 49 MIDDLE VILLAGE**
Address: **63-60 80th St., Middle Village, NY 11379**
LLW: **089232** Date: **14-May-18**

Sub - Contractor: **Darcon Construction, Inc.**
Contractor Contact: **April Manalo**
Spec Section: **03300** Telephone: **516-358-2533**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Fiber Expansion Joint	W.R. Meadows	$	0%	36%	100%	161 miles	161 miles

Definitions:

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** **Pre-Consumer Recycled Content:** Recovered industrial and manufacturing materials diverted from municipal solid waste for the purpose of collection, recycling and disposition. Examples include fly-ash and synthetic gypsum, because they are waste products from coal burning electricity plants. (Scrap raw materials that can be reused in the same manufacturing process from which they are recovered are not considered Pre-Consumer Recycled Content.)

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Notes:

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3. Regional content for concrete - provide combined cost for all concrete materials and distance information requested.
4. Regional content - for materials with varyone point of extraction all within the 500-mile radius list a single item with the greatest distance.
5. Provide back-up documentation for information on form above - such as product data or manufacturer's statements.

Contractor Certification:

I, Shiela Zalameda a duly authorized representative of **Darcon Construction, Inc.** hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: _____ Date 5/14/2018

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: **PS 49 MIDDLE VILLAGE**
Address: **63-60 80th St., Middle Village, NY 11379**
LLW: **089232** Date: _____

Sub - Contractor: **Darcon Construction, Inc.**
Contractor Contact: **April Manalo**
Spec Section: **2723** Telephone: **516-358-2533**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
HDPE Pipe	Lane	$	40%	0%	not disclosed	not disclosed	not disclosed

Definitions:

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Contractor Certification:

I, **April Manalo** a duly authorized representative of **Darcon Construction, Inc.** hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: _____ Date: 3.16.16

05/01/09

This form may be downloaded from SCA web site

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: **PS 49 MIDDLE VILLAGE**
Address: **63-60 80th St., Middle Village, NY 11379**
LLW: **089232** Date:

Sub - Contractor: **Darcon Construction, Inc.**
Contractor Contact: **April Manalo**
Spec Section: **2723** Telephone: **516-358-2533**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Reinforcing Bars	Gerdau	$	74%	21%	100%	<500 miles	<500 miles

Definitions:

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4 Regional content - for materials with varyone point of extraction all within the 500-mile radius list a single item with the greatest distance.
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Contractor Certification:

I, **April Manalo** a duly authorized representative of **Darcon Construction, Inc.** hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: Date: 4.12.2016

05/01/09

This form may be downloaded from SCA web site

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: **PS 49 MIDDLE VILLAGE**
Address: **63-60 80th St., Middle Village, NY 11379**
LLW: **089232** Date:

Sub - Contractor: **Darcon Construction, Inc.**
Contractor Contact: **April Manalo**
Spec Section: **03300** Telephone: **516-358-2533**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
4000 psi NW - Conventional	Best Concrete	$					
> Holcim Portland Cement	Holcim	$	0%	19%	0%	>500 miles	>500 miles
> Essroc Slag	Essroc Italcementi Group	$	0%	100%	100% 50%	<500 miles	<500 miles
> Coram Sand	Coram	$	0%	0%	100%	<500 miles	<500 miles
> Tilcon Stone	Tilcon	$	0%	0%	100%	<500 miles	<500 miles
> MBVR	BASF	$	<5%		87%	<500 miles	<500 miles
> Pozzolith 200N	BASF	$	0%	25%	68%	<500 miles	<500 miles

Definitions:

* **Post-Consumer Recycled Content:** Material or finshed product that has served its intended consumer use and has been discarded by consumer.

** **Pre-Consumer Recycled Content:** Recovered industrial and manufacturing materials diverted from municipal solid waste for the purpose of collection, recycling and disposition. Examples include fly-ash and synthetic gypsum, because they are waste products from coal burning electricity plants. (Scrap raw materials that can be reused in the same manufacturing process from which they are recovered are not considered Pre-Consumer Recycled Content.)

*** **Regional Materials:** Regionally manufactured materials that have their origin within 500 miles of the project site. These would included products that are regionally mined, harvested, salvaged or re-used (including those salvaged from the site.)

REVIEWED FOR SUBMISSION
PS /IS 49 Queens
SCA Contract #: C0000 4132
LL W/089232
EW HOWELL
Submittal #
03300-026-001
3/21/16

Notes:

1 Recycled content for concrete - provide cost for cementitious materials and percentage of cementitious materials that are recycled-content.
2 Recycled content for steel products - where it is not possible to determine recycled content use default assumption of 25% post-consumer recycled content
3 Regional content for concrete - provide combined cost for all concrete materials and distance information requested.
4 Regional content - for materials with varyone point of extraction all within the 500-mile radius list a single item with the greatest distance.
5 Provide back-up documentation for information on form above - such as product data or manufacturer's statements.

Contractor Certification:

I, **April Manalo** a duly authorized representative of **Darcon Construction, Inc.** hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: Date: 3.9.2016

05/01/09

This form may be downloaded from SCA web site

CONTRACTOR'S SUSTAINABLE MATERIALS FORM

Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA **School Construction Authority**
NYC Green Schools Rating System

Project: **PS 49 MIDDLE VILLAGE**
Address: **63-60 80th St., Middle Village, NY 11379**
LLW: **089232** Date:

Sub - Contractor: **Darcon Construction, Inc.**
Contractor Contact: **April Manalo**
Spec Section: **03300** Telephone: **516-358-2533**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
4000 psi NW - Pump	Best Concrete	$					
> Holcim Portland Cement	Holcim	$	0%	19%	0%	>500 miles	>500 miles
> Essroc Slag	Essroc Italcementi Group	$	0%	100%	100% 50%	<500 miles	<500 miles
> Coram Sand	Coram	$	0%	0%	100%	<500 miles	<500 miles
> Tilcon Stone	Tilcon	$	0%	0%	100%	<500 miles	<500 miles
> MBVR	BASF	$	<5%		87%	<500 miles	<500 miles
> Plastol 5000	Euclid	$	0%	0%	68%	not disclosed	<500 miles

Definitions:

* **Post-Consumer Recycled Content:** Material or finished product that has served its intended consumer use and has been discarded by consumer.

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REVIEWED FOR SUBMISSION
PS /IS 49 Queens
SCA Contract #: C000014133
LLW#089232
EW HOWELL
Submittal #
03300-027-001
3/21/16

Notes:

1 Recycled content for concrete - provide cost for cementitious materials and percentage of cementitious materials that are recycled-content.
2 Recycled content for steel products - where it is not possible to determine recycled content use default assumption of 25% post-consumer recycled content
3 Regional content for concrete - provide combined cost for all concrete materials and distance information requested.
4 Regional content - for materials with varyone point of extraction all within the 500-mile radius list a single item with the greatest distance.
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Contractor Certification:

I, **April Manalo** a duly authorized representative of **Darcon Construction, Inc.** hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: Date: 3.9.2016

05/01/09

This form may be downloaded from SCA web site

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA **School Construction Authority**
NYC Green Schools Rating System

Project: **PS 49 MIDDLE VILLAGE**
Address: **63-60 80th St., Middle Village, NY 11379**
LLW: **089232** Date:

Sub - Contractor: **Darcon Construction, Inc.**
Contractor Contact: **April Manalo**
Spec Section: **03300** Telephone: **516-358-2533**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
4000 psi NW - Pump, No Air	Best Concrete	$					
> Holcim Portland Cement	Holcim	$	0%	19%	0%	>500 miles	>500 miles
> Essroc Slag	Essroc Italcementi Group	$	0%	100%	100% 50%	<500 miles	<500 miles
> Coram Sand	Coram	$	0%	0%	00%	<500 miles	<500 miles
> Tilcon Stone	Tilcon	$	0%	0%	100%	<500 miles	<500 miles
> Plastol 5000	Euclid	$	0%	0%	68%	not disclosed	<500 miles

Definitions:

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REVIEWED FOR SUBMISSION
PS /IS 49 Queens
SCA Contract #: C000014133
LLW#089232
EW HOWELL
Submittal #
03300-028-001
3/21/16

Notes:

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Contractor Certification:

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Signature of Authorized Representative: Date: 3.9.2016

05/01/09

This form may be downloaded from SCA web site

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: **PS 49 MIDDLE VILLAGE**
Address: **63-60 80th St., Middle Village, NY 11379**
LLW: **089232** Date:

Sub - Contractor: **Darcon Construction, Inc.**
Contractor Contact: **April Manalo**
Spec Section: **03300** Telephone: **516-358-2533**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post-Consumer*** by weight	Percentage **Pre-Consumer**** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
4000 psi LW	Best Concrete	$					
> Holcim Portland Cement	Holcim	$	0%	19%	0%	>500 miles	>500 miles
> Essroc Slag	Essroc Italcementi Group	$	0%	100%	100%	<500 miles	<500 miles
> Coram Sand	Coram	$	0%	0%	100%	<500 miles	<500 miles
> Norlite Stone	Norlite Corporation	$	33%	33%	100%	<500 miles	<500 miles
> MBVR	BASF	$	<5%		87%	<500 miles	<500 miles
> Plastol 5000	Euclid	$	0%	0%	0 %	not disclosed	<500 miles

Definitions:

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** **Pre-Consumer Recycled Content:** Recovered industrial and manufacturing materials diverted from municipal solid waste for the purpose of collection, recycling and disposition. Examples include fly-ash and synthetic gypsum, because they are waste products from coal burning electricity plants. (Scrap raw materials that can be reused in the same manufacturing process from which they are recovered are not considered Pre-Consumer Recycled Content.)

*** **Regional Materials:** Regionally manufactured materials that have their origin within 500 miles of the project site. These would included products that are regionally mined, harvested, salvaged or re-used (including those salvaged from the site.)

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1 Recycled content for concrete - provide cost for cementitious materials and percentage of cementitious materials that are recycled-content.
2 Recycled content for steel products - where it is not possible to determine recycled content use default assumption of 25% post-consumer recycled content
3 Regional content for concrete - provide combined cost for all concrete materials and distance information requested.
4 Regional content - for materials with varyone point of extraction all within the 500-mile radius list a single item with the greatest distance.
5 Provide back-up documentation for information on form above - such as product data or manufacturer's statements.

HOWELL
Submittal # 03300-029-002

Contractor Certification:

I, **April Manalo** a duly authorized representative of **Darcon Construction, Inc.** hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: [signature] Date: 4.11.2016

05/01/09

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School Construction Authority
NYC Green Schools Rating System

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			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
4000 psi NW - Conv. 0.40 w/c ratio	Best Concrete	$					
> Holcim Portland Cement	Holcim	$	0%	19%	0%	>500 miles	>500 miles
> Essroc Slag	Essroc Italcementi Group	$	0%	100%	100%	<500 miles	<500 miles
> Coram Sand	Coram	$	0%	0%	100%	<500 miles	<500 miles
> Tilcon Stone	Tilcon	$	0%	0%	100%	<500 miles	<500 miles
> MBVR	BASF	$	<5%		87%	<500 miles	<500 miles
> Pozzolith 200N	BASF	$	0%	25%	68%	<500 miles	<500 miles

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Signature of Authorized Representative: Date: 6.30.2016

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Credit M 2.1R, M 2.2, M2.3R and M2.4

School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens
Address: 6360 80th Street, Middle Village
LLW: 89232 Date: 9/27/2016

Contractor: Giaquinto Masonry
Contractor Contact: Tammy Mojica
Spec Section: 4200 Telephone: (631) 242-2760

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
CMU	Barrasso & Sons		0%	23%	100%	70/ 112/ 160/ 94 miles	45 miles

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Signature of Authorized Representative: Tammy Mojica Date: 9/27/2016

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SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens
Address: 6360 80th Street, Middle Village
LLW: 89232 Date: 9/27/2016

Contractor: Giaquinto Masonry
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Spec Section: 4200 Telephone: (631) 242-2760

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Interstate Arctic White Brick	Belden		26%	3.60%	0 %	1981miles	1981 miles

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SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens
Address: 6360 80th Street, Middle Village
LLW: 89232 Date: 9/27/2016

Contractor: Giaquinto Masonry
Contractor Contact: Tammy Mojica
Spec Section: 4200 Telephone: (631) 242-2760

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Interstate Mountain Red Brick	Belden		8.80%	1.20%	0 %	1981 miles	1981 miles

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			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
120 Truss Mesh Wire	Hohmann & Barnard		25%	75%	100%	36 miles	25 miles

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			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
180 Dub'l Loop Lok SS	Hohmann & Barnard		0%	97%	100%	12 miles	25 miles

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LLW: 89232 Date: 9/27/2016

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Spec Section: 4200 Telephone: (631) 242-2760

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			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
315 FlexibleDovetail Anchor SS	Hohmann & Barnard		0%	97%	100%	19 miles	25 miles

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School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens
Address: 6360 80th Street, Middle Village
LLW: 89232 Date: **9/27/2016**

Contractor: **Giaquinto Masonry**
Contractor Contact: **Tammy Mojica**
Spec Section: **4200** Telephone: **(631) 242-2760**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
344 Rigid Partition Anchor	Hohmann & Barnard		0%	99%	100%	4 miles	25 miles

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Spec Section: **4200** Telephone: **(631) 242-2760**

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			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
353L Column Anchor	Hohmann & Barnard	$	0%	60%	99 %	4 miles	25 miles

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			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
355L Column Anchor	Hohmann & Barnard	$	0%	99 %	100%	4 miles	25 miles

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			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Continuous Wire	Hohmann & Barnard	$	0%	97%	100%	12 miles	25 miles

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I, Tammy mojica a duly authorized representative of Giaquinto Masonry, Inc. hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: *Tammy Mojica* Date: 9/27/2016

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens
Address: 6360 80th Street, Middle Village
LLW: 89232 Date: **9/27/2016**

Contractor: **Giaquinto Masonry**
Contractor Contact: **Tammy Mojica**
Spec Section: **4200** Telephone: **(631) 242-2760**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Mesh Wall Tie	Hohmann & Barnard	$	0%	0%	100%	39 miles	38 miles

Definitions:

* **Post-Consumer Recycled Content:** Material or finshed product that has served its intended consumer use and has been discarded by consumer.

** **Pre-Consumer Recycled Content:** Recovered industrial and manufacturing materials diverted from municipal solid waste for the purpose of collection, recycling and disposition. Examples include fly-ash and synthetic gypsum, because they are waste products from coal burning electricity plants. (Scrap raw materials that can be reused in the same manufacturing process from which they are recovered are not considered Pre-Consumer Recycled Content.)

*** **Regional Materials:** Regionally manufactured materials that have their origin within 500 miles of the project site. These would included products that are regionally mined, harvested, salvaged or re-used (including those salvaged from the site.)

Notes:

1 Recycled content for concrete - provide cost for cementitious materials and percentage of cementitious materials that are recycled-content.
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4 Regional content - for materials with varyone point of extraction all within the 500-mile radius list a single item with the greatest distance.
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Signature of Authorized Representative: *Tammy Mojica* Date: 9/27/2016

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens
Address: 6360 80th Street, Middle Village
LLW: 89232 Date: 9/27/2016

Contractor: **Giaquinto Masonry**
Contractor Contact: **Tammy Mojica**
Spec Section: **4200** Telephone: **(631) 242-2760**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Rubber Control Joint	Hohmann & Barnard	$	0%	50%	100%	411 miles	400 miles

Definitions:

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Signature of Authorized Representative: *Tammy Mojica* Date: 9/27/2016

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens
Address: 6360 80th Street, Middle Village
LLW: 89232 Date: 9/27/2016

Contractor: **Giaquinto Masonry**
Contractor Contact: **Tammy Mojica**
Spec Section: **4200** Telephone: **(631) 242-2760**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Rebar	NUCOR	1	82.9 %	17%	100%	207 miles	207 miles

Definitions:

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Signature of Authorized Representative: *Tammy Mojica* Date: 9/27/2016

CONTRACTOR'S SUSTAINABLE MATERIALS FORM

Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens
Address: 6360 80th Street, Middle Village
LLW: 89232 Date: 9/27/2016

Contractor: Giaquinto Masonry
Contractor Contact: Tammy Mojica
Spec Section: 4200 Telephone: (631) 242-2760

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
3000psi Fine Grout	Spec Mix	1	0%	2%	100%	121/75/88 miles	68 miles

Definitions:

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Signature of Authorized Representative: Tammy Mojica Date: 9/27/2016

CONTRACTOR'S SUSTAINABLE MATERIALS FORM

Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens
Address: 6360 80th Street, Middle Village
LLW: 89232 Date: 9/27/2016

Contractor: Giaquinto Masonry
Contractor Contact: Tammy Mojica
Spec Section: 4200 Telephone: (631) 242-2760

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Type N (Colored) (for Brick)	Spec Mix	1	0%	1%	93.5 %	121/247/497/164/58/59 miles	68 miles

Definitions:

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Signature of Authorized Representative: *Tammy Mojica* Date: 9/27/2016

CONTRACTOR'S SUSTAINABLE MATERIALS FORM

Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens
Address: 6360 80th Street, Middle Village
LLW: 89232 Date: 9/27/2016

Contractor: Giaquinto Masonry
Contractor Contact: Tammy Mojica
Spec Section: 4200 Telephone: (631) 242-2760

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Type N (Standard) (for CMU)	Spec Mix	1	0%	2%	93.5 %	121/497/164/59 miles	68 miles

Definitions:

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Signature of Authorized Representative: *Tammy Mojica* Date: 9/27/2016

CONTRACTOR'S SUSTAINABLE MATERIALS FORM

Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens
Address: 6360 80th Street, Middle Village
LLW: 89232 Date: 9/27/2016

Contractor: Giaquinto Masonry
Contractor Contact: Tammy Mojica
Spec Section: 4200 Telephone: (631) 242-2760

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Type S (Standard) (for CMU)	Spec Mix	$:	0%	1%	95.8 %	121/497/164/59 miles	68 miles

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Signature of Authorized Representative: *Tammy Mojica* Date: 9/27/2016

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens
Address: 6360 80th Street, Middle Village
LLW: 89232 Date:

Contractor: **Giaquinto Masonry**
Contractor Contact: **Dan Tavares**
Spec Section: **4435** Telephone: **631-242-2760**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Cast Stone	Accurate Precast	$	12%	20%	80%	200 miles	4 miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

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Contractor Certification:

I, Daniel Tavares a duly authorized representative of Giaqunto Masonry hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: *Daniel Tavares* Date: 12/18/2017

Revised W. Jose Higgins of EME Group on 19Dec2017.

CONTRACTOR'S SUSTAINABLE MATERIALS FORM

Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens
Address: 6360 80th Street, Middle Village
LLW: 89232 Date: 9/27/2016

Contractor: Giaquinto Masonry
Contractor Contact: Tammy Mojica
Spec Section: 4200 Telephone: (631) 242-2760

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials			
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site		Distance between project site and manufacture site
Type S (Colored) (For Cast Stone)	Spec Mix	1	0%	2.3%	95.8%	68	miles	68 miles

Definitions:

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Contractor Certification:

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Signature of Authorized Representative: *Tammy Mojica* Date: 9/27/2016

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens
Address: 6360 80the Street, Middle Village
LLW: 89232 Date:

Contractor: Orange County Ironworks, LLC
Contractor Contact: Matthew Haaksma
Spec Section: 05120 Telephone: (845) 769-3000

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Structural Steel	Steel Dynamics	$	75%	22%	0%	>500 miles	>500 miles

Definitions:

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Contractor Certification:

I, M. Haaksma a duly authorized representative of Orange County Ironworks, LLC hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: Matthew Haaksma Date: 3/16/2018

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA **School Construction Authority**
NYC Green Schools Rating System

Project: P.S. 49 Queens
Address: 6360 80the Street, Middle Village
LLW: 89232 Date:

Contractor: Orange County Ironworks, LLC
Contractor Contact: Matthew Haaksma
Spec Section: 05710 Telephone: (845) 769-3000

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Steel Stairs Material	Nucor	$	81.4%	15.1%	96.5%	208 miles	<500 miles

Definitions:

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Contractor Certification:

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Signature of Authorized Representative: Matthew Haaksma Date: 3/19/2018

Revised by EME 20Mar2018

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens
Address: 6360 80the Street, Middle Village
LLW: 89232 Date:

Contractor: Orange County Ironworks, LLC
Contractor Contact: Matthew Haaksma
Spec Section: 05300 Telephone: (845) 769-3000

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Metal Deck	Canam	$	24%	9%	100%	< 500 miles	< 500 miles

Definitions:

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Signature of Authorized Representative: Matthew Haaksma Date: 3/16/2018

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: PSIS49Q
Address: 63-60 80th street, Middle Village, NY 11379
LLW: _____ Date: 12Dec2017

Contractor: **Cabinets by Design, Inc.**
Contractor Contact: **Fari Vakili**
Spec Section: _____ Telephone: _____

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
	06410-010-001		Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Hoover Treated Wood	Hoover, Inc. - Thomson GA		0%				800 miles
Adhesive - 3100 PVA	Wilsonart						
Laminate	Wilsonart - Fletcher NC		34%				715 miles
Terra NAF Particleboard	Flakeboard - Bennettsville SC		4%	92%			630 miles
Columbia Plywood	Columbia product			80%	0%		462miles

06410-011-001
06410-006-001
06410-006-002. PureBond

Definitions:

* **Post-Consumer Recycled Content:** Material or finshed product that has served its intended consumer use and has been discarded by consumer.

** **Pre-Consumer Recy**uring materials diverted from municipal solid waste for the purpose of collection, recycling and disposition. Exa**m**se they are waste products from coal burning electricity plants. (Scrap raw materials that can be reused in the same manufacturing process from which they are recovered are not considered Pre-Consumer Recycled Content.)

*** **Regional Materials:** Regionally manufactured materials that have their origin within 500 miles of the project site. These would included procucts that are regionally mined, harvested, salvaged or re-used (including those salvaged from the site.)

Notes:

1 Recycled content for concrete - provide cost for cementitious materials and percentage of cementitious materials that are recycled-content.
2 Recycled content for steel products - where it is not possible to determine recycled content use default assumption of 25% post-consumer recycled content
3 Regional content for concrete - provide combined cost for all concrete materials and distance information requested.
4 Regional content - for materials with varyone point of extraction all within the 500-mile radius list a single item with the greatest distance.
5 Provide back-up documentation for information on form above - such as product data or manufacturer's statements.

Contractor Certification:

I, W. Jose Higgins a duly authorized representative of EME Group hereby certify that the material information herein is an accurate representation of the material qualifications provided. for components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: William Jose Higgins Digitally signed by William Jose Higgins DN: cn=William Jose Higgins, o=EME Group.com, ou=Green Team, email=jhiggins@emogrp.com, c=US Date: 2017.12.12 11:18:27 -05'00' Date: _____

This form may be downloaded from SCA web site

CONTRACTOR'S SUSTAINABLE MATERIALS FORM

Credit M 2.1R, M 2.2, M2.3R and M2.4

School Construction Authority
NYC Green Schools Rating System

Project: **PS 49 MIDDLE VILLAGE**
Address: **63-60 80th St., Middle Village, NY 11379**
LLW: **089232** Date:

Sub - Contractor: **Darcon Construction, Inc.**
Contractor Contact: **April Manalo**
Spec Section: **03300** Telephone: **516-358-2533**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Styrofoam Square Edge	DOW	$	0%	0%	0%	>500 miles	>500 miles

Definitions:

* **Post-Consumer Recycled Content:** Material or finshed product that has served its intended consumer use and has been discarded by consumer.

** **Pre-Consumer Recycled Content:** Recovered industrial and manufacturing materials diverted from municipal solid waste for the purpose of collection, recycling and disposition. Examples include fly-ash and synthetic gypsum, because they are waste products from coal burning electricity plants. (Scrap raw materials that can be reused in the same manufacturing process from which they are recovered are not considered Pre-Consumer Recycled Content.)

*** **Regional Materials:** Regionally manufactured materials that have their origin within 500 miles of the project site. These would included products that are regionally mined, harvested, salvaged or re-used (including those salvaged from the site.)

REVIEWED FOR SUBMISSION
PS /IS 49 Queens
SCA Contract #: C00014133
LLW#089232
EW HOWELL
Submittal # 07211-002-001
3/21/16

Notes:

1 Recycled content for concrete - provide cost for cementitious materials and percentage of cementitious materials that are recycled-content.
2 Recycled content for steel products - where it is not possible to determine recycled content use default assumption of 25% post-consumer recycled content
3 Regional content for concrete - provide combined cost for all concrete materials and distance information requested.
4 Regional content - for materials with varyone point of extraction all within the 500-mile radius list a single item with the greatest distance.
5 Provide back-up documentation for information on form above - such as product data or manufacturer's statements.

Contractor Certification:

I, **April Manalo** a duly authorized representative of **Darcon Construction, Inc.** hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: Date: 3.8.2016

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: **PS 49 MIDDLE VILLAGE**
Address: **63-60 80th St., Middle Village, NY 11379**
LLW: **089232** Date:

Sub - Contractor: **Darcon Construction, Inc.**
Contractor Contact: **April Manalo**
Spec Section: **03300** Telephone: **516-358-2533**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Foamular 250	Owens Corning	$	0%	20%	100%	<500 miles	<500 miles

Definitions:

* **Post-Consumer Recycled Content:** Material or finished product that has served its intended consumer use and has been discarded by consumer.

** **Pre-Consumer Recycled Content:** Recovered industrial and manufacturing materials diverted from municipal solid waste for the purpose of collection, recycling and disposition. Examples include fly-ash and synthetic gypsum, because they are waste products from coal burning electricity plants. (Scrap raw materials that can be reused in the same manufacturing process from which they are recovered are not considered Pre-Consumer Recycled Content.)

*** **Regional Materials:** Regionally manufactured materials that have their origin within 500 miles of the project site. These would included products that are regionally mined, harvested, salvaged or re-used (including those salvaged from the site.)

REVIEWED FOR SUBMISSION
PS /IS 49 Queens
SCA Contract #: C000014133
LLW#089232
EW HOWELL
Submittal #
07211-004-001
3/21/16

Notes:

1 Recycled content for concrete - provide cost for cementitious materials and percentage of cementitious materials that are recycled-content.
2 Recycled content for steel products - where it is not possible to determine recycled content use default assumption of 25% post-consumer recycled content
3 Regional content for concrete - provide combined cost for all concrete materials and distance information requested.
4 Regional content - for materials with varyone point of extraction all within the 500-mile radius list a single item with the greatest distance.
5 Provide back-up documentation for information on form above - such as product data or manufacturer's statements.

Contractor Certification:

I, **April Manalo** a duly authorized representative of **Darcon Construction, Inc.** hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: Date: 3.8.2016

CONTRACTOR'S SUSTAINABLE MATERIALS FORM

Credit M 2.1R, M 2.2, M2.3R and M2.4

REVIEWED FOR SUBMISSION
PS 55 49 Queens
SCA Contract #: CM0041433
LLW#89232
EW HOWELL
Submittal #: 07212-003-001
3/8/17

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens

Contractor: **CBI Drywall Corp**

Address: 6360 80the Street, Middle Village

Contractor Contact: **Shaun Hawes**

LLW: 89232 Date:

Spec Section: **07 21 20**

Telephone: **(631) 491-4700**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional* ** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Sound Attenuation Insulation	Thermafiber	1	0%	70%	0%	>500 miles	625.32 miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

* **Post-Consumer Recycled Content:** Material or finshed product that has served its intended consumer use and has been discarded by consumer.

** **Pre-Consumer Recycled Content:** Recovered industrial and manufacturing materials diverted from municipal solid waste for the purpose of collection, recycling and disposition. Examples include fly-ash and synthetic gypsum, because they are waste products from coal burning electricity plants. (Scrap raw materials that can be reused in the same manufacturing process from which they are recovered are not considered Pre-Consumer Recycled Content.)

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Notes:

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3 Regional content for concrete - provide combined cost for all concrete materials and distance information requested.
4 Regional content - for materials with varyone point of extraction all within the 500-mile radius list a single item with the greatest distance.
5 Provide back-up documentation for information on form above - such as product data or manufacturer's statements.

Contractor Certification:

I, _____ a duly authorized representative of _____ hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: _____ Date: _____

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

REVIEWED FOR SUBMISSION
PS/IS 49 Queens
SCA Contract #: C000014123
LLW000089232
EW HOWELL
Submittal # 07212-004-001
3/8/17

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens

Contractor: **CBI Drywall Corp**

Address: 6360 80the Street, Middle Village

Contractor Contact: **Shaun Hawes**

LLW: 89232 Date:

Spec Section: **07 21 20**

Telephone: **(631) 491-4700**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre-** Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Firespan 40 Foil Faced Ins	Thermafiber	$	0%	70%	0%	>500 miles	625.32 miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

* **Post-Consumer Recycled Content:** Material or finshed product that has served its intended consumer use and has been discarded by consumer.

** **Pre-Consumer Recycled Content:** Recovered industrial and manufacturing materials diverted from municipal solid waste for the purpose of collection, recycling and disposition. Examples include fly-ash and synthetic gypsum, because they are waste products from coal burning electricity plants. (Scrap raw materials that can be reused in the same manufacturing process from which they are recovered are not considered Pre-Consumer Recycled Content.)

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Notes:

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Contractor Certification:

I, ______________________ a duly authorized representative of ________________________________ hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: ________________________________ Date: ____________

REVIEWED FOR SUBMISSION
P.S./I.S. 49 Queens
SCA Contract #: [illegible]
LLW#089232

EWHOWELL

Submittal # 07212-004-001

3/8/17

CONTRACTOR'S SUSTAINABLE MATERIALS FORM

Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens

Contractor: **CBI Drywall Corp**

Address: 6360 80the Street, Middle Village

Contractor Contact: **Shaun Hawes**

LLW: 89232 Date:

Spec Section: **07 21 20**

Telephone: **(631) 491-4700**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Firespan 40 Foil Faced Ins	Thermafiber	$	0%	70%	0%	>500 miles	625.32 miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

* **Post-Consumer Recycled Content:** Material or finshed product that has served its intended consumer use and has been discarded by consumer.

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Contractor Certification:

I, ______________________ a duly authorized representative of ________________________________ hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: ________________________ Date: ____________

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

REVIEWED FOR SUBMISSION
P.S. 49 Queens
SCA Contract #: CM0001433
LLW 89232
EW HOWELL
Submittal # 07212-005-001
3/26/17

SCA **School Construction Authority**
NYC Green Schools Rating System

Project: P.S. 49 Queens

Contractor: **CBI Drywall Corp**

Address: 6360 80the Street, Middle Village

Contractor Contact: **Shaun Hawes**

LLW: 89232 Date:

Spec Section: **07 21 20**

Telephone: **(631) 491-4700**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
2" 700 Series Fiberglass Ins	Owens Corning	$	0%	57%		miles	517.5 mile
						miles	mile
						miles	mile
						miles	mile
						miles	mile
						miles	mile

Definitions:

* **Post-Consumer Recycled Content:** Material or finshed product that has served its intended consumer use and has been discarded by consumer.

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5 Provide back-up documentation for information on form above - such as product data or manufacturer's statements.

Contractor Certification:

I, Shaun Hawes a duly authorized representative of CBI Drywall Corp. hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: Date: 3/28/2017

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

REVIEWED FOR SUBMISSION
P.S. 55 49 Queens
SCA Contract #: C500001453
LLW#89232
EW HOWELL
Submittal # 07212-005-001
3/28/17

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens

Contractor: **CBI Drywall Corp**

Address: 6360 80the Street, Middle Village

Contractor Contact: **Shaun Hawes**

LLW: 89232 Date:

Spec Section: **07 21 20**

Telephone: **(631) 491-4700**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional* ** Materials		
			Percentage **Post-**Consumer* by weight	Percentage **Pre-**Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
2" 700 Series Fiberglass Ins	Owens Corning	$	0%	57%		miles	517.5 miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

* **Post-Consumer Recycled Content:** Material or finshed product that has served its intended consumer use and has been discarded by consumer.

** **Pre-Consumer Recycled Content:** Recovered industrial and manufacturing materials diverted from municipal solid waste for the purpose of collection, recycling and disposition. Examples include fly-ash and synthetic gypsum, because they are waste products from coal burning electricity plants. (Scrap raw materials that can be reused in the same manufacturing process from which they are recovered are not considered Pre-Consumer Recycled Content.)

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Notes:

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4 Regional content - for materials with varyone point of extraction all within the 500-mile radius list a single item with the greatest distance.
5 Provide back-up documentation for information on form above - such as product data or manufacturer's statements.

Contractor Certification:

I, Shaun Hawes a duly authorized representative of CBI Drywall Corp. hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: Date: 3/28/2017

CONTRACTOR'S SUSTAINABLE MATERIALS FORM

Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: PS 49 Queens Addition
Address: 63-60 80th St, Middle Village, NY 11379
LLW: 89232 Date: 2/7/2018

Contractor: EW Howell
Contractor Contact: Molly Rooney
Spec Section: 7250 Telephone: (516) 921-7100 ext. 125

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
CAFCO 300 Fireproofing	Isolatek	$	10%	0%	100%	159 miles	46 miles
CAFCO 400 Fireproofing	Isolatek	$	10%	0%	100%	159 miles	46 miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

* **Post-Consumer Recycled Content:** Material or finshed product that has served its intended consumer use and has been discarded by consumer.

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*** **Regional Materials:** Regionally manufactured materials that have their origin within 500 miles of the project site. These would included products that are regionally mined, harvested, salvaged or re-used (including those salvaged from the site.)

Notes:

1 Recycled content for concrete - provide cost for cementitious materials and percentage of cementitious materials that are recycled-content.
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3 Regional content for concrete - provide combined cost for all concrete materials and distance information requested.
4 Regional content - for materials with varyone point of extraction all within the 500-mile radius list a single item with the greatest distance.
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Contractor Certification:

I, W. Jose Higgins a duly authorized representative of EME Group hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: William Jose Higgins Digitally signed by William Jose Higgins DN: cn=William Jose Higgins, o=EME Group, ou=Green Team, email=jhiggins@emegroup.com, c=US Date: 2018.02.07 10:42:52 -05'00' Date:

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens
Address: 6360 80th Street, Middle Village
LLW: 89232 Date: 5/10/2018

Contractor: **Giaquinto Masonry**
Contractor Contact: **Tammy Mojica**
Spec Section: **7270** Telephone: **(631) 242-2760**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Mineral Wool	Hilti		0%	90%	0%		626 miles

Definitions:

* **Post-Consumer Recycled Content:** Material or finshed product that has served its intended consumer use and has been discarded by consumer.

** **Pre-Consumer Recycled Content:** Recovered industrial and manufacturing materials diverted from municipal solid waste for the purpose of collection, recycling and disposition. Examples include fly-ash and synthetic gypsum, because they are waste products from coal burning electricity plants. (Scrap raw materials that can be reused in the same manufacturing process from which they are recovered are not considered Pre-Consumer Recycled Content.)

*** **Regional Materials:** Regionally manufactured materials that have their origin within 500 miles of the project site. These would included products that are regionally mined, harvested, salvaged or re-used (including those salvaged from the site.)

Notes:

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4 Regional content - for materials with varyone point of extraction all within the 500-mile radius list a single item with the greatest distance.
5 Provide back-up documentation for information on form above - such as product data or manufacturer's statements.

Contractor Certification:

I, Tammy Mojica a duly authorized representative of Giaquinto Masonry, Inc. hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: *Tammy Mojica* Date: 5/10/2018

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens
Address: 6360 80the Street, Middle Village
LLW: 89232 Date:

Contractor: **KJC Waterproofing**
Contractor Contact: **Bob Pitiger**
Spec Section: **07560** Telephone: **201-384-8859**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
790-11 EV	Henry Company	$	25%	0%	0%	>500 miles	375 miles
Foamular 604 Insulation	Owens Corning	$	0%	20%	100%	<500 miles	<500 miles
DB 200S	Henry Company	$	0%	74%	0%	unknown	655 miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

* **Post-Consumer Recycled Content:** Material or finshed product that has served its intended consumer use and has been discarded by consumer.

** **Pre-Consumer Recycled Content:** Recovered industrial and manufacturing materials diverted from municipal solid waste for the purpose of collection, recycling and disposition. Examples include fly-ash and synthetic gypsum, because they are waste products from coal burning electricity plants. (Scrap raw materials that can be reused in the same manufacturing process from which they are recovered are not considered Pre-Consumer Recycled Content.)

*** **Regional Materials:** Regionally manufactured materials that have their origin within 500 miles of the project site. These would included products that are regionally mined, harvested, salvaged or re-used (including those salvaged from the site.)

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3 Regional content for concrete - provide combined cost for all concrete materials and distance information requested.
4 Regional content - for materials with varyone point of extraction all within the 500-mile radius list a single item with the greatest distance.
5 Provide back-up documentation for information on form above - such as product data or manufacturer's statements.

Contractor Certification:

I, Bob Pitiger a duly authorized representative of KJC Waterproofing hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: Date: 10/3/2016

05/01/09

This form may be downloaded from SCA web site

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA **School Construction Authority**
NYC Green Schools Rating System

Project: P.S. 49 Queens
Address: 6360 80the Street, Middle Village
LLW: 89232 Date: May 2, 2018

Contractor: LIF Industries
Contractor Contact: Ken Allen
Spec Section: 081113 Telephone: 516-390-6800

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
HM Doors & Frames	LIF Industries		25.5%	6.8%	100%	82 miles	16 miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

* **Post-Consumer Recycled Content:** Material or finshed product that has served its intended consumer use and has been discarded by consumer.

** **Pre-Consumer Recycled Content:** Recovered industrial and manufacturing materials diverted from municipal solid waste for the purpose of collection, recycling and disposition. Examples include fly-ash and synthetic gypsum, because they are waste products from coal burning electricity plants. (Scrap raw materials that can be reused in the same manufacturing process from which they are recovered are not considered Pre-Consumer Recycled Content.)

*** **Regional Materials:** Regionally manufactured materials that have their origin within 500 miles of the project site. These would included products that are regionally mined, harvested, salvaged or re-used (including those salvaged from the site.)

Notes:

1 Recycled content for concrete - provide cost for cementitious materials and percentage of cementitious materials that are recycled-content.
2 Recycled content for steel products - where it is not possible to determine recycled content use default assumption of 25% post-consumer recycled content.
3 Regional content for concrete - provide combined cost for all concrete materials and distance information requested.
4 Regional content - for materials with varyone point of extraction all within the 500-mile radius list a single item with the greatest distance.
5 Provide back-up documentation for information on form above - such as product data or manufacturer's statements.

Contractor Certification:

I, Ken Allen a duly authorized representative of LIF Industries hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: Kenneth Allen Date: May 2, 2018

CONTRACTOR'S SUSTAINABLE MATERIALS FORM

Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens
Address: 6360 80the Street, Middle Village
LLW: 89232 Date:

Contractor: Able Rolling Steel Door, Inc
Contractor Contact: Chris Hoehn
Spec Section: Telephone: 201-487-2253

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site anc manufacture site
Overhead Coiling Door	CornellCookson	$	54%	8%	N/A	N/A	129
						miles	miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

* **Post-Consumer Recycled Content:** Material or finshed product that has served its intended consumer use and has been discarded by consumer.

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*** **Regional Materials:** Regionally manufactured materials that have their origin within 500 miles of the project site. These would included products that are regionally mined, harvested, salvaged or re-used (inclucing those salvaged from the site.)

REVIEWED FOR SUBMISSION
PS /IS 49 Queens
SCA Contract #: C00014133
LLW#089232
EW HOWELL
Submittal # 08331-003-004
10/24/17

Notes:

1 Recycled content for concrete - provide cost for cementitious materials and percentage of cementitious materials that are recycled-content.
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Contractor Certification:

I, Chris Hoehn a duly authorized representative of Able Rolling Steel Door, Inc. hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: Date: 10/24/17

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens
Address: 6360 80the Street, Middle Village
LLW: 89232 Date: **4/18/2018**

Contractor: **Craftsman Storefronts & Glass Inc.**
Contractor Contact: **Steve Sagginario**
Spec Section: **8710** Telephone: **631-667-1420**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
push plates	Assa Abloy / Rockwood	$	56%	26%		miles	340 miles
Closers	Allegion / LCN		56.9	31.4		miles	896 miles
Holder and Stop	Allegion / Glynn Johnson		56.9	31.4		miles	719 miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

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Signature of Authorized Representative: _____ Date: _____

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens
Address: 6360 80the Street, Middle Village
LLW: 89232 Date: **4/18/2018**

Contractor: **Craftsman Storefronts & Glass Inc.**
Contractor Contact: **Steve Sagginario**
Spec Section: **8810** Telephone: **631-667-1420**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
1 1/8 clear double lami	Oldcastle Building Envelope	$	0%	3%		322/806/117 miles	511 miles
1 13/16 clear low-e double lami	Oldcastle Building Envelope	$	0%	3%		322/806/117 miles	511 miles
1 5/32 clear spandrel double lar	Oldcastle Building Envelope	$	0%	4%		806/117 miles	511 miles
19/32 clear monolithic lami	Oldcastle Building Envelope	$	0%	3%		806/117 miles	511 miles
firelite	TGP	$	0%	60%		miles	miles
						miles	miles

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Signature of Authorized Representative: _____ Date: _____

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens
Address: 6360 80the Street, Middle Village
LLW: 89232 Date: **4/18/2018**

Contractor: **Craftsman Storefronts & Glass Inc.**
Contractor Contact: **Steve Sagginario**
Spec Section: **8920** Telephone: **631-667-1420**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
aluminum extrusions	Kawneer Company	$	11%	62%		1223 miles	1313 miles
aluminum extrusions	Kawneer Company		14	60		1223 miles	1313 miles
aluminum extrusions	Kawneer Company		2	65		819 miles	509 miles
aluminum extrusions	Kawneer Company		7	63		1223 miles	1313 miles
aluminum extrusions	Kawneer Company		7	63		1223 miles	1313 miles
						miles	miles

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Signature of Authorized Representative: _____ Date: _____

REVIEWED FOR SUBMISSION
PS 49 Queens
SCA Contract #: CB0004433
EW HOWELL
Submittal # 09260-001-002
10/17/16

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens

Contractor: **CBI Drywall Corp**

Address: 6360 80the Street, Middle Village

Contractor Contact: **Shaun Hawes**

LLW: 89232 Date:

Spec Section: **09260**

Telephone: **(631) 491-4700**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Metal Stud Framing	Clark Dietrich	$	39.6%	8.7%	43.9%	104 miles	101 miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

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Signature of Authorized Representative: Shaun Hawes Date: 9/1/2016

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens

Contractor: **CBI Drywall Corp**

Address: 6360 80the Street, Middle Village

Contractor Contact: **Shaun Hawes**

LLW: 89232 Date:

Spec Section: **09260**

Telephone: **(631) 491-4700**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Metal Stud Framing	Marino/Ware	$	19.8%	14.4%	36.90%	64 miles	30 miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

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Signature of Authorized Representative: Date: 9/1/2016

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

REVIEWED FOR SUBMISSION
PS 49 Queens
SCA Contract #: CB0001133
LLW 89232
EW HOWELL
Submittal # 09260-003-001
10/17/16

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens

Contractor: **CBI Drywall Corp**

Address: 6360 80the Street, Middle Village

Contractor Contact: **Shaun Hawes**

LLW: 89232 Date:

Spec Section: **09260**

Telephone: **(631) 491-4700**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Grounds Blocking	Marino/Ware	$	19.8%	14.4%	36.90%	64 miles	30 miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

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Signature of Authorized Representative: Shaun Hawes Date: 9/1/2016

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

REVIEWED FOR SUBMISSION
EWHOWELL
Submittal # 09260-004-001
10/17/16

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens

Contractor: **CBI Drywall Corp**

Address: 6360 80the Street, Middle Village

Contractor Contact: **Shaun Hawes**

LLW: 89232 Date:

Spec Section: **09260** Telephone: **(631) 491-4700**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Furring Channel	Clark Dietrich	$	39.6%	8.7%	43.9%	104 miles	101 miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

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Signature of Authorized Representative: Shaun Hawes Date: 9/1/2016

REVIEWED FOR SUBMISSION
P.S./I.S. 49 Queens
SCA Contract #: C900041433
LLW:89005232
EW HOWELL
Submittal # 09260-005-002
10/17/16

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens

Contractor: **CBI Drywall Corp**

Address: 6360 80the Street, Middle Village

Contractor Contact: **Shaun Hawes**

LLW: 89232 Date:

Spec Section: **09260**

Telephone: **(631) 491-4700**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post-**Consumer* by weight	Percentage **Pre-**Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Shaft Wall Framing	Clark Dietrich	$	39.6%	8.7%	43.9%	104 miles	101 miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

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Signature of Authorized Representative: Shaun Hawes Date: 9/1/2016

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

REVIEWED FOR SUBMISSION
PS/IS 49 Queens
SCA Contract #: C00001-0133
LLW000232
EW HOWELL
Submittal # 09260-006-002
10/17/16

School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens

Contractor: **CBI Drywall Corp**

Address: 6360 80the Street, Middle Village

Contractor Contact: **Shaun Hawes**

LLW: 09232 Date:

Spec Section: **09260**

Telephone: **(631) 491-4700**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Spazzer Bar	Clark Dietrich	$	39.6%	8.7%	43.9%	104 miles	101 miles
Hirizontal Bridging						miles	miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

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Signature of Authorized Representative: Date: 9/1/2016

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens

Contractor: **CBI Drywall Corp**

Address: 6360 80the Street, Middle Village

Contractor Contact: **Shaun Hawes**

LLW: 89232 Date:

Spec Section: **09260**

Telephone: **(631) 491-4700**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Thermafiber SAFB	Thermafiber	$	0%	70%	0.15%	miles	708 miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

* **Post-Consumer Recycled Content:** Material or finshed product that has served its intended consumer use and has been discarded by consumer.

** **Pre-Consumer Recycled Content:** Recovered industrial and manufacturing materials diverted from municipal solid waste for the purpose of collection, recycling and disposition. Examples include fly-ash and synthetic gypsum, because they are waste products from coal burning electricity plants. (Scrap raw materials that can be reused in the same manufacturing process from which they are recovered are not considered Pre-Consumer Recycled Content.)

*** **Regional Materials:** Regionally manufactured materials that have their origin within 500 miles of the project site. These would included products that are regionally mined, harvested, salvaged or re-used (including those salvaged from the site.)

Notes:

1 Recycled content for concrete - provide cost for cementitious materials and percentage of cementitious materials that are recycled-content.
2 Recycled content for steel products - where it is not possible to determine recycled content use default assumption of 25% post-consumer recycled content
3 Regional content for concrete - provide combined cost for all concrete materials and distance information requested.
4 Regional content - for materials with varyone point of extraction all within the 500-mile radius list a single item with the greatest distance.
5 Provide back-up documentation for information on form above - such as product data or manufacturer's statements.

Contractor Certification:

I, Shaun Hawes a duly authorized representative of CBI Drywall Corp hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: Shaun Hawes Date: 9/1/2016

REVIEWED FOR SUBMISSION
PS /IS 49 Queens
SCA Contract #: C000014133
LLW#089232
EW HOWELL
Submittal # 09260-008-002
10/19/16

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens

Contractor: **CBI Drywall Corp**

Address: 6360 80the Street, Middle Village

Contractor Contact: **Shaun Hawes**

LLW: 89232 Date:

Spec Section:

Telephone: **(631) 491-4700**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
5/8" Mold Tough Sheetrock	USG	$	4.9%	92.9%	93.072%	<=500 miles	148 miles
5/8" Mold Defense Sheetrock	Lafarge	$	3%	96%		271 miles	47 miles
5/8" Gold Bond XP Sheetrock	National Gypsum	$	5%	0%	95%	>500 miles	66 miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

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Signature of Authorized Representative: ________ Date: 9/1/2016

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

REVIEWED FOR SUBMISSION
P.S./IS 49 Queens
SCA Contract #: CM0061433
LLW#89232
EW HOWELL
Submittal # 09260-009-002
10/19/16

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens
Contractor: **CBI Drywall Corp**

Address: 6360 80the Street, Middle Village
Contractor Contact: **Shaun Hawes**

LLW: 89232 Date:
Spec Section:
Telephone: **(631) 491-4700**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
1" Mold Tough Shaft Liner	USG	$	2.1%	96.6%	96.811%	<=500 miles	176 miles
1" Mold Defense Shaft Liner	Lafarge	$	3%	96%		271 miles	47 miles
1" Gold Bond XP Shaft Liner	National Gypsum	$	5%	0%		>500 miles	66 miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

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Signature of Authorized Representative: Shaun Hawes Date: 9/1/2016

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

REVIEWED FOR SUBMISSION
PS 49 Queens
SCA Contract #: CN00014153
LLW#89232
EW HOWELL
Submittal # 09260-010-002
10/19/16

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens

Contractor: **CBI Drywall Corp**

Address: 6360 80the Street, Middle Village

Contractor Contact: **Shaun Hawes**

LLW: 89232 Date:

Spec Section:

Telephone: **(631) 491-4700**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
5/8" Glass-Mat Panels	USG	$	0.0%	96.3%	96.638%	<=500 miles	176 miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

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Signature of Authorized Representative: Shaun Hawes Date: 9/1/2016

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

REVIEWED FOR SUBMISSION
PS /IS 49 Queens
SCA Contract #: C000014133
LLW#089232
EW HOWELL
Submittal # 09260-011-002
10/19/16

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens

Contractor: **CBI Drywall Corp**

Address: 6360 80the Street, Middle Village

Contractor Contact: **Shaun Hawes**

LLW: 89232 Date:

Spec Section:

Telephone: **(631) 491-4700**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
1" Glass Mat Shaft Wall Liner	USG	$	0.0%	96.3%	96.638%	<=500 miles	176 miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

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Signature of Authorized Representative: [signature] Date: 9/1/2016

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

REVIEWED FOR SUBMISSION
PS /IS 49 Queens
SCA Contract #: C000014133
LLW#089232
EW HOWELL
Submittal # 09260-012-002
10/19/16

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens

Contractor: **CBI Drywall Corp**

Address: 6360 80the Street, Middle Village

Contractor Contact: **Shaun Hawes**

LLW: 89232 Date:

Spec Section:

Telephone: **(631) 491-4700**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
5/8' Fiberock Aqua-Tough	USG	$	2.7%	23.4%	15.743%	<=500 miles	354 miles
5/8" Hi-Impact XP	National Gypsum	$	5%	0%	95%	>500 miles	66 miles
5/8" Protecta AR 100	Lafarge	$	3%	96%		272 miles	48 miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

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Signature of Authorized Representative: Shaun Hawes Date: 9/1/2016

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

REVIEWED FOR SUBMISSION
PS /IS 49 Queens
EW HOWELL
Submittal # 09260-013-002
10/18-16

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens

Contractor: **CBI Drywall Corp**

Address: 6360 80the Street, Middle Village

Contractor Contact: **Shaun Hawes**

LLW: 89232 Date:

Spec Section:

Telephone: **(631) 491-4700**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
5/8' Cement Tile Backer Board	USG	$	0.0%	15.4%	86.417%	<=500 miles	176 miles
5/8" Perma Base Tile Backer	National Gypsum	$	0%	35%	35%	300 miles	322 miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

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Signature of Authorized Representative: Date: 9/1/2016

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

REVIEWED FOR SUBMISSION
EW HOWELL
Submittal # 09260-014-002
10/17/16

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens

Contractor: **CBI Drywall Corp**

Address: 6360 80the Street, Middle Village

Contractor Contact: **Shaun Hawes**

LLW: 89232 Date:

Spec Section: **09260**

Telephone: **(631) 491-4700**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Metal Drywall Trims	Marino/Ware	$	19.8%	14.4%	36.90%	64 miles	30 miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

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Signature of Authorized Representative: Shaun Hawes Date: 9/1/2016

REVIEWED FOR SUBMISSION
EW HOWELL
Submittal # 09260-015-002
10/18/16

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens

Contractor: **CBI Drywall Corp**

Address: 6360 80the Street, Middle Village

Contractor Contact: **Shaun Hawes**

LLW: 89232 Date:

Spec Section: **09260**

Telephone: **(631) 491-4700**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Paper Faced Metal Corner Bead USG	USG	$	0.0%	61.0%	88.80%	<=500 miles	355 miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

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Signature of Authorized Representative: Shaun Hawes Date: 9/1/2016

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens

Contractor: **CBI Drywall Corp**

Address: 6360 80the Street, Middle Village

Contractor Contact: **Shaun Hawes**

LLW: 89232 Date:

Spec Section: **09260**

Telephone: **(631) 491-4700**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Quick Frame Header	Marino/Ware		19.8%	14.4%	36.90%	64 miles	30 miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

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REVIEWED FOR SUBMISSION
PS 49 Queens
SCA Contract #: CB0001433
LLW#89232
EW HOWELL
Submittal #: 09260-016-001
11/29/16

Notes:

1 Recycled content for concrete - provide cost for cementitious materials and percentage of cementitious materials that are recycled-content.
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Signature of Authorized Representative: Date: 9/1/2016

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens

Contractor: **CBI Drywall Corp**

Address: 6360 80the Street, Middle Village

Contractor Contact: **Shaun Hawes**

LLW: 89232 Date:

Spec Section: **09260**

Telephone: **(631) 491-4700**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Acoustical Sealant	USG	$	0%	0%	60%	<=500miles	348 miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

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REVIEWED FOR SUBMISSION
EWHOWELL
Submittal # 09260-017-001
5/23/17

Notes:

1 Recycled content for concrete - provide cost for cementitious materials and percentage of cementitious materials that are recycled-content.
2 Recycled content for steel products - where it is not possible to determine recycled content use default assumption of 25% post-consumer recycled content
3 Regional content for concrete - provide combined cost for all concrete materials and distance information requested.
4 Regional content - for materials with varyone point of extraction all within the 500-mile radius list a single item with the greatest distance.
5 Provide back-up documentation for information on form above - such as product data or manufacturer's statements.

Contractor Certification:

I, Shaun Hawes a duly authorized representative of CBI Drywall Corp hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: Shaun Hawes Date: 10/17/2016

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: PS IS 49
Address: 63-60 80th St, Middle Village, NY 11379
LLW: _____ Date: 3/29/18

Contractor: Baybrent Construction
Contractor Contact: Camille Battisti
Spec Section: 09300 Telephone: 631-563-4500

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Arctic White 0190	DALTile		0.0 %	35.0 %	N/A	N/A miles	2183 miles
Sunflower DH50	DALTile		0.0 %	35.5 %	N/A	N/A miles	3349 miles
Desert Gray X114	DALTile		0.0 %	35.0 %	N/A	N/A miles	2183 miles
Waterfall 0169	DALTile		0.0 %	35.0 %	N/A	N/A miles	2183 miles
Sea Breeze Q174	DALTile		0.0 %	35.0 %	N/A	N/A miles	2574 miles
Waterfall D169	DALTile		0.0 %	8.10 %	N/A	N/A miles	211 miles

Definitions:

* **Post-Consumer Recycled Content:** Material or finished product that has served its intended consumer use and has been discarded by consumer.

** **Pre-Consumer Recycled Content:** Recovered industrial and manufacturing materials diverted from municipal solid waste for the purpose of collection, recycling and disposition. Examples include fly-ash and synthetic gypsum, because they are waste products from coal burning electricity plants. (Scrap raw materials that can be reused in the same manufacturing process from which they are recovered are not considered Pre-Consumer Recycled Content.)

*** **Regional Materials:** Regionally manufactured materials that have their origin within 500 miles of the project site. These would included products that are regionally mined, harvested, salvaged or re-used (including those salvaged from the site.)

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Signature of Authorized Representative: Camille Battisti Date: 3/29/18

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

HOWELL
Submittal # 09510-003-001
2/6/17

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens

Contractor: **CBI Drywall Corp**

Address: 6360 80the Street, Middle Village

Contractor Contact: **Shaun Hawes**

LLW: 89232 Date:

Spec Section: **09510**

Telephone: **(631) 491-4700**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Mars 88785	USG	$	0.0%	75.1%	0%	>500 miles	1013 miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

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Contractor Certification:

I, Shaun Hawes a duly authorized representative of CBI Drywall Corp hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: Date: 2/2/2017

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

HOWELL
Submittal # 09510-004-001
2/6/17

SCA **School Construction Authority**
NYC Green Schools Rating System

Project: P.S. 49 Queens

Contractor: **CBI Drywall Corp**

Address: 6360 80the Street, Middle Village

Contractor Contact: **Shaun Hawes**

LLW: 89232 Date:

Spec Section: **09510**

Telephone: **(631) 491-4700**

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Donn Brand DX Grid	USG	1	25.5%	6.8%	0%	NA	353 miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

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Signature of Authorized Representative: Date: 2/2/2017

REVIEWED FOR SUBMISSION
PS/IS 49 Queens
SCA Contract #: C000014122
LLW#089232
EWHOWELL
Submittal # 09650-005-002
10/24/17

CONTRACTOR'S SUSTAINABLE MATERIALS FORM

Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: P.S. 49 Queens

Address: 6360 80the Street, Middle Village

LLW: 89232 Date:

Contractor: **Pyramid Flooring**

Contractor Contact: **Bob Bond**

Spec Section: **09650** Telephone:

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage **Post**-Consumer* by weight	Percentage **Pre**-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
Excelon VCT	Armstrong		TBD	1%		miles	<500
wall Base	Roppe			10%		miles	593
						miles	miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

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Contractor Certification:

I, ________________ a duly authorized representative of ________________________ hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: ________________________ Date: __________

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: PS/IS 49Q
Address: 63-60 80TH STREET, MIDDLE VILLAGE 11379
LLW: 89232 Date: 8/8/2016

Contractor: Nu-Tech Furnishings, Inc.
Contractor Contact: Ernesto Vargas
Spec Section: 10151 Telephone: 631-923-0300

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
TOILET PARTITIONS	GLOBAL PARTITIONS	$	16.5%	0%	0%	miles	800miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

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Contractor Certification:

I, Ernesto Vargas a duly authorized representative of Nu-Tech Furnishings, Inc. hereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative: _____ Date: 8/8/2016

CONTRACTOR'S SUSTAINABLE MATERIALS FORM
Credit M 2.1R, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Project: PS/IS 49Q
Address: 63-60 80TH STREET, MIDDLE VILLAGE 11379
LLW: 89232 Date: 3/8/2016

Contractor: Nu-Tech Furnishings, Inc.
Contractor Contact: Ernesto Vargas
Spec Section: 10505 Telephone: 631-923-0300

Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Recycled Content		Regional*** Materials		
			Percentage Post-Consumer* by weight	Percentage Pre-Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
METAL LOCKERS	ASI STORAGE SOLUTIONS	$	25.0%	0%	0%	miles	800miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles

Definitions:

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Signature of Authorized Representative: _____ Date: 8/8/2016

CONTRACTOR'S SUSTAINABLE MATERIALS - TRACKING FORM

Credit M 2.1R, M 2.2, M2.3R and M2.4

School Construction Authority
NYC Green Schools Rating System

Project: PS 49 Queens Addition
Contractor: EW Howell

Address: 63-60 80th St, Middle Village, NY 11379
Contractor Contact: Molly Rooney

LLW: 89232 Date: 5/24/2018
Telephone: (516) 921-7100 ext. 125

Spec. Section (in CSI order)	Material For which recycled or regional content documentation must be submitted	Vendor/Sub-Contractor Name	Recycled Content Documentation		Regional Content Documentation		Cost Information	
			Required (Yes/No)	Submitted (Date)	Required (Yes/No)	Submitted (Date)	Required (Yes/No)	Submitted (Date)
02200/ 025130	Earthwork, Broken Stone Base	Tilcon	Yes	5-Dec-2017	Yes	5-Dec-2017	Yes	7-Feb-2018
02512/3	Asphalt Pavement	Pioneer Landscaping & Asphalt Paving Inc.	Yes	24-Oct-2017	Yes	24-Oct-2017	Yes	26-Jul-2017
02723	Storm Drainage Pipe	Lane	No	14-Sep-2016	No	14-Sep-2016	No	14-Sep-2016
02900	Landscape Materials	Island Topsoil	No		Yes	24-May-2018	Yes	24-May-2018
03200	Concrete Reinforcement	Gerdai	Yes	23-Jun-2016	Yes	23-Jun-2016	Yes	23-Jun-2016
03300	Foundation Concrete	Best Concrete Corp	Yes	8-Mar-2016	Yes	8-Mar-2016	Yes	21-Mar-2016
03300	Cast-in-place Concrete	Best Concrete Corp	Yes	8-Mar-2016	Yes	8-Mar-2016	Yes	6-Jun-2016
03300	Exterior Slab on Grade Concrete Mix	Best Concrete Corp	Yes	23-Sep-2016	Yes	23-Sep-2016	Yes	23-Sep-2016
04200	Concrete masonry Units	Barrasso	Yes	17-Aug-2016	Yes	17-Aug-2016	Yes	4-Oct-2016
04200	Brick	Belden	Yes	17-Aug-2016	Yes	17-Aug-2016	Yes	4-Oct-2016
04435	Cast Stone	Spec Mix	No	25-Aug-2016	Yes	25-Aug-2016	Yes	1-Jun-2017
05120	Structural Steel	Steel Dynamics	Yes	16-Mar-2018	Yes	16-Mar-2018	Yes	16-Mar-2018
05300	Metal Deck	Canam	Yes	16-Mar-2018	Yes	16-Mar-2018	Yes	16-Mar-2018
05710	Steel Stairs	Nucor	Yes	16-Mar-2018	No	20-Mar-2018	Yes	16-Mar-2018
07212	Batt Insulation	CBI Drywall Corp	Yes	8-Mar-2017	Yes	8-Mar-2017	Yes	8-Mar-2017
07212	Rigid Insulation	Darcon Construction	Yes	24-Mar-2016	Yes	24-Mar-2016	Yes	24-Mar-2016
07250	Sprayed Fire Resistive Materials	Isolatek	Yes	29-Nov-2017	Yes	29-Nov-2017	Yes	7-Feb-2018
07560	Roofing Membrane	KJC Waterproofing	Yes	2-Aug-2016	No	3-Oct-2016	Yes	3-Oct-2016
07560	Roofing Insulation	KJC Waterproofing	Yes	3-Oct-2016	No	3-Oct-2016	Yes	3-Oct-2016
08110	Steel Doors and Frames	LIF Industries	Yes	2-May-2018	Yes	2-May-2018	Yes	2-May-2018
08331	Rolling Steel Doors	Cookson Rolling Doors	Yes	29-Sep-2016	Yes	29-Sep-2016	Yes	24-Oct-2017
08521/2/4	Aluminum Window Frames	Mapes	Yes	18-Apr-2018	No	18-Apr-2018	Yes	18-Apr-2018
09260	Gypsum Wall Board and Cement bd	CBI Drywall Corp	Yes	20-Oct-2016	Yes	20-Oct-2016	Yes	21-Sep-2016
09260	Metal Stud Framing	CBI Drywall Corp	Yes	20-Oct-2016	Yes	20-Oct-2016	Yes	21-Sep-2016
09310	Tile	Baybrent Construction	Yes	29-Mar-2018	Yes	29-Mar-2018	Yes	29-Mar-2018
09510	Acoustic Ceilings	CBI Drywall Corp	Yes	27-Mar-2017	No	27-Mar-2017	Yes	27-Mar-2017
09620	Drywall	CBI Drywall Corp	Yes	18-Oct-2016	Yes	18-Oct-2016	Yes	18-Oct-2016
09650	Vinyl Comp. Tile and Sheet Flooring	Pyramid Flooring	Yes	11-Nov-2016	No		Yes	24-Oct-2017
10151	Toilet and Dressing Rm Compartments	Nu-tech Furnishings Inc.	Yes	25-Aug-2016	No		Yes	25-Aug-2016
10505	Lockers	Nu-tech Furnishings Inc.	Yes	21-Sep-2016	No		Yes	21-Sep-2106

Note: For Tracking Form Initial Submission include any vendor/subcontractor names available and complete yes/no boxes.

Q2.1R: IAQ Plan, Labeled and dated IAQ photos, IAQ Photo Tracking Matrix.

PS 49Q 9/8/16

CONSTRUCTION INDOOR AIR QUALITY MANAGEMENT PLAN

I. Introduction

In this plan E.W. Howell has developed a Construction Indoor Air Quality (IAQ) Management Plan specific to the PS 49Q project's construction process. The plan addresses the requirements of LEED EQc3.1 and EQc3.2 Construction Indoor Air Quality Management Plan

II. LEED Requirements

The LEED requirements with which this plan complies are the following:

EQc3.1 Construction IAQ Management Plan During Construction

Develop and implement an Indoor Air Quality (IAQ) Management Plan for the construction and preoccupancy phases of the building as follows:

1. During construction meet or exceed the recommended control measures of the Sheet Metal and Air Conditioning National Contractors Association (SMACNA) IAQ Guidelines for Occupied Buildings Under Construction, 2007, Chapter 3, 2nd Edition.
2. Protect on site or installed absorptive materials from moisture damage.
3. If permanently installed air handlers are used during construction, filtration media with a Minimum Efficiency Reporting Value (MERV) of 8 must be used at each return grille, as determined by ASHRAE 52.2-1999.
4. Replace all filtration media prior to occupancy.

EQc3.2 Construction IAQ Management Plan Before Occupancy

Develop and implement an Indoor Air Quality (IAQ) Management Plan for the preoccupancy phases of the building as follows:

1. After construction ends and prior to occupancy and with all interior finishes installed, conduct a building flush out by supplying a total air volume of 14,000 cubic feet of outdoor air per square foot of floor area while maintaining an internal temperature of at least 60 degrees Fahrenheit and a relative humidity of no higher than 60%; or.
2. If occupancy is desired prior to completion of the flush out, the space may occupied following the delivery of a minimum of 3,500 cubic feet of outdoor air per square foot to the space. Once a space is occupied, it shall be ventilated at a minimum rate of .30 cfm/sq ft of outside air or the design minimum outdoor air rate as determined in EQp1, whichever is greater. During each day of the flush out period, ventilation shall begin a minimum of 3 hours prior to the occupancy and continue during occupancy. These conditions must be maintained until a total of 14,000 cubic feet per square foot of outside air has been delivered to the space.

The LEED Reference Guide also requires the Plan to include the following tasks:

1. Sequence the installation of materials to reduce the chances that porous materials absorb contaminants emitted by pollutant sources.
2. Document work undertaken in fulfillment of the plan.
3. Submit documents for LEED Certification.
4. Define overall coordination and communication related to the plans implementation.

CONSTRUCTION INDOOR AIR QUALITY MANAGEMENT PLAN

I. OVERVIEW

The intent of this plan is to:

1. Minimize exposure of construction workers to air pollution.
2. Prevent air pollutants from collecting in building systems and on building materials.
3. Prevent air pollutants caused by construction from migrating into occupied spaces
4. Preventing excessive moisture exposure/moisture damage

For the purpose of this plan, pollutants are defined as:

- Particulates
- Volatile Organic Compounds (VOC)
- Formaldehyde
- Combustion Emissions
- Airborne Bacteria and Micro Organisms
- Airborne Inorganic Compounds, such as ozone (from electric motors), metal fumes (from smoldering and welding) and ammonia and chlorine (from cleaning compounds).

The plan addresses all measures required by the US Green Building Council EQc3.1 and EQc3.2 (Construction Indoor Air Quality Management Plan)

II. PROJECT ORGANIZATION

PERSONNEL AND RESPONSIBILITIES

The following personnel will have primary responsibility for executing and monitoring the Construction IAQ Management Plan. Responsibilities are defined as follows:

General Contractor

- Overall responsibility and execution of the plan.
- Resolve disputes related to Plan execution and coordination.
- Appoint the IAQ Representative. Representative shall work for the General Contractor.
- Develop IAQ control measure schedule. The schedule will list the anticipated dates and expected duration of all control measures. The schedule will be updated as needed, in response to overall changes in the project schedule.

IAQ Representatives – Jack Levitsky (Site Superintendent) & Molly Rooney (Assistant Project Manager, LEED AP BD+C)

- Inform all personnel of the Construction IAQ Management Plan's goals and procedures. Provide opportunities for discussion and feedback to ensure that all construction personnel thoroughly understand the intent and procedures of the plan.
- Regularly inspect the jobsite to supervise and ensure plan compliance.
- Discuss ongoing measures to carry out the plan at project meetings and/or meetings organized to address Construction IAQ Management.
- Ensure the criteria for warnings and corrective actions due to poor or failed compliance with the plan, are clearly understood by all affected parties.
- Notify the project manager if, in the representative's opinion, the procedures and measures required to implement the plan are not being adhered to.
- Generate and/or compile all plan documentation

Subcontractors

- Carry out requirements of the plan under the direction of the representative.
- Discuss measures to carry out the plan at all meetings with the general contractor and with any other subcontractors performing work affected by the plan.
- Sequence work and use work methods that conform to the plan requirements.
- See attached WDF Inc.'s HVAC IAQ Plan

PLAN DOCUMENTATION

Primary copies of the documentation will be filed at the offices of the construction manager. Upon occupancy of the building (or earlier, if requested), the owner will be provided with the following documentation package:

- The approved Construction IAQ Management Plan.
- Minutes of all meetings in which the Construction IAQ issues were discussed.
- Deficiency reports showing all corrective action taken and dates of both deficiency and corrective action.
- Copies of work orders and work order logs.
- Schedule of temporary use of the building mechanical equipment. Schedule of filter change outs showing location, time and filter type, until acceptance of the equipment by the owner.
- Cut sheets for all filtration media.
- Cuts of duct testing and cleaning reports with Merv ratings highlighted
- Job Progress Photographs: at least 18 clear progress photographs evenly divided among 10 different occasions. Photographs will show implementation of various measures required by the plan, and will be labeled to indicate the measure being shown. Photographs will have integral date stamps and will be submitted in chronological order.
- A copy of the IAQ Control Measure schedule

REFERENCE STANDARDS

SMACNA IAQ Guidelines for Occupied Buildings Under Construction 2007, Chapter 3, 2nd Edition -Sheet Metal and Air
Conditioning National Contractors Association (SMACNA). The overall intent and detailed recommendation found in these guidelines is the basis for the plan, although the guidelines are intended for use in occupied buildings.

ANSI/ASHRAE 52.2-1999; Method of Testing General Ventilation Air Cleaning Devices for Removal Efficiency of Particle Size. These define the testing to establish the MERV rating for filters.

General Specification for the Cleaning of HVAC Systems, National Air Duct Cleaning Association 1997; www.nadca.com.

III. CONTROL MEASURES

HVAC EQUIPMENT AND DUCTWORK

HVAC Equipment and ductwork will be protected from dust and other pollutants via the following procedures:

Sealing Ductwork and Air Handling Equipment

- Openings into installed ductwork and air-handling equipment not in active use will be sealed using taped plastic, taped cardboard, or other reasonably air-tight coverings. Sealing will occur prior to, or immediately upon installation of the ductwork or equipment. Regular walk-throughs will be conducted by the IAQ Representative to check for damaged or displaced coverings. Repair or replacement of damaged or displaced coverings will occur immediately upon discovery, at the direction of the IAQ Representative. Tomco Mechanical is responsible for all HVAC protection measures.
- Construction work that generates air pollution will be avoided where ductwork or air-handling equipment is being installed. If visible air pollutants are present in a space where ductwork is to be installed, spot cleaning or other measures will be used to prevent ductwork or equipment contamination.

Use of Mechanical Systems During Construction For Temporary Heat

The use of mechanical systems during construction is subject to the following control and protection measures if used during construction:

- Exhaust and makeup air supply systems: when a system is operated during construction, its filters will be replaced upon completion.
- Central air systems will be subject to these provisions when operated during construction:

- The central AHU will be protected with a temporary filter having a minimum rating of MERV 8 per ASHRAE 52.2-1999.
- Distribution elements needing filters, including all return air ductwork, will be protected with temporary filters having a minimum rating of MERV 8 per ASHRAE 52.2 1999 unless otherwise noted below.
- Filters will be periodically inspected and replaced if dirty.
- All components of the distribution on the return side will be protected, including but not limited to:
  - The portion of the air handler upstream of the central fan:
  - Return vents, ducts and shafts;
  - VAV box intakes; and
  - Transfer ducts.
- Components of the distribution system on the supply side will typically not need protection except:
  - If portions of the supply system become contaminated, coarse filters will be applied to completely cover supply outlets, to prevent the distribution of particulates into building spaces.

Filter Replacement and Tracking

- MERV 8 filters used for ductwork protection will be replaced on an as-needed basis, as determined by the IAQ Representative.
- Prior to flush-out, the MERV 8 filters used for ductwork protection will be discarded. New (Merv 13) filters will be installed at all air handlers prior to flushout.
- A cut sheet for each type of temporary filter and air handling supplemental equipment (i.e. fan coil units, fan power boxes, van boxes, etc.) used will be filed and included in the final submittal.
- A schedule of filter replacements (showing location, time, and filter type) will be recorded and included in the final Plan documentation. Submittal documentation will be provided for information on filtration media prior to installation as IAQ protection during construction.

Duct Cleaning

Duct cleaning will be considered a last resort measure in the event of a failure of other measures. If duct cleaning is needed:

- The work will be done by experienced professionals skilled in the task, using specialized equipment and following the requirements of the General Specifications for the Cleaning of HVAC Systems referenced above.
- If it is found that duct liner, ductwork, or equipment is too contaminated to be cleaned successfully, it will be replaced at no cost to the Owner.
- If construction is still underway at the completion of cleaning, all openings required to be sealed per this Plan will be resealed as soon as possible after cleaning.
- A log recording all duct cleaning that takes place during construction will be created, filed, and included in the final submittal.

- The party creating the pollution will bear the cost of cleaning, if the polluting work was done in violation of the Plan and if the party was properly informed before the violation per the provisions of this Plan.

SOURCE CONTROL

This Plan is predicated on the use of low-emission interior products which comply with the following VOC limit standards and have been reviewed and approved by the Owner's Design Team:

- Adhesives: California Quality Management District (SCAQMD) Rule #1168 (effective July 1, 2005 and rule amendment date of January 7, 2005). [LEED Credit EQ-4.1]
- Sealants: South Coast Air Quality Management District Rule #1168, Organic Compounds: Adhesive and sealant products [LEED Credit EQ-4.1]
- Architectural paints, coatings, and primers applied to interior walls and ceilings: Green Seal Standard GS-11, Paints, First Edition, May 20, 1993. [LEED Credit EQ-4.2]
- Anti-corrosive and Anti-rust paints applied to interior ferrous metal substrates: Green Seal Standard GC-03, Anti-Corrosive Paints, Second Edition, January 7, 1997. [LEED Credit EQ-4.2]
- Clear wood finishes, floor coverings, stains, sealers, and shellacs applied to interior elements: California's South Coast Air Quality Management District (SCAQMD) Rule 1113, Architectural Coatings, rules in effect January 1, 2004. [LEED Credit EQ-4.2]
- Carpet, carpet cushion, and carpet adhesives: Carpet and Rug Institute's (CRI) Green Label Plus program. [LEED Credit EQ-4.3]
- Composite wood, agrifiber products, and laminating adhesives: Urea formaldehyde-free [LEED Credit EQ-4.3]
- Smoking is strictly prohibited inside the building.

Modifying Equipment Operation

To reduce air pollution during construction:

- Electric equipment will be used instead of gasoline-powered equipment whenever practical.
- Bottled gas will be used in place of diesel fuel whenever practical.
- Exhaust from gasoline or diesel vehicles will be kept away from air intake pathways.
- Fuel-burning equipment will be cycled off during extended periods between uses.

Changing Work Practices

All construction workers will use work practices that reduce the generation and distribution of indoor air pollutants. The individual contractor IAQ Representatives will conduct orientation sessions with affected construction workers and supervisors. In these sessions, the IAQ Representative will review goals covering all aspects of the Plan, including HVAC protection, source control, pathway interruption, use of low-VOC products, housekeeping, and flush-out.

Local Temporary Exhaust

Where available; operable vents and windows will be opened to ventilate the building during application of interior finishes when weather conditions are suitable. Spaces with fixed glazing or no windows will be ventilated by localized temporary exhaust, as described below or by using building mechanical systems (described above).

- Any local regulations concerning the discharge of particulates will be adhered to.
- Local temporary exhaust will be accomplished using fans, duct extensions, and filters.
- Local temporary exhaust will not discharge near air intakes or other openings that lead into the building.
- When necessary to control odors, special filtration media such as potassium permanganate or activated charcoal will be used.

- Building louvers may be temporarily removed, or the installation of fixed windows delayed for the placement of exhaust ductwork.

Covering or Sealing Sources of Pollution

The following rules apply to materials that emit air pollutants or odors:

- Containers containing wet materials will be covered whenever they are not in active use.
- Waste material will be covered or sealed and regularly removed from the building.
- Absorptive materials or materials with an odor will be covered while moved through the building.
- Whenever possible, material containers will be disposed of with the covers on.
- Enclosed tankers will be used for built-up roofing instead of open kettles. Materials that require a surface coating to control pollutants or odors will be coated promptly.

PATHWAY INTERRUPTION

Measures will be implemented to close or cover pathways between spaces though which pollutants could travel.

Controlling Pollution at Entrances

Measures will be taken to prevent pollutants from being tracked into interior spaces by workers or equipment. To be swept clean using green dust as needed.

Protection of Stored Materials

Measures will be taken to minimize dust accumulation on material surfaces and the absorption of other pollutants by absorbent materials. The measures will include the following:

- Materials will be handled and stored according to the manufacturer's recommendation.
- Unwrapped absorbent materials will be shrink-wrapped if necessary and as indicated below.
- Highly absorbent materials like duct liner, acoustic tile, carpeting, or insulation will be stored indoors in the original packaging, or covered and sealed.
- Moderately porous materials like gypsum board will be stored indoors, wrapped or away from dust and materials prone to off-gas VOC's.
- Framing lumber will be stored indoors whenever possible. If stored outdoors, the lumber will be (1) covered with a water proof covering, (2) stored off the ground, and (3) located away from standing water.
- Dense material like glass, metal framing, ductwork and equipment will be covered and kept dry.
- If condensation forms on cold material, care will be taken not to expose it to dust or other particles. If exposed to pollution, housekeeping measures will be used promptly to clean the material before installation.

Protection of Materials During and After Installation

- No materials intended for dry installation will be installed wet.
- No materials will be stored in rooms containing air-handling equipment, other than materials intended for use there.
- The Representative will determine the appropriate measures to prevent water damage to materials not intended to be wet during construction, including temporary water barriers and/or water stops.
- Subcontractors are required to notify the IAQ Representative of any condition in which a material may be moisture damaged. The IAQ Representative will inspect the material and determine if it needs to be replaced.
- Subcontractors who apply finishes without notifying the IAQ Representative of underlying water damage will be financially responsible for the cost of removing and replacing all affected materials, and of related work, including investigating for mold spores.

Preventing Contamination of Completed Areas from Work under Construction

When work is completed in an area, the area will be protected from pollutants generated in other parts of the building still under construction. One or more of the following methods of pathway interruption will be used:

Erecting barriers between completed areas and areas still under construction

Where present, doors and windows will be closed and locked between completed portions of the building and portions of the building still under construction. The closures will be further sealed with tape, plastic sheeting and/or sealant, if necessary.

Where there is no constructed barrier between the two portions of the building, a temporary barrier will be erected close in the small of the two spaces. The edge of the temporary barrier will be taped continuously to ensure a tight seal, or even caulked. The temporary barrier will be erected to withstand pressure differentials between the two spaces. Elevator and stairways that open on to both completed areas and areas still under construction will have air lock vestibules at their entries to the floor to prevent the passage of dust and other contaminates by the stack affect.

HOUSEKEEPING

The following housekeeping measures will be employed as part of the Plan:

- A regular housekeeping schedule will be instituted. Cleaning measures and frequency will be selected according to the pollutants generated in a space.
- Where applicable, dust will be suppressed by the use of low-odor wetting agents and sweeping compounds.
- Low-odor cleaning agents will be used.
- Spills of water or solvent will be cleaned up immediately.
- Attention will be given to cleaning hidden or hard-to-reach surfaces, such as wall cavities, tops of door, ledges, and behind water closets.
- Standing water will not be allowed
- Un-vented combustion use is prohibited.

SEQUENCING FINISH APPLICATIONS

- The installation and application of finishes will be scheduled to prevent porous materials from acting as "sinks" for the storage and subsequent release of contaminants emitted from wet-applied finishes and other high off-gassing materials.

PROCEDURES

The following sequencing procedures will be coordinated by the Representative:

Only low-VOC adhesives will be used for carpet installation.

- Caulks, sealants, and joint fillers will be applied prior to installing carpets or acoustical ceiling tiles. Painting of interior walls, soffits, doors, frames, etc. (with the exception of touch-up work) will occur prior to installing carpets or acoustical ceiling tiles.
- Only low-VOC paints and primers will be used.
- Where feasible, a primer coat of paint will be applied to gypsum wallboard prior to the application of caulks, sealants, and joint fillers.
- Custom architectural millwork items will be finished off-site and delivered to the site after a minimum 48 hour curing period.
- Fabric-covered systems furniture panels and upholstered furniture will be installed after all other finish work is complete, and after flush-out is complete.

- Proper curing of concrete before covering: Applicable finishes over concrete will be installed according to manufacturer's instructions regarding the appropriate condition of the slab.

BUILDING FLUSH-OUT

The following procedures address the requirements of LEED Credit EQ-3.2: Construction IAQ Management Plan Before Occupancy.

FLUSH-OUT

- After completing and cleaning the building, all mechanical systems that supply outside air will supply a total air volume of [14,000 cubic feet] of outdoor air per square foot of floor area while maintaining an internal temperature of at least 60 degrees Fahrenheit and a relative humidity no higher than 60%.

-OR-

- After completing and cleaning sections of the building to be occupied prior to the flush-out, all mechanical systems that supply outside air to the completed section will supply a minimum of 3,500 cubic feet of outdoor air per square foot of the floor area space. The occupied space will be ventilated at [a minimum rate of 0.30 cfm/sq.ft. of outside air or the design minimum outside air rate determined in EQ Prerequisite 1, whichever is greater.]
- Ventilation of the occupied spaces will begin [a minimum of 3 hours] prior to occupancy and continue for the duration of occupancy. Flush-out will continue until a total of [14,000 cu. ft./sq. ft.] of outside air has been delivered to the space.]
- Filters at central air handling units (AHU's) that are operated during flush out: o Prior to use, each AHU will be equipped with filters having a minimum rating of MERV 8 or design MERV rating, whichever is greater. per ASHRAE 52.2-1999 (AHU's that have been operated during construction will already be so equipped per the above section "Use of Mechanical Systems during Construction").
- After flush-out, filters in those AHU's that supplied and exhausted 100% outside air will be inspected. If a significant accumulation of particulates has occurred, these filters will be replaced.
- When a completed section of the building is flushed out while construction continues elsewhere, it will be effectively separated from on-going construction-generated pollution in accordance with the requirements of "Pathway Interruption," above.
- Care will be taken to prevent pollution generated by construction dust, particulates or volatile chemicals from entering outside air intakes during flush-out.

PS 49Q

CONSTRUCTION INDOOR AIR QUALITY PLAN

Objective
The Construction Indoor Air Quality (IAQ) Plan is intended to meet the recommended approaches of the Sheet Metal and Air Conditioning National Contractors Association (SMACNA) IAQ Guideline for Occupied buildings under Construction, 2007, Chapter 3, 2nd Edition.

Plan Summary
Construction generates dirt, dust, debris and releases particulates, gasses and Volatile Organic Compounds (VOC) into the air. The protection of air quality during construction mitigates concerns relative to the well-being of workers during the project and is important for the future air quality of later occupants of the building.

An IAQ Plan, combined with proactive communication and education, can successfully control pollutant levels and maintain occupant health and comfort during and after construction.

Utilizing IAQ best practices during construction greatly reduces the amount of airborne dust and construction debris, protects finished work from exposure to dust and debris, and prevents air handling systems from distributing dust and debris throughout the building. This will contribute to the quality of the building construction and the overall quality of the interior environment of the building when in operation.

Plan Outline

Items and activities specifically identified to be a part of this plan include:

- HVAC Equipment and material protection
- Source control,
- Pathway interruption,
- Housekeeping
- Scheduling.

In an effort to ensure that all participants in the construction process are aware of the IAQ procedures and understand the importance of the goals of the IAQ Plan, these construction-related IAQ procedures will be included in the pre-construction and construction progress meeting agendas.

HVAC Unit Protection

1. While a key role of the equipment is to ensure healthy indoor air, the system can itself become a problem if adequate care is not taken during construction. Construction employees are to keep all supply, return and exhaust ductwork clean and free from dirt, mold and air-borne contamination during construction. On site protection procedures shall consist of the following:
   a. ***Clean, dry storage***. All ventilation ductwork stored on-site will be stored in a clean

dry location on raised pallets or platforms to prevent contact with slab and contaminants. All equipment openings will be covered with construction plastic to prevent infiltration of dust, moisture, or other contaminants.

b. ***Seal all inlets and outlets during installation***. All installed ductwork will have free, open ends or other openings taped and sealed with plastic cleanly without damage or residue on the ducts. All ductwork will remain dormant during construction until all equipment is installed, the final connection is made, and the units are tested. Or, for ducting runs that require several days to install, seal off sections as they are completed, then remove those seals prior to continuing the ducting run. If the system must be operated to maintain service to other occupied portions of the building o to protect finished work to be sure to protect the return/negative pressure side of the system. For a ceiling plenum all tiles should be in place.

c. ***Temporary ventilation during construction***. If required, (with change order) The contractor will avoid using the building system altogether during construction and rely on temporary ventilation system that introduces outside air and ventilates contaminated air directly, e.g. window-mounted fan units.

d. ***Temporary filtration***. If the system is to be used while construction is being done, install temporary filtration media on all air intakes. The filtration media with a minimum efficiency reporting value (merv) of 8 must be used at each return air grille, as determined be ASHRA 52.-1999/

Source Control

a. **Protect against moisture.** All materials subject to moisture absorption, e.g. drywall, insulation, wood; etc will be stored off the slab in a covered, dry, well-ventilated area to prevent exposure to foreign matter.

b. **Avoid use of moisture-damaged materials.** Materials showing visible damage, moisture, or other contamination will be discarded under properwaste removal guidelines or dried thoroughly before installation. Sequence the installation materials to avoid contamination of absorptive materials such as insulation, carpeting, ceiling tile, gypsum wallboard.

c. **Ensure that construction detailing will not result in moisture introduction.** Architect and contractor should be alert for design flaws that will result in water entry into the building, e.g., leakage at roof inspection, poor rain screen details, etc.

d. **Use low-emitting products.** VOC limits will be maintained via submission of manufacturer's specifications on project materials prior to their introduction to the site. Use low emission or emission free equipment where possible, and do not idle any vehicles or equipment unnecessarily.

e. **Local exhaust.** Where possible, use portable equipment to exhaust emissions to the outdoors. Filtration may be necessary. Comply with applicable regulations and direct exhaust away from any air intakes. Where exhaust is not possible, a portable air cleaner may be effective.

Pathway Interruption

1. During construction, Tomco Mechanical Corp. (Tomco) will isolate areas of work to prevent contamination of clean or occupied spaces. When possible WDF Inc. will use 100% outside air ventilation (depending on climate) with air exhausted directly to the outside during installation of finishes and other VOC emitting materials and performance of activities that generate dust or odor. Where possible, Tomco will request for barriers to be erected by non-Tomco carpenters such as dust curtains or plastic sheets between work areas to prevent unwanted air flow from dirty to clean areas. Where needed, Tomco will include temporary walk-off mats and floor protection.

2. During dust emitting work, Tomco will run provided fans continuously using the maximum amount of outside air possible during installation of materials and finishes,

3. Measures should be taken to minimize dust accumulation on material surfaces and the absorption of other pollutants by absorbent materials. Tomco measures will include the following:
    a. **Seal off work areas from finished areas to prevent contamination.** This may include, but is not limited to, erecting temporary plastic barriers around doorways. All project equipment and material staging areas will be located away from critical air flow pathways. Mechanical rooms and air handling equipment area will not be used as storage space for construction materials and waste.
    b. **Avoid tracking pollutants into the work area.** Control access to the construction site to minimize the transfer of possible contaminants from on work area to another area. Provide rough tack off grates or matting at the entryways to remove moisture and contaminants from workers shoes.
    c. **Ventilate.** Depending on the weather conditions, ventilate using 100% outside air to exhaust contaminated air directly to the outside during installation of VOC-emitting materials.
    d. **Pressurization.** The more finished areas should be protected from the work areas by using air barrier of pressure differential to isolate areas at different stages of completion. Where necessary and possible, such protection will be achieved with high pressure ventilation in the work areas.
    e. **Seal opening.** All transfer ducts, pipe chases and other openings that span the area between the finished areas and the work areas should be temporarily sealed by taping plastic sheeting over such openings and sealing the edges with tape.

Housekeeping

Where applicable the following housekeeping measures will be employed as part of the Tomco IAQ plan:

a. **Minimize.** Use construction practices to minimize accumulation of dust and other contaminants on site, e.g. using dust collection bags with power tools.
b. **Confine.** Centralize indoor cutting or other dust generating activities to contain and control the clean-up area.
c. **Suppress.** Use wetting agents or sweeping compounds (non-toxic) to keep dust from becoming airborne.
d. **Clean-up.** Use wet clean up and vacuums with HEPA filters to clean up dust. Clean daily or as often as possible to prevent dust migration on the site. Use Green Seal GS-37 Cleaners or equal.
e. **Spills.** Any water or other liquid spill should be cleaned upon occurrence to prevent damage or evaporation.
f. **Keep work area dry.** Prevent spills and clean all water on-site, keep site as dry as possible. Minimize outside moisture or rain penetration through each stage of construction. When sealed to outside moisture, dehumidify site if humidity goes above 50%.
g. **Cover.** Seal containers of volatile liquids while not in use and store off site where possible.
h. **Storage.** Do not store construction materials in finished spaces.
i. **Hazardous material.** Follow applicable guidelines and regulations when hazardous materials are involved.

Scheduling

WDF Inc. and Airtech understands importance of scheduling work activities with high pollution potential during off hours and where applicable will plan its schedule as required.

1. Tomco HVAC work activities will be sequenced to minimize absorption of contaminants.
2. Tomco Site Supervisor will determine whether work area requires adequate airing out of dust materials and request and/or move equipment to the location when necessary.
3. Time allowance will be given for any material or equipment to be delivered to the site that would ensure safe work environment.
4. WDF/Airtech will abide by the written schedule provided by the GC involving installation of porous materials, installation of finis materials, curing time and off gassing.

Building Flushout

Tomco will work with EWH and other contractors to assist with building flushout to demonstrate that maximum allowable concentrations of contaminants are not exceeded.

Reporting

Tomco Project Manager and Site Supervisor will adhere to the Indoor Air Quality Management plan as set by the GC throughout the construction period. At the end of the

construction period, Tomco's Project Manager and Site Supervisor will have the following documents:

1. Copy of Construction IAQ Management Plan.
2. Meeting minutes, checklists, worksheets, notifications and deficiency or resolution.
3. Logs related to IAQ issues
4. Progress photographs during documenting of IAQ measures implemented during construction
5. Documentation and log of air inspection, testing and cleaning, where necessary

Execution

Project Manager of Tomco: Anthony Martinelli 516 425-2149
Site Supervisor of Tomco:

Equipment and material protection			
Action	**Who**	**When**	**Completed**
] Inspect and determine what equipment and material needs to be protected from dust			☐
] Cover any equipment and material with tarps or plastic to prevent dust or moisture infiltration			☐
] Inspect equipment and material to insure they are tight and sealed			☐

Source Control			
Action	**Who**	**When**	**Completed**
] Conduct IAQ meeting to review IAQ goals			☐
] Open operable vents and windows to ventilate a work site			☐
] Set up local temporary exhaust			☐
] Set up special filtration media to control odors			☐

Pathway Interruption			
Action	**Who**	**When**	**Completed**
] Erect dust curtains or plastic sheets			☐
] Set up provided fans to run the outside air			☐
] Store materials according to the manufacturer's Recommendations (shrink-wrap, seal and/or cover)			☐

Housekeeping			
Action	**Who**	**When**	**Completed**
] Remove/Sort waste materials, rubbish, recyclables, and other debris resulting from work			

Scheduling			
Action	**Who**	**When**	**Completed**
] Inspect and determine whether work area Requires adequate airing out of dust			
] Move fan and exhaust equipment to the location			

Building Flushout			
Action	**Who**	**When**	**Completed**
] Assist EWH with building flushout			

Reporting			
Action	**Who**	**When**	**Completed**
] Assist EWH with building flushout			

GREEN SCHOOLS GUIDE
Q2.1 IAQ PHOTO TRACKING MATRIX

PROJECT NAME: P.S. 49 Queens Addition Date: 10/23/2017

CONTRACTOR: EW Howell

Contractor to review listing of SMACNA control measures and revise as applicable to project. Provide a minimum of 6 photos over a period covering no less than 3 dates. Submitted photographs to be date-stamped and labeld with SMACNA measure being highlighted. Please provide as wide a variety of images as possible.

SMACNA Chapter 3 Control Measures													
Date of photos:	10/27/2016	11/28/2016	12/7/2016	1/24/2017	2/22/217	3/17/2017	4/26/2017	5/12/2017	6/3/2017	2/2/2017	2/28/2017	3/29/2017	4/27/2017
3.2 HVAC EQUIPMENT AND DUCTWORK													
Sealing Ductwork and Air Handling Equipment	X	X	X	X	X	X	X	X	X				
Filter Replacement and Tracking													
Use of Mechanical Systems during Construction													
Duct and HVAC Equipment Cleaning													
3.3 SOURCE CONTROL													
Product Substitutions													
Low-Emission Products / Product Substitution													
Changing Work Practices													
Temporary Exhaust and Ventilation							X	X					
Sealing Pollution Sources													
3.4 PATHWAY INTERRUPTION													
Depressurize the Work Area													
Pressurize Occupied Space													
Erect Barriers to Contain Construction Area										X	X	X	X
Relocate Pollutant Sources													
3.5 HOUSEKEEPING													
Routine Jobsite Cleaning					X			X					
Protection of Stored Materials before Installation	X	X	X	X		X	X		X				
Protection of Materials During and After Installation						X	X	X					
3.6 SCHEDULING													
Airing-out of New Materials													
Sequencing of Finish Applications													
Proper Curing of Concrete before Covering													
Installation during Unoccupied Periods													

REVIEWED FOR SUBMISSION
PS /IS 49 Queens
SCA Contract #: C000014133
LLW#089232
EW HOWELL
Submittal # S01550-012-001
10/20/17

PS 49

63-60 80th Street

Middle Village, NY 11379

LEED Version: SCA Green Schools Guide v2009

Requested IAQ Report

Attached please find photos highlighting the IAQ Management Plan practices for PS 49. As per your request, the attached photos include one (1) additional measure to demonstrate a total of six (6) IAQ measures.

1. Barriers to contain construction area dated February 2, 2017
2. Barriers to contain construction area dated February 28, 2017
3. Barriers to contain construction area dated March 29, 2017
4. Barriers to contain construction area dated April 27, 2017

Please note that this will serve as the final IAQ Report, as all construction has been completed.

Molly Rooney Date: 10/20/2017

Molly Rooney, E.W. Howell
Assistant Project Manager, LEED AP BD+C

_MG_5469-February 02, 2017 12:25:29 PS/IS 49(Q) 63-60 80th Street, Middle Village, NY-Image facing South-East Contract #3-15-13-LS-05 - Photo by Clifford Mason for E.W. Howell, Inc.

General view from Juniper Blvd & 79th St

_MG_6488-February 28, 2017 11:40:41 PS/IS 49(Q) 63-60 80th Street, Middle Village, NY-Image facing South-East Contract #3-15-13-LS-05 - Photo by Clifford Mason for E.W. Howell, Inc.

General view from Juniper Blvd & 79th St

_MG_7425-March 29, 2017 13:17:32 PS/IS 49(Q) 63-60 80th Street, Middle Village, NY-Image facing South-East Contract #3-15-13-LS-05 - Photo by Clifford Mason for E.W. Howell, Inc.
General view from Juniper Blvd and 79th Street

_MG_8403-April 27, 2017 12:06:05 PS/IS 49(Q) 63-60 80th Street, Middle Village, NY-Image facing South-East
Contract #3-15-13-LS-05 - Photo by Clifford Mason for E.W. Howell, Inc.
General view taken from Juniper Blvd & 79th St - Scaffold removed

EWHOWELL
CONSTRUCTION GROUP

REVIEWED FOR SUBMISSION
PS /IS 49 Queens
SCA Contract #: CB00014133
LLW#89232
EWHOWELL
Submittal # S01550-010-001
7/12/17

PS 49

63-60 80th Street

Middle Village, NY 11379

LEED Version: SCA Green Schools Guide v2009

Monthly IAQ Report for **JUNE 2017**

Attached please find photos highlighting the IAQ Management Plan practices for PS 49. The following six (6) photos include:

1. Uninstalled duct having all opening sealed to prevent water, moisture, dust, and other contamination
2. Uninstalled duct stored on pallets away from work areas
3. Installed duct with open connections sealed when no work is being performed on the specific duct
4. Temporary ventilation work areas
5. IAQ monitored daily

Molly Rooney

Date: 07/12/2017

Molly Rooney, E.W. Howell
Assistant Project Manager, LEED AP BD+C


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EW HOWELL
CONSTRUCTION GROUP

EW HOWELL
Submittal # S01550-009-001
6/13/17

PS 49

63-60 80th Street

Middle Village, NY 11379

LEED Version: SCA Green Schools Guide v2009

Monthly IAQ Report for **MAY 2017**

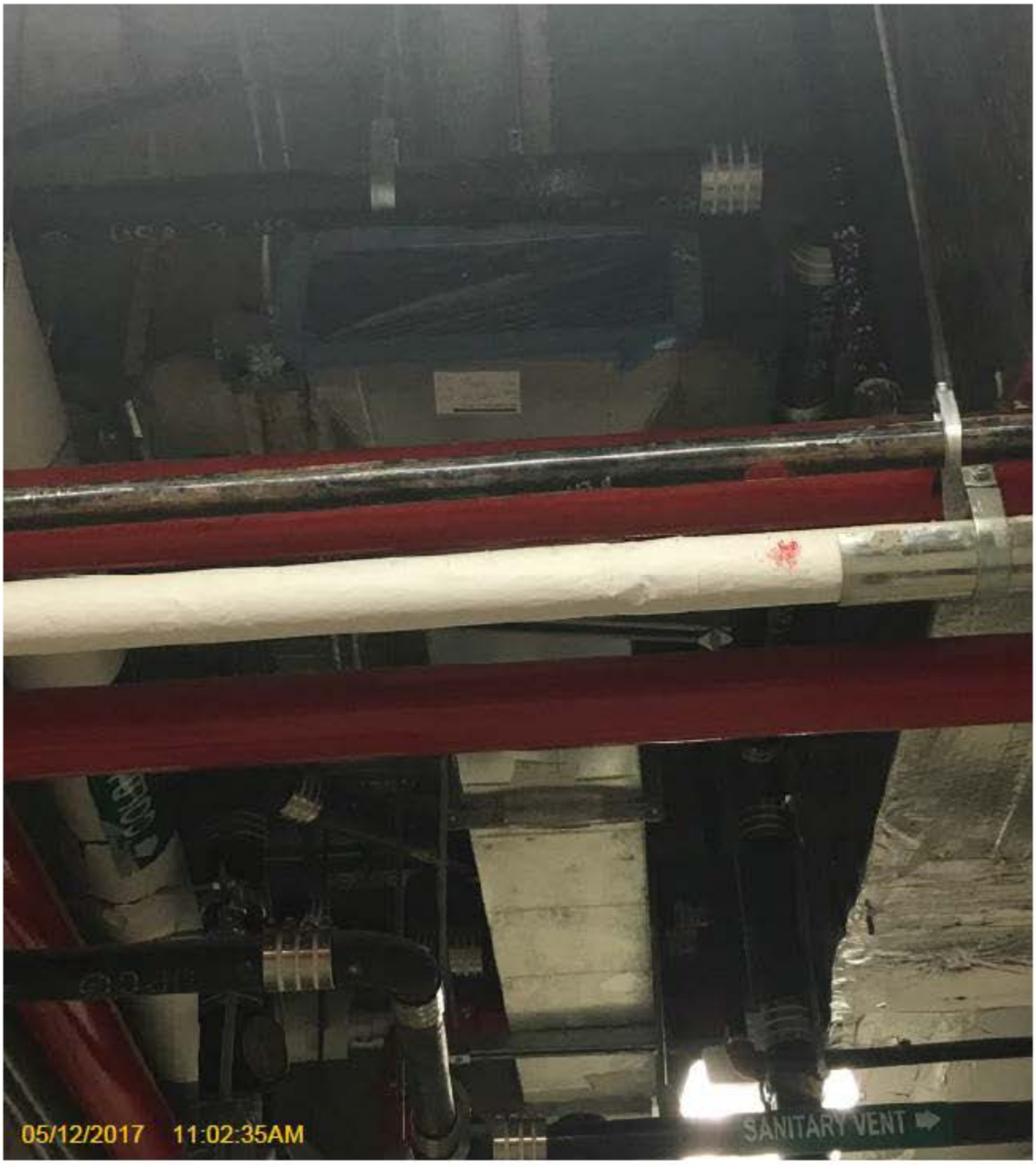
Attached please find photos highlighting the IAQ Management Plan practices for PS 49. The following six (6) photos include:

1. Uninstalled duct having all opening sealed to prevent water, moisture, dust, and other contamination
2. Uninstalled duct stored on pallets away from work areas
3. Installed duct with open connections sealed when no work is being performed on the specific duct
4. Temporary ventilation work areas
5. IAQ monitored daily

Molly Rooney

Date: 6/12/2017

Molly Rooney, E.W. Howell
Assistant Project Manager, LEED AP BD+C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PS 49

63-60 80th Street

Middle Village, NY 11379

LEED Version: SCA Green Schools Guide v2009

Monthly IAQ Report for **APRIL 2017**

Attached please find photos highlighting the IAQ Management Plan practices for PS 49. The following six (6) photos include:

1. Uninstalled duct having all opening sealed to prevent water, moisture, dust, and other contamination
2. Uninstalled duct stored on pallets away from work areas
3. Installed duct with open connections sealed when no work is being performed on the specific duct
4. Temporary ventilation work areas
5. IAQ monitored daily

Molly Rooney

Date: 05/10/2017

Molly Rooney, E.W. Howell
Assistant Project Manager, LEED AP BD+C


04/26/2017 11:51:41


04/26/2017 11:52:55


04/26/2017 11:53:49


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04/27/2017 12:01:59


04/27/2017 12:06:45

PS 49

63-60 80th Street

Middle Village, NY 11379

LEED Version: SCA Green Schools Guide v2009

Monthly IAQ Report for **MARCH 2017**

Attached please find photos highlighting the IAQ Management Plan practices for PS 49. The following six (6) photos include:

1. Uninstalled duct having all opening sealed to prevent water, moisture, dust, and other contamination
2. Uninstalled duct stored on pallets away from work areas
3. Installed duct with open connections sealed when no work is being performed on the specific duct
4. Temporary ventilation work areas
5. IAQ monitored daily

Molly Rooney

Date: 4/7/2017

Molly Rooney, E.W. Howell

Assistant Project Manager, LEED AP BD+C


03/17/2017 14:24:14


03/17/2017 14:16:34


03/17/2017 14:13:02


03/29/2017 13:52:01


03/28/2017 13:36:31


03/28/2017 13:33:07

PS 49

63-60 80th Street

Middle Village, NY 11379

LEED Version: SCA Green Schools Guide v2009

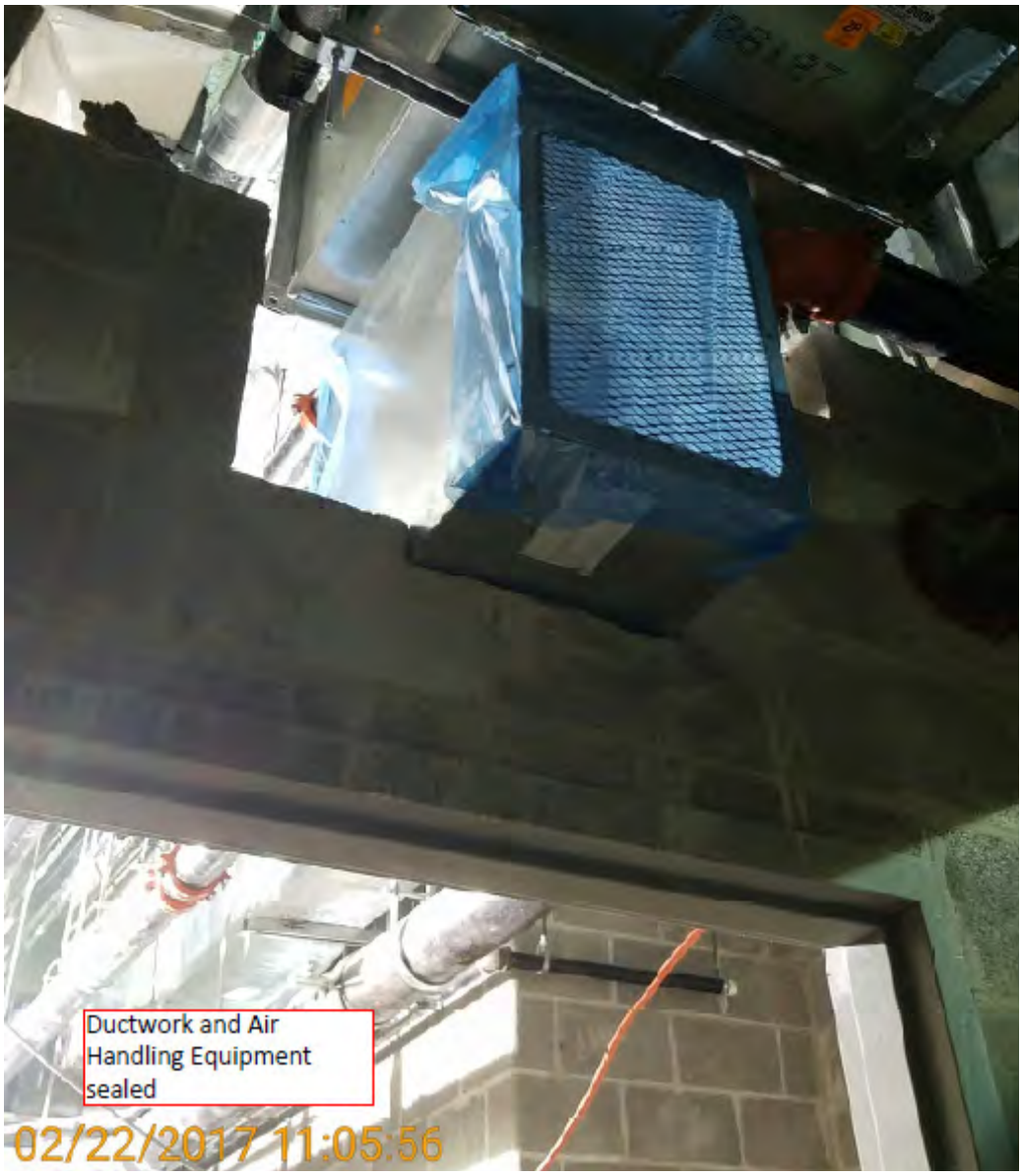
Monthly IAQ Report for **FEBRUARY 2017**

Attached please find photos highlighting the IAQ Management Plan practices for PS 49. The following six (6) photos include:

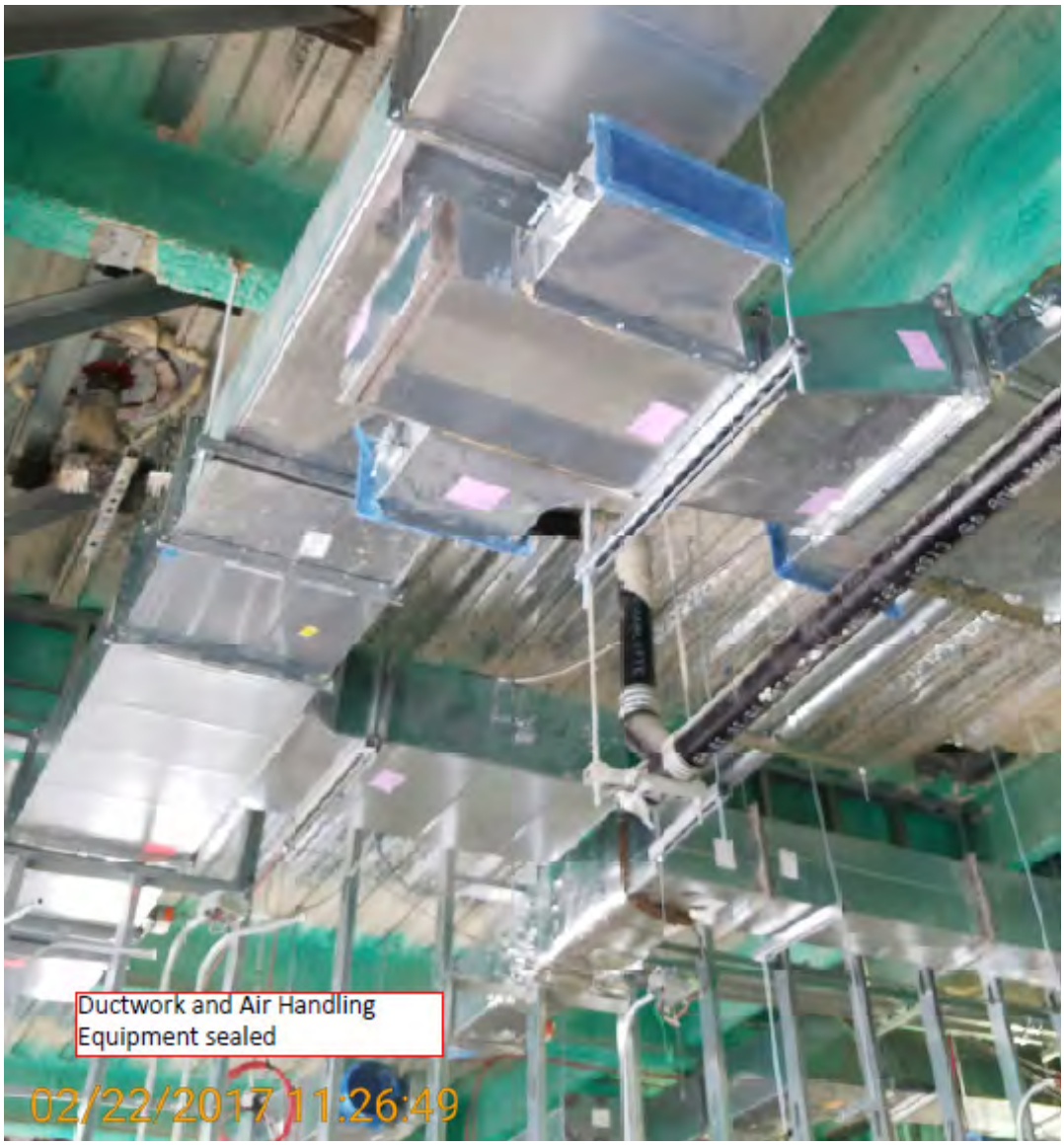
1. Uninstalled duct having all opening sealed to prevent water, moisture, dust, and other contamination
2. Uninstalled duct stored on pallets away from work areas
3. Installed duct with open connections sealed when no work is being performed on the specific duct
4. Temporary ventilation work areas
5. IAQ monitored daily

Molly Rooney Date: 3/3/2017

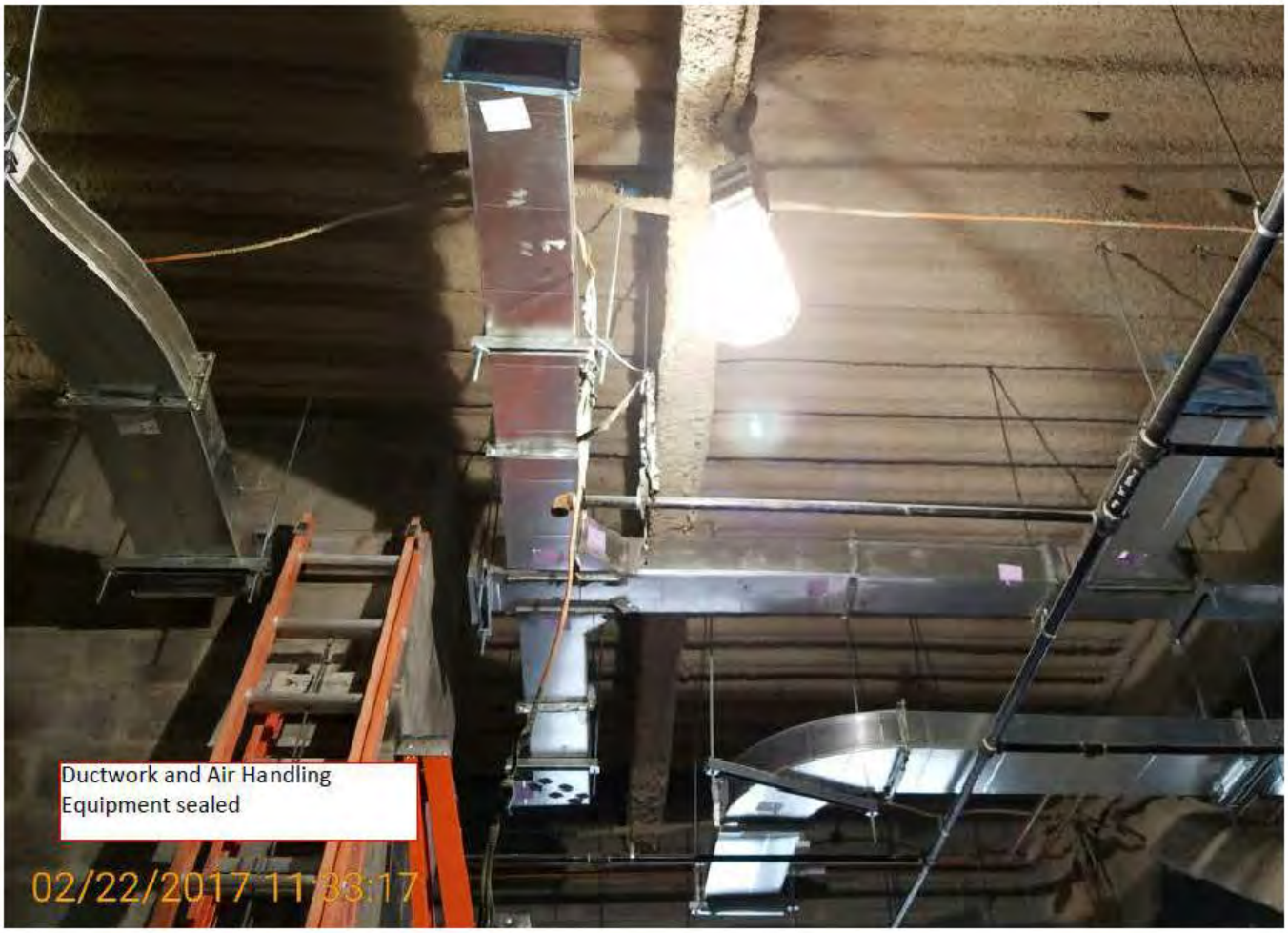
Molly Rooney, E.W. Howell
Assistant Project Manager, LEED AP BD+C


Ductwork and Air
Handling Equipment
sealed
02/22/2017 11:05:56


Ductwork and Air Handling Equipment sealed
02/22/2017 11:14:17


Ductwork and Air Handling
Equipment sealed
02/22/2017 11:26:49


Ductwork and Air Handling
Equipment sealed
02/22/2017 11:31:46


Ductwork and Air Handling
Equipment sealed
02/22/2017 11:33:17


GREEN
DUST
GREEN
DUST
GREEN
DUST
Uninstalled duct stored on pallets away from work areas
Housekeeping - Dust Control Powder
02/22/2017 11:46:09

PS 49

63-60 80th Street

Middle Village, NY 11379

LEED Version: SCA Green Schools Guide v2009

Monthly IAQ Report for **JANUARY 2017**

Attached please find photos highlighting the IAQ Management Plan practices for PS 49. The following six (6) photos include:

1. Uninstalled duct having all opening sealed to prevent water, moisture, dust, and other contamination
2. Uninstalled duct stored on pallets away from work areas
3. Installed duct with open connections sealed when no work is being performed on the specific duct
4. Temporary ventilation work areas
5. IAQ monitored daily

Molly Rooney

Date: 2/1/2017

Molly Rooney, E.W. Howell

Assistant Project Manager, LEED AP BD+C


01/24/2017 2:04 PM
Installed duct with open connections sealed when no work is being performed on the specific duct.


01/24/2017 2:06 PM
Uninstalled duct stored on pallets away from work areas


01/24/2017 2:08 PM
Uninstalled duct having all openings sealed to prevent water, moisture, dust, and other contamination


01/24/2017 2:08 PM
Uninstalled duct having all openings sealed to prevent water, moisture, dust, and other contamination


01/24/2017 2:11 PM
IAQ monitored daily


01/24/2017 2:15 PM
Installed duct with open connections sealed when no work is being performed on the specific duct

PS 49

63-60 80th Street

Middle Village, NY 11379

LEED Version: SCA Green Schools Guide v2009

Monthly IAQ Report for **DECEMBER 2016**

Attached please find photos highlighting the IAQ Management Plan practices for PS 49. The following six (6) photos include:

1. Uninstalled duct having all opening sealed to prevent water, moisture, dust, and other contamination
2. Uninstalled duct stored on pallets away from work areas
3. Installed duct with open connections sealed when no work is being performed on the specific duct
4. Temporary ventilation work areas
5. IAQ monitored daily

Molly Rooney

Date: 01/03/2017

Molly Rooney, E.W. Howell
Assistant Project Manager, LEED AP BD+C


Uninstalled duct stored on pallets away from work areas
12/07/2016 2:18 PM


Uninstalled duct stored on
pallets away from work area
12/07/2016 2:21 PM


Pathway interruption- protection of stored materials
12/07/2016 2:21 PM


Ductwork and air-handling equipment sealed
12/07/2018 2:23 PM


Ductwork and air-handling equipment sealed
12/07/2016 2:23 PM


Ductwork and air handling equipment sealed
12/07/2016 2:26 PM

EWHOWELL
CONSTRUCTION GROUP

PS 49

63-60 80th Street

Middle Village, NY 11379

LEED Version: SCA Green Schools Guide v2009

Monthly IAQ Report for NOVEMBER 2016

Attached please find photos highlighting the IAQ Management Plan practices for PS 49. The following six (6) photos include:

1. Uninstalled duct having all opening sealed to prevent water, moisture, dust, and other contamination
2. Uninstalled duct stored on pallets away from work areas
3. Installed duct with open connections sealed when no work is being performed on the specific duct
4. Temporary ventilation work areas
5. IAQ monitored daily

Molly Rooney

Date: 12/01/2016

Joe Petito, E.W. Howell
Project Manager


Source Control- protection of stored materials
11/28/2016 10:06 AM


Ductwork and air-handling equipment sealed
11/28/2016 10:06 AM


Uninstalled duct stored on pallets
away from work areas
11/28/2016 10:07 AM


Ductwork and air-handling equipment sealed
11/28/2016 10:08 AM


Ductwork and air-handling equipment sealed
11/28/2016 10:08 AM


Uninstalled duct stored on pallets
away from work areas
11/28/2016 10:12 AM

PS 49Q

63-60 80th Street

Middle Village, NY 11379

LEED Version: SCA Green Schools Guide v2009

Monthly IAQ Report for OCTOBER 2016

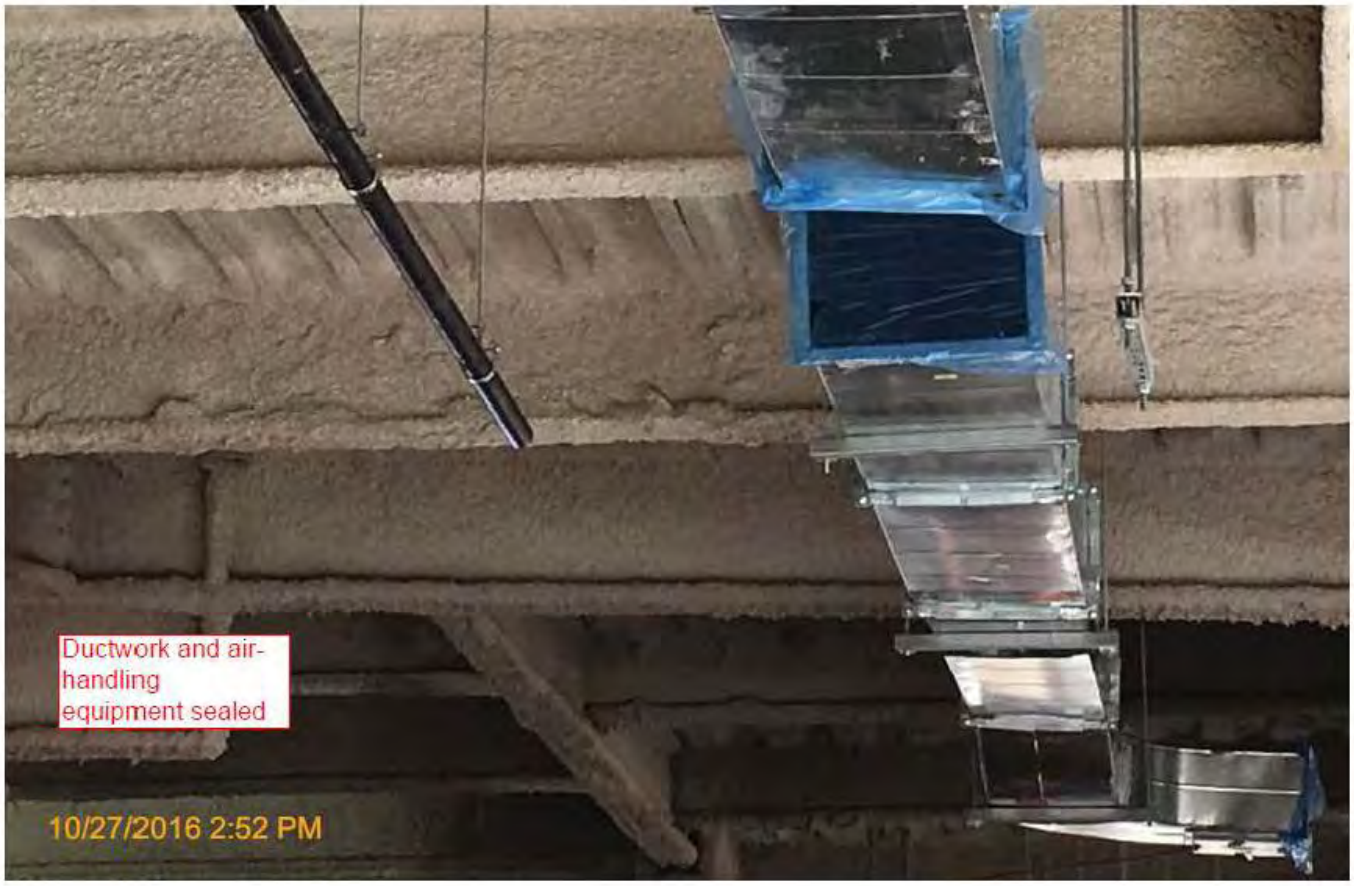
Attached please find photos highlighting the IAQ Management Plan practices for PS 49. The following six (6) photos include:

1. Uninstalled duct having all opening sealed to prevent water, moisture, dust, and other contamination
2. Uninstalled duct stored on pallets away from work areas
3. Installed duct with open connections sealed when no work is being performed on the specific duct
4. Temporary ventilation work areas
5. IAQ monitored daily

Molly Rooney

Date: 11/14/16

Molly Rooney, E.W. Howell
Assistant Project Manager


Ductwork and air-handling equipment sealed
10/27/2016 2:52 PM


Ductwork and air-handling equipment sealed
10/27/2016 2:53 PM


Ductwork and air-handling equipment sealed
10/27/2016 2:53 PM


Uninstalled duct stored on pallets away from work areas
10/27/2016 2:54 PM


Ductwork and air-handling equipment sealed


Ductwork and air-handling equipment sealed
10/27/2016 2:57 PM

Q2.2R: Flush-out procedures description, flush-out calculations, and flush-out letter

TOMCO MECHANICAL CORP.

125 State Street, Westbury, New York 11590
(516) 546-5700 / FAX (516) 546-7521

P.S. 49 - Middle Village

EW Howell Project: #03-15-13

Submittal Date: 09/22/16

Revision Date: 04/17/17

Contractor: E.W. Howell Co., LLC

Subcontractor: Tomco Mechanical Corp.

Supplier: TOMCO MECHANICAL CORP.

Manufacturer:

Preparer: Tomco Mechanical Corp.

Drawing No.:

Specification No.:15992-001-002

Sect./Div. No.: Sect. 15 - Div.15992

Paragraph No.: All Paragraphs within given sections

Title: **15992 – Cleaning & Testing – Flushout Procedure and Calculation (IAQ)**

TOMCO MECHANICAL CORPORATION
125 STATE STREET
WESTBURY, NEW YORK 11590
(516) 546-5700 (Tel.)
(516) 546-7521 (Fax)

FLUSH-OUT PROCEDURE AND CALCULATION FOR PS-49

September 22, 2016

PS-49
63-60 80th Street
Middle Village, New York 11379

PROCEDURE

- Set all roof top and exhaust fans units for 100% outside air
- Maintain air temperature to specified design
- RH to be no higher than 60%
- Set BMS system to show start time, operating hours, temperature, RH and volume of outside air on roof top unit #1.
- Testing will start on 8/1/17 and run for 21 days continuously

CALCULATION

- Based on SCA Specifications 14,000 C.F.M. Flush out required per square foot.
- This is a calculation for the flush-out at PS-49Q
- Total area of new building is approx. 25,885 Sq. Ft.
- The total flush-out requirement for the building is 14,000 cu. ft. of outdoor air x sq. ft.
- The total capacity of all rooftop units exhaust fans is 12,000 C.F.M. at 100% outside air intake

See below for Flush-Out Calculation

Total Building Sq. Ft.	SCA Required Cu Ft x Sq Ft	Total Cu Ft To be Purged	(1) RTU Employed to Exhaust	(Min x Hrs) 60 x 24	Total Cu Ft Exhausted Per Day
25,885	X 14,000	= 362,390,000	CFM 12,000	X 1,440 minutes	17,280,000

Total Cu. Ft. Flushout Required		Flushout X Day		Required Flushout Days
362,390,000	:	17,280,000	=	21 Days

SPEC. SECTION S01550

1. Prior to Occupancy: Flush-out after construction ends with all interior finishes installed. Perform building flush-out by supplying a total air volume of 14,000 cu. Ft. outdoor air per square foot or floor area while maintaining an internal temperature of at least 60/75 degrees F. and RH no higher than 60%.
2. Before Occupancy install Merv 13 filters at each return air grill, replace as necessary, temporarily "seal" building from construction emissions and contaminants, keep dust to a minimum, and clean frequently, keep area clean and dry. All volatile liquids should be kept out of the building. Perform before occupancy flush-out by supplying a total of 14,000 cu. Ft. of outdoor air (100% fresh air) per square foot while maintaining an internal temperature of at least 60/75 degrees F. and RH no higher than 60%.

Anthony Martinelli
President

04/17/17
Date

TOMCO
MECHANICAL CORPORATION
COMMERCIAL-INDUSTRIAL-REFRIGERATION-H.V.A.C.
125 STATE STREET, WESTBURY, NEW YORK 11590
TELEPHONE (516) 546-5700 FAX (516) 546-7521

June 26, 2018

This is to attest that Tomco Mechanical Corp. has completed the flush-out at P.S. 49 that started on August 1, 2017 and ran for 21 continuous days.

Anthony Martinelli –President

Date 6/26/18

APPENDIX B

Project Certification Forms

Design Team Certification Form, Construction Phase.

SCA GSG committee indicated, in 22Jun2018 meeting minutes that form is acceptable.

Design Team Certification Form
CONSTRUCTION PHASE

School Construction Authority
NYC Green Schools Rating System

Architect:	Firm Name:	Architect: John Ciardullo Associates, P.C.	Date:	5/18/2018
	Address:	575 Eighth Avenue, 20th Floor	Project Name:	P.S. 49 Queens Addition
		New York, NY 10018	Project Address:	63-60 60th St (btw Juniper Blvd S & Penelope)
	Telephone:	212-245-0010		Middle Village, NY 11379
	email:	cheaphy@ciardullo.com		
			LLW #:	089232
			Design #:	
Engineer:	Firm Name:	DVL Consulting Engineers Inc.	BCC #:	
	Address:	375 Main Street	Design Manager:	Clara Rogers
		Hackensack, NJ 07601	Const Specialist:	
	Telephone:	201-678-2224 x116	BCC Reviewer:	
	email:	akats@dvlengineers.com	Commissioning:	EME Group

Architect's Statement - Construction Phase:

As Architect of Record, I verify that the statements initialed by me on the following pages are accurate to the best of my knowledge.

Narratives for all credits have been provided and updated as necessary with the final design submission.

Calculations have been provided, according to the credit requirements, and updated as necessary with the final design submission.

John Ciardullo	President		5/21/18
Name	Title	Signature	Date

Engineer's Statement - Construction Phase:

As Engineer of Record, I verify that the statements initialed by me on the following pages are accurate to the best of my knowledge.

Narratives for all credits have been provided and updated as necessary with the final design submission.

Calculations have been provided, according to the credit requirements, and updated as necessary with the final design submission.

Arkady Kats	Vice President		5/18/18
Name	Title	Signature	Date

Architects Initials	Engineers Initials	
	AR	**Site**
		S1.6R - Environmental Site Assessment
		A Phase I Environmental Site Assessment as described in ASTM E1527-05 was conducted. If the Phase I indicated contamination, then a Phase II ESA was conducted and the site was remediated as required.
Not Feasible	Not Feasible	**S1.7 - Brownfield Redevelopment**
		This project site was determined to be contaminated by the method indicated below. A narrative summary of the site
		☐ ASTM E 1903-97 Phase II Environmental Site Assessment.
		OR
		☐ Defined as a Brownfield by a New York City, New York State, or federal government agency.
		OR
		☐ Reg. 40CFR Part 763
		OR
		☐ Local Voluntary Cleanup Program (Such as with NYC DEC).
Not Feasible	Not Feasible	**S3.1 - Site Development, Protect or Restore Habitat**
		The project site was previously developed or graded and 50% of the site area was restored using native and/or adaptive plantings.
		The total site area excluding the building footprint is: _____
		The total site area that has been restored using native and/or adaptive plantings is: _____
		The percentage of site that has been restored using native and/or adaptive plantings is: _____
		Water
		There are no construction Phase Water Section credits.
	AR	**Energy**
		E3.1R - Measurement & Verification
		This project implements a Measurement & Verification (M&V) Plan consistent with IPMVP Option C - Whole Building Comparison.
	AR	**E5.1 - Green Power**
		The SCA has provided documentation to the Design Team that they have applied for and have received approval for obtaining the required 35% building electrical consumption through Green Power credits.

Materials

Not Feasible | Not Feasible

M1.2 & M1.3- Building Reuse, Maintain Existing Walls, Floor & Roof

On this project, the following percentage of the existing floor, wall and roof structure of the existing building were reused. I have provided a completed copy of the Building Reuse Form.

☐ 75%

☐ 95%

Not Feasible | Not Feasible

M1.4 - Building Reuse, Maintain Interior Non-Structural Elements

On this project, 50% of the existing interior non-structural elements from the existing building were reused. I have provided a completed copy of the Building Reuse Form.

M2.1R - Recycled Content

The materials for this project include 10% or more recycled content. A Recycled Content Summary Form has been submitted as documentation.

☐ 20%

M2.3 - Regional Materials

The materials for this project include 10% or more regional materials (extracted, processed and manufactured). A Regional Materials Summary Form has been submitted as documentation.

☐ 20%

Indoor Environmental Quality

Q3.1R - Low Emitting Materials, Adhesives and Sealants

All adhesives and sealants used on the interior of the building comply with the VOC limits and requirements. A Low Emitting Materials - Summary Form has been submitted as documentation.

Q3.2R - Low Emitting Materials, Paints and Coatings

All paints and coatings used on the interior of the building comply with the VOC limits and requirements as established by Green Seal Standard GS-11 Paints, and Green Seal Standard GC-03, Anti-Corrosive Paints, and South Coast Air Quality Management District. A Low Emitting Materials - Summary Form has been submitted as documentation.

Q3.3R - Low Emitting Materials, Flooring Systems

All carpet and carpet cushions for the project meet the testing and product requirements of the Carpet and Rug Institute's Green Label Plus program. A Low Emitting Materials - Summary Form has been submitted as documentation.

Q3.4R - Low-Emitting Materials, Composite Wood & Agrifiber Products

All composite wood and agrifiber products used on the interior of the building (defined as inside the weatherproofing system) contain no added urea-formaldehyde resins. Laminating adhesives used to fabricate on-site and shop-applied composite wood and agrifiber assemblies contain no added urea-formaldehyde resins.

Additional Credits

Not Authorized	Not Authorized	**A4.1 - Low Emitting Materials, Furniture and Furnishings** The SCA/FFE group has provided written documentation to the design team indicating that each furniture system (work station) and seating product item is Greenguard certified or registered or that its emissions meet or exceed the best practice air emissions standards as established by the US EPA's Environmental Technology Verification (ETV).
Not Authorized	Not Authorized	**A4.2 - Low Emitting Materials, Ceiling and Wall Systems** All ceiling and wall systems meet the requirements. A Low Emitting Materials-Summary Form has been submitted as documentation.
Not Authorized	Not Authorized	**A5.1 - The School Building as a Teaching Tool** Built-in architectural features or signage have been developed to communicate the sustainable features of this project. These are supported by educational program, literature or curriculum related to the sustainable features of this project. A descriptive narrative has been submitted as documentation.

Contractor's Certification Form, Construction Phase.

SCA GSG committee indicated, in 22Jun2018 meeting minutes that Form is acceptable. However, Contractor should select only 1 option. The option for interior only project should not be checked off.

Contractor's Certification Form
CONSTRUCTION PHASE

School Construction Authority
NYC Green Schools Rating System

Contractor:	Firm Name:	EW Howell	Date:	5/18/2018, Revised 6/28/2018
	Address:	245 Newtown Road – Suite 600	Project Name:	P.S. 49 Queens Addition
		Plainview, NY 11803	Project Address:	63-60 80th St (btw Juniper Blvd S & Penelope)
	Telephone:	(516) 921-7100		Middle Village, NY 11379
	email:	mrooney@ewhowell.com		

Contractor's Statement

I verify that the sustainable requirements summarized below have been achieved.

Molly Rooney	Assistant Project Manager	Molly Rooney	6/29/18
Name	Title	Signature	Date

Contractor's Initials

Site

MR

S 1.1R - Construction Activity Pollution Prevention

√ An erosion and sedimentation control plan complying with NYS DEC SPDES General Permit for Construction Activity, including measures from NYS DEC Standards and Specifications for Erosion and Sediment Control in accordance with the specification Section 02200, was implemented. (Although not required by NYS DEC SPDES, a Best Management Practice (BMP), a Soil Erosion and Sediment Control Plan was implemented.)

OR

☐ Project is completely interior and a dust control plan has been submitted in accordance with specification Section S01900 and such plan was implemented. (Darcon Construction Inc provided a dust control plan that covers the exterior environment of the building; an additional dust control plan was provided by the construction contractor, EW Howell, for the interior of the building.)

Materials

MR

M 1.5R - Construction Waste Management 50%

The project implements a waste management plan that diverts 50% of the construction waste away from landfills and incinerators. A Construction Waste Management Plan and calculation tables have been submitted as documentation in accordance with Specification Section S01524.

MR

M 1.6 - Construction Waste Management 75%

The project implements a waste management plan that diverts 75% of the construction waste away from landfills and incinerators. A Construction Waste Management Plan and calculation tables have been submitted as documentation in accordance with Specification Section S01524.

Not reached

M 1.7 - Construction Waste Management 95%

The project implements a waste management plan that diverts 95% of the construction waste away from landfills and incinerators. A Construction Waste Management Plan and calculation tables have been submitted as documentation in accordance with Specification Section S01524.

Indoor Environmental Quality

MR

Q2.1R - Construction IAQ Management Plan, During Construction

√ A copy of the Indoor Air Quality (IAQ) Management Plan for construction developed and implemented for this project has been submitted as documentation in accordance with Specification Section 01550.

☐ Permantently installed air handling equipment **was not** used during construction.

√ Permantently installed air handling equipment **was** used during construction. The chart below has been completed for filtration media used during construction.

Merv Rating	Filter Manufacturer	Filter Model #	Location of Installed Filter	Filter Replaced immediately prior to Occupancy (YES or NO)	
13	Purolater, PuroGreen	PR13-STD2 24x24x2	RTU-1 (Final Filter)	Yes	Before Flush-out
13	AAF International	Varicell Type SH, DH, XL	RTU-1 (Final Filter)	Yes	After Flush-out
7	AAF International	Perfect Pleat HC 2"	RTU-1 (Pre-filter)	Yes	After Flush-out

√ I have provided six photos showing IAQ practices which were used during the building construction from SMACNA IAQ Guideline for Occupied Buildings under Construction, 1995, Chapter 3. Each photo is labelled indicating which SMACNA IAQ practice is shown.

☐ For Phased Occupancy or Modernization Projects, a letter has been submitted stating that carpeting in occupied areas was HEPA vacuumed daily.

MR

Q2.2R - Construction IAQ, Management Plan, Before Occupancy

A building flush-out was carried out per the specification requirements in Specification Section 01550.

√ I have provided a narrative describing the project's specific flush-out procedures including data regarding temperature, airflow, filters used during flush-out and duration of the flush out.

AND

√ I have provided a construction schedule showing building flush-out as documentation.