

Construction Green Report

The New York City School Construction Authority LLW #053004

New School PS 335Q 150-15 Raleigh Street Queens, N.Y. 11417



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CONSTRUCTION PHASE GREEN REPORT NEW SCHOOL PS 335 QUEENS

Prepared by SCA - In - House Design Studio

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TABLE OF CONTENTS

Checklist	page 1
Design Team Certification Form, Construction Phase	page 3
Contractor's Certification Form, Construction Phase	page 7
Narratives and Supporting Documentation	page 9
Contractor's Sustainable Materials Forms & Supporting Documentation	page 138



Project Checklist - page 1 of 2

NYC Green Schools Rating System 2009

Project:	PS 335Q		Submission (Check of	one):	SD	DD	60%	100%	Const	1
Address Zip Code:	9840 Albe	rt Road, Qu			F	ebrua	v 16.	2018		•
LLW #:	65523								•	
Design #:			Reviewer ;	10						to
Architect:	SCA In-ho	use	Reviewer Sign Off:	(SSG)				If Anticipa		or if Not
				9				if Docume		Auto Filled: Blank if Pursued, No. of Points if Not Pursued or if No Feasible or Additional Credit Not Pursued
	1 1	1		de	40			or leave b		Sue
	Reference r Schools 2009		_ 5 _	RPC (check project zipcode in	Required For all Projects	2		If Not Fea		Pur S
8	s 20	2009	Credit Description and Relevant Information and Drop-Down Menus	t z	Pro	Required if Feasible	N	Not Pursu	ied	Fi of Fi
E S	loo l	CHPS Reference	d E C E	oro	=	eas	Optional Credits ²			ë ∓ ë
Credit Names	Sch Se	CHPS Refe	and thrown	8	Ē	Ë	S S	Design Phase	Construction Phase	arts or A
ž.	BD&C	S S	P. P. O. P. D.	gie	Pe d	- E	Ē	-	E E	Po e o
	BD&C	2 ×	C C G	U	Ē	Ē	i i	sigi	nst	asit of
	5		α -	쮼	8	8	ŏ	2	ರೆ ₹	₹ 555
Site		330	6 of Total Points			Po	ints:	15	out of	
JILE:	SS Pr 1	S 1.1R	Construction Activity Pollution Prevention		NP	V.				irm Pursuit
	SS 1	S 1.2R	Site Selection		1			1		
	1,1		Sustainable Site & Building Layout		NP	V	ES	Indicate P	ursuit	□NO
Site Selection	SS 2	S 1.4	Development Density & Community Connectivity	NPC		4		4		
	SS 10 1.1		Joint Use of Facilities, Community Access		1	100		1	12-14	
	SS Pr 2	S 1,6R	Environmental Site Assessment		NP	L)	ES	Credit R	teg'd - Conf	Irm Pursuit
	SS 3	S 1.7	Brownfield Redevelopment		FIR	1	100		NF	1
	SS 4.1	\$21	Alternative Transportation, Public Transportation Access	HFC.		4		4		
Fransportation	SS 4.2	S 2.2	Alternative Transportation, Bicycle Storage & Changing Rooms		1	1	100	1	18 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	RAC		1			NF	1
William Ze impact on Site	SS 5.2	S 3.2	Site Development, Maximize Open Space			1		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		1
Outdoor Lighting	SS 8	S 6.1R	Light Pollution Reduction							1
Marie e			Site Category Sub-T	otal:	4	14	-	15	- 0	4
Water			6 of Total Points			_	ints.	6	out of	8
Outdoor Systems	WE 1.1	W 1_1	Water Efficient Landscaping, Reduce by 50%			2		2		
Marian School	WE 1.1	W12	Water Efficient Landscaping, No Potable Water Use or Irrigation	-		2		2		
	WE Pr 1	W 2,1R	Minimum Water Use Reduction, 20% Reduction		NP	1/Y	ES		eq'd - Conf	irm Pursuit
ndoor Systems	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			Arte		1
	WE 3	W 2.4	Enhanced Water Use Reduction, 40% Reduction	otali		5		NF		1
Energy		70	Water Category Sub-T	otal;	3		ints:		out of	2
Energy	EA Pr 1		of Total Points		0.000	ZY.			out of	irm Pursuit
Commissioning	EA 3	E 1.1R	Fundamental Commissioning Enhanced Commissioning	-	NP 2	12,7	25	Credit R	ed a - cou	
	EA Pr 3	E 1.2R E 2.1R	Fundamental Refrigerant Management	+	NP	Z/	ES	Credit D	eo'd - Conf	2 Irm Purautt
Refrigerant Management	EA 4	E 2.1R	Enhanced Refrigerant Management	-	Mis	2		NF	OUNI	2
	EA 5	E 3.1R	Measurement & Verification		1			111		
/erification	3.3		Energy Management System Controls, HVAC & H. W. Systems		NP	J.Y	ES	Indicate P	ursult	□NO.
	EA Pr 2	E 4.1R	Minimum Energy Performance		NP	17V		The state of the last	eq'd - Conf	
Energy Efficiency	3,1		HVAC System Sizing, Avoid Oversizing		NP	7	_	Indicate P	BOAR CHARLES	□NO
Power	EA 6	E 5.1R	Green Power		2				2	
11121111111			Energy Category Sub-T	otal:	5	2		- 0		4
Materials		9%	6 of Total Points				ints:	4	out of	-
	MR Pr 1	M 1.1R	Storage & Collection of Recyclables		NP	1V	ES		d-Confirm	
	MR 1.1	M 1.2	Building Reuse, Maintain 75% of Existing Walls, Floors & Roof	APC	-	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		The same	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	STEUL
	MR 4	M 2.2	Recycled Content, 20% (post-consumer + ½ pre-consumer)			1			NF	1
	MR 5	M 2.3	Regional Materials, 10% Extracted, Processed & Manufactured			1			1	
iustainable Materials	NAD E	M 2.4	Regional Materials, 20% Extracted, Processed & Manufactured			1			NF	1
Sustainable Materials	MR 5				Charles and the last of the la		and .	2 40	A	
G <mark>ustainable Materials</mark>	4.1	.1 M 2.5R	Wallboard & Roof Deck Products, Mold Resistance Low-Mercury Lighting, Reduce Mercury Waste		NP NP	14C		Indicate P		□ NO

Project Checklist - page 2 of 2

Project: PS 335Q Submission (Check one): 9840 Albert Road, Queens NY 11417 Address | Zip Code: Submission Date: Revised 7/15/15 65523 LLW# Design #: Reviewer If Anticipated, or GSG) SCA In-house Architect: Reviewer Sign Off: Points if Not Pursued or if le or Additional Credit Not If Documented: 3 Enter point value, RPC (check project zipcode in or leave blank Required For all Projects if Not Feasible or If and Relevant Information and Drop-Down Menus BD&C Reference LEED for Schools 2009 Not Pursued Credit Description Required if Feasible CHPS Reference **VYC GSG 2009** Optional Credits 2 Indoor Environmental Quality 36% of Total Points 16 out of 17 VES Credit Req'd - Confirm Pursuit Minimum IAQ Performance NP IAQ Post-occupancy Increased Ventilation (included in Q 1.1R credit language) IEQ 2 1 Air Flow Stations, Outside Air Intakes IEQ 1 Q 1.2R 1 IEQ 3.1 Construction IAQ Management Plan, During Construction 1 IAQ Pre-occupancy IEQ 3.2 Q 2.2R Construction IAQ Management Plan, Before Occupancy 1 1 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 1 1 Low-Emitting Materials Low-Emitting Materials, Flooring Systems ⁴
Low-Emitting Materials, Comp Wood & Agrifiber Products ⁴ IEQ 4.3 Q 3.3R **IEQ 4.4** Q 3.4R 1 1 IFQ 5 Q 4_1R Indoor Chemical & Pollutant Source Control 1 **Pollution Source Control** Q 4 2R **Electric Ignition Stoves** NO 535 NP VYES Indicate Pursuit **Provide HEPA Vacuums** NO Q 4.3R NP YES Indicate Pursuit IEQ 6.1 Q 5 1R Controllability of Systems, Lighting 1 Controllability of Systems IEQ 6.2 Q 5 2R Controllability of Systems, Thermal Comfort 1 1 **Thermal Comfort** Thermal Comfort, Comply with ASHRAE 55-2004 **IEQ 7.1** Q 6.1R 1 1 Daylight & Views, Daylight 75% of Classrooms IFQ 8.1 Q 7.1 1 Daylight & Views, Daylight for 90% of Classrooms **IEQ 8.1** Q72 1 1 Lighting and Views IEQ 8.1 Daylight & Views, Daylight for 75% of Other Spaces Q 7.3 1 NF IEQ 8,2 Q 7,4 Daylight & Views, Views Visual Performance, Artificial Direct-Indirect Lighting VYES 5.2.1 Q 7.5 Indicate Pursuit NO NP Minimum Acoustical Performance VYES Credit Req'd - Confirm Pursuit IEQ Pr 3 5.5.1 Q 8.1R NP Acoustics IEQ 9 Enhanced Acoustical Performance & Sound for Special Spaces Q 8.2 1 **Acoustic Windows** √ NO Q8,3 NP YES Indicate Pursuit IEQ Category Sub-Total: 13 4 Regional **RPC Claimed Points** 0% of Total Points out of RP 1.1 R 1.1 Regionally Defined Credit Achieved Blank 1 Regionally Defined Credit Achieved RP 1.2 R12 Blank 1 Regionally Appropriate 5 Regionally Defined Credit Achieved RP 13 R 1.3 Blank 1 Regionally Defined Credit Achieved RP 1.4 R 1.4 Blank 1 Regional Category Sub-Total: 0 4 0 **Additional Credits** 2% of Total Points Points: For A 3.1 Use pull-down menu 1 out of 30 ID 2 LEED® Accredited Professional Innovation in Design Innovation or Exemplory Performance ID 1 A 1.2 ID₁ A 1_3 Innovation or Exemplory Performance SS 7.1 A 2.1 Heat Island Effect, Non-Roof 1 Optional - Site Impact SS 6.1 A 2.2 Stormwater Design, Quantity Control 1 EA1 A 3.1 If NOT Approved, 0 pts 15 Optimize Energy Performance 15 Optional - Energy On-Site Renewable Energy If NOT Approved, 0 pts FA2 A 3.2 7 IEQ 4.5 A 4.1 Low-Emitting Materials, Furniture and Furnishings 1 Optional - IEQ IEQ 4.6 A 4.2 Low-Emitting Materials, Ceiling and Wall Systems 1 Optional - Education The School Building as a Teaching Tool 1 Additional Credit Category Sub-Total: 29 29 Letter prefix indicates credit section (S, W, E, M, Q, R, A) 50 Column Totals: 28 37 29 First number indicates the category within the section LEED® Equivalent Point Total': SCA Credit Name 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)

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.

5 RPC incentive regional credits as indicated. If the referenced credit is achieved, then the associated RPC can be claimed.

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.

Design Team Certification Form CONSTRUCTION PHASE



Architect:	Firm Name:	Jose J. Ricardo SCA A&E	Date:	2/16/2018
	Address:	30-30 Thompson Ave	Project Name:	PS 335Q
		LIC, NY 11101	Project Address:	150-15 raleigh St
	Telephone:			Queens, NY
	email:	<u>Jricardo@nycsca.org</u>		
			LLW #:	53004
			Design #:	
Engineer:	Firm Name:	Richard Xiao, SCA A&E	BCC #:	
	Address:	30-30 Thompson Ave	Design Manager:	J. Dias
			Constr Specialist:	G. Caeser
	Telephone:		BCC Reviewer:	Various
	email:	Rxiao@nycsca.org	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.

. RICARDO ARMITECT C

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

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.

ENGINEER

Design Team Certification Form CONSTRUCTION PHASE



Architects Initials	Engineers Initials	
25, 11.00	- 1 TO THE	Site
JR.		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.
): : 	S1.7 - Brownfield Redevelopment
		This project site was determined to be contaminated by the method indicated below. A narrative summary of the 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).
	5	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 platings.
		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.
. Dyler işi		Energy
1-exp		E3.1R - Measurement & Verification
		This project implements a Measurement & Verification (M&V) Plan consistent with IPMVP Option C - Whole Building Comparison.
Hex		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.

Design Team Certification Form CONSTRUCTION PHASE



	Materials
	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%
	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.
JR	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%
JR	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
W	O2 4D. Low Emitting Metarials, Adhenives and Sectants
- 0 K	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.
Le	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.
JR	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,
JR	Q3.4R - Low-Emitting Materials, Composite Wood & Agrifiber Products All composite wood and agrifiber products used on the interior of the bulding (defined as inside the weatherproofing system) contain no added urea-formaldehyde resins. Laminating adhesives used to fabricate on-site and shop-appled composite wood and agrifiber assemblies contain no added urea-formaldehyde resins.

Design Team Certification Form CONSTRUCTION PHASE



Additional Credits	
	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).
en e	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.
	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



Contractor:	Firm Name: Address: Telephone: email:	Petracca & Sons, Inc. 18-02 Petracca Place Whitestone, NY 11357 718-746-8000	Date: Project Name: Project Address:	14-Dec-17 PS 335Q	
Contractor's 8	Statement .				
Frank Name	Gaudio	I verify that the sustainable requirements summa Project Engineer Title	rized below have bee	n achieved.	12/14/17 Date
Contractor's Initials					
		Site			
FG F6		X An erosion and sedimentation control plan of Construction Activity, including measures for Sediment Control in accordance with the sport of Construction Activity, including measures for Sediment Control in accordance with the sport of Construction Section	complying with NYS D om NYS DEC Standar ecification Section 02: atrol plan has been sul	ds and Specifications for Erosion and 200, was implemented.	
		Materials			
FG F6	:	M 1.5R - Construction Waste Management 50 The project implements a waste management pl landfills and incinerators. A Construction Waste submitted as documentation in accordance with	an that diverts 50% of Management Plan an	d calculation tables have been	
FG FG	-	M 1.8 - Construction Waste Management 75% The project implements a waste management pl landfills and incinerators. A Construction Waste submitted as documentation in accordance with	an that diverts 75% of Management Pien an	d calculation tables have been	
35		M 1.7 - Construction Waste Management 95% The project implements a waste management plandfills and incinerators. A Construction Waste submitted as documentation in accordance with	en that diverts 95% of Management Plan an	d calculation tables have been	

Page 1 of 2

Indoor	Fovironm	antal	Oug	He

FGF6

Q2.1R - Construction IAQ Management Plan, During Construction

- X 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.
 - X Permantently installed air handling equipment was not used during construction
- Permantently Installed air handling equipment <u>was</u> used during construction. The chart below has been completed for filtration media used during construction.

mmediately icy (YES or	Filter Replaced I prior to Occupar NO)	Location of installed Filter	Filter Model #	Fliter Manufacturer	Merv Rating

- X 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.

FG FG

Q2.2R - Construction IAQ, Management Plan, Before Occupancy

A building flush-out was carried out per the specification requirements in Specification Section 01550.

X 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.

Credit Compliance Narratives

Project:	PS 335 Q	Date <u>: 2/16/18</u>
Address:	9840 Albert Road, Queens, NY	_Architect: <u>SCA_In-house</u>
LLW #:	53004	Submission: Design Development
Design #:		Reviewer:
		Reviewer Sign Off:

Site Credits

Site Selection

S 1.1R Construction Activity Pollution Prevention

The area of the Site is approximately 70,000 sf in area and storm water will discharge into a combined sewer. The Erosion and Sedimentation Control Plan will be schematically shown on the contract documents and implemented and completed by the contractor per the project specification section 02200. There are two single and separate lots associated with this project. The combined area is over one (1) acre. Therefore, a New York State Discharge Pollution Elimination System (NY-SPDES) permit is required. Drawing T-003 calls for the contractor to obtain a NY-SPEDS permit for this project. Contract Drawing A-030 shows the information required for the erosion control.

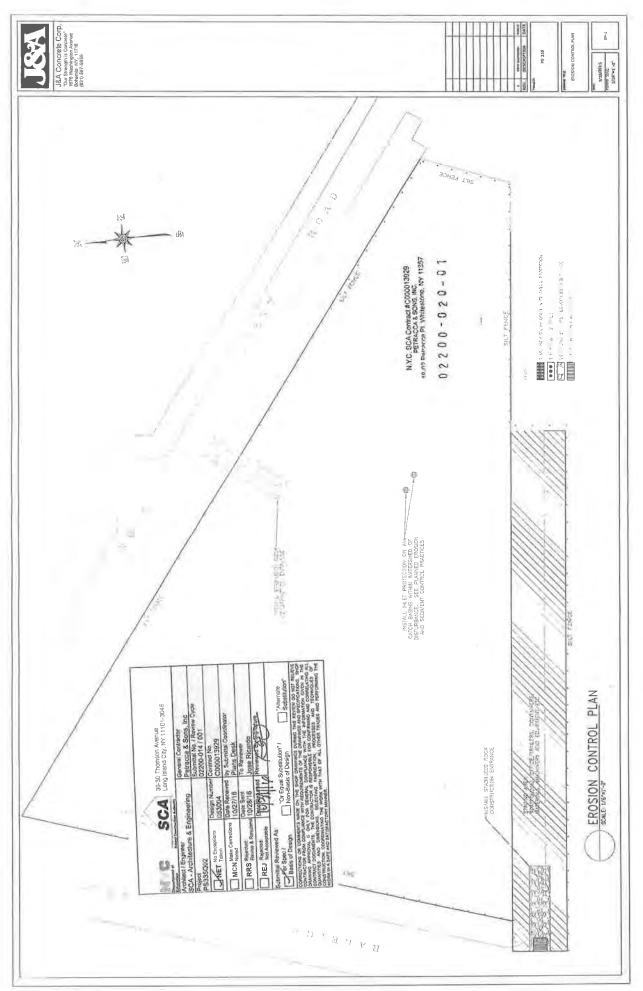
SCA Standard Specification:

02200 - Earthwork

The Construction Activity Pollution Prevention Plan was submitted, approved and implemented by the contractor during construction. See attached plan and photographs.

Credit was achieved.

Project meets the requirements for this credit





1676 Washington Avenue Bohemia, New York 11716 T 631.567.5959 F 631.567.2326 www.jandaconcrete.com

James Delaney Petracca & Sons, Inc. 18-02 Petracca Place Whitestone, NY 11357 (718)746-8000

October 25, 2016

Re: PS-335 Erosion Control Narrative

The New York City school construction authority project, PS3 35 is located at address. The construction site is an empty lot bound by Albert Rd., Raleigh Street, and N. Conduit Ave.

During the excavation and foundation portion of the project there Will be two vehicular entrances available at the project; one along Albert Road and the other on Raleigh Street. Both entrances will have a "rip rap" stone stabilized track out pad installed. In addition to the Stone at the Raleigh Street entrance, a timber rumble strip will be constructed to assist in removing sediment from truck tires as a vehicle exits the site.

Silt fence will be installed along the perimeter of the site where plywood construction fence is not present. All drain inlets at the site will be protected using filter fabric to prevent sediment from entering the system.

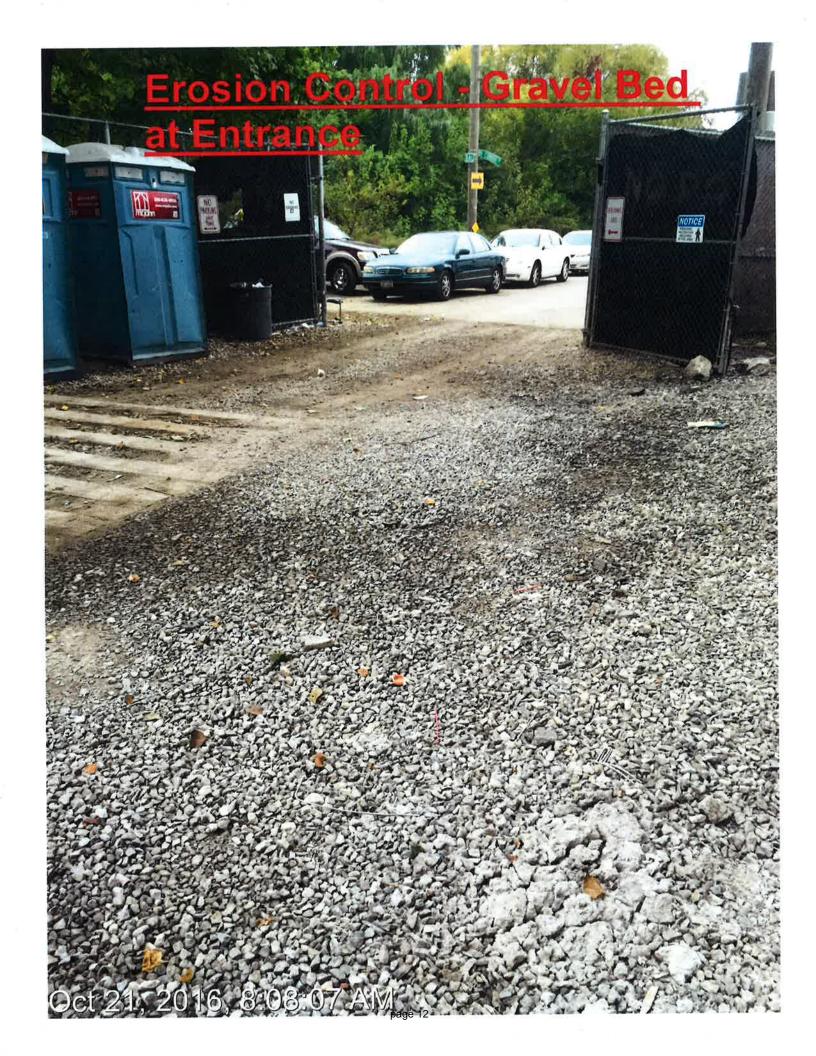
The existing stone road along the south side of the site will be used as a staging area for trucks, equipment and materials.

Further information regarding the erosion control plan for this project can be found on drawing EP-01 dated 9/28/15.

N.Y.C. SCA Contract #C000013929 PETRACCA & SONS, INC. 18 02 Potracca PI, Whitestone, NY 11357

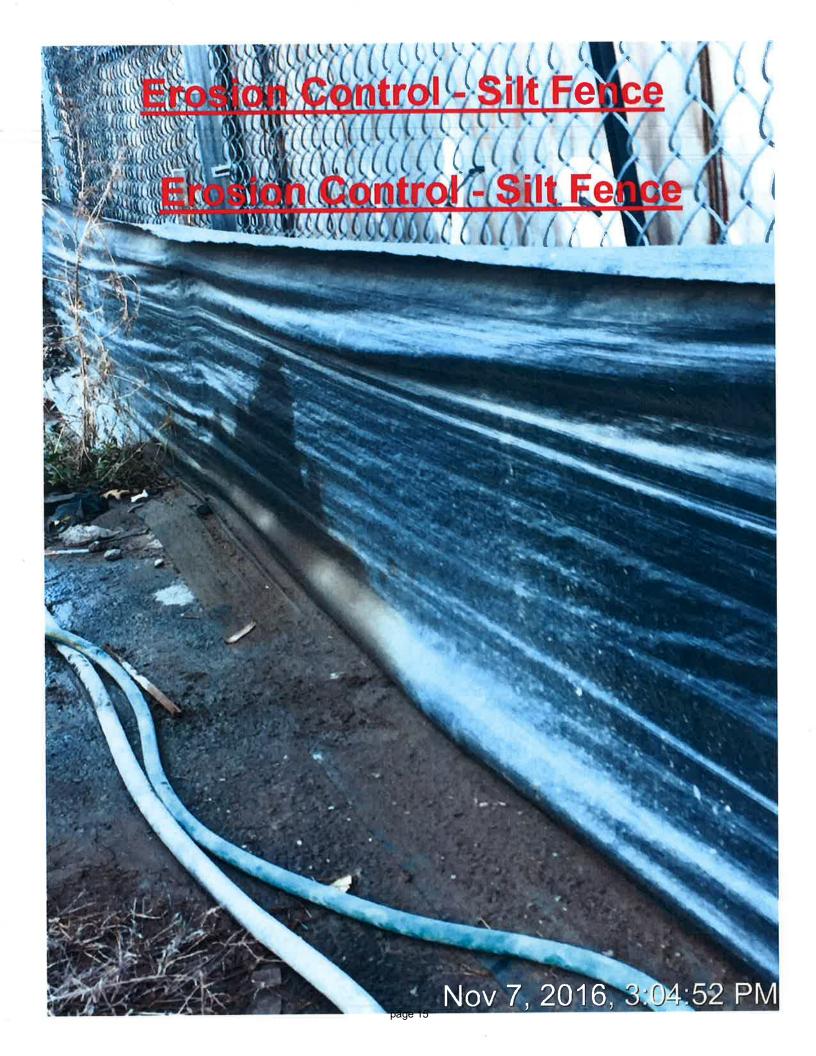
02200-020-01

and the committee of th











- 1. The project site is not on 'previously undeveloped land'. The site is vacant land and was previously a parking lot. See attached copy of Aerial photograph Appendix S1.2A and excerpt from the Phase I Report-Appendix S1.2B.
- 2. The is not within a 100-year flood plane as defined by the Federal Emergency Management Based on the 2007 FEM FIRM Map, the Site is located in Zone "X", an area determined to be outside the 0.2% annual chance floodplain Appendix S1.2B1. T Additionally, the site is also outside the flood zone for the proposed FEMA maps- See appendix S1.2B2.
- 3. This entire site has been developed and the location is not within 100 feet of bodies of water, it is unlikely that there are any rare or state listed species on site. The NY State DEC Environmental Resource Mapper does not identify any rare plants or animals. This was confirmed by the New York State Department of Environmental Conservation Division of Fish, Wildlife & marine Resources, New York Natural Heritage Program. See Appendix S1.2 C and Appendix S1.2D.
- 4. The site is not within 100 feet of any wetlands as defined by 40 CFR, Parts 2130-233 and Part 22, isolated wetlands or areas of special concern identified by state or local rule or within setback distances from wetlands prescribed in state or local regulations, as defined by state or local rule or law. Appendix S1.2D.
- 5. The project site is not on any previously undeveloped land and is not within 50 feet of a body of water that supports or could support fish, recreation or industrial use as defined by the clean water act. See attached Appendix S1.2D.
- 6. The project site, prior to acquisition, was not public parkland. The site is currently vacant and was previously used as a parking lot. See attached copy of aerial photograph Appendix S1.2A.

Project meets the requirements for this credit

The project will meet the requirements of this credit by following the three sustainable site analyses:

- 1. Orient and align the building axis to take advantage of natural day lighting. This is achieved by:
 - The new two/four story classroom building is oriented mainly along an east-west axis to receive morning and afternoon sun.
 - Per SCA Standard (A4.3.1 -Window types-large windows) the classrooms will have wall to wall
 windows, maximizing access to natural daylight. Glare is controlled by manually operated
 shades. The selected visible transmittance of the glazing, per SCA standard specifications also
 contributes to glare control.
 - The Early Childhood and main play yards are located on the east side of the site which provides
 access to natural daylight for these outdoor spaces.
 - See Appendix S1.3A
- 2. Plot Shadow pattern from surrounding buildings onto project site to optimize daylight:
 - The proposed building is two/four stories and slightly higher than the adjacent buildings. The placement minimizes the casting of shadows on and from shadows from the existing buildings. See shadow plots Appendix S1.3B
- 3. Plot shadow patterns from proposed building on adjacent properties and buildings and consider design options to address impact as necessary.
 - The proposed building will not cast a shadow on the existing adjacent properties.
 - See shadow plots Appendix S1.3B

Project meets the requirements for this credit

S 1.4 Development Density & Community Connectivity

The project site complies with option 1 of this credit by:

- The project is on a previously developed site that is within half a mile of a residential zone neighborhood with an average density of 10 dwelling units per acre and within half a mile radius of at least 10 basic services and with pedestrian access between the building and the services.
- 2. The existing property is situated within a **R4-1** Residential District (detached and semi-detached residential area). See attached Appendix S1.4A.
- 3. The ten basic services within the areas are shown on attached Appendixes S1.4B and S1.4C "Community and Connectivity Form"

Project meets the requirements for this credit

S 1.5R Joint Use of Facilities, Community Access

The project design complies with the requirements of this credit through compliance with SCA Design Requirement 1.3.1.1 – Building Location and Orientation, 1.3.1.2 Building Organization and Space Relationship, 1.3.5.1 Cafeteria and 1.3.5.2 Gymatorium PK-8. The Gymatorium on this project will serve as a Gymnasium/Multi-Purpose Room.

- Common spaces likely to be used by the community will be located on the First Floor accessible directly from the Lobby. These spaces include the Cafeteria and Gymatorium on the first floor.
- Toilets and Drinking Fountains will be accessible from main corridor.
- Segregation of these spaces is not being provided. The layout does not lend itself to that without creating
 a conflict with egress requirements. To maintain direct sight lines along corridors and main lobby, the
 spaces will satisfy school's functional and security concerns and comply with egress requirements.

Project meets the requirements for this credit

S 1.6R Environmental Site Assessment

The SCA/IEH has completed Phase I Environmental Assessment of the Site. The issues that will be reviewed and recommended are:

- Suspect 55-gallon drum on the northwest side of the site.
- Suspect historical placement of dirt, construction and demolition debris of unknown origin.

The Phase I Executive summary is attached – see appendix S1.6R A.

Also, a Phase II Report has been completed.

Project meets the requirements for this credit

S 1.7 Brownfield Redevelopment

The site remediation will be conducted under a separate "Site Clearing" bid package.

Credit is not feasible

The project site is in compliance with the requirements of this credit.

- The site is less than half a mile away from N.Y.C. Transit "A" Line Aqueduct North Conduit station (800 feet from proposed entrance).
- Bus line (Q11) with a stop within 250 ft. from proposed entrance.

See attached map indicating paths of travel and distances. Appendix S2.1A

Project meets the requirements for this credit

S 2.2 Alternative Transportation, Bicycle Storage & Changing Rooms NARRATIVE AT SCHEMATIC SUB.

This credit will be achieved for this project site by providing secure bicycle storage within 200 feet of the main entrance. Interior space to accommodate 9 bicycles (1 per 10,000 sq. feet as per NYC Zoning) and 11 bicycles on the exterior (total = .05 x 399 FTE total occupants = 20) will be provided (20 total (interior and exterior) provided). One (.005 X 96 FTE staff = .48 shower/changing room will be provided adjacent to the Custodian's Work Room located on the first level. All will be in compliance with DR 1.3.1.12 (storage) and DR 2.3.3 (racks) and Specification Sections 02870 and 05700.

Occupancy Calculation:

No. of typical classrooms (4 to 5th grade): 4, occupants = 150

No. of SE classrooms (grade 4 to 5): 2, occupants = 65

Art: 1 total, occupants = 28 Music: 1 total, occupants = 28 Science: 1 total, occupants = 28

Total	299
FT Staff (1 per 35 classrooms) 5 Adults for Lobby 1 Adult for every 100sf (office) Aids Kitchen Staff PT Staff Visitors	37 5 25 19 7 5 2
Total FTE =	399

Project meets the requirements for this credit

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

This credit will be achieved for this project site. No new on-site parking will be provided. Students attending the school live near by and will walk or take public transportation to the school.

Project meets the requirements for this credit

This credit is not feasible for this project. The primary school will have exterior paved areas for exercise and recreation. The landscaped area is approximately 12% of a 72,487 sq. ft site (8,941sq ft. total). See Appendix 3.1A

Credit is not feasible and will not be pursued

The vegetated space requirement for schools in urban areas with no open space zoning requirement is 20% of the total site area less the building footprint. The site area is 72,487 the building footprint is 30,517 square feet. 72,487 sq. ft. -30,517 = 41,970 sq. ft. x .20 =8,394. The design is for 8,941 sq. ft. of vegetated area.

Credit is feasible and will be pursued

This credit is not feasible since we are connecting to a combined sewer and there are no requirements for filtration of storm water.

Credit is not feasible and will not be pursued

This Credit will be complied with by the use of white pre-cast concrete roofing pavers. The roofing pavers shall have a Solar Reflectance Index (SRI) of 78 minimum when tested in accordance with ASTM E1980 and as per SCA DR 4.4.1.1 and Standard Specification Section 07560. As per the attached roof plans, the roof pavers will cover 100% of the effective roof surface.

Credit is feasible and will be pursued

The project will minimize light trespass from the building and site and reduce the development impact on the local nocturnal environment. The project will comply with the credit requirements for interior and exterior lighting. The exterior lighting will be provided at the following locations:

- All entrances, exits and walkways including exit discharge
- Building perimeter

All non-emergency interior luminaires, with a direct line of sight to any openings in the envelope (translucent or transparent), shall have its input power reduced (by automatic device) by at least 50% after 10 p.m. or directly after closing. An after-hours override will be provided by a vacancy-sensing device with manual override provided that the override lasts no more than 30 minutes. The lighting design shall achieve this operation by using Programmable Lighting Control Panels. Non-emergency interior lighting will be automatically turned off when the school is not in operation with manual override capability for afterhours use.

The exterior lighting requirement of the credit will be met by designing building mounted fixtures that do not exceed a maximum initial luminance at the boundary as indicted above. Lighting power densities shall not exceed ASHRAE/IESNA Standard 90.1-2007 (with errata but without addenda) for the classified zone. Exterior lighting control requirements from ASHRAE/IESNA Standard 90.1-2007, Section 9, Table 9.4.5, Exterior Lighting Section, without amendments will be met.

Site is located in an LZ 2 zone (all R districts as per 1RCNY Chapter 5000 New York City Energy Conservation Code). Therefore, exterior lighting requirement for this credit will be met by selecting building mounted luminaries value no greater than 0.01 horizontal and vertical foot-candles at the site boundary and no greater than 0.01 horizontal foot-candles 10 feet beyond the site. No more than 2% of the total initial designed fixture lumens (sum total of all fixtures on site) are emitted at an angle of 90 degrees or higher from nadir (straight down).

Based on the attached calculations, the project will not meet the requirements for this credit. The Building is too close to the property line.

Water Credits

Outdoor Systems

w 1.1 Water Efficient Landscaping, Reduce by 50%

This Credit can be achieved by designing the landscaping with native or adapted plants to eliminate the need for a permanent irrigation system. Planting new trees and landscaping in accordance with NYC Parks Department standards and Design Requirement 2.5.1 Trees, Shrubs and Ground Cover will satisfy the requirements for this credit. 20% of the site less the building area will be vegetated.

The new trees and landscaping will eliminate the use of potable water for landscape irrigation. Temporary irrigation for the first year of the plantings will be provided by maintenance hose bibs located on the exterior of the building.

Trees will be non-flowering type; shrubs will be non-flowering type. Planting list will be as follows:

Common Name	Drought Tolerance	Moisture Requirements (Species factor Ks)	AREA (SF)	Density Factor (KD)
Treës				
HERITAGE RIVER BIRCH	Drought Tolerant	0	1270	1
DOWNY SHADBLOW	Drought Tolerant	0	1590	1
ARMSTRONG RED MAPLE	Drought Tolerant	0	84	1
COLUMNAR RED MAPLE	Drought Tolerant	0	1096	1
डातचळ				
WILLOW COTTON EASTER	Drought Tolerant	0	817	1
RED TWIG DOGWOOD	Drought Tolerant	0	817	1
JAPANESE HOLLY (MALE ONLY)	Drought Tolerant	0	817	1
Groundcover, Grasses, and Ferns				
LILY TURF	Drought Tolerant	0	816	1
STELLA D'ORO DAYLILY	Drought Tolerant	0	817	1
DWARF FOUNTAIN GRASS	Drought Tolerant	0	817	1
Proposed Total and/or Average		0.0	8941	1
Baseline Trees		0.5	4040	1
Baseline Mixed Planting		0.5	2451	1.1
Baseline Turf Grass		0.7	2450	1
Reference Evapotranspiration rate (ETo)	5.89	Typical for region.		
Microclimate Factor (Kmc)	1.2	Typical for this project time and region.		

11/15/14

Regional evapotre	5.89												
Landscape Type	Area (9f)	Species Factor (k,)		Density Factor (k _d)		Microclimate Factor (h _{ac.})		KL	et,	is .		CE	TWA (gal)
Trees		Avg	0.5	Ava	1.0	Ava	1.0	0.5		Sprinkler	0.625		
Shruba	4.045	Avg	0.5	Ava	1.0	Avg	1.0	0.5	2.95	Sprinkler	0.625		
Groundcovers		Avg	0,5	Avg	1.0	Avg	1.0	0.5	2.95	Sprinkler	0.825		
Mixed	2.451	Ava	0.6	Ava	1.1	Avg	1.0	0.6	3.24	Sprinkler	0.625		
Turigrass	2,450	Avg	0.7	Avg	1.0	Avg	1.0	0.7	4.12	Sprinkler	0.825	_	
Torigraph	- COPPLE	7119	1	-		_				Sprinkler	0.625		
		-	-							Sprinkler	0.625		
			+			-				Sprinkler	0.625		
Total	8,941	Subtotal TWA [gal]											
Total	0,041		_	_	_			July	Painwa	ter and Gray	water Harve	st (gal)	
				-	_			vuij	- Nami	ter arte etay	Net TPV	-	

Landscape Type	Area [sf]	Species Factor (K _a)		Density Factor (R _d)		Microclimate Factor (k _{mc})		KL	ETL	IE .		TWA [gal]
		Ava	0.5	Avg	1.0	Ava	1.0	0.5	2.96	Sprinkler	0.625	11,865.44
Shruba	4,040	Ava	0.5	Ava	1.0	Ava	1.0	0.5	2.95	Sprinkler	0,625	
Groundcovers		Ava	0.5	Ava	1.0	Ava	1.0	0.5	2.96	Sprinkler	0.825	
AND DESCRIPTION OF THE OWNER, THE	2.451	Ava	0.5	Avo	1.1	Ava	1.0	0.6	3.24	Sprinkler	0.625	7,918.42
Mixed	2,460	Ava	0.7	Ava	1.0		1.0		4.12	Sprinkler	0.625	10,073.87
Turfgress	2.400		0.7		1.0		1.0	-		Sprinkler	0.825	
		-	+			-	1			Sprinkler	0,625	
			+	-			1-			Sprinkler	0.625	
		Subtotal TWA [gal]									29,857.73	
Total	8,941 Subtotal TWA (gar)									-100.00%		

The above calculations show a 100% savings thus earning this credit.

For W1.1R, W: The SCA Design Standards are:

- DR2.5.1 Trees, Shrubs, Ground Cover and Lawns
- SS02900 Landscaping

Project meets the requirement for this credit

11/15/14

Page 17 of 51

Project meets the requirement for this credit No Credit submittal required for this Phase.

W 1.2 Water Efficient Landscaping, No Potable Water Use or Irrigation

This Credit can be achieved by designing the landscaping with native or adapted plants to eliminate the need for a permanent irrigation system. Planting new sidewalk trees and perimeter landscaping in accordance with NYC Parks Department standards and Design Requirement 2.5.1 Trees, Shrubs, Ground Cover and Lawns will satisfy the requirements for this credit.

The new sidewalk trees and perimeter landscaping will eliminate the use of potable water for landscape irrigation. Temporary irrigation for the first year of the plantings will be provided by maintenance hose bibs located on the exterior of the building.

For W1.1R, W: The SCA Design Standards are:

- DR2.5.1 Trees, Shrubs, Ground Cover and Lawns
- SS02900 Landscaping
- 1) All of the specified species were selected for there drought tolerance
- 2) All of the specified species should have a Ks=0. Based on LEED Guidance (the 2009 Reference Guide Pa
- 184) " If a species does not require irrigation once it is established, then the effective Ks=0.

All of the plant species specified are either native to the region or adapted to the climate. The landscaping to installed will not require a permanent irrigation system. Temporary irrigation will only be required for the initial period of establishment.

As clarification, the planting plan has been designed to minimize the need for irrigation and maintenance. Plant species were selected for the site conditions including the typical rainfall expected. Plants have been located throughout the site according to their need for sun/shade. All of the planting beds will be densly planted. 6 of the trees shown will be planted in 50 SF tree pits with impervious pavers. The Hophornbeam w be located in a plenting bed with mixed vegetation.

Project meets the requirement for this credit

See narrative below

W 2.2 Water Use Reduction, 30% Reduction

Compliance with this credit will be achieved by the implementation of all New York City SCA Standard Specifications and Plumbing Design Requirements for dual flushometer toilets, high water efficiency urinals, low water flow shower heads, and metered faucets. Based on the project specific calculations, the project will achieve 30% water use reduction.

For W2.1R, W2.2R and W2.3R: The SCA Design Standards are:

- DR 6.1.16 Compliance with LL86/05
- SS15440 Plumbing Fixtures

The completed Water Use Reduction Certification Form is attached.

Project meets the requirements for this credit

No Credit submittal required for this Phase.

W 2.3 Water Use Reduction, 35% Reduction

This is a PS school with only a few urinals. Therefore, this credit is not feasible.

W 2.4 Water Use Reduction, 40% Reduction

This is a PS school with only a few urinals. Therefore, this credit is not feasible.

Energy

Commissioning

E 1.1R Fundamental Commissioning

SCA Standard requires all new capacity projects to undergo whole building commissioning which exceeds LEED requirements for commissioning. The Commissioning Agent for this project will be EME Group.

For E1.1R: The SCA Design Standards are:

- SSS01650 Facility Start-up, Demonstration and Training
- SSS01660 Commissioning

Commissioning is being conducted by EME. See attached documentation.

Credit is achieved.

Project meets the requirements for this credit

E 1.2R Enhanced Commissioning

Based on current SCA directives, this credit will not be pursued.

No CFC-based refrigerants will be used in the HVAC or refrigerant systems of this project. This project design complies with the requirements of this credit. This credit will be achieved through the description below.

The central air conditioning system for the school will consist of rooftop units that utilize refrigerant R-407C or R-410A, split air cooled chiller and split heat pump units that utilize refrigerant R-410A.

For E2.1R: The SCA Design Standards are:

- SS11400 Food Service Equipment
- SS13031 Walk-in Trash Refrigerator
- SS15650 Split Air Cooled Chillers
- SS15783 Split Heat Pump System
- SS15853 Custom Packaged Rooftop Heating and Cooling Units (Variable Air Volume System)
- SS15854 Custom Packaged Rooftop Heating and Cooling Units (Constant Volume System)

Project meets the requirements for this credit

No Credit submittal required for this Phase

E 2.2 Enhanced Refrigenrant Management

Based on the SCA standard equipment specified for this project this credit is not feasible.

Verification

E 3.1R Measurement & Verification

The requirements of this credit will be achieved through compliance with SCA Design Requirement 6.2.20 Building Management Control System/Direct Digital Control BMS/DDC.

The SCA controls design will incorporate sensors, sub-meters, watt-meters and instrumentation, as well as a Building Management System that will provide the energy information. The Building Management Control System (BMS) for the new building will measure/monitor gas consumption by the hot water boilers, rooftop HVAC units, new kitchen gas consumption and individual electrical power consumption by rooftop HVAC units, split air cooled chillers and lighting panels, and other such items per standard SCA design.

The applicable SCA standards are:

Design Requirements:

- 6.2.20 Building Management Control System / Direct Digital Control BMS/DDC

Standard Specifications:

- 15416 Gas Piping Standards
- 15970 Temperature Control System (LonWorks BMS/DDC With School Operating Console)
- 15973 Facility Management Systems Integration
- 15985 Sequence of Operations
- 16420 Service Entrance Equipment

Standard Details:

15985 HVAC Standard Details

See Specification Sections 15970, 15973 and 15985.

Measurement and verification is in progress. See attached Documentation from CTI.

Project meets the requirement for this credit

E 3.2R Energy Management System Controls, HVAC and Hot Water

The requirements of this credit will be achieved through compliance with SCA Design Requirement 6.2.20 Building Management Control System/Direct Digital Control BMS/DDC.

The new building will be provided with Building Management System (BMS) that will be connected to the NYCDOE Wide Area Intranet Network (WAN). This connection allows complete monitoring and control of the school's MEP systems from both the local BMS station in the Custodian's office as well as the DOE central monitoring and control station located at 44-46 Vernon Blvd., Long Island City, NY.

The applicable Standard Specifications are:

- 15970 Temperature Control System (LonWorks BMS/DDC With School Operating Console)
- 15973 Facility Management Systems Integration
- 15985 Sequence of Operations

Standard Details:

- 15985 HVAC Standard Detail

See specification sections 15970, 5973 and 15985

Energy Systems controls are in progress. See attached Documentation from CTI.

Project meets the requirement for this credit

This project complies with this credit by complying with SCA standard design requirements and specifications and by complying with the prototypical energy model for buildings less than 150,000 square feet.

The HVAC design for the new building will utilize custom rooftop air handling units; gas fired hot water condensing boilers, hot water perimeter heating, packaged rooftop modular chillers and chilled beam units as required by the NYC Green Schools Guidelines and SCA Design Requirements.

For interior Lighting, vacancy motion sensors manual on /automatic off will be designed for control of lights in classrooms and offices. Power densities for the lighting layouts will be designed to comply with the NYCSCA Electrical Design Requirement 7.2.1 for interior and 7.2.5 for the exterior.

The prototypical energy model for new school building requirements demonstrate a 10% or better improvement in the proposed building performance rating compared to the baseline building performance rating per ASHRAE/IESNA Standard 90.1-2007 (with errata but without addenda) by a whole building project simulation using the Building Performance Rating Method in Appendix G of the Standard.

Appendix G of Standard 90.1-2007 requires that the energy analysis done for the Building Performance Rating Method include ALL of the energy costs within and associated with the building project. To achieve points using this credit, the proposed design will comply with:

- The mandatory provisions (Sections 5.4, 6.4, 7.4, 8.4, 9.4 and 10.4) of ASHRAE/IESNA Standard 90.1-2007 (without addenda);
- Must include all the energy costs within and associated with the building project.
- Must be compared against a baseline building that complies with Appendix G to Standard 90.1-2007 (with
 errata but without addenda). The default process energy cost is 25% of the total energy cost for the baseline
 building. For buildings where the process energy cost is less than 25% of the baseline building energy cost, the
 GSG submittal must include supporting documentation substantiating that process energy inputs are
 appropriate.

The overall Lighting Power Density (LPD) for this building is 0.54 (45,109 Watts / 83373 square feet) using LED Fixtures throughout.

For E4.1R: The SCA Design Standards are:

- DR1.1.5.2 Building Areas Energy Saving and Non-Energy Saving Spaces Fenestration
- DR1.3.1.10 Prototypical Energy Modeling (Capacity & CIP) / Green Building Multi-Discipline Design Parameters.
- DR4.2.1 Exterior Masonry Wall
- DR6.2.0 General Overview of Heating Ventilation and Air Conditioning Systems
- DR6.2.3 Non-Assembly Spaces
- DR6.2.4 Public Assembly Spaces
- DR6.2.9 Heating and Cooling Design parameters (Load Calculations)
- DR6.2.20 Building Management Control System/DOC Control BMS
- DR6.2.28 HVAC Design Requirements for Special Spaces
- DR6.2.34 Verification of Air System Design
- DR7.2.1 Interior Lighting
- DR 7.2.5 Exterior Lighting
- SS08524 Aluminum Windows Projected
- SS15517 Water Treatment Hydronic Systems
- SS15540 HVAC Pumps
- SS15565 Condensing Boilers
- SS15660 Packaged Modular Outdoor Chillers
- SS15783 Packaged Heat Pump System

- SS15932 Active Chilled Beams
- SS15933 DOAS Units
- SS15934 Rooftop AHU's For PA Spaces
- SS15970 Temperature Control System
- SS15973 Facility Management Systems Integration SS15985 Sequence of Operations
- SS16145 Lighting Control Devices
- SS16500 Interior Building Lighting
- SS16501 Lamps, Ballast and Accessories
- SD04200 Unit Masonry
- SD15970 BMS Control Diagram

In progress. See attached Documentation from CTI.

This project complies with this credit by the following:

The new HVAC Systems for the new building will be sized per NYCSCA DR 6.2.13 "Arrangement and Sizing of Equipment" and 6.2.9 "Heating and Cooling Design" (Load calculations) and will not be oversized. Ventilation calculations will be based on ASHRAE 62.1 methodology.

For E4.2R: The SCA Design Standards are:

- DR6.2.9 Heating and Cooling Design Parameters (Load Calculations)
- DR6.2.13 Arrangement and Sizing of Equipment
- DR6.2.34 Verification of Air System Designs
- SS15540 HVAC Pumps
- SS15565 Condensing Boilers
- SS15660 Packaged Modular Outdoor Chillers
- SS15783 Split Heat Pump System
- SS15932 Active Chilled Beams
- SS15933 DOAS Units
- SS15934 Rooftop AHU's For PA Spaces

Project meets the requirement for this credit

No Credit submittal required for this Phase

An application will be filed with the City of New York after the CP is issued by OMB for green power allocation. The City of New York purchases wind credits that support the production of approximately 29,000 MWH a year. The City has arranged with the U.S. Green Buildings Council (USGBC) to utilize this purchase in order to qualify for green power credits that contribute to the achievement of a LEED® rating on city projects.

The 100% construction documents will include calculation of annual Green Power Allocation Request (NYC LL86/05 LEED Reporting Form using lines 39-40-41).

Project meets the requirement for this credit

No Credit submittal required for this Phase

Materials Credits

Efficient Material Use

M 1.1R Storage & Collection of Recyclables

Compliance with this credit will be accomplished by (1) providing an easily accessible dedicated area to the collection and storage of non-hazardous materials for recycling for the entire building. Materials will include at a minimum paper, corrugated cardboard, glass, plastics and metal. A space will be provided in, or adjacent to, this recycling area, for the storage of utility carts used for collecting trash and recyclables. Equipment for storing and processing recyclables is provided by the SCA/F&E Unit based on a standard list of items per project type.

(2) Sizing central recycling collection/storage will be in accordance with the guidelines in the Design Requirement DR 1.3.1.8 Refuse and Recycling Storage, which are consistent with LEED for Schools 2009 space guidelines. Allow space for bailers and compactor in the Trash Room.

(3) At the cafeteria, a designated area(s) for bin(s) for recycling will be provided. Since the NYC Department of Sanitation sorts glass, plastic, metal, and milk and juice boxes off-site, only one type of recycling container needs to be provided at cafeterias. The amount of space for recycling containers is established by the Design Team based on criteria in DR 1.3.1.8.

Wall-mounted sign holder(s) will be provided at cafeteria trash and recycling areas for the display of recycling instructional posters.

(4) Within the kitchen area, space will be provided for two types of recycling containers to accommodate glass/plastic/metal and paper/cardboard.

For M1.1R: The SCA Design Standards are:

- DR 1.3.1.2 Building Organization Space Relationships
- DR 1.3.1.8 Refuse and Recycling Storage
- DR 1.3.5.01 Cafeterias PK-5
- SS1172 Waste Handling Equipment

No Credit submittal required for this Phase

M 1.2 Building Reuse, Maintain 75% of Existing Walls, Floors & Roof

This credit is not feasible

The credit is not feasible for this project because there is no building on site. The Site was used as a Parking lot.

M 1.3 Building Reuse, Maintain 95% of Existing Walls, Floors & Roof

This credit is not feasible

The credit is not feasible for this project because there is no building on site. The Site was used as a Parking lot.

M 1.4 Building Reuse, Maintain 50% of Interior Non-Structural Elements

This credit is not feasible

The credit is not feasible for this project because there is no building on site. The Site was used as a Parking lot.

M 1.5R	Construction Waste Management, Divert 50% from Disposal	
Credi	lit is feasible See Narrative below	
M 1.6	Construction Waste Management, Divert 75% from Disposal	
Credit	it is achieved	
M 1 7	Construction Waste Management, Divert 95% from Disposal	

Credit is feasible and will be pursued (30% Submission)

This credit will be achieved by requiring the contractor to develop a construction waste management plan and to record the amount and type of construction waste diverted/recycled. The contractor will be required to comply with the following SCA Standard Specification sections in the Contract documents:

S01524 Construction Waste Management

Construction Waste Management is complete. 92% of construction waste was diverted from landfills. Out of total 1644 tons of waste, 1520 tons was diverted to Westbury Recycling located at 117 Magnolia Avenue, Westbury, NY 11590. Project has achieved both M 1.5R and M1.6. Attached are also monthly Construction waste reports from Rizzo Environmental, the waste hauler for this project.

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

1			
SCA	School	Construction	Authority
		en Schools Ratir	

PS 335Q	
150-15 Raleigh Street	Contractor: Petracca & Sons
53004	Preparer: J. Dias
10 2/16/18	Telephone: X8422

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		598	Tons
Wood		555	Tons
Gypsum Wallboard		14	Tons
Steel		157	Tons
Crushed Asphalt			
Masonry			
Cardboard		98	Tons
Plastic		98	Tons
Other:			
Other:	ONSTRUCTION WASTE DIVERTED	1,520	

Landfill materials Description

Landfill Hauler or Location

Ceneral Mixed Waste
Other:
Other:
TOTAL CONSTRUCTION WASTE SENT TO LANDFILL

Quantity of Diverted / Recycled Waste
(tons or cubic yards)

124

TOTAL OF ALL CONSTRUCTION WASTE	1,644
PERCENTAGE OF CONSTRUCTION WASTE DIVERTED FROM LANDFILL	92%

05/01/09

Electronic copy of Form can be downloaded from SCA web site



CONSTRUCTION WASTE MANAGEMENT PLAN (CWM PLAN)

SCA - PS 335 Queens, New York

General Contractor:

Petracca & Sons

Project:

PS 335

Project No.:

LLW #053004



Table of Contents

Project Information	Page 3
Waste Management Goals	Page 3
Waste Prevention Planning	Page 3
Communication & Education Plan	Page 4
Implementation Plan	Page 5
Evaluation Plan	Page 6
Expected Project Waste, Disposal and Handling	Page 6
Cost/Revenue Analysis	Page 8
Monthly Reporting	Page 9

Construction Waste Management Plan



Project Information

Project:

SCA - PS 335

Queens, New York Project # LLW #053004

General Contractor: Petracca & Sons

Contact: Lou Gaudio

CWM Coordinators: Maggie Sciubba (KR) & Lou Gaudio (Petracca)

Project Location: PS 335 - Queens, NY

Project Description: New School Construction

Waste Management Goals

This project will recycle or salvage for reuse, a minimum of 75% (by weight) of the demolition and construction waste generated onsite. Waste reduction will be achieved through reuse and recycling efforts to be maintained throughout the construction process.

Waste Prevention

This project will be in compliance with the requirements of specification section S01524 dated December 30, 2014.

As part of the Project Manual's Specifications the requirements for waste management are defined in Division One: Section S01524: Construction Waste Management and Disposal. The General Contractor is required to develop a waste management plan, require all subcontractors to comply with said plan, review said plan at a kick-off meeting and at every project meeting thereafter with the subcontractors. A copy of this Construction Waste Management Plan shall accompany all Subcontractor Agreements requiring subcontractor participation.

Construction Waste Management Plan



The Construction Waste Plan shall be implemented and executed as:

- There will be designated areas at the construction site for dumpsters for
- All containers with comingled items will be hauled off site and divert materials from landfill as appropriate by the recycling center.

Communication & Education Plan

Pre-Construction Meeting:

The General Contractor and LEED Consultant for GC (Knowledge Resource, LLC) shall conduct onsite pre-demo and pre-construction meetings with subcontractors to review all waste management goals. Attendance will be required for the subcontractor's key field personnel, as a prerequisite to award. The meeting shall reinforce the commitments made by their companies with regard to the project goals and requirements for each of the subcontractor's key field employees. Each subcontractor attending the meeting will be required to sign a compliance sheet, to ensure the project goals are understood and will be followed.

Weekly Meetings: Waste prevention and recycling activities shall be discussed at the beginning of each weekly subcontractor coordination meeting to reinforce project goals and communicate progress to date.

As each new subcontractor comes on to the project site, the jobsite foreman will present him/her with a copy of the Waste Management Plan and provide a tour of the recycling and reuse areas. The subcontractor will be expected to make sure each of their team members comply with the Construction Waste Management Plan.

Construction Waste Management Plan



Implementation Plan

This plan will be distributed to the subcontractors, attached to subcontract agreements and/or at the weekly meeting if not in receipt, and posted at the jobsite.

The project team will designate and label specific areas on Project site necessary for separating materials that are to be salvaged, recycled, reused, donated, and sold.

The project team will designate and label a specific person(s) on Project site necessary for reviewing, implementing and confirming the compliance of this plan. The persons are Maggie Sciubba of Knowledge Resource and Lou Gaudio (Petracca).

All waste containers shall be located in close proximity to the location(s) under construction in which materials to be diverted or land filled will be collected in a comingled fashion. All designated containers for single material separation shall be properly and boldly labeled.

Lists of acceptable/unacceptable materials will be posted at the site. All subcontractors will be informed through this plan and at weekly meetings of the importance of non-contamination with other materials or trash. Recycling coordinators shall inspect the containers on a weekly basis to insure that no contamination is occurring and precautions shall also be taken to deter any contamination by the public.

All demolition and construction debris recycling will be done by Rizzo Environmental Services located at Westbury, New York.

Reporting forms will be provided by Rizzo showing amounts of materials diverted from Landfills.

Construction Waste Management Plan



Evaluation Plan

The General Contractor will develop, update and post at the jobsite a graph indicating the progress to date for achieving the project's waste recycling goal of 75% by weight of the total project waste stream.

Expected Project Waste, Disposal and Handling

Salvaging Den	nolition Waste
No Demo Done	No Demo Done

Recycling Construction Waste				
Material	Handling Procedure			
	1. Cardboard and Boxes: Break down packaging into flat sheets. Bundle and store in a dry location. 2. Polystyrene Packaging: Separate and bag materials.			
Packaging/Paper/Cardboard (25 T) RECYCLED	3. Pallets: As much as possible, require deliveries using pallets to remove pallets from Project site. For pallets that remain on-site, break down pallets into component wood pieces and comply with requirements for recycling wood.			
	4. Crates: Break down crates into component wood pieces and comply with requirements for recycling wood.			
Wood Materials (120 T)	1. Clean Cut-Offs of Lumber: Grind or chip			

Construction Waste Management Plan



T	RECYCLED	into small pieces.
		2. Clean Sawdust: Bag sawdust that does not
		contain painted or treated wood.
	Gypsum Board/Insulation (2 T)	Stack large clean pieces on wood pallets and store in a dry location.
	Masonry/Concrete (200 T)	Remove reinforcement and other metals from
	(200 1)	concrete and sort with other metals and pulverize concrete and screen.
		Separate metal by type: 1. Structural Steel: Stack members according to size, type of
	Metal	member, and length. 2. Remove and dispose of
	(50 T)	bolts, nuts, washers, and other rough hardware.
	Plastics (20 T)	General Treatment
	Flooring	Roll large pieces tightly after removing debris,
	(1 T)	trash, adhesive, and tack strips.
	Field Adh/Sealants/Caulking Tubes	
	(.1 T)	

Construction Waste Management Plan



Estimated Cost/Revenue Analysis of Construction Waste

Cost / Revenue Analysis of Construction Waste								
Materials	Total Quantity of Materials (lbs) (A)	Estimated Cost of Disposal (B)	Total Estimated Cost of Disposal (C=AxB)	Revenue from Salvaged Materials per pound (D)	Revenue from Recycled Materials (E)	Landfill Tipping Fees Avoided (F)	Handling and Transportation Costs Avoided (G)	Net Cost Savings of Work Plan (H = D+E+F+G)
Packaging: Cardboard/Paper	50,000.00	0.035	\$1,750.00	\$0.02	\$1,000.00	\$1,750.00	0	\$2,750.02
Construction: Masonry or CMU	400,000.00	0.005	\$2,000.00	\$0.03	\$10,000.00	\$2,000.00	0	\$12,000.03
Construction: Lumber	240,000.00	0.035	\$8,400.00	\$0.03	\$6,000.00	\$8,400.00	0	\$14,400.03
Construction: Metals	100,000.00	0.035	\$3,500.00	\$0.03	\$3,000.00	\$3,500.00	0	\$6,500.03
Construction: Insulation	800.00	0.035	\$28.00	\$-	\$-	\$28.00	0	\$28.00
Joint Sealant Tubes	200.00	0.035	\$7.00	\$-	\$-	\$7.00	0	\$7.00
Construction: Gypsum Board	3,200.00	0.035	\$112.00	\$-	\$-	\$112.00	0	\$112.00
Construction: Carpet and Pad	2,000.00	0.035	\$70.00	\$-	\$-	\$70.00	0	\$70.00
Totals	796,200.00		15,867.00		\$20,000.00	15,867.00		35,867.10

The above estimates are based upon project drawings and specification reviews.

Construction Waste Management Plan



Disposal of Waste

Except for items or materials to be salvaged, recycled, or otherwise reused, remove waste materials from Project site and legally dispose of them in a landfill or incinerator acceptable to authorities having jurisdiction.

- a. Except as otherwise specified, do not allow waste materials that are to be disposed of accumulate on-site.
- b. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.

Burning: Do not burn waste materials.

Monthly Reporting

Knowledge Resource, LLC (KR) will produce the monthly CWM Management Form (Appendix A Form) tracking report, based on the four (4) submittals listed below, provided by the General Contractor.

- 1. A record of the type and quantity, by weight, of each material salvaged, reused, recycled, or disposed of;
- 2. Total quantity of waste recycled as a percentage of total waste;
- 3. Disposal Receipts;
 - a. Copy of receipts issued by a disposal facility for Construction, Demolition, and Land clearing (CDL) waste debris that is disposed in a landfill
- 4. Recycling Receipts;
 - a. Copy of receipts issued by approved recycling facilities for comingled materials

Construction Water Management Credit M 1.5R, M1.6, and M1.7

Project:

PS 335 (Queens)

150-15 Raleigh Str., Ozone Park, NY

Contractor:

Petracca

Address: LLW: Date:

53004 Sep-2017 Preparer: Telephone: Knowledge Resource, LLC

732.770.9221

Table 1: Construction Wate Management Diversion Summary

Diverted/Recycled		Quantity of	
Materails	Diversion/Recycled	Diverted/Recycled	Units (ton or cubic
Description	Hauler or Location	Waste	yards)
Concrete	Rizzo Environmental	597.65	Tons
Wood	Rizzo Environmental	554.68	Tons
Gypsum Wallboard	Rizzo Environmental	13.72	Tons
Metal	Rizzo Environmental	156.60	Tons
Crushed Asphalt	Rizzo Environmental	0.000	Tons
Masonry	Rizzo Environmental	0.00	Tons
Carboard/paper	Rizzo Environmental	98.07	Tons
Plastic	Rizzo Environmental	98.68	Tons
Carpet	Rizzo Environmental	0.00	Tons
6" Minus	Rizzo Environmental	0.00	Tons
Screen Fine	Rizzo Environmental	0.00	Tons

Total Construction Waste Diverted

1519.40 Tons

	Total Construction Waste Sent to Landfill	123.5 Tons		
General mixed Waste	Rizzo Environmental	123.50 Tons		
Landfill Materials Description	Landfill Hauler or Location	Quantity of Diverted/Recycled Waste	Units (tons or cubic yards)	

Total of All Constrution Waste
Percentage of Construction Waste Diverted From Landfill

1642.9 92%

Project: Address: Hauler:

PS 335 (Queens) 150-15 Raleigh Str., Ozone Park, NY Rizzo Environmental

September 2017 Report

Date	Ticket #	Weight	Plastic	Paper/Cardbos rd	Metai	Masonry	Sheet Rock	Brick/Concr ete	Asphelt	Carpet	Wood	6" Minus	Screen	Waste
6/1-30/16	no píck up	0	0.00	0.00	0.00	0.00	0.00	0.00	00'0	00'0	00 0	0.00	00.00	0.00
Totals for June 2016	ine 2016	0	0.00 #DIV/0!	0.00 #DIV/0!	0.00 #DIV/0!	0.00 #DIV/0!	0.00	0.00 #DIV/0!	0.00 #DIV/0!	0.00 #DIV/0!	0.00 #DIV/0!	0.00 #DIV/0!	0.00 #DIV/0!	0.00 #DIV/0!
7/1-31/16	various	23.07	0.00	0.00	3.01	0.00	0.00	7.82	00.0	00'0	9.93	0.00	0.00	2,31
Totals for July 2016	Jly 2016	23.07	0.00	0.00	3.01	00.0	00.0	7.82	0.00	0.00	9.93	0.00	0.00	2.31
%			0.00	0.00	0.13	0.00	0.00	0.34	#DIV/0!	0.00	0.43	#DIN/0i	0.00	0.10
8/1-31/16	various	48.17	0.71	3.12	4.12	0.00	0.00	29.48	0.00	0.00	9.04	0.00	0.00	1.71
Totals for August 2016	enst 2016	48.17	0.71	3.12	4.12	0.00	0.00	29.48	0.00	0.00	9.04	0.00	00'0	1.71
%			0.01	90.0	60.0	0.00	0.00	0.61	00.0	0.00	0.19	0.00	0.00	0.04
9/1-30/16	various	112.33	3.75	4.33	10.32	0.00	0.00	58.83	0 0	00.00	26.11	00'0	0.00	8.99
Totals for Contomber 2016	ombor 2016	117 33	3.75	4.33	10.32	0.00	0.00	58.83	0.00	0.00	26.11	0.00	0.00	8.99
%	OTOT ISOILE	201374	0.03	0.04	0.09	0.00	0.00	0.52	0.00	0.00	0.23	0.00	0.00	0.08
10/1-31/16	various	148,46	11.00	10.43	16.79	0.00	0.00	46.46	0.00	0.00	53.30	0.00	0.00	10.48
Totals for October 2016	Joher 2016	148.46	11.00	10.43	16.79	0.00	0.00	46.46	0.00	0.00	53.30	0.00	0.00	10.48
%			0.07	0.07	0.11	0.00	0.00	0.31	0.00	0.00	0.36	0.00	0.00	0.07
11/1-30/16	various	85.57	7.06	9.59	11.09	00'0	0.00	27.86	00.00	0.00	21.41	0.00	0.00	8.56
Totals for Nov 2016	Nov 2016	85.57	7.06	9.59	11.09	0.00	0.00	27.86	0.00	0.00	21.41	0.00	0.00	8.56
%			0.08	0.11	0.13	0.00	00'0	0.33	0.00	0.00	0.25	0.00	0.00	0.10
12/1-31/16	various	70,21	5.01	5,01	7.06	0.00	00'0	24.26	0.00	00 0	22.45	0.00	0.00	6.43
Totals for Dec 2016	Dec 2016	70.21	5.01	5.01	7.06	0.00	0.00	24.26	0.00	0.00	22.45	0.00	0.00	6.43
%			0.07	0.07	0.10	0.00	0.00	0.35	0.00	0.00	0.32	0.00	0.00	0.00
1/1-31/17	various	106.13	7.73	6.08	9.94	0.00	0.00	40.44	00'0	0.00	32.87	00'0	0.00	9.08
Totals for Jan 2017	Jan 2017	106.13	7.73	6.08	9.94	0.00	0.00	40.44	0.00	0.00	32.87	0.00	0.00	9.08
%			0.07	90'0	0.09	0.00	0.00	0.38	0.00	0.09	0.31	0.00	0.00	60.0
2/1-28/17	various	163.92	9,76	99'6	18.56	0.00	0.00	67.49	0.00	000	45.39	0.00	0.00	13,06
Totals for Feb 2017	Feb 2017	163.92	9.76	9.66	18.56	0.00	0.00	67.49	0.00	0.00	45.39	0.00	0.00	13.06
%			0.06	90'0	0.11	0.00	0.00	0.41	0.00	0.00	0.28	0.00	0.00	0.08

Project: Address: Hauler:

PS 335 (Queens) 150-15 Raleigh Str., Ozone Park, NY Rizzo Environmental

September 2017 Report

Dete	Ticket #	Weight (Tons)	Plastic	Paper/Cardboa rd	Metal	Masonry	Sheet Rock	Brick/Concr ets	Asphalt	Carpet	Wood	6" Minus	Fines	Waste
3/1-31/17	various	201.69	8.44	8.27	21.48	00.00	0.00	100.38	00'0	0.00	48.39	0.00	0.00	14.73
Totals fo	Totals for March 2017	201.69	8.44	8.27	21.48	0.00	0.00	100.38	0.00	0.00	48.39	0.00	0.00	14.73
	*		0.04	0.04	0.11	0.00	0.00	0.50	0.00	0.00	0.24	0.00	0.00	0.07
4/1-28/17	various	92.25	7.41	7.90	7.10	0.00	0.99	16.32	0.00	0.00	46.85	00.0	0.00	2.67
Totals fo	Totals for April 2017	92.25	7.41	7.90	7.10	0.00	0.99	16.32	0.00	0.00	46.85	0.00	0.00	2.67
	**************************************		0.08	60.0	0.08	0.00	0.01	0.18	0.00	000	0.51	0.00	0.00	90.0
5/1-30/17	various	167.77	17.90	21.31	12.63	00.00	11.55	35.25	0.00	0.00	49.30	0.00	0.00	19.81
Totals	Totals for May 2017	167.77	17.90	21.31	12.63	0.00	11.55	35.25	0.00	0.00	49.30	0.00	0.00	19.81
	% % %		0.11	0.13	80.0	0.00	0.07	0.21	0.00	0.00	0.29	0.00	0.00	0.12
6/1-30/17	various	136.89	7.91	8,07	10.20	0.00	1.18	24.92	00'0	0.00	78.11	0.00	0.00	6.53
Totals	Totals for lune 2017	136.89	7.91	8.07	10.20	0.00	1.18	24.92	0.00	0.00	78.11	0.00	0.00	6.53
	*		0.06	0.06	0.07	0.00	0.01	0.18	0.00	0.00	0.57	0.00	0.00	0.05
7/5-27/17	various	138.91	6.55	0.64	13.23	0.00	0.00	60.92	0 00	0.00	49.43	0.00	0.00	8.10
Totals	Totals for July 2017	138.91	6.55	0.64	13.23	0.00	0.00	60.92	0.00	0.00	49.43	0.00	0.00	8.10
	×		0.05	0.00	0.10	000	0.00	0.44	0.00	0.00	0.36	0.00	0.00	90.0
8/1-30/17	various	99.56	4.65	2.18	7.79	00.00	0.00	30.07	00'0	0.00	43.44	0.00	0.00	2 09
Totals fo	Totals for August 2017	99.56	4.65	2.18	7.79	0.00	0.00	30.07	0.00	0.00	43.44	0.00	0.00	5.09
	%		0.05	0.02	80.0	0.00	0.00	0.30	0.00	0.00	0.44	0.00	0.00	0.05
9/1-29/17	various	54.3	0.80	1.48	3.28	0.00	0.00	27.15	00.00	0.00	18.66	0.00	0.00	2.95
Totals for	Totals for September 2017	54.3	0.80	1.48	3.28	0.00	0.00	27.15	0.00	0.00	18.66	0.00	0.00	2.95
	%		10.0	0.03	90.0	0.00	0.00	0.50	0.00	0.00	0.34	0.00	0.00	0.05
Totals		757.86	45.02	48.22	80.89	0.00	0.00	302.64	0.00	0.00	220.50	0.00	0.00	60.62
			!		10									

757.86 697.27 60.62

Construction Water Management Credit M 1.5R, M1.6, and M1.7

Project: Address: LLW:

Contractor:

PS 335 (Queens) 150-15 Raleigh Str., Ozone Park, NY 53004

Preparer: Telephone: Petracca Knowledge Resource, LLC 732.770.9221

Date:

Aug-2017

Diverted/Recycled		Quantity of	
Materails	Diversion/Recycled	Diverted/Recycled	Units (ton or cubic
Description	Hauler or Location	Waste	yards)
Concrete	Rizzo Environmental	302.64	Tons
Wood	Rizzo Environmental	220.50	Tons
Gypsum Wallboard	Rizzo Environmental	0.00	Tons
Metal	Rizzo Environmental	80.89	Tons
Crushed Asphalt	Rizzo Environmental	0.000	Tons
Masonry	Rizzo Environmental	0.00	Tons
Carboard/paper	Rizzo Environmental	48.22	Tons
Plastic	Rizzo Environmental	45.02	Tons
Carpet	Rizzo Environmental	0.00	Tons
6" Minus	Rizzo Environmental	0.00	Tons
Screen Fine	Rizzo Environmental	0.00	Tons

Total Construction Waste Diverted

697.27 Tons

	Total Construction Waste Sent to Landfill	60.6	52 Tons
General mixed Waste	Rizzo Environmental	60.0	52 Tons
Description	Location	Waste	yards)
Landfill Materials	Landfill Hauler or	Quantity of Diverted/Recycled	Units (tons or cubic

Total of All Constrution Waste Percentage of Construction Waste Diverted From Landfill 757.89

92%

Construction Water Management Credit M 1.5R, M1.6, and M1.7

Project:

LLW:

Date:

PS 335 (Queens)

Contractor:

Petracca

Address:

150-15 Raleigh Str., Ozone Park, NY 53004

Preparer:

Knowledge Resource, LLC

Telephone:

732.770.9221

Table 1: Construction Wate Management Diversion Summary

Jul-2017

Diverted/Recycled		Quantity of	
Materails	Diversion/Recycled	Diverted/Recycled	Units (ton or cubic
Description	Hauler or Location	Waste	yards)
Concrete	Rizzo Environmental	540.43	Tons
Wood	Rizzo Environmental	492.58	Tons
Gypsum Wallboard	Rizzo Environmental	13.72	Tons
Metal	Rizzo Environmental	145.53	Tons
Crushed Asphalt	Rizzo Environmental	0.000	Tons
Masonry	Rizzo Environmental	0.00	Tons
Carboard/paper	Rizzo Environmental	94.41	Tons
Plastic	Rizzo Environmental	93.23	Tons
Carpet	Rizzo Environmental	0.00	Tons
6" Minus	Rizzo Environmental	0.00	Tons
Screen Fine	Rizzo Environmental	0.00	Tons

Total Construction Waste Diverted

1379.90 Tons

	Total Construction Waste Sent to Landfill	115.4	16 Tons
General mixed Waste	Rizzo Environmental	115.4	16 Tons
Description	Location	Waste	yards)
Landfill Materials	Landfill Hauler or	Quantity of Diverted/Recycled	Units (tons or cubic

Total of All Constrution Waste
Percentage of Construction Waste Diverted From Landfill

1495.36 92%

Construction Water Management Credit M 1.5R, M1.6, and M1.7

Project: Address: PS 335 (Queens)

Contractor:

Petracca

150-15 Raleigh Str., Ozone Park, NY Preparer: Knowledge Resource, LLC 732.770.9221

Telephone:

LLW: Date: 53004 Jun-2017

Diverted/Recycled		Quantity of	
Materails	Diversion/Recycled	Diverted/Recycled	Units (ton or cubic
Description	Hauler or Location	Waste	yards)
Concrete	Rizzo Environmental	479.51	Tons
Wood	Rizzo Environmental	443.15	Tons
Gypsum Wallboard	Rizzo Environmental	13.72	Tons
Metal	Rizzo Environmental	132.30	Tons
Crushed Asphalt	Rizzo Environmental	0.000	Tons
Masonry	Rizzo Environmental	0.00	Tons
Carboard/paper	Rizzo Environmental	93.77	Tons
Plastic	Rizzo Environmental	86.68	Tons
Carpet	Rizzo Environmental	0.00	Tons
6" Minus	Rizzo Environmental	0.00	Tons
Screen Fine	Rizzo Environmental	0.00	Tons

Total Construction Waste Diverted

1249.13 Tons

	Total Construction Waste Sent to Landfill	107.3	36 Tons
General mixed Waste	Rizzo Environmental	107.3	6 Tons
Description	Location	Waste	yards)
Landfill Materials	Landfill Hauler or	Quantity of Diverted/Recycled	Units (tons or cubic

Total of All Constrution Waste Percentage of Construction Waste Diverted From Landfill 1356.49

92%

Construction Water Management Credit M 1.5R, M1.6, and M1.7

Project:

PS 335 (Queens)

150-15 Raleigh Str., Ozone Park, NY

Contractor:

Petracca

Address:

53004

Preparer: Telephone: Knowledge Resource, LLC

732.770.9221

LLW:

May-2017 Date:

Table 1: Construction Wate Management Diversion Summary

Diverted/Recycled	THE ROLL OF	Quantity of	
Materails	Diversion/Recycled	Diverted/Recycled	Units (ton or cubic
Description	Hauler or Location	Waste	yards)
Concrete	Rizzo Environmental	454.59	Tons
Wood	Rizzo Environmental	365.04	Tons
Gypsum Wallboard	Rizzo Environmental	12.54	Tons
Metal	Rizzo Environmental	122.10	Tons
Crushed Asphalt	Rizzo Environmental	0.000	Tons
Masonry	Rizzo Environmental	0.00	Tons
Carboard/paper	Rizzo Environmental	85.70	Tons
Plastic	Rizzo Environmental	78.77	Tons
Carpet	Rizzo Environmental	0.00	Tons
6" Minus	Rizzo Environmental	0.00	Tons
Screen Fine	Rizzo Environmental	0.00	Tons

Total Construction Waste Diverted

1118.74 Tons

	Total Construction Waste Sent to Landfill	100.8	33 Tons
General mixed Waste	Rizzo Environmental	100.8	33 Tons
Description	Location	Waste	yards)
Landfill Materials	Landfill Hauler or	Quantity of Diverted/Recycled	Units (tons or cubic

Total of All Constrution Waste Percentage of Construction Waste Diverted From Landfill 1219.57 92%

Rizzo Environmental Services 117 Magnolia Ave Westbury, NY 11590

								-									
Wonth:	April 2017							Business Unit	4								
Project Address:	150-15 Raioigh Street	Street						CWM Contra	CWM Contractor: Rezo Environmental Services	uvironment	al Services						
roject Number.																	
Rizzo Haul Ticket #	Haut Date	LEED Recycling Ticket*	Total Tonnage (sum of concreas, metal, wood, other end residual)	Concrete/ Rock Tonnage (diverted)	Metal Tonnage (diverted)	Wood Tonnage (diverted)	Paper and Card-board Products Tonnage (diverted)	Sheetrocki	Plastic	Carpet	Other Diverted Tonnage (Explain in Comments) (diverted)	Your Dreshed Tomange	Residual co Trash Tonnage (landfiled)	% Recycled/ Diverted Material	Name and	Name and location material was sent to.	Comments
02006	4/8/2017	35828	13.59	8.15	1,36	2.72	0.68	000	0.00	0.00	00'0	12.91	0.68	%56	Westbury R	Westbury Recycling 117 Magnolia Ave, NY	
88374	4/6/2017	35R21	734	000		5.85	00.0	00.0		0.00	0.00	6.94	0.37	35%	Westbury R	Westbury Recycing 117 Magnolia Ave, NY	
88334	41710017	35881	0.11	00.0		7.29	0.46	00'0					0.48	82%	Westbury R	Westbury Recycing 117 Magnolia Ave. NY	
02000	4/40/2017	36036	7.87	157		470	00.0	00.00		00.00	00.0	7.08	0.78	%06	Westbury R	Westbury Recycing 117 Magnolia Ave, NY	
9000	4/44/2047	26110	7.84	000		6.27	0.39	00.0					0.39	%96	Westbury R	Westbury Recycing 117 Magnolia Ave, NY	
90320	414412047	36107	F 30	000		4.31	0.27	0.00					0.27	82%	Westbury R	Westbury Recycing 117 Magnolia Ave, NY	
20030	4/23/2017	BA580A	0 03	00.0		3.97	550	560					0.00	100%	Cooper	Cooper Tank 222 Maspeth Avenue	
88672	412112017	6459R5	5.68	1.70		2.27	0.57	0.00					0.00	100%	Cooper	Cooper Tank 222 Maspeth Avenue	
88675	A12A12017	646392	17.11	0.00		4.68	2.34	0.00	1.17	0.00	0.00	9.37	2.34	80%	Cooper	Cooper Tank 222 Maspeth Avenue	
90344	4/26/2017	646877	3.78	1.89	0.38	0.76	0.19	0.00	0.10	0.00	0.00	3.40	0.38	%06	Cooper	Cooper Tank 222 Maspeth Avenue	
88689	4/28/2017	647416	10.07	201		4.03	201	0.00	2.01	0.00	0.00	10.07	0.00	100%	Cooper	Cooper Tank 222 Maspeth Avenue	
TOTALS			92.25	16.32	7.10	46.85	7.90	0.99	7.41	00.0	0.00	86.58	5.67	94%			
Drennend bu													Verified by:				
Date:			30-Apr-17										Date:				
Name:			Ray Rizzo										Namo			Service Service (Ĭ
Titie:			Vice President										Title:	100	CEEDS CO-ONDINATOR	CONTRACTOR	
Сотрану			Rizzo Environmental Services	mental Servic	9		40						ods, one	THE COLUMN			
Leeds Manager. Please bransfer the totals for each month below into the Business Unit Summary each month by using the Paste Special feature.	asse bansfer the	totals for each n	nonth below ink	the Busines:	s Unit Summa	лу васh топ	th by using								ļ	9900	
Project Summary	lary		Samien	February	March	April	May	June	July	August	September	October	November	December	TOTAL	TOTAL	
	CONCRETE		40.44	67.49	100.38	16.32									224.63	194.70	
	ROCK		0.00	000	0.00	00'0									0.00	0.00	
	METAL		9.94	18,56	21.48	7.10									57.08	52.39	
	WOOD		32.87	45.39	48.39	46.85									173.50	142.24	
PAPE	PAPER/CARDBOARD		80'9	9.66	8.27	06'2									31.91	32,48	
SHEETROC	SHEETROCK/WALLBOARD		0.00	00'0	00.0	0.99									0.99	0.00	
	PLASTIC		7.73	9.76	8.44	7.41									33.35	26.82	
	CARPET		0.00	0.00	00'0	0.00									0.00	0.00	
TO	OTHER DIVERTED		00.0	00.0	0.00	0.00									0.00	0.00	
SUBTO	SUBTOTAL DIVERTED		87.05	150.86	186.96	86.58									521.45	449.34	
RE	RESIDUAL/TRASH		9.08	13.06	14.73	5.67									42.54	38.47	
	SUBTOTAL		106.13	163.92	201.69	92.25									563.99	487.81	
			01%	%26	93%	94%									80%	80%	

Rizzo Environmental Services 117 Magnolia Ave Westbury, NY 11590

Teach 2017 March 2017 Mar	siness Unit: VM Contractor: Rizzo Environmental Sr	rvices		
	VM Contractor: Rizzo Environmental Se	rvices		
Haul Date Tricket 8 Goods Tricket 9 Goods Tric				
Haul Date Tricket 8 Grounds Front 1 Grounds 1				
31/12017 34716 18.41 5.52 3.68 5.52 1.84 0.00 0.00 0.00 31/12017 34728 17.31 10.39 1.73 3.48 0.00 0.00 0.00 31/12017 34928 11.64 3.49 2.33 3.49 0.59 0.00 0.00 31/12017 34931 19.41 7.76 1.94 3.89 1.94 0.00 0.59 0.00 31/12017 35189 16.56 6.62 0.83 6.62 0.83 0.00 0.00 0.00 31/12017 35189 17.31 10.39 0.87 5.19 0.87 0.00 0.00 31/12017 35287 21.49 12.59 2.05 0.00 0.00 0.00 31/12017 35282 16.56 8.62 1.32 2.85 0.00 0.00 0.00 31/12017 35582 16.56 8.03 1.48 2.36 0.00 0.00 0.00 31/12017 35582 14.61 8.39 1.48 2.39 0.00 0.00 0.00 31/12017 35582 14.61 8.39 1.48 2.39 0.00 0.00 0.00 31/12017 35582 14.61 8.39 1.48 2.36 0.00 0.00 0.00 31/12017 35582 14.61 8.39 1.48 2.36 0.00 0.00 0.00 31/12017 35582 14.61 8.39 1.48 2.36 0.00 0.00 0.00 31/12017 35582 14.61 8.39 1.48 2.36 0.00 0.00 0.00 31/12017 35582 14.61 8.39 1.48 2.36 0.00 0.00 0.00 31/12017 35582 14.61 8.39 1.48 2.36 0.00 0.00 31/12017 35582 14.61 8.39 1.48 2.36 0.00 0.00 0.00 31/12017 35582 3	Plastic Carpat	Total Diversed Toursgo	Residual or % Recycled/ Trash Diverted Tonnage Material	Name and location material was sent to.
31/27/2017 34/288 11,644 3.449 2.33 3.449 0.559 0.00 0	0.00	0.00	1.84 90% M	Westbury Recycing 117 Magnolia Ave, NY
318/2017 34888 1184 3.48 2.33 3.48 0.58 0.00 0.58 0.00 318/2017 34991 1941 7.76 1.94 3.88 11.94 0.00 1.94 0.00 318/2017 35189 16.56 6.62 0.83 6.62 0.83 0.00 0.00 0.00 317/2017 35184 17.31 10.39 0.87 5.18 0.87 0.00 0.00 0.00 317/2017 35287 21.49 12.88 2.15 4.30 0.00 0.00 0.00 317/2017 35287 20.49 12.29 2.05 4.10 0.00 0.00 0.00 317/2017 35382 16.56 8.03 1.41 2.28 0.00 0.00 0.00 317/2017 35582 16.56 8.03 1.41 2.28 0.00 0.00 0.00 317/2017 35582 14.61 8.39 1.48 2.36 0.00 0.00 0.00 317/2017 35582 14.61 8.39 1.48 2.36 0.00 0.00 0.74 0.00 317/2017 35582 14.61 8.39 1.48 2.36 0.00 0.00 0.74 0.00 317/2017 35582 1.481 8.39 1.48 8.27 0.00 8.44 0.00 317/2017 35582 1.481 8.39 1.48 8.27 0.00 0.00 317/2017 35582 1.481 8.39 1.48 8.27 0.00 0.00 317/2017 355822 355822 355822 355822 355822 355822 355822 355822 355822 355822 355822	0.87	0.00	0.87 95% W	Westbury Recycing 117 Magnolia Ave, NY
31872017 34891 1941 776 154 3288 154 0.00 1.94 0.00 31872017 35189 16.58 6.62 0.83 6.62 0.83 0.00 0.00 0.00 3172017 35184 17.31 10.39 0.87 5.19 0.87 0.00 0.00 0.00 3172017 35287 21.48 12.89 2.15 4.30 0.00 0.00 0.00 3172017 35397 20.49 12.29 2.05 4.10 0.00 0.00 0.00 3172017 35392 16.06 8.03 1.41 3.21 0.80 0.00 0.00 3172017 35582 16.06 8.03 1.41 3.21 0.80 0.00 0.00 31712017 35582 14.61 8.89 1.48 2.36 0.00 0.00 0.00 31712017 35582 14.61 8.89 1.48 2.36 0.00 0.00 0.00 31712017 35582 14.61 8.89 1.48 8.83 1.48 8.87 0.00 8.44 0.00 31712017 35582 1.41 8.89 1.48 8.89 1.48 8.87 0.00 0.00 31712017 35582 1.48 1.48 0.00 0.00 0.00 31812018 3.44 0.00 0.00 0.00 31812018 0.00 0.00 0.00 0.00 31812018 0.00 0.00 0.00 0.00 31812018 0.00 0.00 0.00 31812018 0.00 0.00 0.00 31812018 0.00 0.00 0.00 31812018 0.00 0.00 0.00 31812018 0.00 0.00 0.00 31812018 0.00 0.00 0.00 31812018 0.00 0.00 31812018 0.00 0.00 0.00 31812018 0.00 0.00 31812018 0.00 0.00 31812018 0.00 0.00 31812018 0.00 0.00 31812018 0.00 0.00 31812018 0.00 0.00 31812018 0.00 0.00 31812018 0.00 0.00 31812018 0.00 0.00 31812018 0.00 0.00 31812018 0.00 0.00 31812018 0.00 0.00 31812018 0.00 0.00 31812018 0.00 0.00 31812018 0.00 0.00 31812018 0.00 31812018 0.00 31812018 0.00 31812018 0.00 31812018 0.00 31812018 0.00 31812018 0.00 31812018 0.00 31812018 0.00 31812018 0.00 31812018 0.00 31812018 0.00 31812018 0.00 31812018 0.00 31812018 0.00 31812018 0.00 31812018 0.00 318120 0.00 318120 0.00 318	0.58	0.00	1.16 90% W	Westbury Recycing 117 Magnolia Ave, NY
31/12/017 35169 16.66 6.62 0.83 6.62 0.63 0.00 0.00 0.00 31/12/017 35184 17.31 10.39 0.87 5.19 0.87 0.00 0.00 31/2/017 35287 14.96 7.46 1.50 2.99 0.75 0.00 0.00 31/2/017 35287 21.49 12.29 2.15 4.30 0.00 0.00 1.07 0.00 31/2/017 35395 13.24 6.62 1.32 2.65 0.66 0.00 0.00 0.00 31/2/017 35582 16.06 8.03 1.46 2.96 0.00 0.00 0.00 0.00 31/2/017 35582 14.81 8.89 1.46 2.96 0.00 0.00 0.00 31/2/017 35582 14.81 8.89 1.48 2.96 0.00 0.00 0.07 0.00 31/2/017 35582 14.81 8.89 1.48 8.83 8.27 0.00 8.44 0.00 31/2/017 35582 31/2/017 32/2/018 34/2 0.00 0.00 31/2/017 35682 31/2/017 32/2/018 34/2 0.00 0.00 31/2/017 35682 31/2/017 32/2/018 34/2 0.00 0.00 31/2/017 35682 31/2/017 32/2/018 34/2 0.00 31/2/017 35682 31/2/017 32/2/018 34/2 0.00 31/2/017 35682 31/2/017 32/2/018 34/2 0.00 31/2/017 35682 31/2/017 32/2/018 34/2 0.00 31/2/017 35682 31/2/017 32/2/018 34/2 0.00 31/2/017 35682 31/2/017 32/2/018 34/2 0.00 31/2/017 32/2/018 34/2 0.00 31/2/017 32/2/018 34/2 0.00 31/2/018 3	194	0.00	1.94 90% V	Westbury Recycing 117 Magnolia Ave. NY
317/2017 35/24 17.31 10.39 0.87 5.19 0.87 0.00 0.00 0.00 312/2017 35/24 14.96 17.49 1.50 2.99 0.75 0.00 0.75 0.00 312/2017 35/29 13.24 6.82 1.32 2.65 0.66 0.00 0.00 313/2017 35/39 13.24 6.82 1.32 2.85 0.66 0.00 0.00 313/2017 35/39 14.81 8.89 1.46 2.99 0.00 0.00 0.00 0.00 313/2017 35/39 14.81 8.89 1.48 2.99 0.00 0.00 0.00 0.00 313/2017 35/39 14.81 8.89 14.8 8.37 0.00 8.44 0.00 313/2017 35/39 313/2017 38/34 0.00 0.00 0.74 0.00 313/2017 35/39 1.48 313/2017 0.00 0.00 0.74 0.00 313/2017 35/39 313/2017 0.00 0.00 0.74 0.00 313/2017 35/39 0.00 0.00 0.74 0.00 313/2017 0.00 0.00 0.74 0.00 313/2017 0.00 0.00 0.74 0.00 313/2017 0.00 0.00 0.74 0.00 313/2017 0.00 0.00 0.74 0.00 313/2017 0.00 0.00 0.74 0.00 313/2017 0.00 0.00 0.74 0.00 313/2017 0.00 0.00 0.74 0.00 313/2017 0.00 0.00 0.00 0.74 0.00 313/2017 0.00 0.00 0.00 0.00 313/2017 0.00 0.00 0.00 0.00 313/2017 0.00 0.00 0.00 0.00 313/2017 0.00 0.00 0.00 0.00 313/2017 0.00 0.00 0.00 0.00 313/2017 0.00 0.00 0.00 0.00 313/2017 0.00 0.00 0.00 0.00 313/2017 0.00 0.00 0.00 0.00 313/2017 0.00 0.00 0.00 0.00 313/2017 0.00 0.00 0.00 0.00 313/2017 0.00 0.00 0.00 0.00 313/2017 0.00 0.00 0.00 0.00 313/2017 0.00 0.00 0.00 0.00 0.00 313/2017 0.00 0.00 0.00 0.00 0.00 313/2017 0.00 0.00 0.00 0.00 0.00 313/2017 0.00 0.00 0.00 0.00 0.00 313/2017 0.00 0.00 0.00 0.00 0.00 0.00 313/2017 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 313/2017 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	00'0	0.00 14.90	1.66 90% V	Westbury Recycing 117 Magnolia Ave, NY
372/2017 35221 14.96 7.46 1.50 2.99 0.75 0.00 0.75 0.00 0.75 0.00 0.75 0.00 0	00:00	0.00	0.00 100% W	Westbury Recycing 117 Magnolia Ave, NY
372/2017 35287 2149 12.88 2.15 4.30 0.00 0.00 1.07 0.00 32/2017 35377 20.49 12.29 2.05 4.10 0.00 0.00 1.02 0.00 372/2017 35396 13.24 6.62 1.32 2.66 0.00 0.00 0.66 0.00 33/30/2017 35654 14.81 8.89 1.48 2.36 0.00 0.00 0.00 0.74 0.00 33/12017 35654 14.81 8.89 1.48 2.86 0.00 0.00 0.74 0.00	0.75	0.00 13.46	1.50 90% V	Westbury Recycing 117 Magnolia Ave, NY
32AZD17 35396 1324 6.62 1.32 2.05 4.10 0.00 0.00 1.02 0.00 0.0	1.07	0.00 20.42	1.07 95% V	Westbury Recycing 117 Magnolia Ave, NY
3242017 35396 1324 6.62 1.32 2.66 0.00 0.66 0.00 0.00 0.00 0.00 0.0	1.02	0.00	1.02 95% V	Westbury Recycing 117 Magnolia Ave, NY
3/31/2017 35654 14.81 8.89 14.8 2.89 0.00 0.00 0.00 0.74 0.00	99 0	0.00	1,32 90% V	Westbury Recycing 117 Magnolla Ave, NY
3/31/2017 35654 14.81 8.89 1.48 2.98 0.00 0.00 0.74 0.00	08.0	0.00	1.61 90% ¥	Westbury Recycing 117 Magnolia Ave, NY
2014 60 1101 34 24 4 8.20 8.27 0.00 8.44 0.00	0,74	0.00	0.74 95% v	Westbury Recycing 117 Magnolia Ave. NY
2148 4839 827 0.00 8.44 0.00				
1000000	0.00 8.44 0.00	0.00 186.96	14,73 93%	

Company	VECTOR IN CHARGE
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Section and the section is a section in the section						9	Poly	Annual	Centomber	October	November	November	TOTAL	2016 TOTAL
Project Summary	January	reprogry	March	You	May	2000	Aino	Vagana					20B 34	194.70
CONCRETE	40.44	67.49	100.38										400.01	
ВОСК	0.00	000	0.00										0.00	0.00
METAL	9.94	18.56	21.48										49.98	52.39
MOOM	32.87	45.39	48.39										126.64	142.24
PAPERCARDBOARD	6.08	9,66	8.27										24.00	32.48
SHEETROCKWALLBOARD	0.00	0.00	00'0										0.00	0.00
PLASTIC	7.73	9.76	8.44										25.94	26.82
CARPET	00'0	0.00	00.0										000	0.00
OTHER DIVERTED	0.00	0.00	00'0										00'0	0.00
SUBTOTAL DIVERTED	97.05	150.86	186.96										434.87	449.34
RESIDUAL/TRASH	90'6	13.06	14.73										36.87	38.47
SUBTOTAL	106.13	163.92	201.69										471.74	487.81
Injury de la Contraction (Contraction (Contr	010/	7000	0.30%										80%	80%

CONSTRUCTION WASTE MANAGEMENT PROJECT REPORT

Rizzo Environmental Services 117 Magnolia Ave Westbury, NY 11590

							1	-										
Project Title:	P.S. 335						0	Superintendent	1									
Ħ	y 20						0 (Susiness Unit:	Or Bires En	Intronmontal	Services							
Project Address:	150-15 Raleigh	gh Street					3	WW Contract	IOL. KIRKO EI									
Tropec nemons																		
Rizzo Haul Ticket#	Hauj Date	LEED Recycling Ticket #	Total Tennage (sum of concrete, metal, wood, other and residual)	Concrete/ Rock Tonnage (diverted)	Tomosge (diverted)	Wood Tonnage (dwerted)	Paper and Card-board Products Tonnage (diverted)	Sheetrock/ Wallboard	Plastic	Carpet	Other Diversed Tonnage (Explain In Comments) (diverted)	Total Diversed Totalogo	Residual or Trash Tonnage (Andfilod)	% Recycled/ Diverted Material	Neme and loca	Nama and location material was sent to.	Comments	
NONTO	211/2017	33837	19.26	578	1 93	5.78	1.93	00'0	1.93	00'0	00'0	17.33	1.93	%06	Westbury Recy	Westbury Recycing 117 Magnolia Ave, NY		
404.0	21473047	Mage	10.60	19 5		F 01	0.98	00.00	96.0	0.00	00.00	17.72	1.97	%06	Westbury Recvi	Westbury Recycling 117 Magnolia Ave, NY		
81492	2102112	23072	14.03	* 40	140	5.61	2.10	00.00	2.10	00'0	00.00	12 63	1,40	%06	Westbury Recyl	Westbury Recycing 117 Magnolia Ave, NY		
20078	2100001	23000	14.67	7 g 2	1.47	2 93	1.47	00.0	1.47	00'0	00'0	13.20	1.47	%06	Westbury Recy	Westbury Recycing 117 Magnolia Ave, NY		
97345	214312017	34100	13.00	5.24	0.65	5.24	0.65	0.00	00.0	00.00	00'0	11.78	1.31	%06	Westbury Recyl	Westbury Recycing 117 Magnolia Ave, NY		
01240	214212047	34440	18.81	80.5		4.98	0.83	00.0	0.83	00.00	00'0	14.95	1.68	%06	Westbury Recy	Westbury Recycing 117 Magnolia Ave, NY		
07946	211712017	ENCKE	17.57	10.54		3.51	0.88	00'0	00.0	00.00	00.00	16.69	0.88	%96	Westbury Recy	Westbury Recycing 117 Magnolia Ave, NY		
07070	214712047	34274	16.24	8.12		4.87	0.81	00:0	0.81	00.00	00.00	15.43	0.81	%56	Westbury Recy	Westbury Recycing 117 Magnolia Ave. NY		
07010	2000000	24500	14.20	852			00.00	00.0	0.71	00.00	0.00	13.49	0.71	%56	Westbury Recy	Westbury Recycing 117 Magnolia Ave, NY		
81 128	212412047	24507	18.56	11 14			0.00	00.00	0.93	0.00	00.0	17.63	0.93	%56	Westbury Recy	Westbury Recycing 117 Magnolia Ave, NY		
88003	71027677	24200	0.0															
			463.02	67 49	18.56	45.39	9.66	00.0	9.76	0.00	0.00	150.86	13.06	95%				
200																		
													Verified by:				1	
Prepared by:													Date					
Date:			Bay Birm										Name:	1000				
Title			Vice President										Title:		LEEDS CO-ORDINATOR	INATOR		
Company			Rizzo Environmental	mental Services	265								Bus, Unit	Unit				
Leads Manager. Please transfer the totals for each month below into the Business Unit Summary each month by using	ase transfer the	totals for each n	nonth below into	o the Busines	s Unit Summa	iry each mont	guising 4											
ma Lasta opposit					- American	Dec 6	Many	and	- And	August	September	October	November	December	YTD 2	2010 TOTAL		
Project Summary	CONCRETE		40.44	67.49											107.93 19	194.70		
	BOCK		0.00	00'0											0.00	0.00		
	METAL		9.94	18.56											28.50 53	52.39		
	MOOD		32.87	45.39											78.26 14	142.24		
PAPER	PAPERICARDBOARD	-	90'9	9.66											15.73 3.	32.48		
SHEETROCI	SHEETROCKWALLBOARD		00'0	00.0											+	0.00		
	PLASTIC	-	7.73	97.6											+	26.82		
	CARPET		0.00	0.00											0.00	0.00		
TO	OTHER DIVERTED		00.0	0.00											-	0.00		
CTRICE	SHRTOTAL DIVERTED		97.05	150.86								1			247.91 44	449.34		
	I ADAC		80.0	13.06											22.14 3	38.47		
Ä	RESIDUAL/TRASH	-	20'8	13.00														

13.06

9,08

RESIDUAL/TRASH SUBTOTAL CONSTRUCTION WASTE MANAGEMENT PROJECT REPORT

Rizzo Environmental Services 117 Magnolia Ave Westbury, NY 11590

Project Title:	P.S. 335						4	Superintendent	UL							
Month.	January 2017							Business Unit:	22							
Project Address:	150-15 Raleigh Stree	Struct					,	WM Contrac	CWM Contractor: Rizzo Environmental Services	nvironmenta	Services					
Project Number:							7									
Rizzo Haul Ticket #	Haul Date	LEED Recycling Ticket	Total Tonnage laum of concrete metal, wood, other and residual)	Concrete: Rock Tonnage (diverted)	Metal Tonnage (diverted)	Wood Tonnage (dwerted)	Paper and Card-board Products Tonnage (diverted)	Sheetrock/ Wallboard	Plastic	Carpet	Other Diverted Tonnage (Explain In Comments) (diverted)	Total Diverted Torraspe	Residual or Trash Tomnage (andfilled)	% Recycled/ Diversed Material	Name and location material was sent to.	Comments
R7454	1/4/2017	33071	15.81	949	1.58	3.16	0.00	00.00	6,79	00.00	00'0	15.02	0.79	95%	Westbury Recycing 117 Magnolia Ave, NY	
83074	1/5/2017	33106	19.18	1.92	1,92	6:28	1,92	00'0	1,92	00.0	00'0	17.26	1,92	%06	Westbury Recycing 117 Magnolia Ave, NY	
83088	1/11/2017	33220	13.43	5.37	0.67	5.37	0.67	00.00	00.0	0.00	00'0	12 09	1.34	%06	Westbury Recycing 117 Magnolia Ave, NY	
87802	1/19/2017	33424	9.88	0.99	0.99	3,95	1.98	000	0.99	0.00	00'0	8.89	66 0	%06	Westbury Recycing 117 Magnolia Ave. NY	
87810	1/23/2017	33520	14.94	7.47	1.49	4.48	00'0	0.00	0.75	00'0	0.00	14.19	0,75	%56	Westbury Recycing 117 Magnolla Ave, NY	
87477	1/26/2017	33605	15.11	4 53	151	4.53	1.51	0.00	1.51	00'0	0.00	13.60	1,51	%06	Westbury Recycing 117 Magnolia Ave, NY	
87478	1/26/2017	33615	17.78	10.67	1.78	1,78	00'0	00.0	1,78	00'0	0.00	16.00	1.78	%06	Westbury Recycing 117 Magnolia Ave. NY	
TOTALS			106.13	40 44	9.94	32.87	6.08	0.00	7.73	00'0	0.00	97.05	90.6	91%		
	o pre											-	Verified by:			
Prepared by:			54 Isa 47										Date:			
Care:			01-011-11										Mamoria	3		
Name:			Ray Rezo												Contraction of the second	
Title:			Vice President										100:	Ī	LEGUS VOLCOSOMOTOS	
			Rizzo Environmental Services	mental Service	55							Ī	But. Unit	int		

the rest opposite to the contract.								
Project Summary	January	February	March	April	May	June	July	Augus

Decise Cummon	- Inning	Tahaion	Managara	And	Man	June	Ank	August	September	October	October November December	December	TOTAL	TOTAL
Open Summary	40.44	A STATE OF THE STA											40.44	194.70
7500	900												00.00	0.00
A FEI A	9.94												9.94	52.39
doow	32.87												32.87	142.24
PAPER/CAROBOARD	6.08												6.08	32.48
SHEETBOCKWAIIBOARD	00 0												00.0	00'0
DI ASTIC	7.73												7,73	26.92
T agav C	000												0.00	00'0
OTHER DIVERTED	0.00												0.00	0.00
Carparat Archite	97.05												97.05	449.34
RESIDIAL TRASH	80.8												9.08	38.47
SUBTOTAL	106.13								0				106.13	487.81
in the state of th	91%												%08	%08

CONSTRUCTION WASTE MANAGEMENT PROJECT REPORT

Rizzo Environmental Services 117 Magnolia Ave Westbury, NY 11590

Project Title:	P.S. 335						50	Superintendent	ott							
Month	December 201	9					a	Business Unit								
Project Address:	150-15 Rainigh Stre	Stroot					U	WM Contrac	CWM Contractor: Rizzo Environmental Services	vironmenta	Services					
Project Number:																
Rizzo Haul Ticket#	Hauj Durte	Total Tonnage LEED Recycling (sun of concrete, metal, wood, other and residual)	Total Tonnage (sum of concrete, metal, wood, other and residual)	Concrete/ Rock Tonnage (diverted)	Metal Tonnage (diverted)	Wood Tonnage (diverted)	Paper and Card-board Products Tonnage (diverted)	Sheetrocki	Plastic	Carpet	Other Diverted Tonnage (Explain in Comments)	Total Diverted Tomage	Residual or Trash Tennage (andfilled)	% Recycled/ Diverted Material	Name and focation material was sent to.	Comments
80521	12/9/2016	32433	14.16	99 5	1.42	5.66	00.0	0.00	00'0	00'0	0.00	12.74	1.42	%06	Westhury Recycling 117 Magnolia Ave, NY	
83687	12/15/2016	32845	18.39	9 20		1,84	1.84	0.00	1,84	00.00	000	18,55	1.84	%06	Westbury Recycing 117 Magnolia Ave, NY	
87561	12/16/2016	32667	11.91	3.57	09'0	5,96	0,50	00:00	0.60	00'0	00'0	11.31	09.0	95%	Westbury Recycing 117 Magnolia Ave. NY	
87567	12/20/2016	32746	12.64	1,90	1.90	5.06	1,26	00'0	1.26	000	00.0	11.38	1.26	%06	Westbury Recycing 117 Magnolia Ave, NY	
87576	12/27/2016	32885	13.11	3.93	1,31	3,93	1,31	000	1.31	0.00	00.0	11.80	1.31	%06	Westbury Recycing 117 Magnolia Ave, NY	
PATOT			70.21	24.26	7.06	22.45	5.01	0.00	5.01	00.0	0.00	63.78	6.43	91%		
Prepared by:													Verified by:			
Date:			31-Dec-16										Date:			
Name:			Ray Rizzo										Name		100000000000000000000000000000000000000	ŀ
Title:			Vice President	**									Title:		LEED'S CO-ORDINATOR	
Company			Rizzo Environmental Services	imental Service	n								Bus, Unit:	Joitt		

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Leads Manager. Please transfer the totals for each month below in	the Paste Special feature.	

se Paste Special feature.													ATD.	2048
Project Summary	vanuar.	February	March	April	May	June	July	August	September	October	November	December	TOTAL	TOTAL
CONCRETE	0.00	00.0	00.0	0.00	00'0	00'0	7.82	29.48	58.83	46.46	27.86	24.26	194.70	194.70
жооа	0.00	0.00	0.00	00.0	00'0	00.0	0.00	00.0	00.0	0,00	0.00	0.00	0.00	0.00
METAL	0.00	00'0	0.00	0.00	00'0	0.00	3.01	4.12	10,32	16.79	11.09	2,06	52.39	52.39
COOM	0.00	000	0.00	00.0	0.00	0.00	9,93	9.04	26.11	53.30	21.41	22.45	142.24	142.24
DAPER/CARDROARD	000	0.00	0.00	0.00	0.00	0.00	00'0	3.12	4.33	10.43	9.59	5.01	32.48	32.48
SHEETBOCKAWAII BOARD	000	0.00	0.00	00.0	0.00	0.00	0.00	0.00	0.00	0.00	00'0	00.0	00.0	0.00
PLASTIC	0.00	000	0.00	00'0	00'0	00.0	00.0	0.00	3.75	11,00	7.06	5.01	26.82	26.82
110040	000	0.00	00.0	00'0	0.00	00.0	00.0	0.00	00'0	00.0	0.00	0.00	00.0	00.0
OTHER DIVERTED	00.0	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	00.0	0.00	0.00	00.0	0.00
SUBTOTAL DIVERTED	000	0.00	0.00	00.0	0.00	0.00	20.76	46.46	103.34	137.98	77.01	63.78	449.34	449.34
HSAGT IAINING	0.00	0.00	00.0	0.00	0.00	000	2.31	1.71	8.99	10.48	8.56	6.43	38.47	38.47
ATOTALO	00 0	000	000	0.00	000	00'0	23.07	48.17	112.33	148.46	85.57	70.21	487.81	487.81
	96	700	/80	700/	U-6/	760	%U6	%96 %	92%	93%	%06	91%	%08	80%

Rizzo Environmental Services 117 Magnolia Ave Westbury, NY 11590

Project Title:	P.S. 335						nie	Superintendent	ur:							
Month:	November 2016	91					9	Butiness unit:				1				
Project Address:	150-15 Raleigh Stree	h Struct					0	WM Contrac	CWM Contractor: Rizzo Environmental Services	avironmenta	Services					
Project Number:					01		7									
Rizzo Haul Ticket #	Hauf Date	LEED Recycling Ticket #	Total Tonnage (turn of condrews metal, wood, other and residual)	Concrete/ Rock Tonnage (diverted)	Metal Tonnage (diverted)	Wood Tonnage (diverted)	Paper and Card-board Products Tonnage (diverted)	Sheefrock/ Wallboard	Plastic	Carpet	Other Diverted Tonnage (Explain in Comments)	Total Diverted Totaloge	Residual or Trash Tomrage (landfilled)	% Recycled/ Diverted Material	Name and location material was sent to.	Comments
СВЕЗВ	11/4/2016	31437	15.54	4.68	1.55	4.66	1,55	0.00	1.55	00.00	0.00	13.99	1.53	%06	Westbury Recycing 117 Magnolia Ave. NY	
B6614	11/4/2016	31420	14.96	4.49		4.49	1,50	00'0	0.00	00.00	0.00	13.46	1,50	%06	Westbury Recycing 117 Magnolia Ave, NY	
87031	11/14/2018	L	17.14	6.86		3.43	17.1	00.0	1.71	0.00	00'0	15.43	171	%06	Westbury Recycing 117 Magnolia Ave, NY	
BZ038	11/17/2016		15.08	6.03	1.51	3.02	1,51	00.0	1.51	00.0	0.00	13.57	1.51	%06	Westbury Recycing 117 Magnolia Ave, NY	
89368	11/28/2016	L	12.49	3.75	1.25	3.75	1.25	0.00	1.25	0.00	0.00	11.24	1.25	%06	Westbury Recycing 117 Magnolia Ave. NY	
89506	11/30/2016		10.36	2.07	2.07	2.07	2.07	0.00	1.04	0.00	00.0	9.32	1.04	%06	Westbury Recycing 117 Magnolia Ave, NY	
		L														
POTATO			95.57	27.86	11.08	21.41	9.59	00.0	7.06	0.00	0.00	77,01	8.56	%06		
Precised for	Г												Verified by:			
Date			30-Nov-16									_	Date:			I
Name:			Ray Rizzo										Name:			
Title:			Vice President	it:									Title:		LEEDS CO-ORDINATOR	
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iect Summary	vicinis	February	March	Aord	May	June	July	August	September	October	November	November December	TOTAL	TOTAL
PONCBETE	000	0.00	00.0	00.0	0.00	0.00	7.82	29.48	58.83	46,46	27.86		170.44	170.44
BOCK	0.00	0.00	0.00	0.00	00'0	0.00	0.00	00'0	0.00	0.00	0.00		00.0	0.00
METAL	00'0	0.00	0.00	0.00	0.00	00.0	3.01	4.12	10.32	16.79	11.09		45.33	45.33
, GOOM	0.00	0.00	0.00	000	0.00	00.0	9.93	9.04	26.11	53,30	21.41		119.79	119.79
PAPER/CARDBOARD	0.00	0.00	0.00	0.00	0.00	00.0	00'0	3,12	4.33	10,43	9.59		27.47	27.47
SHEFTROCK/WALLBOARD	00.0	0.00	0.00	0.00	00'0	0.00	0.00	0.00	0.00	0.00	0,00		0.00	0.00
PI ASTIC	00.0	0.00	0.00	0.00	00'0	00.0	00'0	0.00	3.75	11.00	7.06		21.81	21.81
CARPET	00'0	0.00	0.00	0.00	0.00	0.00	0.00	00'0	0.00	0.00	0,00		0.00	0.00
OTHER DIVERTED	00.0	0.00	0.00	0.00	0.00	0.00	00'0	00'0	0.00	0.00	0.00		0,00	0.00
SURTOTAL DIVERTED	0.00	0.00	0.00	0.00	0.00	0.00	20.76	46.46	103.34	137.98	77.01		385.56	385.56
RESIDIALTRASH	0.00	0.00	0.00	0.00	00'0	0.00	2.31	1,71	8.99	10.48	8,56		32.04	32.04
SUBTOTAL	0.00	0.00	0.00	0.00	0.00	0.00	23.07	48.17	112.33	148.46	85.57		417.60	417.60
% of Recycled Material	%0	%0	%0	%0	%0	%0	%06	%96	92%	93%	%06		%08	%08

Rizzo Environmental Services 117 Magnolia Ave Westbury, NY 11590

Publicate Mumber Total Falling Street T		Project Title:	P.S. 335						so	Superintendent:	it:							
Particular Par	Figure 19 Figu	Month:	October 2016						8	usiness Unit								
Total Tomes Total Total Tomes Total Total Tomes Total Total Total Tomes Total To	Table Tabl	Project Address:	150-15 Raieigh	Street					J	WM Contrac	tor: Rizzo En	rvironmenta	Services					
Total Towards Control Total Tota	Total Total Control	Project Number:							1									
10442016 316554 13.80 2.07 2.07 8.28 0.00 0.00 0.00 0.00 0.00 17.47 1.94 0.00 0.00 0.00 17.47 1.94 0.00 0.00 0.00 17.47 1.94 0.00 0.00 0.00 17.47 1.94 0.00 0.00 0.00 17.47 1.94 0.00 0.00 0.00 17.47 1.94 0.00 0.00 0.00 12.24 0.00 0.00 0.00 0.00 12.24 0.00 0.00 0.00 0.00 12.24 0.00 0.00 0.00 0.00 12.24 0.00 0.00 0.00 0.00 0.00 0.00 0.00 12.24 0.00 0.0	104/2016 30562 13.86 2.07 2.07 8.28 0.00 0.00 0.00 0.00 17.47 1.94 90% 104/2016 305634 19.41 5.62 3.88 3.88 1.94 0.00 1.94 0.00 0.00 17.47 1.94 90% 104/2016 305635 24.24 14.54 2.42 4.45 0.00 0.00 1.27 0.00 0.00 12.29 1.37 90% 102/402016 30686 8.24 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.27 1.24 90% 102/402016 3.1068 14.24 2.42 4.45 0.00	Rizzo Haul Ticket	Haul Date	LEED Recycling Ticket	Total Tonnage (sum of concrete, metal, wood, other and residual)		Metal Tonnage (diverted)			Sheetrock/ Wallboard	Plastic			Tomage Tomage	7	% Recycled/ Diverted Metertal	Name and location material was sort to.	Comments
104/2016 30554 1941 558 388 194 0.00 1.94 0.00 1.94 0.00 1.747 1.94 90% 1.04/2016 30593 13.56 2.05 0.069 8.20 0.00 0.00 1.27 0.00 0.00 1.27 1.37 90% 1.04/2016 30695 2.424 1.454 2.42 4.45 0.00 0.00 1.21 0.00 0.00 0.00 2.303 1.21 95% 1.024/2016 31068 14.24 7.12 14.2 2.85 0.71 0.00 0.00 0.00 0.00 0.00 12.89 0.41 0.24/2016 31100 2.309 4.62 2.31 3.46 5.77 0.00 0.00 0.00 0.00 0.00 12.80 1.42 95% 1.024/2016 31102 2.304 1.13 9.05 0.57 0.00 0.00 0.00 0.00 1.28 1.02 95% 1.024/2016 31122 2.047 1.024 2.85 0.41 0.00 0.00 0.00 0.00 0.00 1.28 1.02 95% 1.024/2016 31122 2.047 1.024 2.85 0.41 0.00 0.00 0.00 0.00 0.00 1.046 0.55 0.55 0.55 0.55 0.00 0.00 0.00 0.00 1.046 0.55 0.55 0.55 0.55 0.55 0.55 0.00 0.00 0.00 0.00 1.046 0.55 0.55 0.55 0.55 0.55 0.55 0.00 0.00 0.00 1.046 0.55 0.	104/2016 30554 1941 552 388 3.88 1.94 0.00 1.94 0.00 0.00 1747 1.94 9.05 0.05 1.04/2016 30593 13.56 2.02 0.05 0.05 0.00 0.00 1.27 0.00 0.00 1.27 1.37 9.05 0.04 0.04/2016 3.0586 2.4.2.4 14.54 2.4.2 4.85 0.00	86292	10/4/2018	30562	13.80	2.07	2.07	8.28	00'0	0.00	0.00	0.00	00.00	12.42	1.38	%06	Westbury Recycing 117 Magnolia Ave, NY	
1016/2016 30683 13.66 2.05 0.68 8.20 0.00 0.00 1.37 0.00 0.00 12.20 1.37 90% 1.20	1016/2016 310693 13.86 2.05 0.06 0.00	86753	10/4/2016	30554	19.41	5.82		3.88	1,94	00.00	1 94	00.0	00.0	17.47	1.94	%05	Westbury Recycing 117 Magnolia Ave, NY	
101/402016 310866 8.24 14.54 2.42 4.45 0.00	1014/2016 30866 824 1454 242 448 0.00	86295	10/5/2016	30593	13.66	2.05		8.20	00.0	00.0	1.37	0.00	0.00	12.29	1.37	%06	Westbury Recycing 117 Magnolia Ave, NY	
1074Z016 30866 8.24 0.00 0.02 6.53 0.41 0.00 0.	101/41/2016 3.0866 8.24 0.00 0.02 6.58 0.41 0.00 0.00 0.00 0.00 7.83 0.41 9.55 0.41	86657	10/14/2016	30885	24.24	14.54		4,85	00'0	00.00	1.21	00"0	0.00	23.03	121	85%	Westbury Recycing 117 Magnolia Ave. NY	
1072672016 31106	1012012016 31106 1424 1424 142 288 0.71 0.00 0.71 0.00 0.00 0.00 12.80 14.2 90.8 14.2 14.2 90.8 14.2 14.2 90.8 1	86414	10/14/2016	30866	8.24	00'0		6.59	0,41	00.00	00.0	0000	0.00	7.83	0.41	35%	Westbury Recycing 117 Magnolia Ave, NY	
10726/2016 31162 2047 1024 205 6.14 1026 6.17 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	1026/2016 31160 23.08 4.62 2.31 3.45 5.77 0.00	86336	10/20/2016	31068	14.24	7.12		2.85	0.71	00.00	0.71	0.00	0.00	12.82	1.42	%06	Westbury Recycing 117 Magnolia Ave, NY	
10/28/2016 31/250 11/31 0.00 1.13 9.05 0.57 0.00 0.00 0.00 0.00 19.45 1.02 95% 10/28/2016 31/250 11/31 0.00 1.13 9.05 0.57 0.00 0.00 0.00 0.00 19.74 0.57 95% 10/28/2016 11/20 0.00 0.00 11/20 0.00 11/20 0.00 11/20	10726/2016 31182 2047 1024 2.05 6.14 1.02 0.00 0.00 0.00 0.00 1.02 9.5% 1.02 9.5% 1.02 9.0%	86433	10/24/2016	31100	23.09	4.62		3.46	5.77	000	5.77	0.00	00.0	21.04	1.15	%56	Westbury Recycing 117 Magnolia Ave. NY	
10/28/2016 31/250 11/31 0.000 1.13 9.05 0.57 0.000 0.00 0.00 0.00 157 95% 10.48	10728/2016 31250 1131 0.00 113 9.05 0.57 0.00 0	86787	10/26/2016	31182	20.47	10.24		6.14	1.02	00.00	00'0	00'0	0.00	19.45	1.02	%56	Westbury Recycing 117 Magnolia Ave, NY	
148.46 45.46 16.79 53.30 10.43 0.00 11.00 0.00 127.98 10.48	148.46 46.46 16.79 53.30 10.43 0.00 11.00 0.00 137.98 10.48	80753	10/28/2016	31250	11.31	00.0		50.6	0.57	0.00	00'0	0.00	0.00	10.74	0.57	%56	Westbury Recycing 117 Magnolia Ave. NY	
148.46 48.46 16.79 53.30 10.43 0.00 11.00 0.00 0.00 127.98 10.48	148.46 46.46 15.79 53.30 10.43 0.00 11.00 0.00 137.98 10.48											7						
		TOTALS			148.46		16.79	53.30	10.43	00'0	11.00	00.0	0.00		10.48	93%		

ame	Ray Rizzo
Ito:	Vice President
vmpanv	Rizzo Environmental Services

Leeds Manager. Please transfer the totals for each month below into the Business Unit Summary each month by using

the Paste Special feature.														
Project Summary	January	February	March	Aoril	May	June	July	August	September	October	November	December	TOTAL	TOTAL
CONCRETE	0.00	00.0	0.00	000	0.00	0.00	7.82	29.48	58.83	46.46			142.58	142.58
ROCK	0.00	00'0	0.00	0.00	0.00	0.00	0.00	00.0	0.00	0,00			0.00	0.00
METAL	0.00	0.00	0.00	0.00	0.00	0.00	3.01	4.12	10.32	16.79			34.25	34.25
MOOD	0.00	0.00	0.00	00.0	0.00	0.00	9.93	9.04	26.11	53.30			98.38	98.38
PAPER/CARDBOARD	0.00	0.00	0.00	0.00	0.00	00'0	00.0	3.12	4.33	10.43			17.88	17.88
SHEETROCK/WALLBOARD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00'0			0.00	0.00
PLASTIC	0.00	0.00	0.00	00'0	00'0	0.00	0.00	0.00	3.75	11.00			14.75	14,75
CARPET	00'0	0.00	0.00	0.00	00'0	00'0	0.00	0.00	00'0	0.00			0.00	0,00
OTHER DIVERTED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00'0	0.00	0.00			0.00	0.00
SHIPTOTAL DIVERTED	0.00	0.00	00.0	0.00	0.00	00'0	20.76	46.46	103.34	137.98			308.54	308.54
RESIDUALTRASH	0.00	0.00	0.00	0.00	0.00	0.00	2.31	1.71	8.99	10.48			23.49	23.49
SUBTOTAL	0.00	0.00	0.00	0.00	00.0	0.00	23.07	48.17	112.33	148.46			332.03	332.03
% of Description Meterial	%∪	%0	%0	%0	%0	%0	%06	%96	%26	93%			%08	%08

Rizzo Environmental Services 117 Magnolia Ave Westbury, NY 11590

roloct Title:	P.S. 335						ĺ	Superintendent	at							
ooth.	Santember 20	31						Business Unit								
roject Address:	150-15 Raleigh Street	Street						CWM Contractor: Rizzo Environmental Services	tor: Rizzo E	nvironmenta	Services					
oject Number:																
Rizzo Haul Ticket#	Haul Date	LEED Recycling	Total Tonnage (sum of concrete, meta), wood, chies and residual)	Concrete/ Rock Tonnage (diverted)	Metal Tonnage (diverted)	Wood Tennage (diverted)	Paper and Card-board Products Tonnage (diverted)	Sheefrocki	Plastic	Carpet	Other Diverted Tonnage (Explain in Comments)	Total Diverted Torange	Residual or Trash Tonnage (landfilled)	% Recycled/ Diverted Material	Name and location material was eart to.	Comments
00700	ANCICIO	20377	13.24	6.62	135	2.65	0.68	0.00	99.0	00'0	0.00	11.02	1,32	%06	Westbury Recycing 117 Magnolia Ave, NY	
80130	9/7/2018	20406	16.31	8.18			0.82	00.00	0.82	00.00	00:00	14.68	1,63	%06	Westhury Recycing 117 Magnolia Ave, NY	
83184	9/16/2016	29885	18.22	7.29				00'0	00.00	00'0	0.00	16.40	1.82	%06	Westbury Recycing 117 Magnolia Ave, NY	
83232	9/21/2016	30050	19.16	11.50	1.92	3.83	0.96	0.00	0.00	0.00	00'0	18.20	96.0	%56	Westbury Recycing 117 Magnolia Ave. NY	
83587	9/27/2016	30247	19.74	9.87	1,97	3.95	66 0	0.00	0.99	0,00	0.00	17.71	1,97	%06	Westbury Recycing 117 Magnolia Ave. NY	
86284	9/30/2016	30418	25.66	15.40	2.57	5.13	00'0	0.00	1.28	0.00	0.00	24.38	128	35%	Westbury Recycing 117 Magnolia Ave. NY	
TOTALS			112.33	58.83	10.32	26.11	4.33	00.0	3.75	0.00	00'0	103.34	8.99	95%		
	Г												Varified by:			
repaired by:			Carlo Control				-						Date:			
Date:			30-Sep-16													
Name:			Ray Rizzo										Матю		Contract of the second	
Title:			Vice President										Tribe:		LEEUS CA-OROITALOR	
			Divise Designation of the Canada	nantal Cando									But, Unit:	u iii		

Leeds Manager. Please transfer the totals for each month below into the Business Unit Summary each month by using the Pasie Special leature.

aste special regure.							-						VTD	2018
iect Summary	Vigine	February	March	Aori	Mary	June	July	August	September	October	November	December	TOTAL	TOTAL
CONCEETE	000	0.00	0.00	0.00	0.00	00'0	7.82	29,48	58.83				96,13	96.13
POCK	00 0	90 0	000	0.00	00'0	0.00	0.00	0.00	00'0				00'0	0.00
METAL	000	0.00	0.00	0.00	0.00	00'0	3.01	4.12	10.32				17.45	17.45
GOOM	0.00	0.00	00'0	0.00	0.00	00'0	9.93	9.04	26.11				45.08	45.08
DADER/CARDROARD	00.0	0.00	000	0.00	00'0	000	0.00	3.12	4.33				7.45	7.45
SHEETROCK/WALLBOARD	0.00	00'0	0.00	00'0	00'0	00.0	0.00	0.00	00'0				0.00	0.00
CITSAIG	0.00	00'0	00.0	0.00	0.00	00.0	0.00	00'0	3.75				3.75	3.75
Lingard	000	0.00	0.00	00.0	00.0	00.0	0.00	0.00	0.00				00.00	0.00
Catalyo conto	00 0	000	0.00	0.00	0.00	000	0.00	00'0	0.00				0.00	0.00
CHICATOL DIVEGTED	000	0.00	0.00	0.00	0.00	0.00	20.78	46.46	103.34				170.56	170.56
DESCRIPTION TO A SECOND	000	90.0	0.00	000	0.00	0.00	2.31	1.71	6 9				13.01	13.01
SHRTOTAL	0.00	0.00	0.00	0.00	0.00	0.00	23.07	48.17	112.33	j			183.57	183.57
	700	/80	80	700	760	760	%06	%96	95%				%08	%08

Rizzo Environmental Services 117 Magnolia Ave Westbury, NY 11590

onth	August 2016						1	Business unit.	-							
Project Address:	150-15 Raiolgh Stroot	Stroot					1	WM Contrac	CWM Contractor: Rizzo Environmental Services	nvironmenta	Services :					
Project Number:																
Rizzo Haul Ticket #	Haul Date	Total Tomase Total Tomase Total 8 Total 9 Total 9 Total 9	Total Tonnage Inum of concern metal, wood, other and residual)	Concrete/ Rock Tonnage (diverted)	Metal Tonnage (diverted)	Wood Tonnage (diverted)	Paper and Card-board Products Tonnage (diverted)	Sheetrock/ Walboard	Plastic	Carpet	Other Diverted Tonnage (Explain in Comments)	Total Diverse Tonnege	Residual or Trash Tomage (undfileo)	% Recycled/ Diverted Material	Name and Socialism material was sent to.	Comments
81543	8/8/2016	28239	14.01	8,41	0.70	4.20	0.70	00'0	00'0	00'0	00'0	14.01	0.00	100%	Westbury Recycing 117 Magnolia Ave, NY	
82624	8/19/2016	28849	14.17	7.09	1.42	2.83	1.42	0.00	0.71	0.00	0.00	13.46	0.71	%56	Westbury Recycing 117 Magnolla Ave, NY	
83020	8172727A1R	28962	19.39	13.99	2 00	2.00	1.00	00.00	00.0	00.0	0.00	18 99	1 00	35%	Westbury Recycing 117 Magnotia Ave. NY	
TOTALS			48 17	29.48	4.12	9.04	3.12	0.00	0.71	00.0	00'0	46.46	1.71	%96		
	r											C	Action to the			
Prepared by:												-1.	Versied by			
Date:			31-Aug-16										Date:			
Name:			Ray Rizzo										Name			
Title:			Vice President										Title:		LEEDS CO-ORDINATOR	
Company			Rizzo Environmental Services	nental Service	35								Bus, Unit:	init		

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Project Summary	January	February	March	April	MBy	June	Anno	August	September	OCIODBI	November		1	-
CONCRETE	00.0	00'0	00.0	00.0	0.00	0.00	7.82	29.48					37.30	37.30
ROCK	0.00	0.00	00.0	00'0	0.00	0.00	0.00	00'0					0.00	0.00
METAL	0.00	0.00	00.0	00.0	00.00	00.0	3.01	4.12					7.13	7.13
woom	0.00	0.00	00.0	00.0	0.00	0.00	9.93	9.04				1	18.97	18.97
PAPER/CARDBOARD	0.00	0.00	0.00	0.00	00.0	0.00	00.0	3,12					3.12	3.12
SHEETROCK/WALLBOARD	00.00	00'0	0.00	00.0	0.00	0.00	00.00	00'0					0.00	0.00
PLASTIC	0.00	00'0	00'0	0.00	0.00	0.00	0.00	00.0					00.0	0.00
CARPET	0.00	0.00	00'0	00.0	0.00	00'0	0.00	00.0					00.0	0.00
OTHER DIVERTED	00'0	0.00	00.0	0.00	0.00	0.00	0.00	00.0					00.0	0.00
SUBTOTAL DIVERTED	0.00	0.00	0.00	00.0	0.00	0.00	20.76	46.46					67.23	67.23
RESIDUAL/TRASH	0.00	0.00	0.00	0.00	0.00	0.00	2,31	1,71					4.02	4.02
SUBTOTAL	0.00	0.00	0.00	00.0	0.00	0.00	23.07	48.17					71.24	71.24
I discontinue of the You	700	790	%0	%0	%U	%0	%06	%96					80%	%08

Rizzo Environmental Services 117 Magnolia Ave Westbury, NY 11590

Project Title:	T.S. 550						T										
Mooth:	July 2016							Susiness Uni									
Project Address:	150-15 Raleigh Street	Street						CWM Contractor: Rizzo Environmental Services	tor: Rizzo E	nvironment	al Services						
Project Number:																	
Rizzo Haul Ticket #	Haul Date	LEED Recycling Ticket #	Total Tonnage (sum of concrete metal, wood, other and residual)	Concrets/ Rock Connege (diverted)	Metal Tonnage (diverted)	Wood Tonnage (diverted)	Paper and Card-board Products Tonnage (diverted)	Sheetrock/ Wallboard	Plastic	Carpet	Other Diversed Tenness (Explain in Comments) (diverted)	Total Beerled Tourses	Residual or Trash Tornage (andfiled)	% Recycled/ Diverted Material	Name at	Name and location material was sent to.	Comments
81743	7/13/2016	27125	7.06	1.41	141	3.53	00.0	00'0	00.0	00.00	00'0	6.35	17.0	%06	Westbury	Westbury Recycing 117 Magnolia Ave, NY	
80983	7/27/2016	27819	18.01	6.40	1.60	6.40	00.0	00.0	00.00	00.0	00'0	14.41	1,60	%06	Wastbury	Wastbury Recycing 117 Magnolia Ave, NY	
				1		6	000	000	00.0	000	00 0	20.78	2.34	%06			
TOTALS			79.07	797	10'0	25.0	00.0										
Prepared by:													Verified by:				
Date:			31-Jul-18										Date:				
Name:			Ray Rizzo										Name		00000000	O STATE OF THE OWNER OWNE	K
Title:			Vice President	4									TIE		THEIR CONCHINING IN	HUMANUK	Ĭ
Company			Rezo Environ	Rozo Environmental Services	*								Bus. Unit	Colc			
Leads Manager: Fleas Utarisler the totals for each flightill below hits the bestings. One the Paste Special (online).	iture.	TORIS IOI BECLI	HOIRI DAION III												4	2048	
Project Summary	ary		January	February	March	April	May	June	July	August	September	October	November	December	TOTAL	TOTAL	
	CONCRETE	711	00'0	00'0	00'0	0.00	00.0	00.0	7.82						7.82	7.82	
	ROCK		0.00	00.0	0,00	00'0	0.00	00.0	00'0						0.00	0.00	
	METAL		0.00	0.00	0.00	0.00	0.00	0.00	3.01						3.01	3.01	
	WOOD		0.00	00'0	0,00	0.00	0.00	0.00	9.93						9.93	9.93	
PADE	DADER/CARDROARD		0.00	0.00	00.0	0.00	00'0	00'0	0.00						0.00	0.00	
SHEETBOCK	SHEFTROCKWALLBOARD		0.00	0.00	0.00	0.00	00'0	0.00	00'0						0.00	0.00	
	PLASTIC		0.00	0.00	0.00	00'0	0.00	0.00	0.00						0.00	0.00	
	CARPET		0.00	0.00	0.00	0.00	0.00	00'0	0.00						0.00	0.00	
10	OTHER DIVERTED		0.00	00.0	0.00	00.0	0.00	0.00	00.00						0.00	0.00	
CIBIC	SUBTOTAL DIVERTED	C	9.00	0.00	0.00	00.00	0.00	0.00	20.78						20.76	20.76	
40	RESIDING TRASH	3	0.00	00'0	0.00	0.00	0.00	00'0	2.31						2.31	2,31	
	SHRTOTAL		0.00	00'0	00.0	00.0	0.00	0.00	23.07						23.07	23.07	
		1/5	700	%0	%0	%0	%0	%0	%06						%08	80%	

M 2.1R Recycled Content, 10% (post-consumer + ½ pre-consumer)

This credit will be achieved by using materials with recycling content such that the sum of post-consumer content plus one-half of pre-consumer recycling content constitutes at least 20% of the total value of the materials in the project. The recycled content value of a material assembly shall be determined by weight. The recycled fraction of the assembly is then multiplied by the cost of assembly to determine the recycled content value. Recycled contents shall be defined in accordance with the International Organization for Standardization document, ISO 14021 – Environmental labels and declaration – Self-declared environmental claims (Type II environmental labeling). Per the methodology for this credit in the current version of LEED, the typical value of materials on the project will be assumed to be 45% of the cost of Divisions 2-10. The contractor will be required to comply with the following SCA Standard Specification sections in the Contract documents:

- 02200 Earthwork
- 02511 Asphaltic Concrete Paving
- 02513 Sidewalk and Street Paving
- 03300 Cast-in-Place Concrete
- 04200 Unit Masonry
- 05120 Structural Steel
- 05710 Steel Stairs
- 07211 Perimeter Foundation Building Insulation
- 07212 Miscellaneous Building Insulation
- 07250 Sprayed Fire Resistive Materials
- 07560 Fluid-applied Protected Membrane Roofing
- 08524 Aluminum Projected Windows
- 09260 Gypsum Board Assemblies
- 09310 Ceramic Tile
- 09510 Acoustic Ceilings
- 09650 Resilient Floorings
- 09680 Carpets
- 10151 Toilet Compartments

Project has incorporated several products with post consumer and post industrial recycled content. All materials were tracked using SCA Sustainable Materials form and USGBC Calculator with their respective cost and recycled content information. See completed Recycled and Regional Materials form. Project has achieved 14.13% project Recycled content.

Credit was achieved

M 2.2 Recycled Content, 20% (post-consumer + ½ pre-consumer)

Credit was not achieved

Project has only achieved 14.13% project Recycled content.

RECYCLED CONTENT - SUMMARY FORM Credit M2.1R



Project: PS	S 335Q	Architect: NYC SCA	
-	50-15 Raleigh St	Preparer: J. Dias	
LLW #:	53004	Telephone:	
Date	2/16/2018		

Contractors Total Construction Cost for CSI Divisions 2-10: \$38,800,500
Assumed Materials Cost based on 45% of cost above: \$17,460,225
Recycled Materials Content Target (20% of the cost of Materials): \$3,492,045

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
Cement H	lolcom	\$46,094	0%	19%	\$4,379	Manufacturer
	lucor	\$115,304	83%	17%	\$105,503	Manufacturer
	arrasso	\$814,531	0%	20%	\$81,453	Manufacturer
	ackage Pavement	\$248,800	0%	2%	\$2,488	Manufacturer
4.5	aticrete	\$34,500	10%	0%	\$3,450	Manufacturer
	nterstate	\$814,531	12%	2%	\$105,889	Manufacturer
	low	\$248,800	10%	0%	\$24,880	Manufacturer
	Notar Net Solutions	\$34,500	42%	0%	\$14,490	Manufacturer
	otar Net Solutions	\$560	17%	33%	\$95	Manufacturer
	lucor-Yamato	\$237,285	83%	17%	\$236,099	Manufacturer
	lucor- Berkley	\$119,518	40%	8%	\$57,966	Manufacturer
	Gerdau	\$330,454	80%	6%	\$277,581	Manufacturer
	anam	\$131,000	24%	9%	\$35,763	Manufacturer
	teel Dynamics	\$75,998	77%	19%	\$62,090	Manufacturer
	larsci IKG	\$10,920	83%	17%	\$10,068	Manufacturer
	Miller Wire Works	\$9,200	83%	18%	\$8,367	Manufacturer
	1cNichols	\$5,142	25%	50%	\$1,748	Manufacturer
	lucor	\$44,287	54%	11%	\$26,351	Manufacturer
	lova	\$22,551	69%	19%	\$17,702	Manufacturer
	Serdau	\$26,151	77%	18%	\$22,490	Manufacturer
	Steel Dynamics	\$27,677	80%	18%	\$24,633	Manufacturer
	Columbia Forest Product	\$62,000	80%	0%	\$49,600	Manufacturer
	lakeboard	\$15,000	100%	0%	\$15,000	Manufacturer
	ormica	\$46,000	0%	27%	\$6,210	Manufacturer
	Hilti	\$450	90%	0%	\$405	Manufacturer
	Grace	\$72,000	7%	0%	\$5,134	Manufacturer
	Grace	\$15,000	5%	0%	\$750	Manufacturer
	Guilford of Maine	\$2,600	100%	0%	\$2,600	Manufacturer
1001(200)	ohns Manville	\$2,600	20%	5%	\$585	Manufacturer
	/arshfield	\$45,150	0%	44%	\$9,933	Manufacturer
	//arshfield	\$45,150	0%	44%	\$9,933	Manufacturer
	ABH	\$11,856	80%	0%	\$9,485	Manufacturer
		\$1,757,186	39%	32%	\$966,452	Manufacturer
-	alcon		57%	34%	\$1,140	Manufacturer
	ves	\$1,541	57%	31%	\$17,873	Manufacturer
3100010	.CN	\$24,652		0%	\$3,697	Manufacturer
	Rockwood	\$4,108	90%			Manufacturer
	Rixon	\$8,515	60%	0%	\$5,109	
	Schlage	\$55,360	40%	19%	\$27,403	Manufacturer
Hinges S	Stanley	\$11,315	25%	0%	\$2,829	Manufacturer
Weatherstrip Z	Zero	\$5,259	5%	20%	\$789	Manufacturer
Threshold Z	Zero	\$2,368	5%	40%	\$592	Manufacturer
	ane innovations	\$11,548	25%	5%	\$3,176	Manufacturer
	.IF	\$114,810	25%	7%	\$32,721	Manufacturer
	Iohnsonite	\$6,200	0%	32%	\$992	Manufacturer
VET color essence(resinous jo		\$90,400	6%	23%	\$15,820	Manufacturer
	Armstrong	\$15,628	1%	74%	\$5,939	Manufacturer
	Armstrong	\$46,793	1%	74%	\$17,781	Manufacturer
		\$52,133	0%	25%	\$6,517	Manufacturer
	Armstrong			7%	\$2,905	Manufacturer
	Armstrong Armstrong	\$10,961 page 7 \$1,787	23%	7%	\$474	Manufacturer

12' Heavy Duty Main Beam 7A	rmstrona	\$6,201	23%	7%	\$1,643	Manufacturer
	rmstrong	\$366	23%	7%	\$97	Manufacturer
X	rmstrong	\$3,724	23%	7%	\$987	Manufacturer
	rmstrong	\$1,730	23%	7%	\$459	Manufacturer
	Certainteed	\$15,158	14%	17%	\$3,411	Manufacturer
_ *	Carnak	\$2,400	0%	0%	\$0	Manufacturer
ight Gauge Steel Framing&Acc	Marino Ware	\$165,300	20%	14%	\$44,631	Manufacturer
6/8" Gold Bond XP Fire-Shield		\$81,197	5%	0%	\$4,060	Manufacturer
6/8" Gold Bond Fire-Shield Gyp N		\$625	5%	0%	\$31	Manufacturer
5/8" Gold Bond Hi-Impact fire	lational Gypsum	\$162,736	5%	0%	\$8,137	Manufacturer
" Gold Bond Fire-Shield Sh.N	National Gypsum	\$10,885	5%	0%	-\$544	Manufacturer
	lational Gypsum	\$25,500	0%	14%	\$1,785	Manufacturer
All purpose, multi use joint con	E-1	\$46,640	0%	35%	\$8,162	Manufacturer
	Roxul	\$2,017	0%	40%	\$403	Manufacturer
	Cnauf	\$17,977	17%	30%	\$5,753	Manufacturer
	Comtec/Scranton	\$37,670	25%	0%	\$9,418	Manufacturer
	Republic	\$10,065	33%	33%	\$4,982	Manufacturer
	Republic	\$37,180	33%	33%	\$18,404	Manufacturer
	Comtec/Scranton	\$37,670	25%	0%	\$9,418	Manufacturer
						Manufacturer

Total Cost of Complying Material \$2,467,652

Confirm that Total Cost of Complying Materials is greater than or equal to Project's Recycled Materials Content Target: 2467652/17460225=14.13%

NO

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

05/01/09

M 2.3 Regional Materials, 10% Extracted, Processed & Manufactured Regionally

Credit is feasible See Narrative below

M 2.4 Regional Materials, 20% Extracted, Processed & Manufactured Regionally

Credit is feasible and will be pursued

This credit will be achieved by using building materials or products that have been extracted, harvested or recovered, as well as manufactured, within 500 miles of the project site for a minimum of 10% the total material value. Per the methodology of this credit in the current version of LEED, the typical value of materials on the project can be assumed to be 45% of the cost of Divisions 2-10. The contractor will be required to comply with the following SCA Standard Specification sections in the Contract documents:

- 02200 Earthwork
- 02511 Asphaltic Concrete Paving
- 02513 Sidewalk and Street Paving
- 02900 Landscaping
- 03300 Cast-in-Place Concrete
- 04200 Unit Masonry
- 05120 Structural Steel
- 05300 Metal Deck
- 09260 Gypsum Board Assemblies
- 09310 Ceramic Tile

Project has incorporated several regional products manufactured and extracted within 500 miles of the project site. All materials were tracked using SCA Sustainable Materials form and USGBC calculator with their respective cost and location information. See completed Recycled and Regional Materials form. Project has far exceeded the 10% regional requirement by achieving 11.58% regional content.

REGIONAL MATERIALS - SUMMARY FORM Credit M2.2R



Project:	PS 335Q		Architect: NYC SCA	
Address:	150-15 Raleigh St		Preparer: John Dias	
LLW #:	53004	Design #:	Telephone: 718-472-8422	
Date:	2/16/2018			

Contractors Total Construction Cost for CSI Divisions 2-10: \$38,800,500

Assumed Materials Cost based on 45% of cost above: \$17,460,225

Regional Materials Content Target (20% of the cost of Materials): \$3,492,045

Product Name	Manufacturer	Material Cost (no Labor &	Percentage Regionally Extracted***	Cost of Complying Material		niles between and site of	Regional Material Information Source
		Equip)	by weight		extraction	manufacture	
СМИ	Barrasso	\$814,531	100%	\$814,531	40	40	Manufacturer
Motar- Type M.S.&N	Package Pavement	\$248,800	100%	\$248,800	490	73	Manufacturer
Brick	Interstate	\$814,531	2%	\$0	>500	>500	Manufacturer
Cavitymate 3' insulation	Dow	\$248,800	10%	\$24,880	>500	>500	Manufacturer
Rebar	Nucor	\$115,304	100%	\$115,304	273	273	Manufacturer
Cement	Holcom	\$46,094	100%	\$46,094	55	10	Manufacturer
Slag	Holcom	\$30,728	100%	\$30,728	55	10	Manufacturer
Sand	Coram materials	\$25,837	100%	\$25,837	100	10	Manufacturer
Stone	Tilcon	\$44,422	100%	\$44,422	45	10	Manufacturer
Structual Steel	Nucor-Yamato	\$237.285	2%	\$4,746	<500	19	Manufacturer
Structual Steel	Nucor- Berkley	\$119,518	25%	\$29,880	<500	19	Manufacturer
Structual Steel	Gerdau	\$330,454	92%	\$304,018	<500	19	Manufacturer
Steel Deck	Canam	\$131,000	100%	\$131,000	65	30	Manufacturer
Steel Stairs	Steel Dynamics	\$75,998	0%	\$0	>500	>500	Manufacturer
Galvanized Grating	Harsci IKG	\$10,920	100%	\$10,920	458	27	Manufacturer
Square Mesh	Miller Wire Works	\$9,200	100%	\$9,200	365	27	Manufacturer
AL/6063TG Gal 125	McNichols	\$5,142	100%	\$5,142	139	27	Manufacturer
Structual Metal	Nucor	\$44,287	100%	\$44,287	458	27	Manufacturer
Structual Metal	Nova	\$22,551	70%	\$15,785	438	27	Manufacturer
Structual Metal	Gerdau	\$26,151	100%	\$26,151	27	77	Manufacturer
Structual Metal	Steel Dynamics	\$27,677	100%	\$27,677	446	27	Manufacturer
Plywood core veneer panels	Columbia Forest Produc	\$62,000	100%	\$62,000	455	415	Manufacturer
Door Pull	Rockwood	\$4,108	100%	\$4,108	336	336	Manufacturer
Vanguard security screen	kane innovations	\$11,548	100%	\$11,548	420	350	Manufacturer
Steel Doors and Frames	LIF	\$114,810	100%	\$114,810	446	13	Manufacturer
vent cove base	Johnsonite	\$6,200	100%	\$6,200	447	447	Manufacturer
Ultima 1911	Armstrong	\$15,628	100%	\$15,628	499	499	Manufacturer
Ultima 1914	Armstrong	\$46,793	100%	\$46,793	499	499	Manufacturer
4' Cross Tee XL7348	Armstrong	\$10,961	100%	\$10,961	499	172	Manufacturer
2' Cross Tee XL7328	Armstrong	\$1,787	100%	\$1,787	499	172	Manufacturer
12' Heavy Duty Main Beam 7	Armstrong	\$6,201	100%	\$6,201	499	172	Manufacturer
10' Shadow Moulding 7823	Armstrong	\$366	100%	\$366	499	172	Manufacturer
12' Wall Molding 7800	Armstrong	\$3,724	100%	\$3,724	499	172	Manufacturer
10' Channel Molding 7830	Armstrong	\$1,730	100%	\$1,730	499	172	Manufacturer
Light Gauge Steel Framing&Acce		\$165,300	100%	\$165,300	82	44	Manufacturer
5/8" Gold Bond XP Fire-Shield Gy		\$81,197	100%	\$81,197	82	82	Manufacturer
5/8" Gold Bond Fire-Shield Gypsu		\$625	100%	\$625	82	82	Manufacturer
5/8" Gold Bond Hi-Impact fire		\$162,736	100%	\$162,736	82	82	Manufacturer
1" Gold Bond Fire-Shield Sha		\$10,885	100%	\$10,885	197	197	Manufacturer
Acoustical Sheetrock Sealant		\$6.165	100%	\$6,165	400	352	Manufacturer
Toilet Partitions	Comtec/Scranton	\$37,670	100%	\$37,670	142	142	Manufacturer
Shower Compartments	Comtec/Scranton	\$37,670	100%	\$37,670	142	142	Manufacturer
Lab Resin	JHC	\$7,526	100%	\$7,526	16	16	Manufacturer
3/4" Particle Core Plywood	Columbia Forest Produc	\$2,334	100%	\$2,334	450	450	Manufacturer
3/4" Veneer Core Plywood	Columbia Forest Produc	\$4,084	100%	\$4,084	450	450	Manufacturer
0/4 Velicei Cole Flywood	Columbia Forest Froduc	₩T,004	15070	ψ-1,004	.50	,50	
			lying Material	\$2,021,402			

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

No 11 59%

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:

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

M 2.5R Wallboard & Roof Deck Products, Mold Resistance

Credit is feasible and will be pursued

This credit will be achieved by using building materials for the exterior envelope construction that are resistant to mold. The contractor will be required to comply with the following SCA Standard Specification sections in the Contract documents:

- 06100 Rough Carpentry
- 07212 Miscellaneous Building Insulation
- 07250 Sprayed Fire-Resistive Materials
- 09260 Gypsum Board Assemblies

No Credit submittal required for this Phase

The interior lighting fixtures for the school will all be LED. There are no fluorescent fixtures specified for this project.

Credit is not feasible

Indoor Environmental Quality Credits

IAQ Post-occupancy

Q 1.1R Minimum IAQ Performance & Increased Ventilation

Credit is feasible and will be pursued

The IEH Consultant's outdoor air analysis report concluded the following:

"TRC's outdoor air assessment of the proposed public school, PS 335Q, located at the South intersection of Raleigh Street and Albert Road, Queens, New York revealed no significant sources of air contaminants in the vicinity of the site, with the exception of the USEPA listing of Queens as a "non-attainment" area for ozone (8hour) and particulate matter [PM-2.5] with respect to the primary NAAQS."

The ventilation system for the new building will be designed to provide 30% more outdoor air ventilation than the ASHRAE Standard 62.1-2004 requirements, with the exception of the Cafeteria. For those spaces, the ventilation system will comply with the minimum ASHRAE 62.1-2004 requirements, which exceed DOB ventilation rates. All calculations will be based on ASHRAE 62.1 methodology.

For Q1.1R The SCA Design Standards are:

- DR6.2.0 General Overview of Heating Ventilation and Air Conditioning Systems
- DR6.2.1 HVAC Unit Centralization and Coordination
- DR6.2.3 Non-Assembly Spaces (Classrooms, Offices, etc.)
- DR6.2.4 Public Assembly Spaces
- DR6.2.9 Heating and Cooling Design Parameters (Load Calculations)
- DR6.2.20 Building Management System/DDC BMS and DDC only Systems
- SSS01550 Indoor Air Quality Requirements
- SS15932 Active Chilled Beams
- SS15933 DOAS Units
- SS15934 Rooftop AHU's For PA Spaces
- SS15985 Sequence of Operations
- SS15992 Cleaning and Testing
- SS15993 Balancing of Systems

Appendix

Q1.1R A TRC Letter Dated 2/24/14

No Credit submittal required for this Phase

PRECISION TEST & BALANCE CORP.

345 CALYER STREET BROOKLYN, NY 11222

Project: ____



PHONE: 718-994-2300 FAX: 718-383-1638

CERTIFIED TEST, ADJUST AND BALANCE REPORT

P.S. 335

Location:	150-15 RALEIGH	STREET QUEENS,	NY
Architect:			SE OF NEW)
Engineer:			50
Prepared For:	TOMCO MEC	CHANICAL CORP.	Depos On The Part of the Part
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RECORDED.			
ASSOCIATED AIR BA	ALANCE COUNCIL CER	TIFICATION NUMBER:	04-08-28
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	Date		Program of the control of the contro
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Test & Ba	lance Engineer		AABC Seal

TOMCOM

125 State

SUBMISSION

Job Name:

P.S. 335 - G

CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, SHOP DRAWING APPROVAL IS ONLY FOR GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, SELECTING FABRICATION, PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATING THE WORK WITH THAT OF ALL OTHER TRADES AND PERFORMING THE WORK IN A SAFE AND SATISFACTORY MANNER. 150 -15 Rale grant and satisfied in the same and satisfied in the satisfie

Ozone Park N.Y. 11417

Submitted To: Petracca & Sons, Inc.

18-02 Petracca Place

Whitestone, N.Y. 11357

SCA Contract No.: C000013929

Tomco Mechanical Corp. Submitted By:

125 State Street

Westbury, New York 11590

Date:

January 9, 2018

Re:

Div. 15/ Sect. 15993-004-02

AIR BALANCING REPORT

HAC CS

an-an Thomson Avenue Long Island City, NY 11101-3045 General Contractor Petracca & Sons, Inc.

> C000013929 by Submittal Coordinator

Plans Desk

To Reviewer

Hua Xiao

Non-Basis of Design

Submittal No. / Review Cycle 15993-004 / 002

SCA - Architecture & Engineering

NET No Exceptions

MCN Make Corrections

RRS Rejected: Revise & Resubm

REJ Rejected: Not Acceptable Submittal Reviewed As: Per Spec / Basis of Design

Design Number 053004

Date Received

01/19/18

Date Sent

Q 1.2R Outdoor Air Delivery Monitoring

Credit is feasible and will be pursued

The requirements of this credit will be achieved through compliance with SCA Design Requirements:

DR 6.2.0 General Overview of HVAC Systems

DR 6.2.1 HVAC Unit Centralization and Coordination

DR 6.2.3 Non-Assembly Spaces (Classrooms, Offices, etc.)

DR 6.2.4 Public Assembly Spaces

DR 6.2.9 Heating and Cooling Design Parameters (Load Calculations)

DR6.2.20 Building Management System/DDC BMS and DDC only Systems

The new central ventilation system (rooftop HVAC units) for the new building will be provided with air flow measuring stations at the outside air intakes in order to measure/monitor the outside air supplied to the school. Data for outside air measurement will be available for verification at the school level through the BMS system schools operating console in the Custodian's office or through the DOE centralized host control station for Automatic Temperature Control of Schools in NYC. The monitoring equipment will be configured to generate an alarm when the conditions (either airflow value or CO2 level) vary by 10% or more from the value expected at design conditions, via the building automation system alarm to the building operator. Monitoring will be in accordance with the following:

FOR MECHANICALLY VENTILATED SPACES

- Monitor carbon dioxide concentrations within all public assembly spaces. For densely occupied non-assembly spaces (those with a design occupant density greater than or equal to 25 people per 1000 sq.ft.) served by a common Central Variable Air Volume System, monitor total outside ventilation airflow. Monitor for carbon dioxide concentrations for all densely occupied non-assembly spaces provided with a decoupled or dedicated ventilation systems. CO2 monitoring locations shall be between 3 feet and 6 feet above the floor.
- Provide a direct outdoor airflow measurement device capable of measuring the minimum outdoor air intake flow with an accuracy of plus or minus 15% of the design minimum outdoor air rate, as defined by ASHRAE 62.1-2007 (with errata but without addenda) for mechanical ventilation systems where 20% or more of the design supply airflow serves non-densely occupied spaces.

Applicable specification sections to be included:

- 15970 Temperature Control System (LonWorks BMS/DDC with School Operating Console)
- 15985 Sequence of operations

Credit is feasible and will be pursued

The construction of the new building will follow the Sheet Metal and Air-Conditioning Contractors National Association (SMACNA) IAQ Guidelines for Occupied Building Under Construction, 2nd Edition 2007, ANSI/SMACNA 008-2008 (Chapter 3). Specification Section S01550 Indoor Air Quality Requirements, requires the development of an Indoor Air Quality Plan. Specification Section S01560 Installation Sequence of Finish Materials requires the Contractor to avoid contamination of absorptive materials.

Applicable specification sections to be included are:

- S01550 Indoor Air Quality Requirements
- S01560 Installation Sequence of Finish Materials

The IAQ Management Plan was implemented to protect the HVAC system during construction, control pollutant sources and interrupt pathways for contamination. Sequence installation of materials to avoid contamination of absorptive materials, such as insulation, carpeting, ceiling tile, and gypsum board. Prior to occupancy and after final validation of the HVAC system and the Building Automation System (BAS), a flush-out was performed.

See attached plan and photos documenting compliance.

Q 2.2R Construction IAQ Management Plan, Before Occupancy

Credit is feasible and will be pursued

Design documents will require the Contractor to follow one of the following alternates for flushing out the building at completion of construction:

After construction ends, but prior to occupancy and with all interior finishes installed, contractor is to install new filtration media and perform a building full flush-out. Supply the total air volume of 14,000 cubic foot of outdoor air per square foot of floor area prior to occupancy maintaining an internal temperature at least 60°F dry bulb and relative humidity no higher than 60%.

If there is not enough time for full flush-out in the construction schedule, the space may be occupied following delivery of a minimum of 3,500 cubic foot of outdoor air per square foot of floor area to the space. Once the school is occupied, it shall be ventilated at a rate of 0.30 cubic feet per minute per square foot of outside air or the design minimum outside air rate, whichever is greatest. During each day of the flush-out period, ventilation shall begin a minimum of three hours prior to occupancy and continue during occupancy and shall continue until a total of 14,000 cubic foot of outside air per square foot of floor area has been delivered to the space. After complying with this requirement, all ventilation systems will operate in normal mode.

The following SCA Standard Specification section will be incorporated in Contract Documents:

- S01550 Indoor Air Quality Requirements

Flush out commenced on 08/31/17 at 8am, after the start-up/testing of the five (5) RTUs was substantially complete. Flushout performed in accordance with the approved IAQ Plan & the contract documents for the required period of time established (19 days).

Attached find the mechanical subcontractor flushout closeout documentation.



CONSTRUCTION INDOOR AIR QUALITY PLAN (IAQ PLAN)

SCA – PS 335 Queens, New York

General Contractor:

Petracca & Sons

Project:

PS 335

Project No.:

LLW #053004



Table of Contents

Table of Contents	
Project Information	Page 2
Executive Summary	Page 2
Intent	Page 3
Requirements	Page 3
Strategy	Page 4
SMACNA Guidelines	Page 4
Installation	Page 13
Closeout	Page 17



Project Information

Project: SCA - PS 335

Queens, New York Project # LLW #053004

General Contractor: Petracca & Sons Contact: Lou Gaudio

CWM Coordinators: Maggie Sciubba (KR) & Lou Gaudio (Petracca)

Project Location: Queens, New York

Project Description: New School Construction

Executive Summary

Plan Goals

The Construction Indoor Air Quality Management Plan (CIAQMP) is designed to implement best practice approaches for managing Indoor Air Quality (IAQ) during and after construction, prior to occupancy. The goal of the CIAQMP is to reduce contamination and pollution of materials by dust, debris or odor, and to reduce the potential of long-term pollution of interior environments by building construction materials. Additionally, the CIAQMP aims to reduce damage and other negative affects from environmental conditions, such as heat/cold, humidity and moisture.

Plan Highlights

The CIAQMP covers procedures for handling and storing materials, protecting work in place, managing potential contaminants through source control, work practices, housekeeping, and scheduling of materials during construction. The plan also addresses the installation of materials, inspection and repair of damaged materials. The plan also addresses procedures required for inspection during construction, project closeout, system start-up, and the indoor air quality prior to building before occupancy.

Construction IAQ Management Plan



Plan Benefits

Utilizing a best practice approach to indoor air quality during construction can greatly contribute to the quality of the building construction and the overall quality of the interior environment of the building in operation. A CIAQMP can reduce damage to materials and reduce damage and harm to materials, equipment and systems already installed. These practices improve the environmental conditions for workers during construction. They also reduce the number and amount of potential contaminants and pollution sources that can have negative effects on the building during and after construction. Proper construction IAQ management 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. These practices reduce the negative effects of water and moisture that damage materials and finished construction, and that directly contribute to the growth of mold and bacteria. Used in conjunction with the specification of low-emitting materials, construction IAQ management controls potential pollution sources, mitigates those sources present in installed materials, and reduces the long-term potential for ongoing pollution of interior environments.

Sequence of Finish Installation

Please reference the project schedule. All items will be delivered, stored and installed with the IAQ plan requirements.

Intent

For the owner to prevent indoor air quality problems resulting from the construction process in order to help sustain the comfort and well being of construction workers and building occupants.

Construction IAQ Management Plan



Requirements

Implement an Indoor Air Quality Management Plan for the construction and preoccupancy phases, as follows:

- 1. During construction, meet or exceed the recommended Control Measures of the Sheet Metal and Air Conditioning Contractors National Association (SMACNA) IAQ Guidelines for Occupied Buildings Under Construction, 2nd edition 2007 Chapter 3.
- 2. Protect stored on-site or installed absorptive materials from moisture damage.
- 3. If air handlers are used during construction, provide filtration media with a Minimum Efficiency Reporting Value (MERV) of 13 at each return air grille, as determined by ASHRAE 52.2-1999. Replace all filtration media immediately prior to occupancy.

Strategy

Implement this IAQ Management Plan to protect the HVAC system during construction, control pollutant sources and interrupt pathways for contamination. Sequence installation of materials to avoid contamination of absorptive materials, such as insulation, carpeting, ceiling tile, and gypsum board. Prior to occupancy and after final validation of the HVAC system and the Building Automation System (BAS), conduct air quality testing.

Submittals:

- 1. Contractor's Construction Indoor Air Quality Management Plan.
- 2. Confirmation on air handling operation during construction.
- 3. Provide six photographs at three different times during the construction period, along with a brief description of the SMACNA approach employed, documenting implementation of the indoor air quality management measures, such as:
 - a. Filtration media installation
 - b. Protection of ducts and onsite stored or installed absorptive materials
- 4. Provide cut sheets of filtration media used during construction and installed immediately prior to air quality testing and also prior to occupancy with MERV



- 13 filters, highlighting the media values. Include a schedule listing when the filtration media is changed during construction.
- 5. Narrative describing any special circumstances or nonstandard approaches taken by the project.

SMACNA Guidelines

Construction of the new imagination Activity Center in New York, New York will conform to the recommended construction approaches of the Sheet Metal and Air Conditioning National Contractors Association (SMACNA) IAQ Guidelines for Occupied Buildings Under Construction, 2nd edition 2007 Chapter 3. The scope includes the handling and protection of materials stored on site, protection of completed work and installed systems, source control of contaminants, and recommended work practices. Highlights of those requirements are as follows:

PROTECTION

HVAC Systems

- HVAC equipment and ductwork shall be protected from contamination by dust, water, construction debris and odors produced by chemical off-gasing of building products and materials.
- Ducts and openings in equipment shall be sealed during all steps of construction.
- Ductwork awaiting installation shall be elevated off the floor and protected by plastic.

The design of each system must be evaluated by the installation contractor to determine major areas of protection and how they may be affected by dust and odor. Refer to manufacturer's recommended installation procedures for additional information on the protection of equipment before, during and after installation.

Coordinate the protection of equipment with ongoing ventilation of building spaces during construction, either by the use of natural ventilation, or mechanical ventilation. Protect installed equipment that is being used to provide construction ventilation by installing high quality filtration, **MERV 13 or better** in all equipment.

Construction IAQ Management Plan



• HVAC Return Side Protection:

The return side of the system by definition is under negative pressure and is capable of drawing in construction dust and odor. Attention must be paid to construction activities, access to environmental conditions, and storage of materials in relation to return vents, return ducts, ceiling plenums, return shafts, VAV plenum intakes, transfer vents, and the air-handler units themselves. The following is mandated:

- The entire system should be shut down during periods of heavy construction or demolition.
- Systems should be isolated from the surrounding environment as much as
 possible to prevent the induction of contaminants and pollutants. This
 includes such things as maintaining all ceiling tiles in place in ceiling plenum
 areas and repairing air handler leaks.
- All return system openings in or immediately adjacent to construction areas should be sealed in plastic.
- When systems are operational during construction, temporary filters, MERV 8 or better should be installed at openings to the return system (e.g. on grills at return air openings). All filters must be frequently maintained and replaced as necessary during construction.
- When systems are operational during construction, the heaviest work areas should be dampered off (or otherwise blocked) if temporary imbalance of the return air system does not create a greater operational problem.
- Mechanical spaces shall not be used to store construction or waste materials.

HVAC Central Filtration:

When systems are operational during construction, consideration should be given to upgrading the filter efficiency of system equipment as long as minimum airflow can be maintained. Where other control options for construction related odors is not deemed effective, consideration should be given to filtration with media such as activated charcoal or potassium permanganate.

Construction IAQ Management Plan



- Central filtration media shall be at minimum, MERV 8 or better as defined in ASHRAE 52.2-1999.
- At least two weeks prior to the completion of construction, after substantial completion of work and prior to occupancy, all filtration media shall be replaced with new media having a MERV 13 as defined in ASHRAE 52.2-1999.

• HVAC Supply Side Protection:

After installation, diffusers, VAV boxes, window units and ducts shall be sealed in plastic for protection prior to operation. All work shall be inspected upon completion and cleaned where needed. If significant dust deposits are observed in the system during construction, some particulate discharge can be expected during start-up. In severe cases, temporary coarse filters should be installed on diffusers during initial system start-up to prevent the spread of dust throughout the building.

• Duct Cleaning:

In the event that excessive dust and debris is observed in the ductwork during installation or prior to systems operation, these ducts and associated equipment shall be cleaned to avoid recontamination of completed work.

Mechanical Rooms:

The mechanical rooms should not be used to store construction or waste materials. Rooms should be kept clean and neat. This is the responsibility of all prime contractors and their subcontractors.

Insulation:

Insulation shall be protected from moisture and water damage. Insulation shall be stored in clean dry areas away from sources of water or moisture, and stored raised off the ground. Damaged insulation shall be immediately removed and replaced with new product.

Construction IAQ Management Plan



Drywall:

Gypsum drywall products shall be protected from moisture and water damage. Materials shall be periodically inspected for signs on moisture contamination and mold. Gypsum drywall products shall be stored in dry areas away from sources of water and moisture and shall be stored on pallets raised off the ground or floor. Damaged gypsum products shall be immediately removed and replaced with new product.

Finish Materials:

New finish materials stored on site and installed as part of construction shall be protected from water, mold, dust and odors produced by chemical off-gassing of other building products and materials. Porous finish materials are particularly susceptible to water dust band odors, and tend to absorb contaminants, which are later released into the finished building. Materials such as carpet, ceiling tiles, fabrics, and wall coverings, or flexible vinyl products should not be delivered or stored onsite until just prior to installation. Once onsite, these materials should be stored in sealed packaging to prevent contamination. Finish products that produce chemical off-gassing should be ventilated and allowed to off-gas prior to installation in an area away from finished construction or other porous materials.

SOURCE CONTROL

The most effective type of pollution control is generally at the source. A variety of options may be available depending on the type of products and materials. Refer to product specifications for specific product requirements related to VOC content and other contaminant sources. Combine source control strategies with other measures to control IAQ contamination and the contamination of materials and products.

Product Substitutions:

In response to IAQ concerns, many manufacturers have formulated lower emitting products that meet performance requirements of contract specifications. Product emissions data is available in the form of MSDS sheets and is readily available from the manufacturers. Cost and performance data for different products needs to be evaluated when considering product substitutions.

Construction IAQ Management Plan



Modifying Construction Equipment and Operation:

The use of certain equipment will need to be restricted in order to meet IAQ objectives. This could involve substituting cleaner equipment, modifying existing equipment to operate cleaner, or simply changing operating procedures. The following is recommended:

- Restrict traffic volume or prohibit idling of motor vehicles where emissions could be drawn into the building construction or occupied areas.
- Switch from diesel fuel to bottled gas for equipment such as generators or fork lifts (note that the emissions are cleaner but still potentially harmful under certain circumstances). The use of electric forklifts and other equipment should be considered where feasible.
- Modify equipment to run on low-sulfur diesel or bio-diesel fuel.
- Cycle equipment off when not needed or in operation.

Changing Work Practices:

Consider work practices that control pollution and contaminants. For some demolition tasks, there may be techniques and procedures that produce less airborne dust and contaminants. Some painting techniques release fewer odors. Some cleaning practices raise less dust and some cleaning products release less odor. Local Exhaust: Pollution sources should be directly exhausted to the outside during construction. This should be accomplished by a portable exhaust fan system vented directly to the outside, or may be done through an exhaust system already installed in the building. Special filtration of the exhaust may be required. Any outside emissions must be in compliance with applicable regulations and should be directed away from air intakes. Where local exhaust is not feasible, localized recirculation of air through a portable air cleaner may be effective. The type of filtration should be compatible with the material or conditions being controlled (e.g. charcoal or potassium permanganate filtration for odors and moderate to high efficiency filtration for dust).

Construction IAQ Management Plan



Cover or Seal:

VOC emissions resulting from the evaporation of chemicals from exposed surfaces should be reduced. Containers of wet products should be kept closed as much as possible. Enclosed tankers are preferable to open kettles for roofing. Waste materials that can release odors from chemical off gassing should be covered or sealed. Materials and surfaces with a persistent odor source should be controlled with a sealer.

PATHWAY INTERRUPTION

Practical methods are available to prevent air movement and the movement of contaminants from work areas to other areas of building construction, or occupied areas within the building. Interruption of contaminant pathways is an affective control option. Once major pathways are identified for a given project, the following strategies can be used to achieve environmental control:

Depressurization of The Work Area:

This can be accomplished by adjusting the balance of existing or temporary HVAC and exhaust systems or by installing portable exhaust fans. Some ventilation of the work area will still be required to dilute contaminants, and may be provided by outside air or air drawn from adjoining areas. See comments on "Local Exhaust" section on the previous page for clarification.

As a general rule, the work area should be exhausted at a rate of 10% greater than the rate of supply air in order to maintain effective negative pressure. It is important that the HVAC system remains protected from construction emissions. During depressurization, the RTU return air fan should be turned off to avoid contaminating the supply air.

Pressurize Finished Or Occupied Space:

Increasing the supply air in areas of finished construction or in occupied spaces will help exclude airborne dust and odors. Consideration should be given to extending the fan schedule to provide overnight pressurization in systems programmed to shut

Construction IAQ Management Plan



down at night. Temporary rebalancing during construction should be carefully planned and executed.

Erect Barriers to Contain Construction:

Barriers can range from simple dust barriers to a continuous plastic seal around the construction area, with only a controlled inflow of make-up air and dedicated exhaust. The extent of the barrier should be based on the type of construction activity and materials involved. Attention should be given to openings in the work area, such as return air vents, open wall cavities, or penetrations in walls and floors.

Solid barriers should control materials and procedures that generate high levels of dust. Materials and procedures that generate odors and chemical off gassing should be controlled by local exhaust. If the release is not considered a hazard, it can be controlled through regular housekeeping practices.

In general, full containment of the work area with barriers, capping of return air ducts, and the application of negative pressure is recommended for spaces adjacent to finished construction or occupied spaces.

Relocate Pollutant Sources:

When project equipment or staging areas coincide with critical airflow pathways, IAQ problems are likely to occur. Equipment should be moved to a more favorable location in regard to air quality. Work on equipment or materials prior to final installation that is a source of contamination should be done in areas away from finished construction and critical airflow pathways where possible. Construction products and waste materials should be stored in areas away from critical airflow pathways and away from air handling equipment.

Temporarily Seal the Building:

Where construction activities generate emissions occur adjacent to the building or areas of finished construction, contaminants may be drawn in through outside air intakes or other points of entry. If contaminant levels are unacceptable and there is no

Construction IAQ Management Plan



better solution, such as source control, temporary relocation of intakes, or rescheduling, then sealing of intake dampers may be necessary. This approach should not be weighed against worker comfort and well-being within the work area and any regulatory requirements for ventilation and comfort. Construction activities that require dilution of interior construction emissions may need to be temporarily discontinued or rescheduled. Other points of entry to consider when sealing the building include exterior doors, windows, top of elevator shafts, etc.

HOUSEKEEPING

Housekeeping and attention to site cleaning is important to maintaining good indoor air quality during construction. Dust accumulated in work areas will become airborne and spread throughout the construction area and areas of finished work. Spills and the excessive application of products containing solvents will increase odors and levels of chemical off gassing. Work areas that are wet or even just damp for more than a day can result in the growth of mold and bacteria.

Dust Control:

Increased frequency of cleaning is the most effective way to control dust. Switch to more efficient dust collection methods such as damp rag, wet mop or vacuums equipped with high efficiency particulate filters or wet scrubbers. Ensure that all surfaces and equipment are kept clean (including the inside of mechanical equipment).

Spill Control:

Remove excess applications of solvent containing products as soon as possible. Select non-toxic and low- emitting spot removers and cleaning agents, especially around occupied areas. Provide sufficient ventilation when using spot removers and cleaning agents. If possible, use products after hours.

Cleaning Materials:

Materials used for general cleaning and for preparation of surfaces for construction should be non-toxic and low-emitting. Where low-emitting products or materials are

Construction IAQ Management Plan



not available or do not perform as required, then special precaution must be taken to protect workers and materials. Direct exhaust of the workspace to the outside, and high ventilation rates should be used to remove chemicals and odors from the workspace.

HVAC Equipment Cleaning:

Prior to system start-up and final testing and balancing, inspect and clean all HVAC coils and fans.

SCHEDULING

Scheduling and sequencing of work is an important aspect of control of contaminants and pollutants. The sequence of construction activities and work within the building, the scheduling of material delivery and storage time for materials, and the scheduling of periods for work area ventilation, and curing all can help mitigate construction IAQ problems.

Sequence of Work:

Schedule the sequence of work to avoid contamination of completed work. Isolate areas of completed work and sequence work activities to avoid completed work areas or occupied spaces. Isolate areas adjacent to current work areas. To the greatest extent possible complete the application of wet materials with high short-term emissions of VOCs, formaldehyde, particulates, or other air-borne compounds that require curing and drying time, and of odorous materials that off-gas prior to the installation of porous and finish materials such as ceiling tiles, carpet, acoustic wall panels, fabric and furnishings.

Scheduling of Materials:

Schedule materials to be delivered to the site just prior to installation. Prevent materials from being stored for extended periods in or adjacent to work areas where they may become contaminated by construction emissions. Schedule deliveries for times when their handling does not expose them to construction emissions.

Construction IAQ Management Plan



Installation

INSTALLING MATERIALS

Materials and finishes that are scheduled to be installed, but emit odor and chemical off gassing should be cured and allowed to off-gas before installation whenever possible. Isolate these materials during this period to reduce the possibility of contamination of finished construction.

Many building related IAQ problems are built in to construction due to improper installation and lack of care. Damaged materials compromise the performance of the building envelope and systems and can be the catalyst for greater IAQ problems after the building is occupied. Damaged materials should not be installed and great care should be taken to inspect for damage and water intrusion as components are installed and sealed in the finished construction.

Manufacturer's Recommendations:

Follow manufacturer's recommendations for installation on materials. Note handling, storage and safety requirements of products to be installed. Familiarize workers with proper installation and handling procedures. Follow recommended industry standards for placement or spacing of materials to prevent moisture intrusion.

Environmental Conditions:

Maintain proper environmental conditions with regard to temperature and relative humidity for work being performed and while work is aged or cured. Protect other material as necessary during aging and curing periods. Install materials only when manufacturer's recommended environmental conditions can be met. Provide temporary heat as necessary in work areas. Maintain temperature and humidity thresholds for the required period after installation. Provide dehumidification in work areas as necessary. Allow for proper curing and drying times for all materials.

Construction IAQ Management Plan



INSTALLED WORK

Protection of Installed Work: Protect all installed work from dust, dirt, water, moisture, mold and odor from chemical off gassing of materials. Isolate and seal areas of completed work. Protect porous and wet materials. Cap and seal ductwork and openings in air-handling equipment. Cap and seal all pipes and plumbing. Protect installed equipment and fixtures from moisture and dust.

INSPECTION

Ongoing inspection of completed work and work in progress is critical to good construction IAQ management. A regular schedule of daily, weekly and monthly inspections and documentation should be incorporated into the contractors schedule and recorded vas part of the project record documents.

Daily Inspection of Installed Materials:

On a daily basis, inspect all installed materials and completed work for sign of contamination by water, dust, or other construction emissions. The jobsite supervisor should take these actions to help reduce the potential for damaged materials and work in place:

- Inspect the work at the beginning of each day for dust, dirt, water intrusion or mold. IAO Management Plan Page 12 of 18
- Respond to problems identified during inspection or reported by workers and make sure they are resolved before additional work is performed and problems are sealed into finished construction.
- Inspect work areas at the end of shift to make certain that protective measures are in place and that work areas are secure from environmental conditions.

Weekly Inspection of Stored Materials and Storage Areas:

On a weekly basis material storage and staging areas should be inspected for environmental conditions and evidence of damage to materials stored. Maintain minimum temperatures during cold weather construction and monitor humidity levels

Construction IAQ Management Plan



during hot weather construction. The following is recommended on a weekly basis:

- Inspect material storage areas for adverse conditions and evidence of damage.
- Inspect stored materials for evidence of damage.
- Document the condition, temperature and relative humidity as necessary, especially for environmentally sensitive materials.
- Inspect HVAC systems to make sure they are adequately protected and ductwork is closed off.
- Inspect areas of completed work for evidence of damage from water or construction emissions.

Monthly Inspections of Work Areas:

On a monthly basis, all work areas and adjacent occupied areas should be inspected and documented for dust, dirt, and evidence of damage from water and for construction emissions.

REPAIR OF DAMAGE

Materials Damaged by Water:

Sources of water intrusion or excessive moisture build-up must be mitigated immediately:

Drywall or Plaster:

Remove and replace all water damaged drywall and insulation within 24 hours. If longer than 24 hours, or if mold has already begun to grow, contact a professional remediation firm.

Building Insulation:

Remove and dispose of all water damaged loose, batt- and rigid insulation within 24 hours.

Ceiling Tiles:

Remove and dispose of wet ceiling tiles within 24-48 hours of water damage.

Construction IAQ Management Plan



Concrete and CMU:

Scrub water damaged surfaces with a mild detergent followed by a rinse using a solution of 1/4 to 1/2 cup bleach per one gallon of water. Do not follow with a clear water rinse, as it is desirable for the bleach to remain. Dry thoroughly. Use bleach in a well-ventilated area and do not mix bleach with ammonia or other cleaning fluids as hazardous vapors will occur.

Metal Surfaces:

Scrub surfaces with a mild detergent. Dry thoroughly. Do not use a bleach rinse, as bleach may cause corrosion on metal surfaces.

Carpet and Upholstered Furniture:

Carpet and upholstered furniture damaged by steam leaks or potable water should be cleaned, dried and closely monitored for mold growth and odors. Wet carpet and padding should be pulled up and dried quickly, if not it should be removed. Carpet and upholstered furniture damaged by flood, sewage, groundwater or roof leaks should be disposed of immediately.

Hardwood and Laminate Furniture:

If laminate is intact, hardwood and laminate furniture should be cleaned with a solution of 1/4 to 1/2 cup of bleach per one gallon of water, and air-dried. Bleach may damage or fade colors, therefore test the bleach solution in an inconspicuous area before proceeding. If laminate is de-laminated, dispose of furniture.

Particleboard and Composite Wood Products:

Dispose of materials properly in accordance with Construction Waste Management Plan.

Files and Paper:

Dispose of non-essential wet files and paper in accordance with Construction Waste Management Plan. Paper damaged by steam leaks or potable can be dried and

Construction IAQ Management Plan

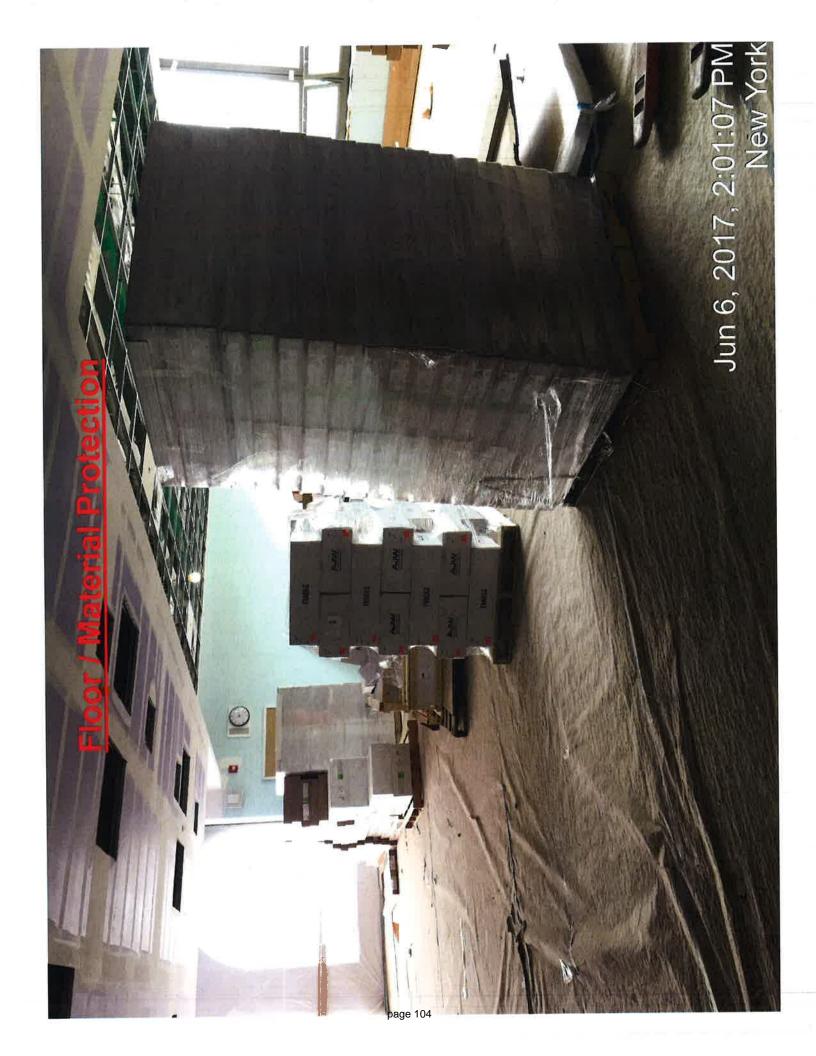


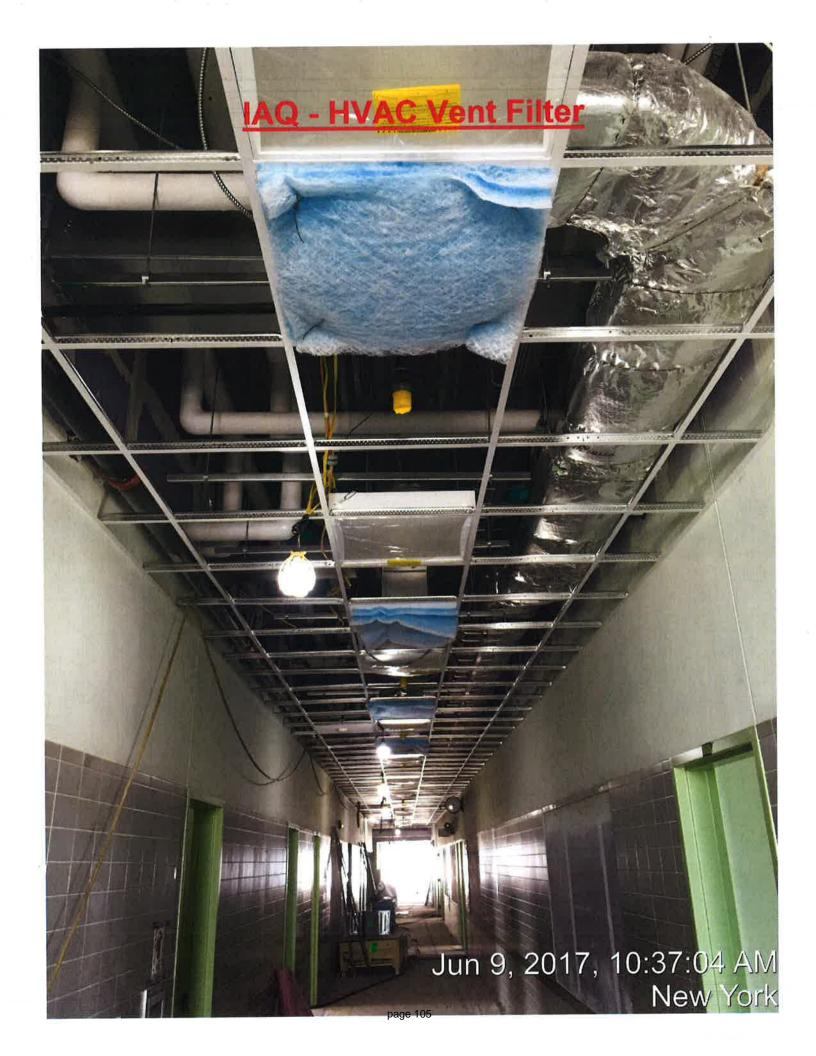
monitored for mold growth and odors. Essential files and paper should be removed to a location where they can be dried, photocopied, and then discarded. If files and paperwork cannot be evaluated within 24-48 hours of water damage, they may be rinsed with clean water and temporarily frozen until proper drying and evaluation can be completed.

Summary of Standards

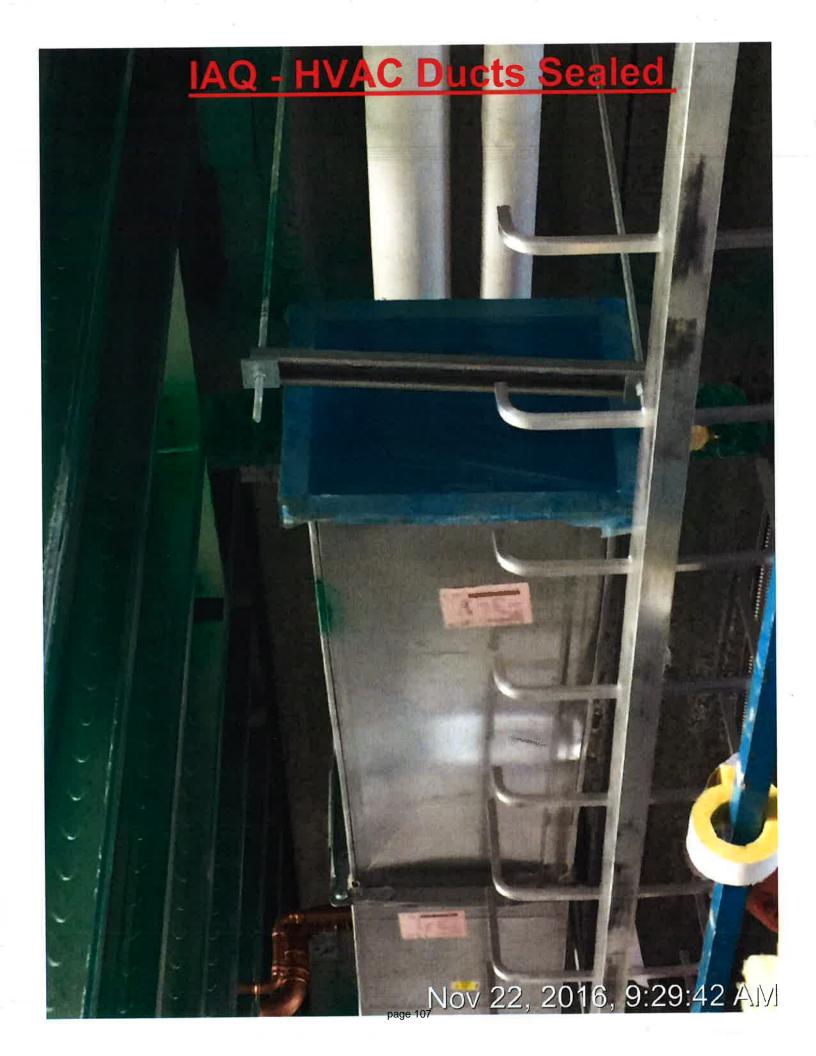
Do not exceed the following standards for indoor air quality. Refer to specific specification requirements for other limits.

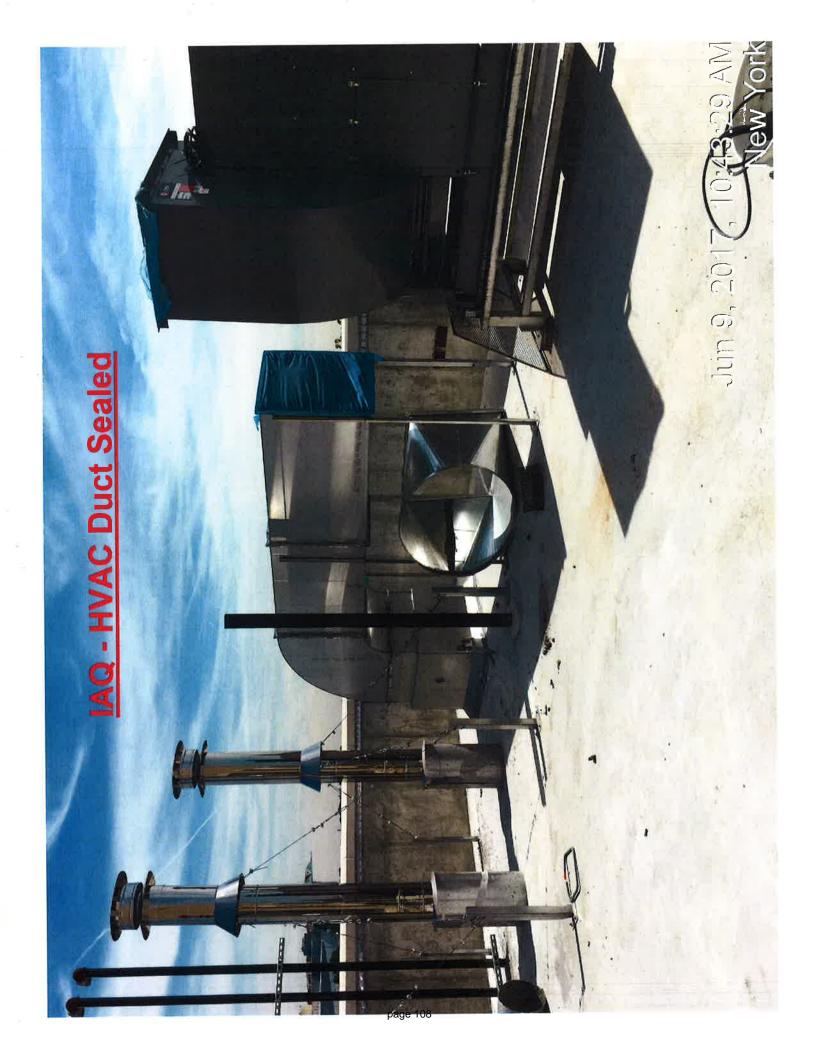
Indoor Contaminants	Allowable Concentration Levels
Carbon Monoxide	<9PPM
Carbon Dioxide	<530 PPM Higher Than Outdoor Ambien Conditions
Airbrone Mold and Mildew	Simultaneous Indoor and Outdoor Readings
Formaldehyde	<20 Micrograms Per Cubic Meter
Total VOC	<200 Micrograms Per Cubic Meter
4-Phenylcyclohexene (4-PC)	<3 Micrograms Per Cubic Meter
Total Particulates (PM)	<20 Micrograms Per Cubic Meter
Regulated Pollutants	<naaqs< td=""></naaqs<>

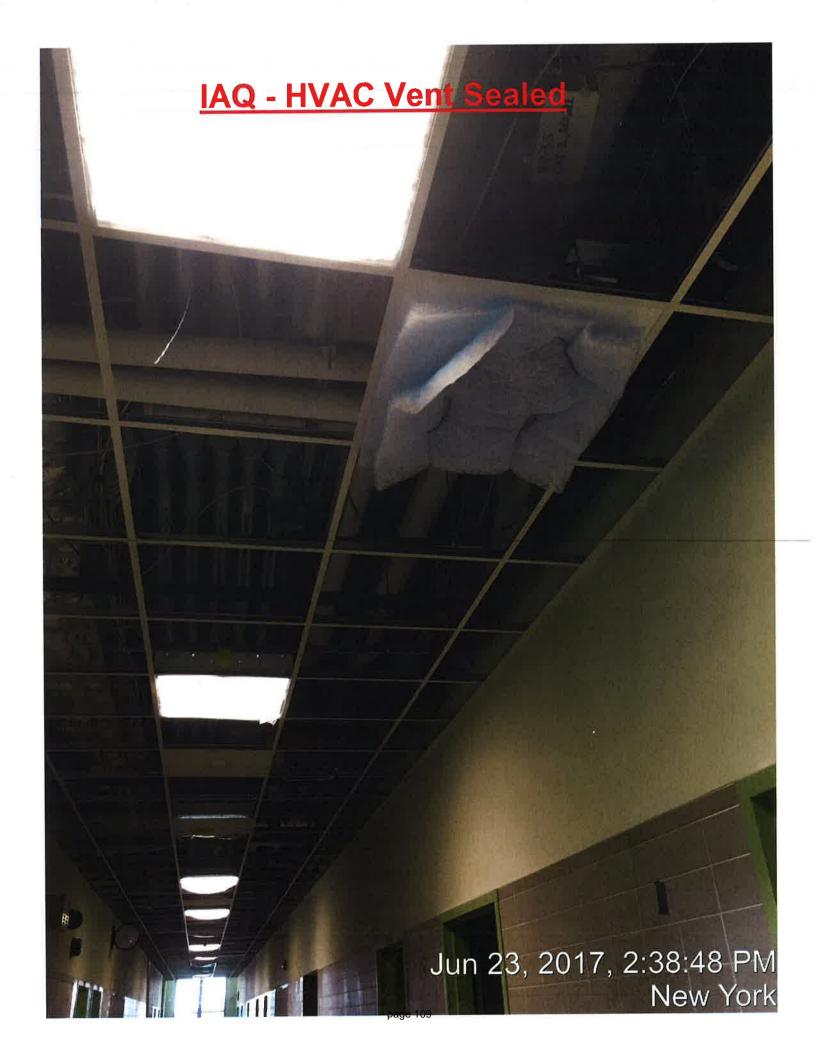


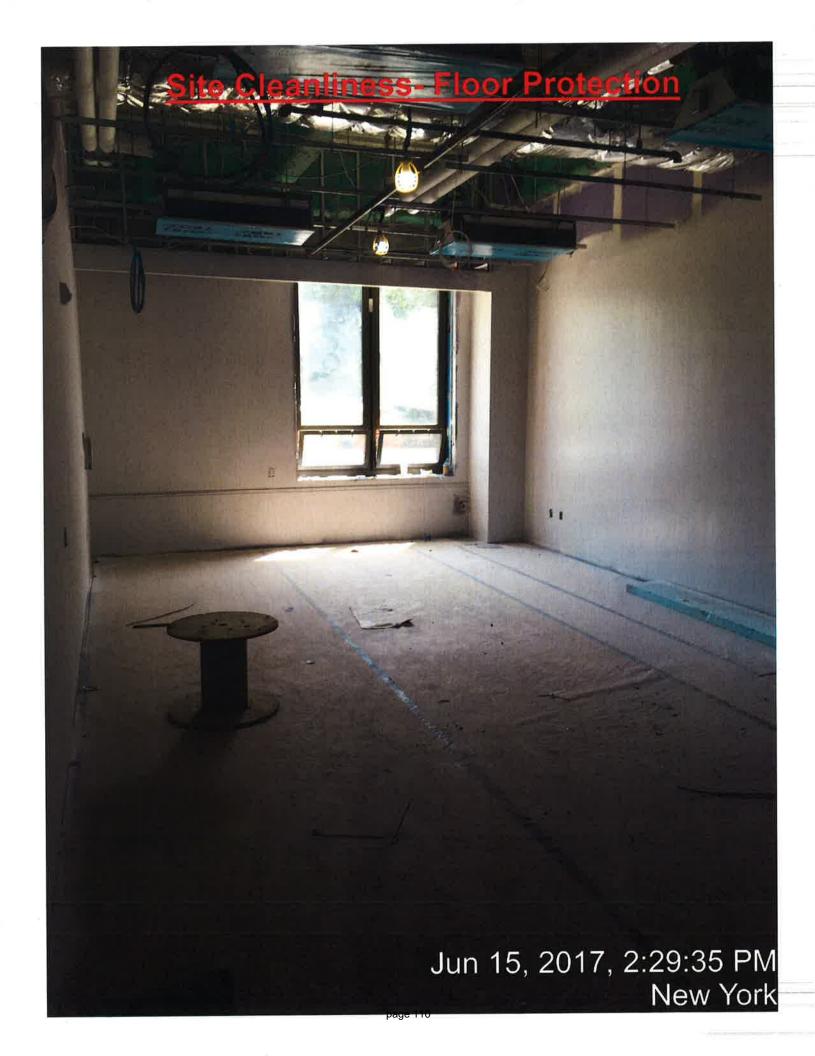


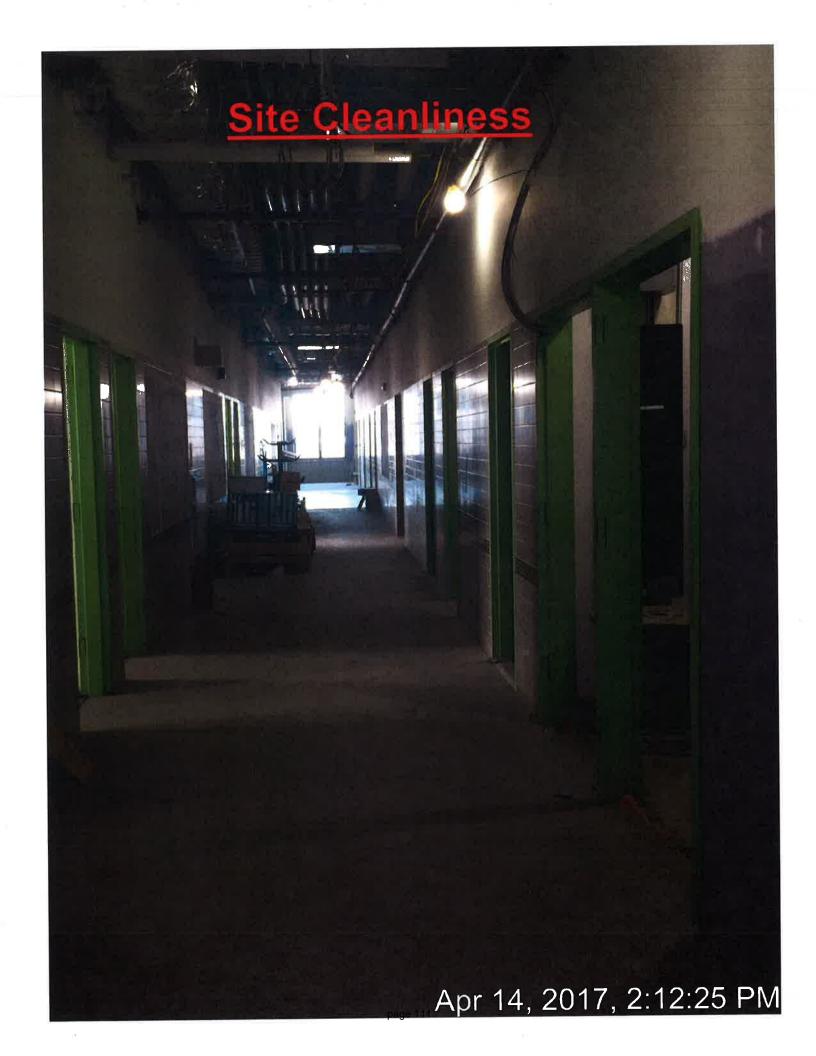


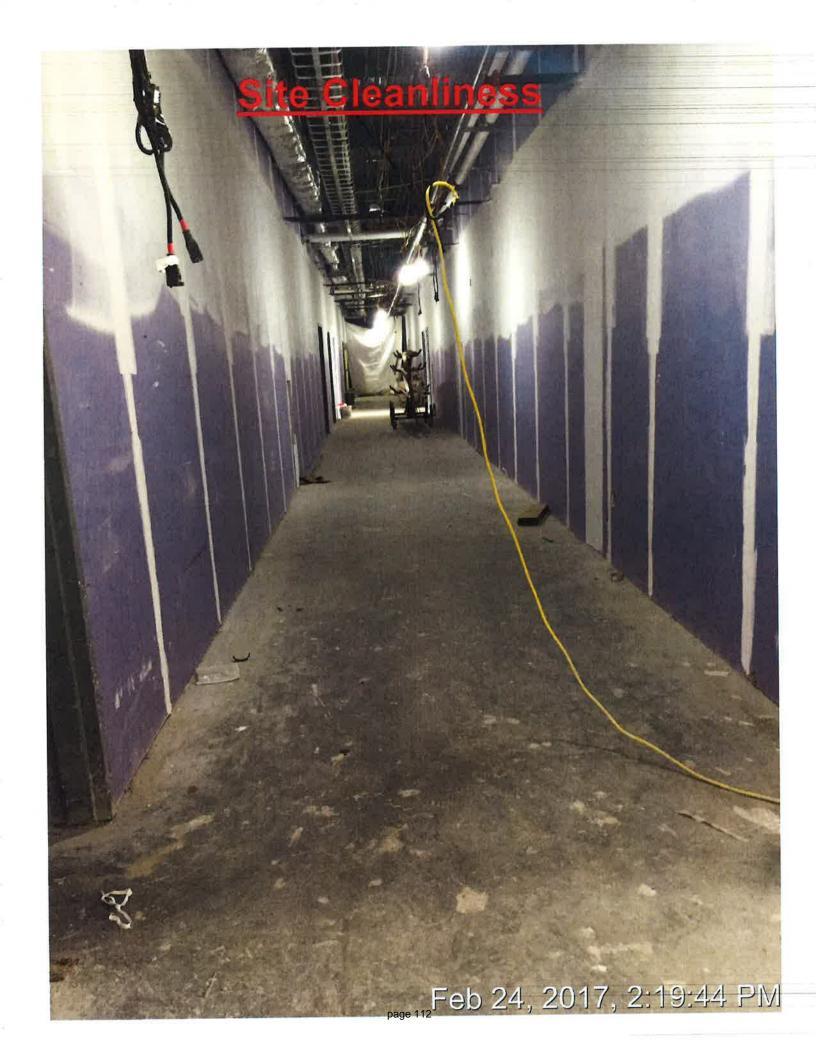


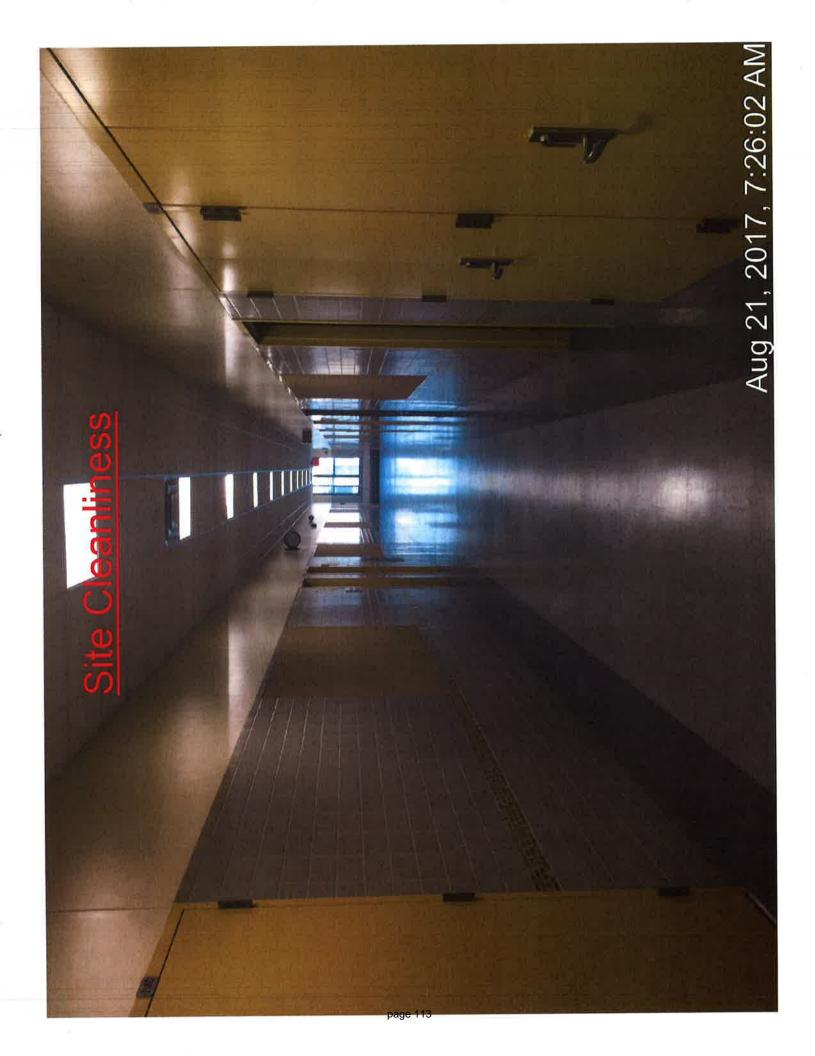














March 1, 2017

Revised: July 27, 2017

P.S. 335

150-15 Raleigh Street, Queens, NY 11417

AIR FLUSH CALCULATION

14000cfsf @ 60 degrees min &

Requirement

60% max humidity

This project will be pursuing to a Before Occupancy flushout broken into two segments since occupancy is desired prior to finishing the flushout.

In order to accomplish this the following flushout calculations must be followed:

Prior to the occupancy:

<u>sf per bldg</u>		<u>cf required</u>		total CFSF required		
76,064.00		3,500.00		266,224,000		
CFM (ea)	# of fans 1.00	<u>CFM</u> 38812	<u>Minutes</u> 6859	24 hr - Days 5	<u>8 hr -</u> <u>days</u> 14	



Once occupancy then the following calculation must be followed:

st per bldg 76,064.00		<u>cr required</u> 14,000.00		1,064,896,000		
<u>CFM (ea)</u> 11,644	# of fans 1.00	<u>CFM</u> 11,644	<u>Minutes</u> 91,454	24 hr - Days 64	8 hr - days 191	

BMS system will not be used. The humidity (not to go above 60%) and temperature (not to go below 60 degrees) will be manually set by Tomco Mechanical Corp. On the first day of flushout, all filters will be checked and logged in. On a weekly basis the filters will be checked and if they need to be changed then filter information will be noted and pictures will be taken. If no filter change is necessary, then pictures will be taken to demonstrate. The delivery rates, humidity and temperature will be monitored and recorded on a daily basis to verify that they are being kept at the prescribed minimums and maximums. Periodic photos will serve as backup documentation.

On the none occupancy flushout days, the systems will run at 100% for 24 hours for 5 days. On the occupied flushout days, ventilation (at 30%) must begin 3 hours prior to occupants arriving on the first day and must continue at this rate for 24 hours for 64 days. The monitoring protocols set above will be maintained during the whole flushout.

Items that will be reported: Dates, Outdoor Air Delivery Rates, Internal Temperature, Internal Humidity Level and Filters

All construction activities must be finished prior to the flushout beginning. Whether the furniture should be in or not is optional.

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-335

September 20, 2016

PS-335 150-15 Raleigh Street Queens, New York 11417

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 each roof top unit #1 thru #5.
- Testing will start on 8/01/17 and run for 456 hours 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-335Q
- Total area of new building is approx. <u>84,000 Sq. Ft.</u>
- The total flush-out requirement for the building is 1,176,000,000 cu. ft. of outdoor air
- The total capacity of all rooftop units exhaust fans is <u>42,600</u> 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	(5) RTU Employed to Exhaust	(Min x Hrs) 60 x 24	Total Cu Ft Exhausted Per Day
84,000	X 14,000	= 1,176,000,000	CFM <u>42,600</u>	X 1,440 minutes	61,344,000

Total Cu. Ft. Flushout Required 1,176,000,000

Flushout X Day 61,344,000

Required Flushout Days 19 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

Presiden)

Date



MECHANICAL CORPORATION

COMMERCIAL-INDUSTRIAL-REFRIGERATION-H.V.A.C.

125 STATE STREET, WESTBURY, NEW YORK 11590 TELEPHONE (516) 546-5700 FAX (516) 546-7521

October 26, 2017

Submitted to: Petracca & Sons, Inc. 18-02 Petracca Place Whitestone, NY 11357

Attn: Mr. Jim Delaney

Project:
PS 335 - Queens
150-15 Raleigh Street
Ozone Park, New York 11417

RE: Building Flush Out

I, Anthony Martinelli, am the Owner/President of Tomco Mechanical Corp. and have been in business for over fifty years. I affirm that Tomco Mechanical has performed the flush Out procedure at PS 335 per specs, manufacturers recommendations, and the attached approved submittal (see attached mechanical reports).

Anthony Martinelli

Date

FRANCESCA MARTINELLI NOTARY PUBLIC-STATE OF NEW YORK

No. 01MA6204724 Qualified in Kings County

	TC	MCO MECHA	NICAL CORP		Tic	ket No.		
TON		State Street stbury, NY 11590		✓ SERVICE	FIRST	oice No.		
		6) 546-5700 FAX		- 65	*			
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#2			A.M. P.M.	Use Only	T Hour	rs @ \$		
#3			A.M. A.M. A.M. P.M. P.M.		T Hour	s @ \$ @ \$		
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MAKE	MERN	13	☐ Case sweating	with tags and product	☐ Iced me	lon bar loaded inco	rectly	
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Custo	TSP F	ROW R PART NO.	PART NAME - D	Print Name	PO NUMBER To stra. The regular	UNIT PRICE Otal Materials Labor Sub Total	e#	
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Ticket No.

		The same				
TON	ACO MECHANIC	AL CORP		Tic	ket No	
	State Street bury, NY 11590		✓ SERVICE	FIRST	nina Na	
	546-5700 FAX (51	6) 546-7521			oice No	
CUSTOMER: PEY	May Con	STORY 15	0-15020	WEPK-QUE	STATE	0.7.
CUSTOMER P.O. #		DAY: MOL	Dry	DATE:	04/18/	17
MECHANIC	START	FINISH	/	HOURS & DIS		
#1JEFF J.	8:00 BAM.	4 - DIKEM.	For Office	T Hour	's @ \$	
#2	□ A.M.	□ A.M.	Use Only	T Hour	rs @ \$	
#3	☐ A.M.	□ A.M.		T Hour	rs @ \$	
Use a Separate Service Ticket For Each Mechanic				Mileage: M	iles @ ¢	
SYSTEM INFO	RMATION	Advised Manager O	F THE FOLLOWING HAZAI		Labor Total:	
0101211111110		Floor drain backing	up I with tags and product		ulation deteriorated schedule case was	
MAKE HERV 1	-3	☐ Case sweating		☐ Iced me	lon bar loaded inco	rrectly
MODEL		Misting system spil	ling water on floor slip mats in front of cases	_	wet and spilling wa	
SER. #		Residual water mus			aking since (Date)	_
		Comments:				
COMPLAINT:			F1 1011 0	Da -	1=1 CM 04 =	Buns
WORK AUTHORIZED B	Y CUSTOMER: (DESC	CRIBE IN DETAIL)	FLUSHO	of price	CEMURE	Cr412
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	1	, , ,				4
QTY TSP PA	RT NO.	PART NAME - C	DESCRIPTION	PO NUMBER	UNIT PRICE	
						<u> </u>
						-

Total Materials Labor

Sub Total

Sales Tax Grand Total

Customer's Signature

Print Name

This service is computed on a portal-to-portal basis and the hourly rate includes truck and tool expenses. Materials used are extra. The regular hourly rate applies between 8:00am and 4:30pm weekdays. All other times, including all day Saturday, Sundays and Holidays will be computed at overtime rates

169798

Self Joseph BHG HECH IMAN

All adhesives and sealants specified in this project will comply with VOC limits established by New York State as well as by rule # 1168 of the South Coast Air Quality Management District (SCAQMD) and the Green Seal Standard for commercial adhesives GS-36 requirements, as listed in the SCA Standard Specification Section G01600 Materials and Equipment.

The following SCA Standard Specification Sections will be incorporated in the Contract Documents:

- G01600 Materials and Equipment
- 07900 Joint Sealants
- 09310 Ceramic Tile
- 09650 Resilient Flooring
- 09680 Carpet
- 15401 Supplemental General Requirements
- 15440 Plumbing Fixtures

See attached calculator which shows all adhesives and sealants installed in this project with VOC contents. All materials complied.

Q 3.2R Low-Emitting Materials, Paints & Coatings

Credit is feasible and will be pursued

All paints and coatings specified in this project will comply with VOC limits established by New York State and the by rule # 1113 of the South Coast Air Quality Management District (SCAQMD) and the Green Seal Standard for GS-11, GS-03 as listed in SCA Standard Specification Section G01600 Materials and Equipment and 0900 Painting Requirements for compliance documentation are found throughout the SCA Standard Specifications.

The following SCA Standard Specification Sections will be incorporated in the Contract Documents:

- G01600 Materials and Equipment
- 09900 Painting

See attached calculator which shows all paints and coatings installed in this project with VOC contents. All materials complied.

0.3.3R Low-Emitting Materials, Flooring Systems

Credit is feasible and will be pursued

All carpet systems specified in this project will comply with VOC limits established by the Carpet and Rug Institute's Green Label Program, as listed in SCA Standard Specification Section G01600 Materials and Equipment. All carpet adhesive shall meet the requirements of Q3.1 VOC limit of 50g/L. All of the hard surface flooring must be certified as compliant with the FloorScore standard (current as of the date of this Rating System, or more stringent version) by an independent third-party. Flooring products covered by FloorScore include vinyl, linoleum, laminate flooring, wood flooring, ceramic flooring, rubber flooring, wall base, and associated sundries.

The following SCA Standard Specification Sections will be incorporated in the Contract Documents:

- G01600 Materials and Equipment
- 09680 Carpet
- 09310 Ceramic Tile

See attached calculator, which shows all flooring installed in this project. All materials complied with either a Floorscore certification or a CRI certification.

Q 3,4R Low-Emitting Materials, Comp Wood & Agrifiber Products

Credit is feasible and will be pursued

Compliance will be achieved by using composite wood and agrifiber products used on the interior of the building that contain no added urea-formaldehyde resins.

For Q3.4R: The SCA Design Standards are:

- SS06100 Rough Carpentry
- SS06200 Finish Carpentry
- SS06410 Custom Casework
- SS08210 Wood Doors
- SS09590 Wood Flooring
- SS10100 Visual Display Boards
- SS12761 Wood Bleachers
- SS10415 Bulletin Boards, Display Boards, Display Cabinets and Cases
- SS10652 Folding Metal Partitions
- SS12302 Manufactured Wood Casework
- SD06200 Finish Carpentry
- SD06410 Custom Casework

See attached calculator, which shows all composite wood, and agrifiber products installed in this project. All materials complied with NAUF.

LOW EMITTING MATERIALS - SUMMARY FORM A (page 1) **Adhesives and Sealants** Credit Q 3.1R

Design #:



Project: Address: PS 335Q

150-15 Raliegh Street

Architect: J. Ricardo

LLW #: Date:

53004 2/16/2018 Preparer: J. Dias
Telephone: X8422

Adhesives			Product's VOC Level	VOC Limit	
Product Use	oduct Use Manufacturer's Name Product Name		[g/L less water]	water]	
Architectural Applications					
Indoor Carpet Adhesives				50	
Carpet Pad Adhesives				50	
Wood Flooring Adhesives				100	
Rubber Floor Adhesives				60	
Subfloor Adhesives				50	
Ceramic Tile Adhesives	Laticrete	255 Multimax	0 g/L	65	
VCT & Asphalt Adhesives	Tarkett	800 Pressue Sensitive Adhe	0 g/L	50	
Drywall & Panel Adhesives				50	
Drywaii a r aner maneemee				50	
Cove Base Adhesives	Mapei	Ultrabond Eco 575	40 g/L	50	
Multipurpose Construction Adhesives				70	
Structural Glazing Adhesives				100	
Resilient Adhesive				50	
Plastic laminate	Wilsonart	Laminate Adhesive 170	0 g/L	50	
Duct liner	Elgen	Water based Adhesive	22 g/L	50	
Specialty Applications					
PVC Welding		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		510	
CPVC Welding				490	
ABS Welding				325	
Plastic Cement Welding				250	
Adhesive Primer for Plastic				550	
Contact Adhesive	PC-3	Smooth on	0 g/L	80	
Special Purpose Contact Adhesive				250	
Structural Wood Member Adhesive				140	
Sheet Applied Rubber Lining Operati	d			850	
Top & Trim Adhesive				250	
			Ţ		

05/01/09

LOW EMITTING MATERIALS - SUMMARY FORM A (page 2) Adhesives and Sealants Credit Q 3.1R



Project:	PS 335Q		Architect: J. Ricardo
Address:	150-15 Raliegh S	treet	Preparer: J. Dias
LLW #:	53004	Design #:	Telephone:
Date:	2/16/2018		

Adhesives	Product's VOC Level [g/L less	VOC LIMIT [g/L less		
Product Use	Manufacturer's Name	Product Name	water]	water]
Architectural Applications				
Substrate Specific Applications				
Metal to Metal				30
Plastic Foams				50
Porous Material (except wood)				50
Wood				30
Fiberglass		75-		80
Substrate Specific Applications				050/)/00- 11
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 VOC	VOC Limit [g/L less	
Product Use	Manufacturer's Name	Product Name	Level [g/L less	water]	
A	Sikasil	WS-295	37	250	
Architectural	USG	Acoustical	15	250	
Acoustical Nonmembrane Roof	030	riodubildar		300	
Roadway				250	
Single-Ply Roof Membrane				450	
Other				420	
Architectural Non Porous				250	
Architectural Porous			PETER TO A	775	
Other Firestopping	Hilti	CP606	71	750	
Firestopping	Hilti	CFS-SP	36	750	
Firestopping	Hilti	FS-ONE	75	750	
				750	

05/01/09

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



Project:	PS 335Q		Architect: J. Ricardo
Address:	150-15 Raliegh	Street	Preparer: J. Dias
LLW #:	53004	Design #:	Telephone:
Date:	2/16/2018		

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			.50 -#	50 - //
Flats	Sherwin Williams	PM 200 Latex Flat	<50 g/L	50 g / L
Block Filler	Sherwin Williams	Preprite Block Filler	<50 g/L	50 g / L
Primer	Sherwin Williams	PM 200 Latex Primer	<50 g/L	50 g / L
Acrylic	Sherwin Williams	Waterborne Acrylic	<50 g/L	50 g / L
Non-Flats	Sherwin Williams	PM 200 Eggshell semi gloss	<50 g/L	150 g / L
TTOTT FIGURE	Sherwin Williams	ProMar 200 semigloss	<50 g/L	150 g / L
	Sherwin Williams	Pro Industrial HP Acrylic	50 g/L	150 g / L
Line paint	Bona Sport* See narative	Courtlines Sport Floor Paint	150 g/L	350 g / L
	O. M. W.	Ceramic carpet#400	100 g/L	100 g / L
Resinous Floor	Sherwin Williams			100 g / L
Resinous Floor	Dex-o-tex	ME Flooring NR	0 g/L	100 g / L
Clear wood finishes			250	250 ~ /
varnish	Bona	Supersport	350	350 g / L
lacquer				550 g / L
Floor coatings				100 g / L
Sealer				
waterproofing sealers				250 g / L
sanding sealers				275 g / L
all other sealers				200 g / L
Stains				250 g / L
Flooring			Type of CRI G	een Label Plus
Product Use	Manufacturer's Name	Product Name	Documentation Attached	
Carpet		Classic Essence	Floor Score	- Manuf. Data
VCT	Tarkett	Classic Essense		- Manuf. Data
VCT Base	Tarkett	VET	Floor-Score	- Mariui, Data
Composite Wood & Agrifibe	er Products		Documentati	on of Lack of
Product Use	Manufacturer's Name	Product Name		ormaldehyde
Interior wood door	Marshfield	Doorsystem		fo attached
Wood Panels				
Millwork	Artone/PureBond/Columbia	PureBond/Columbia		fo attached
MDF	Fiberboard	Fibrex	Product in	fo attached

This project will comply with the requirement of this credit by designing according to following design requirements:

- 1.3.4.1 Entrance and Exits
- 6.2.0 General Overview of Heating Ventilation and Air Conditioning Systems
- 6.2.28 HVAC Design Requirement for special spaces

An entryway foot grille will be provided per Specification Section 12485 at the new main entrances. A storage room for garbage is provided. Janitor's sink closets, Grounds Equipment rooms, General Storage Rooms, and copy rooms will be sufficiently exhausted to create negative air balance with respect to adjacent spaces and will be designed with self closing doors.

The occupied areas will be provided with air filtration media that provides a Minimum Efficiency Reporting Value (MERV) of 13 or better. Filtration will be applied to both return and outside air that is to be delivered as supply air.

The following SCA Standard Specification Sections will be incorporated in the Contract Documents:

- 12485 Foot Grilles
- SS15932 Active Chilled Beams
- SS15933 DOAS Units
- SS15934 Rooftop AHU's For PA Spaces

Q 4.2R Electric Ignition Stoves

Credit is feasible and will be pursued

The convection oven and skillet will be specified with electronic spark ignition. Range with safety-type pilot which shuts off the main gas valve in the event of accidental pilot outage will be utilized.

Project will comply by incorporating the following SCA Standard Specification Sections:

- SS11400 Food Service Equipment
 - SS16722 Carbon Monoxide Detectors
- DR 7.3.13

Q 4.3R Provide HEPA Vacuums

Credit is feasible and will be pursued

The design team will comply with the requirements of this credit by verifying that SCA F & E will include HEPA vacuums in the package of items for this school.

Compliance of this credit is achieved by providing the following:

Provide individual lighting controls for 90% (minimum) of the building occupants in Administrative Offices and other regularly occupied spaces to enable adjustments to suit individual task needs and preferences. Provide lighting system controls for all learning spaces including classrooms, science laboratories, art rooms, music rooms, gymnasium and gymatorium to enable adjustments that meet group needs and preferences. Additionally, during school occupancy, the lighting system in classrooms will have the ability to be dimmed from 100% down to 10% or be dimmed at pre-set dimming percentages. SCA specification sections will be amended accordingly.

- DR 7.2.1 Interior Lighting
 - SS16140 Wiring Devices
- SS16145 Lighting Control Devices

No Credit submittal required for this Phase

Q 5.2R Controllability of Systems, Thermal Comfort

Credit is feasible and will be pursued

This project will comply with the requirements of this credit by providing comfort controls for 50% or more of building occupants in workspaces. This credit will be achieved by following SCA standards for thermal comfort controls by providing controllability at shared group multi-occupancy spaces (i.e., instructional rooms, cafeteria, gyms, and library) and in select office areas. The design will be in accordance with the following design requirements:

- 6.2.0 General Overview of HVAC Systems
 - 6.2.1 HVAC Unit Centralization and Coordination
- 6.2.3 Non-Assembly Spaces (Classrooms, Offices, etc.)
 - 6.2.4 Public Assembly Spaces

All classrooms, offices and assembly areas in the new building will be provided with adjustable individual room sensors for temperature control.

Applicable specification sections to be included are listed below:

- 15970 Temperature Control System (LonWorks BMS/DDC with school operating console)
- 15985 Sequence of operations
- 15985 HVAC Standard Detail Series

This project will comply with the requirements of this credit by designing according to ASHRAE 55-2004 and following design requirements:

- 6.2.0 General Overview of HVAC Systems
- 6.2.1 HVAC Unit Centralization and Coordination
- 6.2.3 Non-Assembly Spaces (Classrooms, Offices, etc.)
- 6.2.4 Public Assembly Spaces
- 6.2.9 Heating and Cooling Design Parameters (Load Calculations)
- 6.2.22 Kitchen Ventilation
- 6.2.28 HVAC Design Requirement for special spaces

Applicable specification sections to be included are listed below:

- 15970 Temperature Control System (LonWorks BMS/DDC with school operating console)
- 15985 Sequence of operations

This credit will be achieved by using windows to achieve a total Day lighting Zone that is at least 75% of all the regularly occupied classrooms by the prescriptive method. The modeling performed by YR&G demonstrates 90% compliance.

This project will comply with the requirements of this credit by designing according to following design requirement:

1.3.1.1 Building Location and Orientation

Applicable specification sections to be included are listed below:

- 08524 Aluminum Projected Windows
 - 08800 Miscellaneous Glazing
- 12501 Chain and Clutch Operated Window Shades

See attached YR&G report dated 11/14/14

No Credit submittal required for this Phase

Q 7.2 Daylight & Views, Daylight 90% of Classrooms

This credit will be achieved by using windows to achieve a total Day lighting Zone that is at least 75% of all the regularly occupied classrooms by the prescriptive method. The modeling performed by YR&G demonstrates 90% compliance.

This project will comply with the requirements of this credit by designing according to following design requirement:

1.3.1.1 Building Location and Orientation

Applicable specification sections to be included are listed below:

- 08524 Aluminum Projected Windows
- 08800 Miscellaneous Glazing
- 12501 Chain and Clutch Operated Window Shades

This credit is feasible

See attached YR&G report dated 11/14/14

Q 7.3 Daylight & Views, Daylight for 75% of Other Spaces

Only 41% of remaining spaces are compliant. See attached report.

This credit is not feasible

Q 7.4 Daylight & Views, Views

Because the building does not have a cellar, 92% of occupied spaces have views conforming to the following SCA Standards and Design Requirements:

1.3.1.1 Building Location and Orientation

The following areas that are not normally occupied will be excluded from consideration:

Mechanical / Circulation / Storage spaces

Currently, the following occupied spaces do not have views due to high or no fenestration:

Changing Room
Gym Instructor's Office
Teacher's mail Room
Nurses' Suite
Guidance Conference Room

Credit is feasible

Q 7.5 Visual Performance, Artificial Indirect Lighting

Credit is feasible and will be pursued

All classrooms shall be provided with pendant mounted **direct/indirect** LED lighting fixtures. The use of this type of lighting fixtures will reduce lighting power density (LPD) and, therefore use less energy while delivering a better quality of light to the space. Typically, the ceiling heights will be a 10 feet. The lighting will be at 8'-6" providing an 18" area for deflection of light.

The following SCA Standard Specifications and Design Requirements will be incorporated:

- 16500 Interior Building Lighting
- 16501 Lamps, Ballasts and Accessories
- DR 7.2.1 Interior Lighting

The construction documents show the lighting layouts and light fixture schedules. Attached to this report are the point lighting levels (photometrics) calculations for typical and non-typical spaces.

Acoustics

The credit will be achieved by complying with all the SCA Design Standards:

The design team includes an Acoustical Consultant Ostergaard Acoustical Associates who will review the design for compliance with LEED for Schools 2009 IEQ PR 3 Minimum Acoustical Performance; ANSI/ASHRAE Standard S12.60-2002 Acoustical Performance Criteria, Design Requirements, and Guidelines for Schools and ASHRAE Handbook Chapter 47 Sound and Vibration Control 2003 HVAC.

The Acoustical Consultant will review the following acoustical performance requirements for classrooms:

- 1 Reverberation time:
- 2. Sound isolation performance of exterior façade construction assemblies
- 3. Sound isolation from exterior noise sources;
- 4. Background noise levels associated with HVAC equipment;
- 5. Interior construction assemblies to meet the required STC rating.
- 6. Isolation from other interior spaces (offices, cafeteria).

On July 2, 2015, the acoustical consultant confirmed compliance with the exception of the Gymatorium ductwork. The SCA will test the installation when completed to verify compliance. If the present design does not comply, the credit will not be pursued.

For Q8.1R: The SCA Design Standards are:

- DR1.3.1.9 Architectural Acoustic Standards
- DR4.2.1 Exterior Masonry Walls
- DR4.3.1 Window Types
- DR5.1.1 Typical Room Finishes
- DR5.2.2 Interior Partitions
- Dr5.3.1 Floor Types
- DR5.4.1 Suspended Ceilings
- DR5.5.1 Interior Doors and Frames
- DR6.2.25 HVAC Acoustical Standards
- SS08524 Aluminum Projected Windows
- SS09260 Gypsum Board Assemblies
- SS09510 Acoustical Ceilings
 - SS15932 Active Chilled Beams
 - SS15933 DOAS Units
 - SS15934 Rooftop AHU's For PA Spaces
- SS15891 Metal Ductwork
- SS15910 Duct Accessories
- SS15993 Balancing of Systems
- SD0926010a Partition Details
- SD0926010b Partition Details

Q 8.2 Enhanced Acoustical Performance & Sound Isolation for Special Spaces

Credit is feasible and will be pursued (60% Submission)

The credit will be achieved by complying with the current SCA Design Standards.

The spaces below the Music Suite will have a Gypsum board ceiling to mitigate transmission of noise. The MER equipment will be on isolators for vibration control. Mechanical equipment will be selected to reduce background noise levels to 45 dBA or less in classrooms and library; 30 dBA in Gymatorium; 40dBa in offices and 50 dBa in corridors. The building shell, classroom partitions and the other core learning space partitions will be designed to meet the Sound Transmission Class (STC) requirements of ANSI Standard S12.60-2002. Windows will meet an STC of at least 35.

On July 2, 2015, the acoustical consultant confirmed compliance with the exception of the Gymatorium ductwork.

This project will comply with the requirements of this credit by designing to the following design requirements:

- DR1.3.1.9 Architectural Acoustic Standards
- DR4.2.1 Exterior Masonry Walls
- DR4.3.1 Window Types
- DR5.1.1 Typical Room Finishes
- DR5.2.2 Interior Partitions
- DR5.3.1 Floor Types
- DR5.5.1 Interior Doors and Frames
- DR6.2.25 HVAC Acoustical Standards

Applicable Specification Sections to be included are listed below:

- SS08524 Aluminum Projected Windows
- SS09260 Gypsum Board Assemblies
- SS09510 Acoustical Ceilings

Applicable Specification Sections to be included are listed below:

- 0926010a Partition Details
- 0926010b Partition Details

Q 8.3 Acoustic Windows

This project is close to JFK airport and the Belt parkway. The Acoustical Consultant has advised the design team that acoustical windows are not required (see attached).

This Credit will not be pursued.

Required Support A 1.1R LEED® Accredited Professional Credit is feasible and will be pursued See attached copy of certificate for John Dias. Heat Island Effect, Non-Roof Credit will not be pursued A 2.2 Storm water Design, Quantity Control Credit will not be pursued Optional - Energy Optimize Energy Performance A 3.1 Credit will not be pursued Renewable Energy A 3.2 Credit will not be pursued Optional - IEQ Low-Emitting Materials, Furniture and Furnishings A 5.1 Credit will not be pursued A 5.2 Low-Emitting Materials, Ceiling and Wall Systems Credit will not be pursued Optional - Education A 6.1 The School Building as a Teaching Tool

Page 51 of 51

Credit will not be pursued

Additional Credits

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

PS3350

Address: 50-51 98th Street, Corona, NY 11368 LLW:53004 Date: May 17, 2016

> SS. **School Construction Authority** NYC Green Schools Rating System

Contractor: J&A Concrete Corp

Contractor Contact: Jonathan Martins

Spec Section: 03200 Telephone: (631) 567-5959

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			\$19,408.32	Material Cost (no Percentage Labor & Equip.) Post-Consumer* by weight		
			NUCOR Corp.	Manufacturer		January 2016
			Reinforcing Bars	Product Name		

- * 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 reused in the same manufacturing process from which they are recovered are not considered Pre-Consumer Recycled Content.) 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
- 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.)

- 1 Recycled content for concrete provide cost for cementitious materials and percentage of cementitious materials that are recycled-content.
- 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.
- 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:

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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: May 17, 2016

ial information

This form may be downloaded from SCA web site

page 138

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

PS335Q

Address: 50-51 98th Street, Corona, NY 11368 LLW: 53004 Date: May 17, 2016

> SCA School Construction Authority NYC Green Schools Rating System

Contractor Contact: Jonathan Martins Contractor: J&A Concrete Corp

Spec Section: 03200

Telephone: (631) 567-5959

	February 2016						
			Recycled Content	Content		Regional*** Materials	
Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Material Cost (no Percentage Labor & Equip.) 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	NUCOR Corp.	\$18,610.27	82.50%	16.90%	100.00%	273 -miles	273 -miles
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							miles
							miles
							miles

- 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 reused in the same manufacturing process from which they are recovered are not considered Pre-Consumer Recycled Content.) 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
- *** 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.)

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

Contractor Certification:

nathan Martins
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authorized re
presentative of
J&A
Concrete 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:

05/01/09

Date: May 17, 2016

This form may be downloaded from SCA web site

page 139

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

March 2016	LLW:53004 Date: May 17, 2016	Address: 50-51 98th Street, Corona, NY 11368	Project: PS3350	
	Spec Section: 03200	Contractor Contact: Jonathan Martins	Contractor: J&A Concrete Corp	
	Telephone: (631) 567-5959		ğ	NYC Green Schools Rati

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273 -mile	273 -miles	100.00%	16.90%	82.50%	\$76,115.98	NUCOR Corp.	Reinforcing Bars
Distance between project site and manufacture site	Distance between project site and extraction site	1, 1, 0	Percentage Pre- Consumer** by weight	Percentage Post-Consumer* by weight	Material Cost (no Percentage Labor & Equip.) Post-Consumer*	Manufacturer	Product Name
	Regional*** Materials		Content	Recycled Content			

- Post-Consumer Recycled Content: Material or finshed product that has served its intention consu
- 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.
- 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:

herein is an accurate representation of the material qualification	I, Jonathan Martins a duly authorized representative of
as provided, as components of the final building construction	J&A Concrete Corp hereby
n. Furthermore,	/ certify that the material information

i understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Date: May 17, 2016

This form may be downloaded from SCA web site

2

05/01/09

Signature of Authorized Representative:

CONTRACTOR'S SUSTAINABLE MATERIALS FORM Credit M 2:1R, M 2:2, M2:3R and M2:4

SCA School Construction Authority
NVC Green Schools Rating System

Project: PS335 Q
Address: 150-15 Raieigh Street, Queens, NY 11417
LLW:53004 Date: June 7, 2016

Contractor Contact: Jonathan Martins

Spec Section: 03200 Telephone: (631) 567-5959

Contractor: J&A Concrete Corp

Reinforcing Bars Product Name April 2016 NUCOR Corp. Manufacturer Material Cost (no Labor & Equip.) \$900.00 Percentage Post-Consumer* by weight 82.50% Recycled Content Consumer**
by weight
16.90% Percentage P Percentage
Regionally
Extracted***
by weight
100.00% Regional*** Materials Distance between project site and Distance between project site and manufacture site

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 reused in the same manufacturing process from which they are recovered are not considered Pre-Consumer Recycled Content.) 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
- *** 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:

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

Contractor Certification:

in is an accurate re	onathan Martins
presentation of the material qualification	a duty authorized representative of
is provided, as components of the final building	J&A Concrete Corp
construction.	hereby c
Furthermore,	pertify that the material Information

I understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner

Date: June 7, 2016

This form may be downloaded from SCA web site

Signature of Authorized Representative:

05/01/09



March 11, 2014

To: All Nucor Customers

Re: 2013 Recycled Content of Nucor Steel Products



Nucor Corporation is the nation's largest recycler, using over 19 million tons of scrap steel in 2013 to create new products. Nucor uses Electric Arc Furnace (EAF) technology at all of its steel recycling facilities. EAFs use post-consumer scrap steel material as the major feedstock, unlike blast furnace operations that use mined iron ore as the major feedstock. Nucor has prepared the following information to help calculate the recycled content for products being used in "Green Building" applications or for projects in the LEED® program. These percentages are approximate and are based on the total weight of the products. The calculations are based on 2013 scrap steel delivered and finished materials produced and are defined in accordance with ISO 14021:1999. More specific product information may be available from facility representatives.

Recycled Content - LEED Version 2.2 Credits 4.1 & 4.2 and LEED V 3 Credit 4

2013 Recycled Steel Content (% by Total W	
Product Group	Average Recycled Content
Nucor Bar Products	99.4%
Nucor Beam Products (and Nucor Castrip® Arkansas, LLC's sheet products)	82.9%
Nucor Plate Products	77.6%
Nucor Sheet Products	77.1%
Nucor Castrip® Crawfordsville, IN	91.2%
Total Nucor Steel Combined	90.7%
Vulcraft Structural Products	99.4%
Vulcraft Decking	77.1%
Nucor Building Group	90.7%
Nucor Fastener Products	99.4%
Nucor Wire Products	99.4%
Nucor Cold Finish	99.4%

<u>Regional Materials</u> – LEED Version 2.2 Credits 5.1 & 5.2 and LEED Version 3 Credit 5 Nucor tracks the origin of scrap shipments to our mills. Nucor can approximate the amount of scrap extracted from any project site region. Nucor owns steel and steel products manufacturing facilities throughout the US that are often within 500 miles of the project site. Please refer to the LEED Contact List (www.nucor.com/responsibility/cnvironment/leed, then click on "Nucor Regional Material Contacts"), and contact the specific Nucor representative at the facility directly.



Bar Mill Group - Darlington, SC; Norfolk, NE; Jewett, TX; Plymouth, UT; Auburn, NY; Birmingham, AL; Kankakee, H.: Jackson, MS: Seattle, WA; Marion, OH; Memphis, TN, Kingman, AZ

2013 Approx	imate Recycled	Steel Content Of	All Nucor Bar Mill G	roup Products(*)
Facility	Total Scrap Steel Used	Total Alloys and Other Iron Units	Total Post-consumer Recycled Content	Total Pre-consumer/ Post-industrial Recycled Content
All	99.4%	0.6%	82.5%	16.9%

The Nucor Bar Mill Group produces rebar, angles, flats, rounds and other miscellaneous shapes. The bar mill group uses recycled scrap steel for 99.4% of the feedstock.

Sheet Mill Group - Crawfordsville, IN: Hickman, AR: Huger, SC; Decatur, AL

2013 Approxim	nate Recycled	Steel Content Of	Nucor Sheet Mill Gr	oup Products(*)
Facility	Total Scrap Steel Used	Total Alloys and Other Iron Units	Total Post Consumer Recycled Content	Total Pre-consumer/ Post-industrial Recycled Content
Crawfordsville, IN	95.6%	4.4%	79.4%	16.3%
Nucor Castrip® Crawfordsville, IN	91.2%	8.8%	75.7%	15.5%
Hickman, AR	72.0%	28.0%	59.8%	12.2%
Berkeley, SC	66.7%	33.3%	55.3%	11.3%
Decatur, AL	73.9%	26.1%	61.3%	12.6%

The Nucor Sheet Mill Group produces hot band, cold rolled, pickled and galvanized products. Nucor Sheet mills use varying amounts of recycled materials depending on metallurgical product demands and market conditions. The combined sheet mill total recycled content is approximately 77.1%.

Beam Group - Blytheville, AR; Huger, SC

2013 Ap	proximate R	ecycled Steel Con	tent of Beam Mill Pro	oducts(*)
Facility	Total Scrap Steel Used	Total Alloys and Other Iron Units	Total Post Consumer Recycled Content	Total Pre-consumer/ Post-industrial Recycled Content
Nucor Yamato Steel, Blytheville, AR and Nucor Castrip Arkansas, LLC	99.9%	0.1%	83.0%	17.0%
Nucor Berkeley, Huger, SC	65.8%	34.2%	54.6%	11.2%

Nucor Beam mills produce narrow and wide flange structural beams. Nucor Yamato uses approximately 99.9% scrap steel for their feedstock. Nucor Castrip Arkansas, LLC uses steel melted at Nucor Yamato and products would be equivalent. Nucor Steel Berkeley uses a higher percentage of non-scrap iron due to metallurgical product demands for sheet steel produced using the same EAF's. The combined beam mill recycled content is approximately 82.9%.

Plate Group - Hertford County, NC; Tuscaloosa, AL

2013 Ap	proximate R	ecycled Steel Con	tent of Plate Mill Pro	ducts ^(*)
Facility	Total Scrap Steel Used	Total Alloys and Other Iron Units	Total Post Consumer Recycled Content	Total Pre-consumer/ Post-industrial Recycled Content
Hertford County, NC	85.1%	14.9%	70.6%	14.5%
Tuscaloosa, AL	70.0%	30.0%	58.1%	11.9%

The Nucor Plate combined recycled content by weight is approximately 77.6%.

^(*) Studies show that the recycled steel used for Nucor products consists of approximately 83% post-consumer scrap The remaining 17% typically consists of pre-consumer scrap generated by manufacturing processes.



<u>Vulcraft Group</u> - Florence, SC; Norfolk, NE; Brigham City, UT; Grapeland, TX; St. Joe, IN; Fort Payne, AL; Chemung, NY; Verco Decking, Inc. - Phoenix, AZ; Fontana, CA; Antioch, CA

Joists - The bar steel for Vulcraft joists is typically obtained from one of the eleven Nucor bar mills. That would mean that the average recycled content percentage for the Vulcraft group is 99.4%. The post consumer and pre consumer recycled content have been calculated to be approximately 82.5% and 16.9% respectively.

Deck – Steel for decking produced by Vulcraft facilities is typically obtained from one of the four Nucor sheet mills. That would mean that the Vulcraft deck products contain approximately 77.1% recycled steel. The post and pre consumer recycled content were calculated to be approximately 64.0% and 13.1% respectively. Verco Decking, Inc. may obtain steel from sources outside of Nucor that may contain lower amounts of recycled content; specific product information regarding Verco Decking, Inc. is available from facility representatives.

Products Group -

- Nucor Building Group --
 - O Swansea, SC; Waterloo, IN; Terrell, TX; Brigham City, UT;
 - O American Buildings Company Eufaula, AL; La Crosse, VA; Carson City, NV; El Paso, IL;
 - Kirby Building Systems Portland, TN;
 - Gulf States Manufacturer Starkville, MS;
 - CBC Steel Lathrop, CA;
- Nucor Fastener St. Joe IN
- LMP Steel Maryville, MO;
- Nucor Cold Finish Milwaukee, WI; Darlington, SC; Brigham City, UT; Norfolk, NE
- Nucor Steel Kingman, LLC

Nucor Building Group (Including American Buildings Company, Kirby Building Systems, Gulf States Manufacturer, and CBC Steel) – Nucor Building Group products may contain steel from all of the Nucor steel mills or obtain steel from outside of Nucor Corporation for their sheet, plate, bar and beam steel needs. The Nucor Building Systems, when using Nucor steel, contains an average of 90.7% total recycled content. The post and pre consumer recycled content was 69.9% and 14.3% respectively.

Nucor Fastener – Steel for Nucor fasteners is typically obtained from Nucor bar mills that use scrap steel as their feedstock. Some fasteners may contain high percentages of alloys that may reduce the total recycled content of the products, but Nucor Fastener products typically contain 99.4% recycled materials. That would mean that the post and pre consumer recycled content would be approximately 82.5% and 16.9% respectively.

Nucor Connecticut, LMP Steel – Steel for wire is typically obtained from a Nucor bar mill that uses scrap as the feedstock. Nucor wire products, when using Nucor bar steel, would contain an average 99.4% recycled steel. The post and pre consumer recycled content was calculated to be approximately 82.5% and 16.9% respectively.

Nucor Cold Finish – Steel processed at Nucor Cold Finish is typically obtained from Nucor bar mills. The Nucor Cold Finish, when using Nucor steel, would contain an average amount of 99.4% recycled steel. The post and pre consumer recycled content was calculated to be approximately 82.5% and 16.9% respectively.

Nucor Steel Kingman, LLC – Steel for Nucor Steel Kingman, LLC products is typically obtained from Nucor bar mills that use scrap steel as their feedstock. Nucor Steel Kingman, LLC products would then typically contain 99.4% recycled materials. That would mean that the post and pre consumer recycled content would be approximately 82.5% and 16.9% respectively.

Additional information regarding specific recycled content of Nucor Corporation products group for a customer's specific order is available from facility representatives.

Additional information is available online through the Steel Recycling Institute at http://www.recycle-steel.org.

Page 3 of 3

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

Q.K		Telephone: (631) 567-5959	
Contractor: J&A Concrete Corp	Contractor Contact: Jonathan Martins	Spec Section: 03300	the month of December 15
50	ona, NY 11368	Date: May 13, 2016	4,000psi Conv. 71 cy Poured in the month of December 15
PS3350	Address: 50-51 98th Street, Corona, NY 11368	N: 53004 Date:	
Project: 1	Address: 50	LLW:	

			Recycled Content	Content		Regional Materials	50
Product Name Caste-In-Place Concrete	Manufacturer	Material Cost (no Labor & Equip.)	Percentage Post-Consumer* Cc by weight b	Percentage Pre- Consumer* by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between Distance between project site and project site and extraction site
Cement \$33.45	45 HOLCIM	\$2,375	0	%61	100 %	55 miles	miles
	MOIOH	\$1.583	0	100%	100 %	55 miles	miles
ila	75 CORAM Materials Com	\$1.331	c	O	100%	100 55 miles	miles
Stone 832 25	NOO IL	\$2.290	0	0	100%	45 miles	, mlles
S 5	· [a	\$36	O	c	87%	115 miles	miles
Water Reducer \$2.75	75 BASE	\$195		c	%89	115 miles	i miles

\$110.00

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

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

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

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

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hereby certify that the material information	on. Furthermore,	ie Construction Manager and Owner.
of J&A Concrete Corp heret	, as components of the final	ourchasing period will require prior written approval from t
I, Jonathan Martins a duly authorized representative of	herein is an accurate representation of the material qualifications provided	I understand that any change in such qualifications during the

This form may be downloaded from SCA web site

Date: May 13, 2016

Signature of Authorized Representative:

05/01/09

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

Telephone: (631) 567-5959 Contractor: J&A Concrete Corp Contractor Contact: Jonathan Martins Spec Section: 03300 May 13, 2016 Address: 50-51 98th Street, Corona, NY 11368 PS3350 Date: LLW: 53004

			Recycled Content	Content		Regional*** Materials	aks
Product Name Caste-In-Place Concrete	Manufacturer	Material Cost (no Labor & Equip.)	Perc Post-Co	Percentage Pre- Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between Distance between project site and extraction site imanufacture site
Cement \$33.45	HOLCIM	\$468	0	19%	100%	55 miles	s miles
	22.30 HOLCIM	\$312	0	%001	100%	55 miles	s] Tile
Sand \$18.75	CORAM Materials Corp	\$263	0	0	100%	100% 100 ASS miles	s miles
Stone \$32.25	TILCON	\$452	0	0	100%	45 miles	sellm miles
Air \$0.50	BASE	\$7	0	0	87%	115 miles	selim miles
	BASE	\$39		O	%89	115 miles	s miles

Definitions:

- and disposition. Examples include fiy-ash and synthetic gypsum, because they are waste products from coal burning electricity plants. (Scrap raw materials that can be ** Pre-Consumer Recycled Content: Recovered industrial and manufacturing materials diverted from municipal solid waste for the purpose of collection, recycling 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.)

otes:

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

Contractor Certification:

hereby certify that the material information	final building construction. Furthermore,	ior written approval from the Construction Manager and Owner.
J&A Concrete Corp	s provided, as components of the	thasing period will require pr
a duly authorized representative of	resentation of the material qualifications pro	sange in such qualifications during the pure
I, Jonathan Martins a d	herein is an accurate rep	Understand that any change in

Signature of Authorized Representative:

Date: Mey 13, 2016

This form may be downloaded from SCA web site

05/01/09

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

CONTRACTOR'S SUSTAINABLE MATERIALS FORM Credit M 2.18, M 2.2, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Telephone: (631) 567-5959 Contractor: J&A Concrete Corp Contractor Contact: Jonathan Martins Spec Section: 03300 4,000psi Conv.: 67 cy Poured In the month of February '16 May 13, 2016 Address: 50-51 98th Street, Corona, NY 11368 PS3350 Date: ΞĶ

			Recycled Content	Content		Regional Materials	8	1
Product Name Caste-In-Place Concrete	Manufacturer	Material Cost (no Labor & Equip.)	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	e e
Cement \$33.45	HOI CIM	\$2,241	0	%61	100%	55 miles	10	Files
2	HOLCIM	\$1.494	0	100%	100%	55 miles	10	miles
12	CORAM Materials Corp	\$1.256	0	c	%001	100 x5x miles	OL [miles
	NCOLL	\$2.161	0	0	%001	6 45 miles	10 10	miles
Air \$0.50	BASE	\$34	0	0	%L8	115 mles		10 miles
	BASE	\$184		0	9489	6 115 miles		10 miles

\$110.00

Definitions:

- * Post-Consumer Recycled Content: Material or finshed product that has served its intended consumer use and has been discarded by consumer.
- 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 ** Pre-Consumer Recycled Content: Recovered industrial and manufacturing materials diverted from municipal solid waste for the purpose of collection, recycling 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.)

otes:

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

Contractor Certification:

hereby certify that the material information understand that any change in such qualifications during the purchasing period will require prior written approval from the Construction Manager and Owner. I, Jonathan Martina a duly authorized representative of J&A Concrete Corp an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore,

Signature of Authorized Representative:

05/01/09

Date: May 13, 2016

This form may be downloaded from SCA web site

CONTRACTOR'S SUSTAINABLE MATERIALS FORM Credit M 2.1R, M 2.3, M2.3R and M2.4

SCA School Construction Authority
NYC Green Schools Rating System

Telephone: (631) 567-5959 Contractor: J&A Concrete Corp Contractor Contact: Jonathan Martins Spec Section: 03300 Address: 50-51 98th Street, Corona, NY 11368 Date:

10 miles 10 miles 10 miles Distance between nanufacture site project site and miles 100% 100 XXX miles Regional*** Material 115 miles 115 miles Distance between project site and extraction site श्च 45 100% 87% 100% Regionally Extracted**** 100% Consumer ě Recycled Content Percentage Post-Consumer* by weight 4,000psi Conv.: 1,168 cy Poured in the month of March 116 Material Cost (no Labor & Equip.) \$26,046 \$21,900 \$37,668 \$584 \$3,212 Manufacturer Slag \$22.30 HOLCIM Sand \$18.75 CORAM Materials Corp Stone \$32.25 TILCON Cement \$33.45 HOLCIM Air \$0.50 BASF Water Reducer Product Name Caste-In-Place ILW: Concrete

finitions.

- Post-Consumer Recycled Content: Material or finshed product that has served its intended consumer use and has been discarded by consumer.
- 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 ** Pre-Consumer Recycled Content: Recovered industrial and manufacturing materials diverted from municipal solid waste for the purpose of collection, recycling 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.)

Votes:

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

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f J&A Concrete Co	tions provided	he purchasing
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a duly author	presentation of	hange in such o
I. Jonathan Martins a duly authorized representative of	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

Signature of Authorized Representative:

05/01/09

Date: May 13, 2016

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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

Project: PS335 Q

LW: 53004

SCA School Construction Authority NYC Green Schools Rating System

Contractor: J&A Concrete Corp.

Contractor Contact: Jonathan Martins Date: JUNE 7, 2016 Address: 150-15 Raleigh Street, Queens, NY

Telephone: (631) 567-5959 Spec Section: 03300 4,000psi Conv: 55 cy Poured In the month of April '16

			Recycled Content	Content		Regional*** Materials	
Product Name Caste-In-Place Concrete	Manufacturer	Material Cost (no Labor & Equip.)	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
Cement \$33.45	HOLCIM	\$1.840	0	%61	100%	55 miles	10 mile
Ş	HOLCIM	\$1.227	0	%00I	100%	55 miles	olm 01
Sand \$18.75	CORAM Materials Corp	\$1,031	0	0	%00I	00% 100 XXX miles	10 mile
Stone \$32.25	TILCON	\$1.774	0	0	%00I	45 miles	10 miles
Air \$0.50	BASE	\$28	0	0	81%	115 miles	10 mile
	BASF	\$151	c	0	%89	115 miles	10 miles

Definitions:

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

and disposition. Examples include fiy-ash and synthetic gypsum, because they are waste products from coal burning electricity plants. (Scrap raw materials that can be ** Pre-Consumer Recycled Content: Recovered industrial and manufacturing materials diverted from municipal solid waste for the purpose of collection, recycling 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.)

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

Regional content for concrete - provide combined cost for all concrete materials and distance information requested.

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

Provide back-up documentation for information on form above - such as product data or manufacturer's statements

Contractor Certification:

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. hereby certify that the material information J&A Concrete Corp I, Jonathan Martins a duly authorized representative of

Signature of Authorized Representative:

This form may be downloaded from SCA web site

Date: June 7, 2016

05/01/09

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

Project: PS335 Q

. LLW:

SCA School Construction Authority NYC Green Schools Rating System Telephone: (631) 567-5959 Contractor: J&A Concrete Corp Contractor Contact: Jonathan Martins Spec Section: 03300 Address: 150-15 Raleigh Street, Queens, NY 11417 Date: June 16, 2016

Percentage Per				Recycled Content	Content		Regional*** Materials	S
HOLCIM 5100 0 19% 100% 100% 100C 100% 100C 100% 100 0 100% 100 100% 100 0 100% 100 0 100% 100 0 100% 100 0 100% 100 0 100% 100 0 100% 100 0 100% 100 0 100% 100 0 100% 100 0 0 0	Product Name Caste-In-Place Concrete	Manufacturer	Material Cost (no Labor & Equip.)	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
HOLCIM \$67 0 100% 100% 100% 100% 100% 100 100% 100	Cement \$33	45 HOLCIM	\$100	0	%61	100%	55 miles	10mile
CORAM Materials Corp \$56 0 0 100% 100% TILCON \$97 0 0 100% BASF \$2 0 0 87% BASF 0 0 68%	Slag \$22	30	292	0	%001	100%	55 miles	I TUmiles
TILCON \$97 0 0 100% BASF \$2 0 0 87% BASF 0 0 68%	Sand \$18	75 CORAM Materials Corp	\$56	0	0	100%	100 XXX miles	10 10 miles
BASF \$2 0 0 87% BASF \$8 0 0 68%	Stone \$32	25 TILCON	\$97	0	0	%00I		10 miles
BASF 0 0 68%	Air So	50 BASF	\$2	0	0	87%		I miles
	Water Reducer \$2.	75 BASF	88	c	0	68%		J 10miles

Definitions:

- · Post-Consumer Recycled Content: Material or finshed product that has served its intended consumer use and has been discarded by consumer.
- 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 ** Pre-Consumer Recycled Content: Recovered Industrial and manufacturing materials diverted from municipal solid waste for the purpose of collection, recycling 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.)

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

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hereby certify that the material Information I understand that any change in such qualifications during the purchasing period with Populie prior written approval from the Construction Manager and Owner. herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, J&A Concrete Corp Jonathan Martins a duly authorized representative of

Signature of Authorized Representative:

05/01/09

Date: June 16, 2016

This form may be downloaded from SCA web site

Coram Materials Corp. P.O. Box 5810 Miller Place, NY 11764 (631)924-5703

Sept 1, 2012

Coram Materials Corporation is located at 416 Miller Place Yaphank Rd. in Miller Place, Long Island, New York. We extract, process and manufacture New York State approved concrete sand. Our source # 10-18F. We supply Best Concrete with this sand and we are within 100 miles of Best Concrete's plant.

Sincerely,

Lorraine Vigliarolo



The Chemical Company

May 15, 2013

Pozzollth® 200 N

Product Information Statement for LEED® New Construction (NC) Version 2.2 Credit Documentation

Project Name - Location: Rest Concrete - Queens, New York

Pozzolith 200 N ready-to-use, liquid admixture is used for making more uniform and predictable quality concrete

BASF Corporation certifles the following information for Pozzolith 200 N.

Recycled Content

That Pozzolith 200 N is manufactured with approximately 0.0% post-consumer and 25.4% pre-consumer materials for a combined recycled content of 12.7%. Normal manufacturing variances may result in slight variation in the combined recycled materials content.

Regional Materials

That approximately 68% by weight of Pozzolith 200 N was produced with materials extracted, processed and manufactured at a location within 500 miles from project.

Plant Location:

BASF Allentown, PA Plant Allentown, PA 18106

Based on the above information, BASF Corporation certifies that Pozzolith 200 N will contribute towards the following LEED NC Credits:

MR Credit 4.1: Recycled Content: 10% (post-consumer + ½ pre-consumer)

MR Credit 5.1: Regional Materials: 10% Extracted, Processed & Manufactured Regionally MR Credit 5.2: Regional Materials: 20% Extracted, Processed & Manufactured Regionally MR Credit 5.2: Regional Materials: 20% Extracted, Processed & Manufactured Regionally MR Credit 5.2: Regional Materials: 20% Extracted, Processed & Manufactured Regionally MR Credit 5.1: Regional Materials: 20% Extracted, Processed & Manufactured Regionally MR Credit 5.1: Regional Materials: 20% Extracted, Processed & Manufactured Regionally MR Credit 5.1: Regional Materials: 20% Extracted, Processed & Manufactured Regionally MR Credit 5.1: Regional Materials: 20% Extracted, Processed & Manufactured Regionally MR Credit 5.1: Regional Materials: 20% Extracted, Processed & Manufactured Regionally MR Credit 5.1: Regional Materials: 20% Extracted, Processed & Manufactured Regionally MR Credit 5.1: Regional Materials: 20% Extracted, Processed & Manufactured Regionally MR Credit 5.1: Regional Materials: 20% Extracted, Processed & Manufactured Regionally MR Credit 5.1: Regional Materials: 20% Extracted, Processed & Manufactured Regionally MR Credit 5.1: Regional Materials: 20% Extracted, Processed & Manufactured Regionally MR Credit 5.1: Regional Materials: 20% Extracted, Processed & Manufactured Regional MR Credit 5.1:
Mal E. Van

Mark E. Plechuta

Sr. Technical Marketing Specialist



"LEED" is a trademark of the U.S. Green Building Council

BASF Corporation 23700 Chagrin Boulevard Cleveland, Ohio 44122 USA 216 639-7500 ph www.masterbuilders.com



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

Project: PS 335 (Queens)

Address: 150-15 Raleigh Street, Ozone Park, NY 11417
LLW: 53004 Date: I

Date: May 27, 2016

SCA School Construction Authority NYC Green Schools Rating System

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elding Company Inc. Michael Diffley

Spec Section: 05120 05300 05710 Telephone: 201-939-2284

(2) 10(00%) 在2000 (EECO) (EEC	有种的现在分词的	Site of Marie	Recycled Content			Regional 711 Materia	di Contra di Con
Product Name	Monufacturer	Material Cost (no labor & Equip.)	Percentage Post- Consumer® by weight	Percentage Pre Consumer** by Weight	Percentage Regionally Entracted*** by wraight	Distance between project site and extraction site	Distance between project site and manufacture site
new structural steel	Gerdau	\$ 330,454.00	80%	6%		< 500 miles	19 miles
rave structural steel	Nucor Berkeley	\$ 119,518.00	40%	8%	25%	< 500 miles	19 miles
rave structural steel	Nucor-Yamato	\$ 237,285,00	83%	17%	2%	< 500 miles	19 miles
new structural steel	Steel Dynamics Inc.	\$ 75,998.00	77%	19%	9%	< 500 miles	19 miles
steel deck	Censm	\$ 131,000.00	24%	9%	100%	65 miles	30 miles
						miles	miles
						miles	miles
	-					milea	miles
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Contractor Contact:

- Post-Consumer Recycled Content: Meterial 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 wasts for the purpose of collection, recycling and disposition. Examples include fly-ash and synthetic gyrsum, because they are weste 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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- 1. Recycled content for concrete provide cost for camenatious materials and percentage of camenatious materials that are recycled-con
- 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.
- Regional content for concrete provide consumer uses to all children internals and usable minutes and requested.
 Regional content for materials with varyone point of extraction all within the 500-mile radius list a single item with the greatest distance.
 Provide back-up documentation for information on form above such as product data or manufacturer's statements.

Contractor Certification:

a duly authorized representative of · Welding Company Inc. hereby certify that the material information L Allison M. Weir 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 quelifications during the purchasing period will require prior written approval from the Construction Manager and Owner.

Signature of Authorized Representative Authorized Representative Date: May 27, 201 May 27, 2016

NUCOR STEEL - BERKELEY

PO BOX 2259 Mt. Pleasant, SC 29465



May 27, 2016

To: Nucor Customer

Re: Nucor Scrap Steel Harvest Locations

Dear Potential Customer,

Thank you for using Nucor Steel products. Nucor tracks the harvest location of the scrap steel recycled at each of our steel mills. We have compiled the following data in regards to scrap harvested within 500 miles of your location in Ozone Park, NY 11417.

Location Nucor Steel – Berkeley Huger, SC	Nucor Steel – Berkeley	10/017	1M41 7 0%
Projena Pina). Manahhyundhu	Steel Recycling Afil Lagrina	Percent of Swap Small tracketical within SUD miles of	Person of Wiggin Magaind Barweged Within SCO miles of

All data is approximate totals based on tons of scrap steel received at our steel recycling facilities in 2014. If you have any questions please feel free to contact me at (843) 336-6255.

Sincerely,

Jennifer Hawthorne Environmental Engineer

Nucor-Yamato Steel Co.



Post Office Box 1228, Blytheville, AR 72315

Date: Friday, May 27, 2016

To: Allison Weir

Re: Nucor-Yamato Steel Scrap Steel Harvest Locations

Dear Allison,

Thank you for using Nucor-Yamato's Steel products. Nucor tracks the harvest location of the scrap steel recycled at each of our steel mills. We have compiled the following data in regards to scrap harvested within 500 miles of your site location for Postal Code Area 11417 and or Steel Fabricator/Processor and product specific recycled content in the below table.

Product Mind Manufacturing or Usage/Application Location	Stee Reyseling Will Location or Babileator/Processor	Percent of Serap Steel Harvester within 500 miles of project location	Quantity of Serap Steel Hassested within \$00 miles of project location (tons)	
Job Site: PS 335, 150- 15 Raleigh Street, Ozone Park, NY. 11417	Nucor-Yamato Steel Blytheville, AR.	0.2%	4,076	
Word Swap Steel Used	Ford Alloysand Other Tron Units	Total Post-Consumer Recycled Content	Total Pro- consumer/Post- Industrial Recycles Content	
99.8%	0.2%	82.9%	16.9%	

All data is approximate totals based on 2014 tons of scrap steel received at our steel recycling facilities. If you have any questions please feel free to contact me.

Sincerely,

Fony Hodge

Tony Hodge Environmental Engineer Phone 870-762-7164, Fax 870-763-2019



April 7, 2015

To: All Nucor Customers

Re: 2014 Recycled Content of Nucor Steel Products



Nucor Corporation is North America's largest recycler, using nearly 20 million tons of scrap steel in 2014 to create new products. Nucor uses Electric Arc Furnace (EAF) technology at all of its steel recycling facilities. EAFs use post-consumer scrap steel material as the major feedstock, unlike blast furnace operations that use mined iron ore as the major feedstock. Nucor has prepared the following information to help calculate the recycled content for products being used in "Green Building" applications or for projects in the LEED® program. These percentages are approximate and are based on the total weight of the products. The calculations are based on 2014 scrap steel delivered and hot metal tons produced and are defined in accordance with ISO 14021:2001. More specific product information may be available from facility representatives.

Recycled Content - LEED V 3 Credit 4

2014 Recycled Steel Content of Nucor Products (% by Total Weight)				
Product Group	Average Recycled Content			
Nucor Bar Products	99.8%			
Nucor Beam Products	90.7%			
Nucor Plate Products	80.0%			
Nucor Sheet Products	70.2%			
Nucor Castrip®	96.7%			
Total Nucor Steel Combined	83.1%			
Vulcraft Structural Products	99.8%			
Vulcraft Decking	70.2%			
Nucor Building Group	83.1%			
Nucor Fastener Products	99.8%			
Nucor Wire Products	99.8%			
Nucor Cold Finish	99.8%			

Regional Materials - LEED Version 3 Credit 5

Nucor tracks the origin of scrap shipments to our mills. Nucor can approximate the amount of scrap recovered from any project site region. Nucor owns steel and steel products manufacturing facilities throughout the US that are often within 500 miles of the project site. Please refer to the LEED Contact List (http://nucor.com/responsibility/sustainability/compliance/leed/, then click on "LEED Contact"), and contact the specific Nucor representative at the facility directly.

NUCDR

CORPORATE OFFICE

Bar Mill Group - Darlington, SC; Norfolk, NE; Jewett, TX; Plymouth, UT; Auburn, NY; Birmingham, AL; Kankakee, IL; Jackson, MS; Seattle, WA; Marion, OH; Memphis, TN, Kingman, AZ

2014 Approx	imate Recycled	Steel Content Of	All Nucor Bar Mill G	roup Products(*)
Facility	Total Scrap Steel Used	Total Alloys and Other Iron Units	Total Post-consumer Recycled Content	Total Pre-consumer Post-industrial Recycled Content
All	99.8%	0.2%	82.8%	17.0%

The Nucor Bar Mill Group produces rebar, angles, flats, rounds and other miscellaneous shapes. The bar mill group uses recycled scrap steel for 99.8% of the feedstock.

Sheet Mill Group - Crawfordsville, IN; Hickman, AR; Huger, SC; Decatur, AL, Gallatin, KY; Castrip, IN;

Facility	Total Scrap Steel Used	Total Alloys and Other Iron Units	Nucor Sheet Mill Gr Total Post Consumer Recycled Content	Total Pre-consumer Post-industrial Recycled Content
Crawfordsville, IN	92.3%	7.7%	77.5%	15.9%
Hickman, AR	61.4%	38.6%	50.9%	10.4%
Berkeley, SC	53.4%	46.6%	44.3%	9.1%
Decatur, AL	68.6%	31.4%	57.0%	11.7%
Gallatin, KY	81.3%	18.7%	67.4%	13.8%
Nucor Castrip® Blytheville, AR	99.8%	0.2%	82.9%	16.9%
Nucor Castrip® Crawfordsville, IN	92.3%	7.7%	77.5%	15.9%

The Nucor Sheet Mill Group produces hot band, cold rolled, pickled and galvanized products. Nucor Sheet mills use varying amounts of recycled materials depending on metallurgical product demands and market conditions. The combined sheet mill total recycled content is approximately 70.2%.

Beam Group - Blytheville, AR; Huger, SC

2014 Ap	proximate R	ecycled Steel Con	tent of Beam Mill Pro	oducts(")
Facility	Total Scrap Steel Used	Total Alloys and Other Iron Units	Total Post Consumer Recycled Content	Total Pre-consumer/ Post-industrial Recycled Content
Nucor Yamato Steel, Blytheville, AR	99.8%	0.2%	82.9%	16.9%
Nucor Berkeley, Huger, SC	48.6%	51.4%	40.4%	8.3%

Nucor Beam mills produce narrow and wide flange structural beams. Nucor Yamato uses approximately 99.8% scrap steel for their feedstock. Nucor Steel Berkeley uses a higher percentage of non-scrap iron due to metallurgical product demands for sheet steel produced using the same EAF's. The combined beam mill recycled content is approximately 90.7%.

Plate Group - Hertford County, NC; Tuscaloosa, AL

2014 Ap			itent of Plate Mill Pro	ducts(*)
Facility	Total Scrap Steel Used	Total Alloys and Other Iron Units	Total Post Consumer Recycled Content	Total Pre-consumer/ Post-industrial Recycled Content
Hertford County, NC	89.3%	10.7%	74.1%	15.2%
Tuscaloosa, AL	69.5%	30.5%	57.7%	11.8%

The Nucor Plate combined recycled content by weight is approximately 80.0%.

^(*) Studies show that the recycled steel used for Nucor products consists of approximately 83% post-consumer scrap. The remaining 17% typically consists of pre-consumer scrap generated by manufacturing processes.

CONTRACTOR'S SUSTAMABLE MATERIALS FORM Cradit M 2 TR, M 2 Z, M2 3R and M2 4

Project: PS 335 (Queens) LUAV: 53004

Date: 7/26/2015

Contractor Contact: GARY CITERA

Spec Section: 6410 CUSTOM CASEWORK

SubContractor: NU-TECH FURNISHINGS

SCA School Construction Authority NYC Green Schools Rating System

			Stepded	Regided Contest		Registed *** Materials	
Product Name	สสากเกียวเพลง	Material Cost (na labor & Equip.)	Percentage Post-	Material Cost (na) Percentage Post- Percentage Page labor & Equip-1 Consumer* by Consumer by	Percentage Regionally	Diffrance between project site and	Ohtence between project
tiAuf Phywood core veneer panels	Celumbia Fenest Products	\$62,000	0%	30%	%0	501	501
MOF	Flakeboard Co.	\$13,000	9	100%	260		
laminate	VAlsocattic	\$46,000	2214	0%	0%	501 mles	501
						miles:	eptites.
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- Definitions:

 Post-Consumer Recycled Content: Inscertal or flushed product that has served interface consumer can and has been distanted by consumer

 Post-Consumer Recycled Content: Recovered industrial and manufacturing materials divicted from municipal said waste for the purpose of collection, recycling
 and disposition. Examples: recicular (for state and synchrist geypours, because they are variet product from soal huming a developer plants. (Strap aw 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

2 Retricted content for stael products - where it is not possible to data traine recycled content uso a fault assumption of 22% post-concernance contents.

3. Regional content for concrete - provide combined cost for all contrete materials and distance information requested.

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

1. Recycled contant for concrete - provide cost for comentitious materials and percentage of comentitious materials that are recycled content.

5 Provide back-up documentation for information on form above - such as product data or manufacturer's statements

Contractor Certification:

a duly authorited representative of Ru-Tech Furnitations bereby certify that the material information herein is an accurate representation of the material qualifications provided, as components of the final building construction. Furthermore, furthermore, furthermore, and final transfer and of the final building construction. Furthermore, fu

Signature of Authorized Representative

Date: 7.26 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: PS 335 (Queens) Address: 150-15 Raleigh Street, Queens NY 11417

SubContractor: Donaldson Contractor Contact: Ryan Zdanowicz

Spec Section: 07212

Telephone: 631-624-1296

			Recycled	Content		Regional *** Materia	ls
Product Name	Manufacturer	Material Cost (no labor & Equip.)			Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
FR701 (2100)	Guilford of Maine	£ 5,200,00	100.0%	N/A	N/A	N/A	590 miles
	Johns Manville	\$ 5,200.00	20%	5%	N/A	N/A	N/A
Whispertone Wallboard	751110 111211111					miles	mile
		-				miles	mile
		_				miles	mile
		-	-			miles	mile
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			10.			miles	mile
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- 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.)

- 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.

Date 9/12/16

- 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:
------------	----------------

Rvan Zdanowicz	a duly authorized representative of		hereby certify that the material information
herein is an accurate representation of the material	qualifications provided, as components of during the purchasing period will require pr Signature of Authorized Representative	rior written approval from the Constru	rmore, ction Manager and Owner. _ ^{Date:} 9/28/16

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

Project: PS 335 (Queens)

SubContractors

SCA School Construction Authority NYC Green Schools Rating System EAI Inc

Contractor Contact:

Jessica Telano

Telephone: 201-395-0010 Spec Section: 2100 71470

Address: 150-15 Releigh Street Queens, NY 11417

11W: \$3346 Date: 7/26/16

53004			Recycled	Content		Regional *** Materia	li .
Product Name	Monufacturer	Material Cost (no lebor & Equip.)	Percentage Post- Consumer® by weight	Percentage Pre Consumer** try weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and examplecture site
AGUASIN -IC	Aquafin	\$ 1,500.00	0%	O%	OX	rva	200 miles
4 GOAFIN -TC	- indomini		D%	0%	0%	n/a	mile
		1	0%	0%	0%	n/a	miles
			0%	0%	0%	n/a	mile
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Definitions

- Post-Consumer Recycled Content: Material or final-ed product that has served its intended consumer use and has been discarded by consumer
- Pro-Consumer Recycled Content: Recovered Industrial and manufacturing materials diverted from municipal solid waste for the purpose of collection, recycling and disposition. Examples include fly-seh 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 comentitious materials and percentage of comentitious 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-communer 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:	
JESSICATETAND aduly authorized representative of	EATINC hereby certify that the material information
the second accordance of the meterial qualifications provided, as comp	conents of the final building construction. Furthermore,
	Leguire brigg Mutter applicati from the construction washing and caste
Signature of Authorized Representative	Date: 7/26/16

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 EAI Inc SubContractor

Project: PS 335 (Queens) 150-15 Releigh Street Queens NY 11417 Date: 7/26/15 53004

Contractor Contact: Spec Section: 7115

Jessica Telano Telephone: 201-395-0010

	-//	1		Recycled	Content		Regional *** Meteria	ris
Product Name	Manufacturer		(erial Cost (no lor & Equip.)	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 ofte and mastefacture site
Bituthene Membrane 4000	Grace Constr Products	15	1,500.00	0%	0%	0%	r/a	1000 mile:
Bituthene Liquid Membrane	Grace Constr Products	5	1,000,00	0%	0%	0%	n/a	1000 mile
	Grace Constr Products	5	1,200.00	0%	0%	0%	n/s	700 mile
Hydroduct 220	Grace Constr Products	13	3,500.00	0%	0%	0%	r/a	1000 mile
Preprufe 300R	Orace Contain 1 / Table	1					miles	mile
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		+					miles	mile
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- Definitions:

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

 Post-Consumer Recycled Content: Recovered industrial and manufacturing materials diverted from municipal solid waste for the purpose of collection, recycling
 and disposition. Exemples include fly-sish and synthetic gypsum, because they are waste products from cost burning electricity plants. (Screp 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 communitious materials and percentage of communitious 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:	Control of the Contro	
J CZS ICA T EZ ANO a duly authorized representative of	EAI INC hereby certify that the material inform	nation
the material qualifications provided, as compo	ponents of the final building construction. Furthermore,	
Lunderstand that any change in such qualifications during the purchasing period will i	Ill require poor written approval from the construction manager and owner	
Signature of Authorized Representative	1100/16	

Division 7- Thermal & Moisture Protection

COMPRACTOR'S SUSTAINABLE MATCRIALS FORM Credit MCC 18 MCZ 2 MC 3R 200 MCC 1

Project: PS 335 (Queens) 150 IS Naloigh Street, Oucens, NY 11418

April 13, 2017

Subt ontractor

Contractor Contact:

SCA School Construction Anthony NO. Green Connels having System

Anthony Mentice (Telephone 51: 516 1/60

			Arcyclest	Content		Hegiphal "	** Materials
Product Name	Manufacturer	Material Cost (r- labor & Equip.)	Percentage Post- Consumer® by weight	Percentage Pie Concumire** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and estraction site	Distance between project size and manufacture size
Ogen thirt Seater	Elgen Manufacturing Company, Inc	\$350 00	0 9/1			540-1	eres.
Water Direct Lines Auhesive	Figen Manufacturing Company, Inc.	\$235.00	22 g/l			(Agr)	***
CP GOS Flexible Firestop Sealant	40/74, 40 4	\$425.00	71 g/l			nifes	nute
Fire Darrier Duct Wrap Collar 615 -	354	\$375.00	0 g/l			Je.	240
						1400/274	rote
			11			19774	(359)
		1				- 61	aute
							1016
						40.64	6/8
						1110	Philip
	The second second						mar
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					- 13	indes	indge
						motor	Inde
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						en/es	act e
1117 513 111						motes	n-ret
						mice	160'61
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- Inhaltons
 Past Consumer Recycled Content: Maceival or Insahed oradict libat has served its Introduct consumer who and has bron dyn anded by consumer Pro Consumer Recycled Content: Retovered bedustrial and manufacturins materials (diverted from municipal solid waste for the outcome of collection recycling and disposition. Estambles include the Pash and ventrable it works the Pash and ventrable it would be pash and product from one ob bronne extensivities plants. Use for an examinate share can be reused in the pash and ventrable it would be pash and ventrable it would be pash and the pash and ventrable it would be pash and the pash and

- 1. Recycled content for contrate outvide cost for comeniatious materials and coreceptage of comeniations materials that are recycled content.
 2. Recycled content for steel endoutes: where it is not enabled to determine recycled content.
 3. Regional content for concrete provide consisted costs for a Concrete materials and distance information require information recycled.
 4. Regional content for materials with varyone point of extraction all within the 500-mile radius six a single tiem with the greatest distance.
 5. Provide between policiement and on or limitarials no no form above such as product data or manufacturer's statements.

a duly authorized representative of the material qualifications provided, as company and the final building construction. Furthermore, I understand that any clarge in such qualifications during the purchasing period will respect to written approval from the Construction Managur and Owner Signature of Authorized Representative

5	CA Long	0 Thomson Avenue gisland City, NY 11101-3045
Vehitect / Engineer BGA - Architecture & Eng		General Contractor Petracca & Sons, Inc
Project PS335Q02		Submittal No. / Review Cycle 07270-045 / 001
NAT No Enceptions	Design Number 053004	Contract No. C000013929
MCN Make Corrections	Date Received 10/26/17	by Submittal Coordinator Plans Desk
RRS Rejected:	Date Sent 10/26/17	To Reviewer Gabriel Caesar
REJ Rejected: Noi Acceptable	Date Returned	Royaged By Signature
Submittal Reviewed As: Per Spec / Basis of Design	Non-Basis	Substitution" / Substitution" / Substitution" Substitution" / Substitution" / Substitution PERWAPPICS DURING THES REVIEW DO NOT RELECTED FOR THE DRAWINGS AND SPECIFICATIONS. SH

N.Y.C. SIGA Control #CONTOL 1828 PETRACICA & SONS INC. 18:02 Petracics Pl Whitestone, NY 11367

07270-045-01

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

SCA School Construction Authority

516-390-6895

			Recycled Content	Content		Regional Materials	Si Si
Product Name	Manufacturer	Material Cost (no Labor & Equip.)	Material Cost (no Percentage Labor & Equip.) Post-Consumer* by weight	Percentage Pre- Consumer** by weight	Percentage Regionally Extracted by weight	Distance between project site extraction site	Distance between Distance between project site and project site and extraction site manufacture site
00000	MADOUELE	290,300.00					
WOOD DOOKS	IMMERSINIERS		1753	44%	N.A.	2	109(
EDSRUF 42-47 UF			200	1	52.5	Z	109(
1111000			14.10	4470	W		
EDOLUF						miles	mile
						mile	si mile
						miles	ss miles

Definitions:

- * Post-Consumer Recycled Coment: Material or finshed product that has served its intended consumer use and has been discarded by consumer.
- 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 ** Pre-Consumer Recycled Content: Recovered industrial and manufacturing materials diverted from municipal solid wasta for the purpose of collection, recycling 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.
- 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.
- 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:

INC hereby certify that the material information	construction. Furthermore,	Work the Construction Manager and Ow	The second secon	J. Delo: 3/20/2016	Cale.
LONG ISLAND FIREPROOF DOOR, INC. hereby certify that the material	as components of the final building	מוסיים ביים ביים ביים ביים ביים ביים ביים	I understand that any change in such qualifications during the purchasing paged will be understand that any change in such qualifications during the purchasing paged will be understand that any change in such qualifications.	1411	7 5 MA 100 M
a duly authorized representative of	official character of the maintaining	presentation of the material quantities	change in such qualifications during the		At the first Secondaries
ACTOT UTTON	L'EDITH TOUR	herein is an accurate re	I understand that any c		

Signature of Authorized Representative

This form may be downloaded from SCA web site





Vinyl Enhanced Tile (VET)



Azrock's Vinyl Enhanced Tile (VET) is part of a system that was designed with people, the environment and the bottom line in mind. When we use better materials, practice resource stewardship and create people-friendly spaces while maximizing reused and recycled material in our flooring, we create a flooring solution that provides the ultimate flooring experience.

BETTER RAW MATERIALS

VET is manufactured in a facility that received ISO 9001 and ISO 14001 Certification for Quality Management of its manufacturing processes.

• Contains 70% natural materials, such as limestone

RESOURCE STEWARDSHIP

VET is produced in Florence, Alabama. This facility practices environmental initiatives that include:

- Energy reduction initiatives that achieve annual reductions in electricity and natural gas usage.
- All product lines are closed-loop and offer maximum efficiency in production.

PEOPLE-FRIENDLY SPACES

One of our core beliefs is that people are happiest when they are offered choices that help them balance their needs and stay true to their values.

- FloorScore™ certified as low emitting products for good indoor air quality
- Reduces slip and fall injuries with slip-resistant surfaces on select Advance tiles
- Offers appealing aesthetic through a large variety of color and design options
- Reduces the use of floor strippers and polishes by 90%

REUSE AND RECYCLE

- VET contains up to 23% pre-consumer and 6% post-consumer recycled content.
- All samples, unused installation material and used flooring is reclaimed and recycled through our ReStart® Reclamation Program.
- VET is manufactured in our Florence plant where production waste is either reworked into future tile or incorporated into residential tile, almost eliminating production waste.
- Tarkett's Florence plant utilizes pre-consumer recycled material from a number of outside sources.

ISO 14001 certificate no. US00011659, ISO 9001 certificate no. US00011675

Please note

The data available on this Product Fact Sheet relates to Tarkett products and services as of the date of its publication. It is provided for information purposes only, Tarkett does not guarantee that the information contained in the Product Fact Sheet is accurate, complete and up-to-date and shall not be held responsible for any error or omission. Prior to circulation youting, or reproducing for distribution purposes it is recommended to have the Product Fact Sheet reviewed and updated by the appropriate department.e

For more information visit johnsonite.com or call 1.800.899.8916



THE ULTIMATE FLOORING EXPERIENCE

Sustainable Facts Possible Color Essence LEED Credit Contribution **Construction Waste Management** 1-2 ReStart® Reclamation Program MR 2 **Recycled Content** 1-2 Pre-Consumer 23% Post-Consumer 6% **MR 4 Regional Materials** Manufactured in Florence, Alabama, an ISO 14001 facility 1-2 MR 5 **Indoor Air Quality** Low Emitting materials EQ 4.3 1 FloorScore certified and meets CA 01350 **Return on Investment** Easy to clean, less waxing required Reduced water, detergent and energy costs Requires fewer man-hours to install



Page 3 of 6

TARKETT 800 825646PM

Print Date: 04-09-2015

SAFETY DATA SHEET

			The second of the second of the second
Calcium carbonate	* (see below)	No data available.	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

^{*}This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur.

ENGINEERING CONTROL METHODS:

VENTILATION:

General room ventilation might be required under normal conditions

of use.

EYE PROTECTION:

Wear safety glasses when handling this product.

SKIN PROTECTION:

Avoid skin contact by wearing chemically resistant gloves.

GLOVES:

Nitrile

RESPIRATORY PROTECTION:

Respiratory protection may be required to avoid overexposure when

handling this product. Use a respirator if general room ventilation is

not available or sufficient to eliminate symptoms.

Respirators should be selected by and used following requirements

found in OSHA's respirator standard (29 CFR 1910.134).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:

COLOR:

ODOR:

ODOR THRESHOLD:

pH:

FREEZING/MELTING POINT (deg. C):

BOILING POINT (deg. C): FLASH POINT:

EVAPORATION RATE:

FLAMMABILITY:

UPPER EXPLOSIVE LIMIT (% in air):

LOWER EXPLOSIVE LIMIT (% in air): VAPOR PRESSURE (mm Hg):

VAPOR DENSITY:

WEIGHT PER GALLON (lbs.):

SPECIFIC GRAVITY:

SOLUBILITY:

OCTANOL/WATER COEFFICIENT: **AUTOIGNITION TEMPERATURE:**

DECOMPOSITION TEMPERATURE: VISCOSITY:

SOLIDS (% by weight):

VOC, weight percent

Semi-solid

Off-white

Slight Aromatic Not established

8.6

Not established

Not established Non flammable

Not established Not a flammable solid or gas

Not established

Not established Not established

Not established 9.75

1.170

Not established

Not established

Not established Not established

No data available.

56.5 0.00

SECTION 10: STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions.

CHEMICAL INCOMPATIBILITY:

Not established

HAZARDOUS POLYMERIZATION:

Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

Aldehydes Carbon monoxide, carbon dioxide

Nitrogen containing gases

Date: 8-23-16

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

Project: PS 335 (Queens)

Address:______

Contractor Contact:

SCA School Construction Authority NYC Green Schools Rating System

Keller Painting Corp.

Spec Section: 9900

Jean Keller Telephone: 631-581-2649

Product Name		Material Cost (no labor & Equip.) Per Gallon	Recycled Content		Regional *** Materials		
	Manufacturer		Percentage Post- Consumer® by weight	Percentage Pro Consumer** by weight	Percentage Regionally Extracted*** by weight	Distance between project site and extraction site	Distance between project site and manufacture site
ProMar 200 Latex Primer	Sherwin Williams	\$ 18,00	N/A	N/A	0%	31miles	BOmile
PrepRite Blook Filler	Sherwin Williams	\$ 20.00	N/A	N/A	0%	31miles	80mile.
ProMar 200 Latex Semi-Gloss	Sherwin Williams	\$ 43.00	N/A	N/A	0%	31miles	80mile
FroMar 200 Latex Flat	Sherwin Williams	\$ 25.00	N/A	N/A	0%	31mlles	80mile:
Acrylic Dry Fall Flat	Sherwin Williams	\$ 15.00		N/A	0%	31miles	80mile:
Pro Industrial High Pref. Acrylic	Sherwin Williams	\$ 53.00		N/A	0%	31miles	80mile:
						miles	mile:
						miles	mile
						miles	mile
						miles	miles
						miles	miles
						miles	miles
						miles	mller
					32	miles	miles
						miles	miles
						miles	miles
						miles	miles
						miles	miles
						mllas	miles
						tolles	moldan

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.)

Notes:

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

Contractor Certification:		
I, Jean Keller a duly authorized representative of herein is an accurate representation of the material qualifications provided, as com I understand that any change in such qualifications during the purchasing period will Signature of Authorized Representative	ponents of the final building construction ill require prior written approval from the	hereby certify that the material information on. Furthermore, to Construction Manager and Owner. Date: