
Addendum #3

New Jersey Schools Development Authority
Office of Procurement
32 East Front Street
Trenton, NJ 08625
Phone: 609-858-2981
Fax: 609-656-2647

Date: September 16, 2016

PROJECT #: HU-0027-B01
Harrison New Elementary School
Harrison Public Schools

DESCRIPTION: Addendum #3

This addendum shall be considered part of the Design-Build Information Package issued in connection with the referenced project. Should information contained in this Addendum conflict with the Design-Build Information Package, this Addendum shall supersede the relevant information in the Design-Build Information Package.

A. CHANGES TO THE PROCUREMENT PROCESS:

NOTE that modifications to the following items will be shown as follows: additions in **bold and underlined** text; deletions in *strikethrough and italics*.

1. Modifications to the Request for Proposals:

- a. **REPLACE:** Replace the Price Proposal form originally issued, with revised Price Proposal form dated 9-16-2016, included herewith as Attachment 3.1 to this Addendum.

B. CHANGES TO THE PROJECT MANUAL:

NOTE that modifications to the following items will be shown as follows: additions in **bold and underlined** text; deletions in *strikethrough and italics*.

1. Volume 1 Design-Build Agreement

- a. **MODIFY:** Modify Design-Build Agreement Section 9.0 Compensation as follows:

9.1 Contract Price, GMP Reserve and Guaranteed Maximum Price In consideration for the full, complete and timely performance of all Work and Services under this Agreement, and subject to the limitations contained herein, the Authority shall pay to the Design-Builder the lump-sum Contract Price of _____ (\$ _____) (the “Contract Price”). The Contract Price, together with the GMP Reserve, as defined below, shall constitute the “Guaranteed Maximum Price” or “GMP.” An amount equal to ~~\$1,367,000.00~~ ~~\$0,000,000.00~~ **\$1,367,000.00** shall be added to the Contract Price in the Design-Builder’s price proposal and carried as various Allowance Amounts within the GMP, and these Allowance Amounts shall collectively constitute the “GMP Reserve.” The Design-Builder guarantees that the compensation for the Work And Services under this Agreement shall not exceed the “Guaranteed Maximum Price” or “GMP” of \$ _____, subject only to Authority-approved adjustments to the Contract Price and/or GMP as provided for in this Agreement. Any and all costs exceeding the GMP shall be paid by the Design-Builder without reimbursement from the Authority. The Design-Builder certifies to the Authority that it has thoroughly reviewed the Design-Build Contract Documents which form the basis of the Contract Price and further represents that the Project can be designed and constructed for the Contract Price.

9.2 Utilization of GMP Reserve. An amount equal to ~~\$1,000,000.00~~ **\$1,367,000.00** shall be carried as a reserve within the GMP. The reserve will function as an allowance to be used to cover unanticipated or unforeseen costs which are necessary to complete the Services and Work, or to achieve Authority-directed upgrades in the Services and Work, authorized at the discretion of the Authority. The Authority in its sole discretion shall determine whether to utilize the reserve and the reserve will not be used by the Design-Builder without the prior written consent of the Authority, as evidenced by an Allowance Authorization Form, validly approved and executed by an Authority employee with the proper and requisite corporate authority. The Authority may, in its sole discretion, increase the GMP Reserve during the Term of the Agreement. Upon Final Completion, should there be any remaining funds in the GMP Reserve, the entirety of the remaining GMP Reserve will be credited to the Authority. There is no sharing of the GMP Reserve or any amounts remaining in the GMP Reserve.

b. **MODIFY:** Modify Design-Build Agreement Appendix A - Special Conditions as follows:

A.3 Substantial Completion shall be achieved within ~~916~~ **914** days from the Commencement Date. Final Completion shall be achieved within ~~1,005~~ **1,003** days from the Commencement Date.

c. **MODIFY:** Modify the Price Proposal Form, Page PP-7 as follows:

3. GMP Reserve* _____ \$ _____ 1,367,000

* GMP Reserve Includes: \$500,000 **General Design and Construction** ~~New Construction~~ Allowance; \$125,000 Fire Pump Allowance; \$145,000 Emergency Responder System Allowance; \$200,000 Sewer Connection Allowance; \$250,000 Building Envelope Acoustical Enhancement Allowance; and \$147,000 Terrazzo Flooring Allowance.

2. Volume 1 Procedural Specifications

a. **REPLACE:** Replace Procedural Specifications Section 01600 Products and Substitutions with Revised Section 01600 Products and Substitutions dated 8/31/16, included herewith as Attachment 3.2 (clean version) and Attachment 3.3 (tracked changes version) to this Addendum.

C. CHANGES TO THE PERFORMANCE SPECIFICATIONS:

NOTE: Additions are shown in **bold and underline** text; deletions are shown in *strikethrough and italics*.

1. Volume 2 Performance Specifications

a. **MODIFY:** Division 1 –General Requirements Section 01010 Summary of Work 1.4 Allowances A. and B., as follows:

A. The Contract contains the following Allowance categories and amounts:

	AMOUNT
1. <u>General Design and Construction</u> GMP Reserve Allowance	\$ 500,000.
2. Fire Pump Allowance	125,000.
3. Emergency Responder System Allowance	145,000.
4. Sewer Connection Allowance	200,000.
5. Building Envelope Acoustical Enhancement Allowance	250,000.
6. Terrazzo Flooring Allowance	147,000.
<u>GMP Reserve</u> Total	\$1,367,000.

B. The Allowances shall be utilized to cover unanticipated or unforeseen costs which are necessary to complete the Services and Work, or to achieve Authority-directed upgrades in the Services and Work, authorized at the discretion of the Authority. The Allowances includes individual amounts for the following Services and Work. The Allowances shall be utilized only after

written authorization from the Authority, in accordance with Section 01020 “Allowances”.

1. The **General Design and Construction**-GMP Reserve-Allowance is provided for unanticipated or unforeseen costs to complete the Services and Work, or to achieve Authority-directed upgrades in the Services and Work.

- b. **REPLACE:** Delete Performance Specifications Section PS1030.00 Project Criteria paragraph II.A.3 in its entirety and replace with the following:
3. Comply with the requirements of Procedural Specifications Section 01600 Products and Substitutions in regard to items specified through Basis of Design. Where items other than the Basis of Design are proposed, provide Substitution Requests as requested by the Authority.
- c. **MODIFY:** Modify Performance Specification Section A1000.00 Foundations Part I.A.5 as follows:
5. The ~~Basis of Design~~ **Basis of Bid** for this Project is a foundation **system that uses a combination of drilled and driven piles and a suitably prepared subgrade to support a slab-on grade ground-floor.** ~~Earthwork recommendations and foundation recommendations included in the Design-Build Information Package represent one possible approach to earthwork and foundation design.~~ **The Design-Builder’s Price and Technical Proposal shall be based upon such a system in accordance with geotechnical information and other related Project requirements included in the Design-Build Information Package.** Alternate approaches are acceptable **may be considered after award of the contract,** subject to compliance with all codes and project requirements and the approval of the **Authority and, as applicable, the** Authority’s Licensed Site Remediation Professional (LSRP).
- d. **MODIFY:** Modify Performance Specification Section G0000.00 Sitework I.B.2 and I.B.3 as follows:
2. The presence of various contaminants at the site dictates that the school design and construction include the use of engineering controls in accordance with N.J.A.C. 7:26E-5.3 and NJDEP “Presumptive and Alternative Remedy Technical Guidance,” Version 2.0(August 2013). The school construction project also includes the design and installation of a passive subslab depressurization system suitable for conversion to an active system, in accordance with the NJDEP Vapor Intrusion Technical Guidance Document (~~March 2013~~ **August 2016**).

3. The Design-Builder shall proceed with demolition, mass excavation, rough grading subsequent foundation installation, utility trenching, **etc.**, based upon the extensive existing conditions information provided which **specifically indicates or** predicts with a high degree of certainty the presence of subsurface residual concrete footings, foundations, slabs or potentially other miscellaneous debris within the zone of construction particularly along the property limits. Therefore, in the likely event that residual concrete or other subsurface debris is encountered during the course of construction operations, that material will be considered part and parcel of the excavation spoils and ~~shall~~ **may be required to** be removed by the Design-Builder at no additional cost to the Authority. **In the event that sub-surface concrete or miscellaneous debris is encountered that is of such excessive size or formidable composition that specialized tools, equipment or techniques are required to demolish and/or remove it, the design/builder will be compensated for all costs associated with the excavation, demolition and/or removal of the excessively substantial or massive sub-surface concrete or debris.**

e. **MODIFY:** Modify Volume 4 Specification Section 02115 Item 2.1K and 2.1M as follows:

K. The Contractor shall be prepared to excavate, provide on-site stabilization, remove, and legally dispose of petroleum impacted soil at a unit price per UST. ~~The unit price should include the cost to remove, stockpile, and properly dispose of impacted soil, and to furnish and install certified, clean backfill.~~ **As quantities associated with these materials have yet to be established, compensation will be on a price per ton basis, paid from the General Design and Construction Allowance, per the procedures detailed in Section 01020 Allowances.**

M. .In the event that water enters the excavation prior to backfilling, dewatering activities will immediately precede backfilling activities. Upon successfully dewatering the excavation, the excavation will be backfilled with unimpacted excavated material, as designated by the Engineer, and supplemented with certified clean fill or backfill with ¾ - inch clean stone material up to one foot above the water table and furnish and install geotextile material above the clean stone. The remainder of the excavation, above the geotextile material, is to be backfilled with certified clean fill material. **As quantities (if any) associated with these elements have yet to be established, compensation will be on a price per measured unit basis, paid from the General Design and Construction Allowance, per the procedures detailed in Section 01020 Allowances.**

f. **MODIFY:** Modify Volume 4 Specification Section 02115 Item 2.3H as follows:

H. Contractor shall provide for the removal of free-phase floating liquids, if encountered, from the surface of groundwater within excavations. **As quantities associated with these materials have yet to be established, compensation will be on a price per gallon basis, paid from the General Design and Construction Allowance, per the procedures detailed in Section 01020 Allowances.** ~~This item is not included in the Base Bid, but shall be funded in accordance with appropriate unit costs.~~

D. CHANGES TO THE DRAWINGS:

1. REPLACE: Replace Drawing C-104 - POST-ESP CONDITIONS PLAN, dated 07/07/2016, with Drawing C-104 - POST-ESP ANTICIPATED CONDITIONS PLAN dated September 9, 2016, included herewith as Attachment 3.4. All other plans, sections and elevations are modified accordingly by implication.

E. BIDDER'S QUESTIONS, REQUESTS FOR INFORMATION AND RESPONSES:

1. Question: The specifications call for an electric folding wall. The drawings indicate a side stack folding wall which has to be manually operated. Please advise which is required.

Answer: See Performance Specifications Section C1010.50 Interior Operable Partitions, paragraph I.A.1.a. See also Section C1010.50, paragraph II.A.1. The cited basis of bid is available with electric operation.
2. Question: Section I.A.5 identifies the basis of design for the project as a pile foundation. Is the cited Basis of Design for a pile foundation a remnant from another project specification or a requirement of this RFP. Please advise.

Answer: The referenced section is not a remnant from another specification. Refer to Changes to the Performance Specifications, Item C.1.c in this Addendum.
3. Question: Historic aerials indicate that former structures were located on the site. Has the complete removal of these existing foundations been confirmed? If not, how should the cost to remove these foundations be addressed?

Answer: Subsurface removals were partially completed. Please refer to the As-Built Conditions – Post-Early Site Package - Existing Conditions Letter Report, included as Attachment 3.5 to this Addendum, for both supplemental information regarding subsurface removals completed and subsurface features remaining on site. All removals necessary to construct the school project in

accordance with the requirements of the Design Builders Information Package (DBIP) are the responsibility of the Design Builder. Refer to Changes to the Performance Specifications, Item C.1.d in this Addendum.

4. Question: Based on the information provided in the Factual Geotechnical Investigation Report, it appears that there is approximately 10 feet of fill material. The report did not include recommendations for foundation and ground floor slab support. Since fill is not acceptable for foundation bearing, what is the recommended foundation support system for the proposed building columns and the lowest floor slab for bidding purposes?

Answer: Performance Specifications Section A1000.00, Foundations, as modified by Item C.1.c in this Addendum, sets forth requirements for design and construction of the proposed foundation system, inclusive of a Geotechnical Monitoring Program for Off-Site Impacts. Per Section A1000.00, piles are the Basis of Bid for this Project. The Design-Builder is responsible for the design and construction of the foundation system, including the ground floor slab and any structural components required to support same.

5. Question: Please confirm which of the following foundations options are acceptable: • Timber piles • Controlled Modulus Columns • Rammed aggregate piers • Improvement by Deep dynamic compaction • Improvement by Rapid impact compaction.

Answer: Performance Specifications Section A1000.00, Foundations, as modified by Item C.1.c in this Addendum, sets forth requirements for design and construction of the proposed foundation system, inclusive of a Geotechnical Monitoring Program for Off-Site Impacts. Per Section A1000.00, piles are the Basis of Bid for this Project. The design-builder is responsible for the design and construction of the foundation system. The Design-Builder should also consider the proximity of neighboring structures and utilities and minimization of impacts on adjacent properties and utilities when selecting a proposed foundation system and designing the Geotechnical Monitoring Program for Off-Site Impacts.

6. Question: The boring logs included in the Factual Geotechnical Report show approximately 10 feet of possible fill across the site. Is "possible fill", in its current condition, suitable for conventional shallow foundation support? If yes, please provide allowable bearing pressure to be assumed in the base bid. If not please provide the anticipated ground improvement system.

Answer: Performance Specifications Section A1000.00, Foundations, as modified by Item C.1.c in this Addendum, sets forth requirements for design, construction, and oversight of the proposed foundation system, inclusive of a Geotechnical Monitoring Program for Off-Site Impacts. Per Section A1000.00, piles are the basis of bid for this school. The Design-Builder is responsible for the design and construction of the foundation system.

7. Question: The fill and possible fill thickness reported in the Geotechnical and Environmental studies are significantly different. Can the Engineers review all the data and provide a memorandum on the thickness of the existing fill materials?

Answer: No, the SDA will not provide a specific memorandum on the thickness of the fill material. Fill thickness is summarized on a site-wide basis in the As-Built Conditions – Post-Early Site Package - Existing Conditions Letter Report included as Attachment 3.5 in this Addendum. Note that fill thicknesses vary throughout the site due to historic construction/demolition/filling that has occurred. General information regarding fill is contained within the As-Built Conditions – Post-Early Site Package - Existing Conditions Letter Report, included as Attachment 3.5 in this Addendum.

8. Question: Can the excavated soils in the PCB impacted areas be reused anywhere on the site?

Answer: It is unclear to the SDA, if the question is requesting to reuse remaining PCB impacted soils or whether the question is requesting to reuse clean fill placed by Ambient within PCB excavated areas. Please refer to the As-Built Conditions – Post-Early Site Package - Existing Conditions Letter Report included as Attachment 3.5 in this Addendum, for information regarding work performed under the Early Site Package, including information regarding the clean fill imported to the site. Ultimately, the Design Builder is responsible for adhering to both state/federal regulations pertaining to soil handling and management in addition to NJSDA requirements within the DBIP for soil handling and management. The Design Builder is also notified that NJSDA requirements within the DBIP require LSRP approval of many elements of work, since the LSRP will be ultimately responsible for issuing an RAO for the site. The repositioning of PCB-impacted soils into areas of the Site that were not previously impacted by PCBs will not be approved (N.J.A.C. 7:26E-5.2 (c)).

9. Question: It appears that there is an existing retaining wall and fence at the western edge of the property. Who owns this wall and fence because it extends into neighboring properties at specific points?

Answer: The Design-Builder is referred to the Temporary Construction Easements provided as part of the DBIP in Addendum #1, dated September 1, 2016, that will facilitate work in this area for information regarding ownership of existing structures on or extending from adjacent properties, and for information regarding the Design- Builder's obligations for performance of work indicated within the Site Plan and Grading and Drainage Plan in the Temporary Construction Easement areas described above.

10. Question: Can a copy of the PAR be provided?

Answer: Not at this time. The PAR will be provided to the successful Design-Builder. However, bidders are advised that information typically contained in a PAR is

presented elsewhere within the DBIP and /or in the As-Built Conditions – Post-Early Site Package - Existing Conditions Letter Report, included as Attachment 3.5 to this Addendum.

11. Question: What is the status of the monitoring wells (Permit #'s E201503126, E201503127, E201503128, E201503129)? If they are still present, is the Design Build Contractor (DBC) responsible for the abandonment of these wells?

Answer: These wells have been abandoned in accordance with NJDEP regulations. Please reference the As-Built Conditions – Post-Early Site Package - Existing Conditions Letter Report, included as Attachment 3.5 to this Addendum.

12. Question: Can a copy of the United States Environmental Protection Agency (USEPA) Self Implementation Plan (SIP) for the PCBs be provided?

Answer: Yes, the USEPA SIP is included within the As-Built Conditions – Post-Early Site Package - Existing Conditions Letter Report, included as Attachment 3.5 to this Addendum.

13. Question: Has the USEPA provided a response to the Revised-Notification for Self-Implementation Onsite Cleanup to Address PCB Contamination dated May 24, 2016 and can a copy be provided?

Answer: Yes, the USEPA response to the SIP is included within the As-Built Conditions – Post-Early Site Package - Existing Conditions Letter Report, included as Attachment 3.5 to this Addendum.

14. Question: The Remediation Responsibility Plan (RRP) Section 1.0, identifies that all PCB impacted materials on site above 10 ppm have been removed and disposed of off- site. • Have the required post excavation soil samples identified in Section 6.1 of the RAWP been completed to document the PCB soil remedial action? • If these required soil samples have been completed, can the soil sample results, laboratory data packages, associated sampling figure and cross sections be provided for review?

Answer: Remedial action work completed to date is summarized in the As-Built Conditions – Post-Early Site Package - Existing Conditions Letter Report, included as Attachment 3.5 to this Addendum. No additional information beyond that contained in the Report will be provided.

15. Question: Figure 7 and Figure 8 in the SI/RI RAWP) dated July 2016 show different limits of the PCB impacted soils. Please verify which figure should be used as the basis of PCB removal for the bid?

Answer: Please reference the As-Built Conditions – Post-Early Site Package - Existing Conditions Letter Report, included as Attachment 3.5 to this Addendum, which includes a summary of excavations performed in accordance with the requirements of the RAWP. Please note that Figure 7 of the July 2016

SI/RI/RAWP indicates locations where PCBs were observed from sampling results. By contrast, Figure 8 identifies areas where soil removal is recommended due to sampling findings of PCBs over 10ppm. The actual excavations performed on the site are reflected in Attachment 3.5 to this Addendum, the As-Built Conditions – Post-Early Site Package - Existing Conditions Letter Report.

Because the Design-Builder is responsible for the design of foundation systems and subsurface structures at the Project Site, the Design-Builder is responsible for determining the quantity and location of soils for excavation and export to facilitate the construction of the foundation systems and subsurface structures that it designs, including the determination of whether such excavations are conducted in PCB or non-PCB identified areas. Accordingly, the Design Builder is ultimately responsible for determining the quantities of PCB-impacted soils removal to be included in the bid. To do so, the Design-Builder should be familiar with all documents within the DBIP most notably the As-Built Conditions – Post-Early Site Package - Existing Conditions Letter Report, Attachment 3.5 to this Addendum, which include the EPA requirements for handling and removal of PCB remediation waste.

16. Question: Section 4.2 of the RRP identifies that the DBC is responsible for the management of the remaining PCB impacted soils on site (0.0-10 ppm) and indicates that USEPA approval is required. Will the LSRP coordinate and prepare the necessary documents for the EPA approval?

Answer: Please reference the As-Built Conditions – Post-Early Site Package - Existing Conditions Letter Report, included as Attachment 3.5 to this Addendum, which summarizes work performed by the Early Site Package Contractor and current USEPA Approvals. In the event that the Design-Builder finds it necessary to remove additional PCB Remediation Waste from the property, that work is subject to Section 5.12.2 of the NJSDA's Design-Build Agreement and must be consistent with those USEPA approvals. Furthermore, Attachment 3.5 identifies facilities that have been approved by the USEPA for the disposal of impacted materials. While there is no reason to expect otherwise, there is no guarantee that the disposal facilities identified in Attachment 3.5 to this Addendum will continue to receive additional material from the Site. If these facilities decline to accept additional material or if the Design-Builder chooses to use an alternate facility for the disposal of that material the Design-Builder will be responsible for preparing all associated documentation and applications for USEPA approval, to be filed through the LSRP.

17. Question: The RRP, Section 1.0, identifies at least one (1) heating oil UST is likely to be required to be removed by the DBC. UST's may include AOC-1B (22 South 5th St), AOC-1 C (26 South 5th St). Each of these UST's is identified as not requiring further investigation as detailed in Sections 4.1.2.1 & 4.1.2.2 of the SI/RI/RA WP. If the UST's are identified as having holes and/or impacting the environment and thereby requiring a NJDEP notification, will the LSRP be making said notification?

Answer: Please reference the As-Built Conditions – Post-Early Site Package - Existing Conditions Letter Report, included as Attachment 3.5 to this Addendum, which discusses the USTs. Please note that, should the Design- Builder encounter environmental impacted soils beyond those identified within the DBIP, including those impacted soils identified in Attachment 3.5 to this Addendum, they shall notify the NJSDA Representative who will notify the LSRP. The Design-Builder shall not communicate directly with NJDEP. Any communications or notifications will be performed under the direction of NJSDA and the LSRP.

18. Question: Will a Perimeter Air Monitoring Program (PAMP) be required, as considered in N.J.A.C. 7:26E-5.5, (b)(7)?

Answer: The question references the need for a PAMP in the context of the NJDEP’s Remedial Action Workplan (RAWP) requirements. The RAWP is included in the Design-Build Information Package and, while there is no direct reference to a PAMP, the RAWP does indicate that “the contractor shall handle all regulated material in a manner which protects site personnel, the public, and the environment in accordance with all applicable Federal, State, and Local laws and regulations.” As part of that work, and consistent with the Design-Builder’s Health and Safety Plan (HASP -which must be reviewed and accepted by the SDA), dust suppression controls must be implemented by the Design-Builder. During the course of the Early Site Package work, frequent wetting down of soil was sufficient to control dust. In the event that the Design-Builder’s HASP requires it or if dust suppression methods appear to be insufficient, additional dust control measures and / or PAMP may be necessary and would be the responsibility of the Design-Builder.

19. Question: May the design of the cafeteria space include interior columns? If so, are there any restrictions to the amount or locations?

Answer: No. Columns may be introduced only when immediately adjacent to or within exterior walls or interior partitions. Interior “floating” columns will not be permitted, including within rooms C-111 Gymnasium, C-112 Stage and C-113 Cafetorium.

20. Question: Per Section PS1030 Paragraph I.A.5.c.6, the district indicated they are unable to support inclusion of a LEED credit for innovation. Can we get a clarification as to what the district will and won’t entertain for this credit? For instance, are they trying to indicate that they are unwilling to incorporate some type of science curriculum or exterior garden that could be utilized for this credit?

Answer: The District has indicated they will not commit to the pursuit of credits, which: require substantial curriculum change; are not addressed by the LEED green building rating system; or are not specifically permitted by PS1030.00 Project Criteria, paragraph I. C.5.b. The Design - Builder shall not anticipate the pursuit of credits for Innovation in Design.

21. Question: Based on the current site remediation work being completed will new revised inspection reports be issued revising the previous ones provided in the Existing Conditions Reports section? Will the design build bid include an allowance for contaminated or hazardous material removal?

Answer: Please see the responses to Bidder's Questions #3 listed above, and Bidder's Question #9, in Addendum #2, dated September 9, 2016. Relevant details are presented in the As-Built Conditions – Post-Early Site Package - Existing Conditions Letter Report, included as Attachment 3.5 in this Addendum.

22. Question: Section A1000.00 Foundations spec states: "The Basis of Design for this Project is a pile foundation. Earthwork recommendations and foundation recommendations included in the Design-Build Information Package represent one possible approach to earthwork and foundation design. Alternate approaches are acceptable subject to compliance with all codes and project requirements and the approval of the Authority's Licensed Site Remediation Professional (LSRP)." In discussions with our Design Team and their Engineers it was determined that the Geotechnical Info provided does not contain enough info to provide a Foundation design without a Complete Geotechnical Report. We will need either the Allowable Bearing Capacity for spread footings, or the Allowable Pile Capacity, pile type, size, depth, etc. for piles. We fully realize that the contract documents require the winning Design-Builder team to prepare the complete Geotechnical Report for submission post bid. This is a "catch-22" situation. Please advise.

Answer: Performance Specifications Section A1000.00, Foundations, contained within Volume 2, as such section is modified by Item C.1.c in this Addendum, sets forth requirements for design and, construction, and oversight of the proposed foundation system, inclusive of a Geotechnical Monitoring Program for Off-Site Impacts. Per Section A1000.00, piles are the Basis of Bid for this Project. The design-builder is responsible for the design and construction of the foundation system. The Design-Builder should also consider the proximity of neighboring structures and utilities and minimization of impacts on adjacent properties and utilities when selecting a proposed foundation system and designing the Geotechnical Monitoring Program for Off-Site Impacts Relevant details are presented in the As-Built Conditions – Post-Early Site Package - Existing Conditions Letter Report, included as Attachment 3.5 in this Addendum. No additional geotechnical data or recommendations will be provided.

23. Question: Is the SDA/LSRP requiring any specific air monitoring (such as on-going perimeter air monitoring) during soil excavation activities?

Answer: Please see the response to Bidder's Question #18 listed above.

24. Question: The Louis Berger Remediation Responsibilities Plan requires that the Design Build perform waste characterization for the specific disposal facility approval and disposal of the PCB/historic fill impacted soil. However, any previously

collected waste characterization analytical results were not provided. It is acknowledged that Site and Remedial Investigation (SI/RI) results have been provided in the Louis Berger July, 2016 SI/RI report. However, this data may not be sufficient to obtain accurate soil disposal costs. Can the SDA provide additional analytical results to ensure proper pricing for the disposal of the impacted soil?

Answer: Please see the response to Bidder's Question #3 listed above. Relevant details are presented in the As-Built Conditions – Post-Early Site Package - Existing Conditions Letter Report, included as Attachment 3.5 in this Addendum.

25. Question: Please advise the status of any pre-design reviews and approvals by City, County and State Agencies, including NJDOE.

Answer: With regards to New Jersey Department of Education, Office of School Facilities review, see the response to Bidder's Question #25, in Addendum #2, dated September 9, 2016. No other municipal, county, regional, state or federal approvals, entitlements or permits have been applied for. See the Design - Build Agreement for the Design - Builder's responsibility to secure other government approvals or permits.

26. Question: Will NJSDA provide signed and sealed copies of Existing Conditions and Utility plans? And will they be provided in AutoCAD format?

Answer: Relevant details are presented in the As-Built Conditions – Post-Early Site Package - Existing Conditions Letter Report, included as Attachment 3.5 in this Addendum. Utility Plans and Reports are included in the DBIP. AutoCAD format plans will be provided to the successful bidder.

27. Question: Presumptive remedies engineering control plan exhibit B-1 shows areas of PCB contaminated soil on the north side of the property adjacent to Harrison Ave.; please confirm this is the only area of PCB soil contamination and the PCB concentration level is 10 PPM or less.

Answer: Refer to relevant details as presented in the As-Built Conditions – Post-Early Site Package - Existing Conditions Letter Report, included as Attachment 3.5 in this Addendum and the RAWP included in the DBIP.

28. Question: Please advise if there any additional Geotechnical foundation design recommendations forthcoming.

Answer: Please see the response to Bidder's Question #4 and #5 listed above. No additional specific geotechnical information or foundation recommendations are forthcoming.

29. Question: Please confirm that foundation design is to be a pile foundation.

Answer: Please see the response to Bidder's Question #2, #4 and #5 listed above.

30. Question: Please clarify what scope is currently being performed on site by the environmental contractor.

Answer: Please see the As-Built Conditions – Post-Early Site Package - Existing Conditions Letter Report, included as Attachment 3.5 in this Addendum, and the Remediation Responsibilities Plan that is included in the DBIP.

F. CHANGES TO PREVIOUS ADDENDA:

1. Not applicable.

G. ATTACHMENTS:

1. Attachment 3.1 Revised Price Proposal dated 9-16-2016.
2. Attachment 3.2 Revised Performance Specification Section 01600 Products and Substitutions dated Revised 8/31/16 (clean version).
3. Attachment 3.3 Revised Performance Specification Section 01600 Products and Substitutions dated Revised 8/31/16 (tracked changes version).
4. Attachment 3.4 Drawing C-104 - POST-ESP ANTICIPATED CONDITIONS PLAN dated 07/07/2016, revised date September 9, 2016.
5. Attachment 3.5 As-Built Conditions – Post Early Site Package dated August 25, 2016, prepared by Louis Berger, 412 Mount Kemble Avenue Morristown, NJ 07960.

H. SUPPLEMENTAL INFORMATION

1. Not applicable.

Any bidder attempting to contact government officials (elected or appointed), including NJSDA Board members, NJSDA Staff, and Selection Committee members in an effort to influence the selection process may be immediately disqualified.

End of Addendum No. 3


NJSDA _____ Date

Addendum #3

New Jersey Schools Development Authority
Office of Procurement
32 East Front Street
Trenton, NJ 08625
Phone: 609-858-2981
Fax: 609-656-2647

Date: September 16, 2016

PROJECT #: HU-0027-B01
Harrison New Elementary School
Harrison Public Schools

DESCRIPTION: Addendum #3

Addendum No. 3

Acknowledgement of Receipt of Addendum

Contractor hereby acknowledge the receipt of the Addendum by signing in the space provided below and returning via scanned copy (Aperry@njsda.gov) or fax (609-656-2647). Signed acknowledgement must be received prior to the Bid Due Date. Acknowledgement of the Addendum must be made in Section E.5 of the Price Proposal Submission.

Signature

Print Name

Company Name

Date

ATTACHMENT 3.1

PRICE PROPOSAL

**DESIGN-BUILD
PRICE PROPOSAL SUBMISSION**

**to
NEW JERSEY SCHOOLS DEVELOPMENT AUTHORITY**

For the following Package:

Contract Number: HU-0027-B01
Contract Name/Description: Harrison – Harrison New Elementary School
District: Harrison Public Schools
County: Hudson

THIS PACKAGE IS COMPRISED OF THE FOLLOWING SCHOOL PROJECT:

SCHOOL NAME

Harrison New Elementary School

Bid of _____
(Bidder's Name) (Bidder's Federal I.D. #)

a Corporation organized and existing under the laws of the State of _____

or a partnership or joint venture consisting of _____

_____ or an individual, trading as _____

There is a two-step bidding process for participation in this procurement:

First Step: A Bidder must first submit the "Project Rating Proposal." The NJSDA will determine a Bidder's Project Rating Limit based on this proposal.

Second Step: Along with a Technical Proposal prepared in accordance with the Request for Proposals, a Bidder must submit the "Price Proposal" which contains the price the Bidder intends to bid for the work as well as other required information.

Important Notes:

- 1) A Bidder may not submit a Price Proposal that, excluding amounts for design services and excluding the GMP Reserve, exceeds its Project Rating Limit for a project.
- 2) A Bidder's Project Rating Limit cannot exceed the firm's Aggregate Limit.

A. Price Proposal Submission:

1. The Bidder shall complete and execute this Price Proposal and enclose it in an envelope that is **sealed** and **clearly marked** with the Bidder's Name, Contract Number, Contract Name, School District, County and the date of Price Proposal submission. The Bidder must submit its sealed Price Proposal to the NJSDA in accordance with Section 7 of the Request for Proposal (RFP).
2. The Price Proposals shall be subject to a public bid opening by the NJSDA on the date and time provided in the RFP.

B. Bidder:

1. All Bidders must be classified by the Department of the Treasury, Division of Property Management and Construction in all applicable trades; pre-qualified by the NJSDA in all applicable trades; registered with the Department of Labor; and registered with the Department of the Treasury, Division of Revenue; and must provide valid contractor or trade licenses where applicable at the time of submission of this bid. **Time is of the essence for completion of the Project in this package.**
2. The Bidder **MUST** submit a copy of its Uncompleted Contracts Form. Uncompleted Contracts forms submitted by the Bidder and any named Subcontractors must reflect accurate and timely information. The amount set forth in the Uncompleted Contracts Form must reflect the amount of uncompleted work as of the date of the bid submission, or the date of the response to the RFP. In no instances will Uncompleted Contracts forms be acceptable where the date of the Form is greater than 120 days prior to the due date for bid or proposal submissions.
3. If the Bidder will be performing work with its "own forces" in any of the trades listed in the Bid Advertisement, the Bidder must be properly classified and pre-qualified to perform such work in the named trades, and must state its intention to perform such work with its "own forces." Failure to so state, and/or failure to indicate what firms will be performing the work in the trades identified in the Bid Advertisement, may cause the bid to be rejected.

C. Subcontractors:

1. The Bidder **MUST** name the Design Consultant to be engaged as the Design-Builder's Design Consultant, and all subcontractors that will be performing work in any of the trades listed in the Bid Advertisement or required by statute.
2. In accordance with the requirements of N.J.S.A. 52:18A-243, each bidder (or "design-builder") is required to set forth in its bid the name or names of all subcontractors to whom the design-builder will directly subcontract for the furnishing of any of the work and materials specified in the plans and specifications for the following branches: (1) the plumbing and gas fitting and all work and materials kindred thereto ("Plumbing Branch"); (2) the steam and hot water heating and ventilating apparatus, steam power plants and all work and materials kindred thereto ("HVACR Branch"); (3) the electrical work ("Electrical Branch"); and (4) structural steel and miscellaneous iron work and materials ("Structural Steel Branch").
3. When naming subcontractors in accordance with Section C.2 above, a design-builder is required to name only those subcontractors that are engaged directly by the Design-Builder ("first-tier subcontractors"). Design-Builders are **NOT REQUIRED** to name any subcontractors engaged by the first-tier subcontractors or by others (e.g., "second-tier subcontractors" or "third-tier subcontractors.")

4. The Design Consultant to be engaged as the Design-Builder's Design Consultant must be prequalified by the Department of the Treasury, Division of Property Management and Construction in the discipline of Architecture (P001); pre-qualified by the NJSDA in the discipline of Architecture (P001) and registered with the Department of Treasury, Division of Revenue.
5. All listed subcontractors identified in accordance with Sections C.1. and C.2. above must be classified by the Department of the Treasury, Division of Property Management and Construction in all applicable trades; pre-qualified by the NJSDA in all applicable trades; registered with the Department of Labor; and registered with the Department of the Treasury, Division of Revenue; and must provide valid contractor or trade licenses where applicable at the time of submission of this bid.
6. All Bidders **MUST** submit a copy of the Uncompleted Contracts Form for any subcontractor identified in the bid advertisement. Uncompleted Contracts forms submitted by the Bidder and any named Subcontractors must reflect accurate and timely information. The amount set forth in the Uncompleted Contracts Form must reflect the amount of uncompleted work as of the date of the bid submission, or the date of the response to the RFP. In no instances will Uncompleted Contracts forms be acceptable where the date of the Form is greater than 120 days prior to the due date for bid or proposal submissions.
7. The Bidder shall list the SBE status of each subcontractor, where applicable.

D. SBE Opportunities:

1. The Bidder agrees it shall make a good faith effort to meet the requirements of the SBE Utilization Attachment contained in the Contract Documents in order to ensure that small business enterprises, as defined in that attachment and in applicable regulation, have the maximum opportunity to compete for and perform subcontracts.
2. The NJSDA requires the Design-Builder to provide opportunities to SBE firms to participate in the performance of this engagement, consistent with NJSDA SBE set aside goals of 25%, awarding 5% of the contract value to registered Category 4 SBE firms; 5% of the contract value to registered Category 5 SBE firms; and 5% of the contract value to registered Category 6 SBE firms; and 10% of the contract value to SBE firms registered in any of the three Categories. Similarly, the NJSDA requires the Design Builder and its Design Consultant to provide opportunities to SBE firms to participate in the performance of this engagement, consistent with NJSDA's consultant SBE set aside goals of 25%, awarding 5% of the contract value to registered Category 1 SBE firms; 5% of the contract value to registered Category 2 SBE firms; and 5% of the contract value to registered Category 3 SBE firms; and 10% of the contract value to SBE firms registered in any of the three Categories.

=====

GENERAL CONSTRUCTION WORK:

Firm	Address	
SBE Status	DOL Contractor Registration #	Federal I.D. #

DESIGN-BUILDER's DESIGN CONSULTANT:

Firm	Address	
_____	_____	
SBE Status	NJ Professional License #	Federal I.D. #
_____	_____	_____

PLUMBING AND GAS FITTING BRANCH WORK: The bidder must identify a subcontractor that is DPMC classified in the trade of Plumbing (C030), unless the bidder intends to self-perform for this trade. If the bidder intends to self-perform, the bidder must identify itself as self-performing in the trade of Plumbing (C030). If the bidder will contract with any additional subcontractors with DPMC Trade Classifications in the Plumbing trade or other trades applicable to this branch, each such additional subcontractor must be identified.

Firm	Address	
_____	_____	
SBE Status	DOL Contractor Registration #	Federal I.D. #
_____	_____	_____

Additional Plumbing Branch Subcontractor(s): Note DPMC Classification: _____

Firm	Address	
_____	_____	
SBE Status	DOL Contractor Registration #	Federal I.D. #
_____	_____	_____

Additional Plumbing Branch Subcontractor(s): Note DPMC Classification: _____

Firm	Address	
_____	_____	
SBE Status	DOL Contractor Registration #	Federal I.D. #
_____	_____	_____

HVACR BRANCH WORK: The bidder must identify a subcontractor that is DPMC classified in the trade of HVACR (C032) OR an HVAC Contractor classified in the former DPMC classification of C039 may also satisfy the HVACR (C032) requirement, if a bona-fide representative linked to the Contractor has applied to be "grandfathered in" under the new Master Heating, Ventilating, Air Conditioning, and Refrigeration license offered by the State Board of Examiners for Heating, Ventilating, Air Conditioning and Refrigeration Contractors pursuant to N.J.A.C. 45:16A-26. Such a C039 Contractor or subcontractor must supply a copy of the "grandfathering" license application, as well as proof of payment of application fee, unless the bidder intends to self-perform for this trade. If the bidder intends to self-perform, the self-performing bidder must provide proof of the required HVACR license by providing evidence that a bona-fide representative of the firm holds a Master HVACR license, or providing evidence that a principal or employee of the firm has applied to be "grandfathered in" to the Master HVACR license based on experience without meeting education and examination requirements under N.J.A.C. 45:16A-26. If the bidder will contract with any additional subcontractors with DPMC Trade Classifications in the HVACR trade or other trades applicable to this branch, each such additional subcontractor must be identified.

Firm Address

SBE Status DOL Contractor Registration # Federal I.D. #

Additional HVACR Branch Subcontractor(s): Note DPMC Classification: _____

Firm Address

SBE Status DOL Contractor Registration # Federal I.D. #

Additional HVACR Branch Subcontractor(s): Note DPMC Classification: _____

Firm Address

SBE Status DOL Contractor Registration # Federal I.D. #

ELECTRICAL BRANCH WORK: The bidder must identify a subcontractor that is DPMC classified in the trade of Electrical (C047), unless the bidder intends to self-perform for this trade. If the bidder intends to self-perform, the bidder must identify itself as self-performing in the trade of Electrical (C047). If the bidder will contract with any additional subcontractors with DPMC Trade Classifications in the Electrical trade or other trades applicable to this branch, each such additional subcontractor must be identified.

Firm Address

SBE Status DOL Contractor Registration # Federal I.D. #

Additional Electrical Branch Subcontractor(s): Note DPMC Classification: _____

Firm Address

SBE Status DOL Contractor Registration # Federal I.D. #

Additional Electrical Branch Subcontractor(s): Note DPMC Classification: _____

Firm Address

SBE Status DOL Contractor Registration # Federal I.D. #

STRUCTURAL STEEL AND MISCELLANEOUS IRON WORK BRANCH: The bidder must identify a subcontractor that is DPMC classified in the trade of Structural Steel (C029), unless the bidder intends to self-perform for this trade. If the bidder intends to self-perform, the bidder must identify itself as self-performing in the trade of Structural Steel (C029). If the bidder will contract with any additional subcontractors with DPMC Trade Classifications in the Structural Steel trade or other trades applicable to this branch, each such additional subcontractor must be identified.

Firm	Address
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SBE Status	DOL Contractor Registration #	Federal I.D. #
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Additional Structural Steel Branch Subcontractor(s): Note DPMC Classification: _____

Firm	Address
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SBE Status	DOL Contractor Registration #	Federal I.D. #
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Additional Structural Steel Branch Subcontractor(s): Note DPMC Classification: _____

Firm	Address
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SBE Status	DOL Contractor Registration #	Federal I.D. #
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OTHER TRADE CLASSIFICATIONS NAMED IN BID ADVERTISEMENT AND/OR RFP (Name Trade Classification): _____

Firm	Address
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SBE Status	DOL Contractor Registration #	Federal I.D. #
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E. Price:

1. The undersigned, as Bidder, declares:
 - That this Price Proposal is made, without collusion with any other person, firm or corporation;
 - That the Bidder has carefully examined the RFP and the forms of the Project Manual, Design Build Contract, Design Build Information Package, Addenda, Specifications, Drawings and all other Contract Documents;
 - That the Bidder has carefully examined the locations, conditions and classes of material for the proposed work;

- That the Bidder agrees that it will provide all necessary design services, machinery, tools, apparatus and other means of construction and will do all Services and Work and furnish all the materials called for in the Design Build Contract Documents in the manner therein prescribed; and
- That this Price Proposal is submitted Net of Insurance, excluding all applicable insurance expenses and policy costs allocated to the on-site activities of the project with respect to Workers' Compensation and Employer's Liability, Commercial General Liability, Excess/Umbrella Liability and Builder's Risk insurance.

2. In submitting this Price Proposal, the Bidder agrees:

- That the NJSDA has the right to reject this Price Proposal in accordance with the terms of the RFP.
- To hold this Price Proposal open for a period of one hundred twenty (120) calendar days from the date of the public opening and reading of the Price Proposals, unless this time period is extended by mutual agreement of the Bidder and the NJSDA.
- To accomplish the work at the price bid, in accordance with the Contract Documents.

3. Base Bid Price:

- Total amount for the furnishing of all design and construction administration services, labor, materials, services, equipment and appliances required in conjunction with and properly incidental to all Services and Work, in conformance with all Design Build Contract Documents. **The price of allowances listed in the Specifications and/or by Addenda (um) must be included in the Base Bid Price.**
- In case of a discrepancy between the amount shown in words and the amount shown in figures, **the amount shown in words shall govern.**
- **The Public Opening and Reading of the Price is for informational purposes only and is not to be construed as an acceptance or rejection of any bid submitted.**

1. Design Services: \$ _____

2. Construction Services: \$ _____

3. GMP Reserve* \$ 1,367,000

* GMP Reserve Includes: \$500,000 General Design and Construction Allowance; \$125,000 Fire Pump Allowance; \$145,000 Emergency Responder System Allowance; \$200,000 Sewer Connection Allowance; \$250,000 Building Envelope Acoustical Enhancement Allowance; and \$147,000 Terrazzo Flooring Allowance.

TOTAL BID PRICE: _____
(Sum of all three items) (In Words)

\$ _____
(In Figures)

4. Bid Bond:

The Bidder shall attach to this Price Proposal a Bid Bond, having a value of ten percent (10%) of the total base bid amount. Bid Bonds shall be returned to all unsuccessful Bidders in accordance with the Instructions to Bidders.

5. Addenda:

The Bidder acknowledges receipt and incorporated into this bid of the following Addenda:

Number: _____

Dated: _____

F. CERTIFICATION

The Bidder hereby certifies to the best of its knowledge and belief and under penalty of perjury under the laws of the United States and the State of New Jersey:

1. That all information provided herein is accurate and truthful.
2. That an affirmative action program of equal employment opportunity, pursuant to P.L. 1945, c. 169, the "New Jersey Law Against Discrimination," as supplemented and amended has been adopted by this organization to ensure that applicants are employed and employees are treated without regard to their race, creed, color, national origin, ancestry, marital status, sex, or affectional or sexual orientation, and that the selection and utilization of contractors, subcontractors, consultants, materials suppliers and equipment lessors shall be done without regard to their race, creed, color, national origin, ancestry, marital status, sex, or affectional or sexual orientation. Such action shall include but not be limited to the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeships. The Bidder agrees to post in conspicuous places, available to employees and applicants for employment, Notices to be provided by the NJSDA's Compliance Officer setting forth provisions of this nondiscrimination clause. Said affirmative action program addresses both the internal recruitment, employment and utilization of minorities and the external recruitment policy regarding minority contractors, subcontractors, consultants, materials suppliers and equipment lessors.
3. That the bid has been executed with full authority to do so; that the Bidder has not directly or indirectly entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free, competitive bidding in connection with these projects; and that all statements contained in this bid and in this certification are true and correct and made with full knowledge that the NJSDA relies upon the truth of the statements contained in this bid and in the statements contained in this certification in awarding the contract for the projects.
4. That neither the Bidder nor its principals:
 - A. are currently debarred, suspended, proposed for debarment, declared ineligible, or excluded from bidding or contracting by, any agency of government including but not limited to federal, state, regional, county or local government agency, in this or any other state including any department, division, commission, authority, office,

- branch, section and political subdivision or other governmental or quasi-governmental entity;
- B. are voluntarily excluded from bidding or contracting, or have agreed to voluntarily refrain from bidding or contracting, through an agreement with any agency of government including but not limited to federal, state, regional, county or local government agency, in this or any other state including any department, division, commission, authority, office, branch, section and political subdivision or other governmental or quasi-governmental entity;
 - C. have, within a three-year period preceding this bid, been convicted or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain or performing a public federal, state or local contract; violation of federal or state antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
 - D. are currently indicted for or otherwise criminally or civilly charged by a governmental entity (federal, state or local) with commission of any of the offenses enumerated in paragraph (B) of this certification; and
 - E. have, within a three-year period preceding this bid, had one or more public contracts (federal, state or local) terminated for cause or default.
5. The Bidder has a current, valid registration issued pursuant to the “Public Works Contractor Registration Act, “P.L. 1999, c. 238 (c. 34:11-56.48 et. seq)”.
 6. The Bidder has a current, valid Business Registration Certificate for State Agency and Casino Service Contractors issued by the NJ Department of Treasury to perform work in New Jersey.
 7. The Bidder has current, valid contractor or trade licenses and permits required under applicable New Jersey law for any trade or specialty area in which the firm seeks to perform work.
 8. That the Bidder will comply with Public Law 2005, Chapter 51 (N.J.S.A. 19:44A-20.13- through N.J.S.A. 19:44A- 20.25, superseding Executive Order 134 (2004)) and as amended by Executive Order 117 (2008), and submit a N.J. Division of Purchase and Property “Two-Year Chapter 51/Executive Order 117 Vendor Certification & Disclosure of Political Contributions” and “Ownership Disclosure Form” if awarded the bid.
 9. That the Bidder is aware of its continuing responsibility to file an annual disclosure statement on “contributions” as that term is defined in P.L. 2005, c. 51 (formerly Executive Order 134 (2004)) or any “Business Entity,” as that term is defined in P.L. 2005, c. 51, associated with the Bidder, on the “Disclosure of Political Contribution” form provided by the NJSDA, at the time such contribution is made.” This applies to the contractor if the contractor receives contracts in excess of \$50,000 from a public entity in a calendar year. It is the contractor's responsibility to determine if filing is necessary. Failure to so file can result in the imposition of financial penalties by ELEC. Additional information about this requirement is available from ELEC at 888-313-3532 or at www.elec.state.nj.us .
 10. During the term of construction of the project(s) that comprise this package, the Bidder will have in place a suitable quality control and quality assurance program and an appropriate safety and health plan.
 11. The amount of the Price Proposal and the value of the Bidder’s outstanding incomplete contracts does not exceed the Bidder’s Aggregate Rating.

12. Where the Bidder is unable to certify to any of the statements in this certification, the Bidder shall explain below.

IN WITNESS WHEREOF, the Bidder has caused this instrument to be signed, attested to and sealed.

Bidder: _____
(Legal Firm Name)

By: _____
(Signature) _____
(Printed or Typed Name)

Title: _____

Address: _____

Telephone No.: _____

Fax No.: _____

Date: _____

Witness: _____

Printed or Typed Name: _____

Date: _____



END OF PRICE PROPOSAL

ATTACHMENT 3.2

SECTION 01600 - PRODUCTS AND SUBSTITUTIONS

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

- A. Drawing and General Provisions of Contract, including but not limited to, General and supplementary Conditions and other Division 1, Specification Sections, apply to work of this Section.

1.2. QUALITY ASSURANCE

- A. Source Limitations: To the fullest extent possible, provide products of the same generic kind, from a single source, for each unit of work.
- B. Approval: Any substitutions must be approved by the Construction Manager and the Authority.

1.3. SUBMITTALS

A. Product Listing Submittal

1. General: Prepare a product-listing schedule in a form acceptable to the Authority. For principal products required for the Work which have been specified through Basis of Design, provide the name of the manufacturer and product information for each item listed that is to be purchased and incorporated into the Work.
2. Form: Prepare the product-listing schedule with information on each item tabulated under the following scheduled column headings:
 - a. Related unit-of-work Specification Section number
 - b. Generic product/material name as used in Design-Build Contract Documents
 - c. Basis of Design - Specified manufacturer, proprietary name, model number and similar product designation or description
 - d. Proposed manufacturer, proprietary name, model number and similar product designation or description. (If Basis of Design, so state)
 - e. Blank Column for Authority response
3. Submittal: Within fifteen (15) days after Final Design acceptance by the Authority, submit complete list of all products and materials which are proposed for installation to the Authority in both paper and native electronic format.
4. Action by the Authority: The Authority will respond to the Design-Builder in writing within two (2) week of receipt of the product-listing schedule. For each identified item, the response will include the following:
 - a. Acceptance of the proposed substitution.

SECTION 01600 - PRODUCTS AND SUBSTITUTIONS

- b. A request for a detailed Substitution Request Submittal in accordance with the requirements of this Section.
- B. Substitution Request Submittal: Any substitutions must be acceptable to the Authority.
- 1. Requests for Substitutions: Submit five (5) copies of each request for substitution. In each request identify the product or fabrication or installation method to be replaced by the substitution; include related Specification Section and Drawing numbers, and complete documentation for substitutions. Include the following information, as appropriate, with each request.
 - a. Provide complete product data, drawings and descriptions of products, and fabrication and installation procedures.
 - b. Provide samples of the proposed item, where applicable.
 - c. A side-by-side comparison of the salient physical, functional and performance characteristics of the specified product and those of the proposed substitution product.
 - d. Provide a certification by the Design-Builder to the effect that, in the Design-Builder's opinion, after thorough evaluation, the proposed substitution will result in work that in every significant respect is equal to, or better than, the work required by the Design-Build Contract Documents, and that the proposed substitution will perform adequately in the application indicated.
 - e. Include in this certification the Design-Builder's waiver of rights to any additional compensation or extension of the Contract Time relating to the incorporation and/or use of the requested substitution, or any delays or costs relating to any repairs, replacement or correction of damage caused by the failure of the substitution to perform adequately.
 - 2. Substitution Request Form: Submit requests for substitution in a form acceptable to the Authority.
 - 3. Action by the Construction Manager and the Authority: Within one (1) week of receipt of Design-Builder's request for substitution, the Construction Manager and the Authority will request any additional information or documentation as may be needed for evaluation of the request. Within two (2) weeks of receipt of the substitution request, or within one (1) week of receipt of the requested additional information or documentation, whichever is later, the Authority will notify the Design-Builder of either the acceptance or rejection of the proposed substitution, and, in the case of a rejection, the Authority will supply a statement of the reasons for such rejection.

1.4. PRODUCT DELIVERY, STORAGE AND HANDLING

- A. General: Deliver, store, and handle products in accordance with manufacturer's recommendations, using means and methods that will prevent damage, deterioration and loss including theft. Control delivery schedule to minimize long-term storage at the site

SECTION 01600 - PRODUCTS AND SUBSTITUTIONS

and to prevent overcrowding of construction spaces. In particular coordinate delivery and storage times for items known or recognized to be flammable, hazardous, easily damaged or sensitive to deterioration, theft and other source of loss.

PART 2 - PRODUCTS

2.1 GENERAL PRODUCTS COMPLIANCE

- A. Procedures for Selecting Products: The Design-Builder’s options in selecting products are limited by requirements of the Design-Build Contract Documents and governing regulations. When selecting products for incorporation and use in the Project, the Design-Builder may not rely upon industry traditions or procedures experienced by the Design-Builder on previous construction projects. Required procedures include but are not limited to the following for the various indicated methods of specifying.
- B. “Materials and Systems Standards” or Non-Specified Items: All products, items, articles, equipment and methods of construction to be used or incorporated into the Project are required to comply with the NJSDA’s published “Materials and Systems Standards Manual” including Design Requirements and Construction Details, as well as any specific applicable Proprietary Item identification, Basis of Design criteria or Performance Criteria specified for such product, item, article, equipment or method. In other words, when selecting products, items, articles or equipment for the Project, the Design-Builder should satisfy both the Materials and Systems Standards and any specific standards or criteria provided for the specification or selection of such product or item. In the event of an actual conflict between the Materials and Systems standards and the specific designation of a Proprietary Item, or a Basis of Design item, or the project-specific designation of a specific item by functional description or performance criteria, then the proprietary item identification, basis of design description, or designated performance criteria shall take precedence over any contrary guidance in the Materials and Systems Standards.
1. The Design-Builder must select and supply a product that meets or exceeds the enumerated features, functions, capacities or qualities represented by the Materials and Systems Standards and that satisfies any applicable specific Proprietary Item designation, Basis of Design standard, or specific Performance Criteria supplied for such product or item by the Design Build Information Package.
 2. If no applicable separate Proprietary Item designation, Basis of Design standard, or specific Performance Criteria applies to such product or item, the Design-Builder must select and supply a product that meets or exceeds the enumerated features, functions, capacities or qualities represented by the Materials and Systems Standards.
 3. The Design-Builder must submit a substitution request to propose the use of a product that deviates from the enumerated features, functions, capacities or qualities established by the Materials and Systems Standards, and the Authority is under no obligation to accept or approve such substitution request.
- C. “Basis of Design” specifications: Where articles, devices, materials, equipment, forms of construction, fixtures, products or other items named in the specifications by brand

SECTION 01600 - PRODUCTS AND SUBSTITUTIONS

name or manufacturer, such identification by brand name or manufacturer is intended to establish a Basis of Design standard, unless the particular items named are otherwise specifically identified as approved Proprietary Items in the specification or elsewhere in the Design-Build Information Package. The Basis of Design standard establishes the quality, and salient physical, functional and performance characteristics that must be met in the design and construction of the project.

1. The Design-Builder must select and supply a product that meets or exceeds the salient physical, functional and performance characteristics represented by the items named as Basis of Design standards. It is not the intent of the Authority in identifying such Basis of Design items by brand name or manufacturer to limit the Design-Builder's options to a single product or manufacturer, except for those products specifically called for by brand name or manufacturer as Proprietary Items.
 2. If requested by the Authority, the Design-Builder must submit a substitution request to propose the use of a product that deviates from the Basis of Design established by the products or manufacturers named in a Basis of Design specification, and the Authority is under no obligation to accept or approve such substitution request.
- D. "Proprietary Items" specifications: Where certain products or manufacturers are identified by specific brand name or manufacturer name, and are further described or identified as "Proprietary Items" approved for use on the Project, only those specific products or manufacturers identified by name as Proprietary Items may be selected and used on the Project.
1. The Design-Builder must supply the approved Proprietary Item for use on the Project. The Design-Builder must submit a substitution request to propose the use of a product other than a Proprietary Item named in a specification, and the Authority is under no obligation to consent to such substitution, and is unlikely to consent to a substitution, except in cases of unavailability of the specified Proprietary Item. The Design-Builder must advise the Authority and the Construction Manager immediately upon becoming aware that a Proprietary Item is unavailable for use on the Project. The Design-Builder may not proceed with design services or construction work involving or affected by the specification, use or installation of a Proprietary Item, without advising the Authority and the Construction Manager that the specified Proprietary Item is unavailable for use on the Project.
- E. "Performance Criteria" specifications: Where products, articles, items or equipment are not described by reference to a product name or manufacturer, but are instead described in terms of specifically described or enumerated features, functions, capacities or qualities of a product, item, piece of equipment or article, then those descriptions of salient features, functions, capacities or qualities are referred to as Performance Criteria standards, and the Design-Builder must comply with the enumerated Performance Criteria when choosing, specifying and incorporating such a product, item, piece of equipment or article in the construction of the project.

SECTION 01600 - PRODUCTS AND SUBSTITUTIONS

1. The Design-Builder must select and supply a product that meets or exceeds the enumerated features, functions, capacities or qualities represented by the Performance Criteria standards.
2. The Design-Builder must submit a substitution request to propose the use of a product that deviates from the enumerated features, functions, capacities or qualities established by a Performance Criteria standard, and the Authority is under no obligation to accept or approve such substitution request.

2.2 SUBSTITUTIONS

- A. Conditions: The Design-Builder's request for a substitution will be considered when the use of the proposed substitution will not require extensive revisions to the Design-Build Contract Documents, when the proposed substitution and any required contract changes are in keeping with the general intent of the Design-Build Contract Documents, the substitution request are timely, fully documented and properly submitted, and when the request for substitution is directly related to an "or equal" clause or similar language in the Design-Build Contract Documents, all as judged by the Authority; otherwise the requests will be returned without action except to record non-compliance with these requirements.
- B. Work-Related Submittals: The Design-Builder's submittal of and the Design-Builder's Design Consultant's acceptance of shop drawings, product data or samples which relate to work not complying with requirements of the Design-Build Contract Documents, does not constitute an acceptance or valid request for a substitution, nor approval thereof.

2.3 GENERAL PRODUCT REQUIREMENTS

- A. General: Provide products that comply with the requirements of the Design-Build Contract Documents and that are undamaged and, unless otherwise indicated, unused at the time of installation. Provide products that are complete with all other devices and details needed for a complete installation and for the intended use and effect.

PART 3 – EXECUTION

(Not applicable)

END OF SECTION 01600

ATTACHMENT 3.3

SECTION 01600 - PRODUCTS AND SUBSTITUTIONS

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

- A. Drawing and General Provisions of Contract, including but not limited to, General and supplementary Conditions and other Division 1, Specification Sections, apply to work of this Section.

1.2. QUALITY ASSURANCE

- A. Source Limitations: To the fullest extent possible, provide products of the same generic kind, from a single source, for each unit of work.
- B. Approval: Any substitutions must be approved by the Construction Manager and the Authority.

1.3. SUBMITTALS

A. Product Listing Submittal

1. General: Prepare a product-listing schedule in a form acceptable to ~~the Construction Manager and~~ the Authority. ~~Show names of the~~ For principal products ~~s~~ required for the Work which have been specified through Basis of Design, by generic name. Provide how proprietary product names and the name of the manufacturer and product information for each item listed that is to be purchased and incorporated into the Work.
2. Form: Prepare the product-listing schedule with information on each item tabulated under the following scheduled column headings:
 - a. Related unit-of-work Specification Section number
 - ~~a.~~b. Generic product/material name as used in Design-Build Contract Documents
 - ~~b.~~c. Basis of Design - Specified manufacturer, Proprietary name, model number and similar product designation or description
 - d. Proposed manufacturer, proprietary name, model number and similar product designation or description. (If Basis of Design, so state)
 - ~~c.~~e. Reference Standard. Blank Column for Authority response
3. Submittal: Within fifteen (15) days after ~~date of Construction Notice to Proceed~~ Final Design acceptance by the Authority, submit ~~two (2) copies to the Construction Manager and one copy to the Authority of~~ complete list of all products and materials which are proposed for installation to the Authority in both paper and native electronic format.
4. Action by the ~~Construction Manager and the~~ Authority: The ~~Construction Manager and the~~ Authority will respond to the Design-Builder in writing within

SECTION 01600 - PRODUCTS AND SUBSTITUTIONS

two (2) week of receipt of the product-listing schedule. ~~No response by the Construction Manager and the Authority within the two (2) week time period constitutes no objection to the listed products or manufacturers, but does not constitute a waiver of the requirement that products comply with the requirement of the Design-Build Contract Documents. For each identified item, T~~the response will include the following:

- a. ~~A listing of unacceptable product selections, if any, containing an explanation of reasons for this action~~Acceptance of the proposed substitution.
- b. A request for ~~additional data necessary for the review and possible acceptance of the products and manufacturers listed~~a detailed Substitution Request Submittal in accordance with the requirements of this Section.

B. Substitution Request Submittal: Any substitutions must be acceptable to ~~the Construction Manager and~~ the Authority.

1. Requests for Substitutions: Submit five (5) copies of each request for substitution. In each request identify the product or fabrication or installation method to be replaced by the substitution; include related Specification Section and Drawing numbers, and complete documentation for substitutions. Include the following information, as appropriate, with each request.
 - a. Provide complete product data, drawings and descriptions of products, and fabrication and installation procedures.
 - b. Provide samples of the proposed item, where applicable.
 - c. ~~Provide complete cost information, including a proposal of the net change, if any, in the Contract Price, caused by incorporation or use of the proposed substitution.~~A side-by-side comparison of the salient physical, functional and performance characteristics of the specified product and those of the proposed substitution product.
 - d. Provide a certification by the Design-Builder to the effect that, in the Design-Builder's opinion, after thorough evaluation, the proposed substitution will result in work that in every significant respect is equal to, or better than, the work required by the Design-Build Contract Documents, and that the proposed substitution will perform adequately in the application indicated.
 - e. Include in this certification the Design-Builder's waiver of rights to any additional compensation or extension of the Contract Time relating to the incorporation and/or use of the requested substitution, or any delays or costs relating to any repairs, replacement or correction of damage caused by the failure of the substitution to perform adequately.
2. Substitution Request Form: Submit requests for substitution in a form acceptable to the Authority.

SECTION 01600 - PRODUCTS AND SUBSTITUTIONS

3. Action by the Construction Manager and the Authority: Within one (1) week of receipt of Design-Builder's request for substitution, the Construction Manager and the Authority will request any additional information or documentation as may be needed for evaluation of the request. Within two (2) weeks of receipt of the substitution request, or within one (1) week of receipt of the requested additional information or documentation, whichever is later, the Authority will notify the Design-Builder of either the acceptance or rejection of the proposed substitution, and, in the case of a rejection, the Authority will supply a statement of the reasons for such rejection.

1.4. PRODUCT DELIVERY, STORAGE AND HANDLING

- A. General: Deliver, store, and handle products in accordance with manufacturer's recommendations, using means and methods that will prevent damage, deterioration and loss including theft. Control delivery schedule to minimize long-term storage at the site and to prevent overcrowding of construction spaces. In particular coordinate delivery and storage times for items known or recognized to be flammable, hazardous, easily damaged or sensitive to deterioration, theft and other source of loss.

PART 2 - PRODUCTS

2.1 GENERAL PRODUCTS COMPLIANCE

- A. Procedures for Selecting Products: The Design-Builder's options in selecting products are limited by requirements of the Design-Build Contract Documents and governing regulations. When selecting products for incorporation and use in the Project, the Design-Builder may not rely upon industry traditions or procedures experienced by the Design-Builder on previous construction projects. Required procedures include but are not limited to the following for the various indicated methods of specifying.
 - B. "Materials and Systems Standards" or Non-Specified Items: All products, items, articles, equipment and methods of construction to be used or incorporated into the Project are required to comply with the NJSDA's published "Materials and Systems Standards Manual" including Design Requirements and Construction Details, as well as any specific applicable Proprietary Item identification, Basis of Design criteria or Performance Criteria specified for such product, item, article, equipment or method. In other words, when selecting products, items, articles or equipment for the Project, the Design-Builder should satisfy both the Materials and Systems Standards and any specific standards or criteria provided for the specification or selection of such product or item. In the event of an actual conflict between the Materials and Systems standards and the specific designation of a Proprietary Item, or a Basis of Design item, or the project-specific designation of a specific item by functional description or performance criteria, then the proprietary item identification, basis of design description, or designated performance criteria shall take precedence over any contrary guidance in the Materials and Systems Standards.
 1. The Design-Builder must select and supply a product that meets or exceeds the enumerated features, functions, capacities or qualities represented by the Materials and Systems Standards and that satisfies any applicable specific Proprietary Item designation, Basis of Design standard, or specific Performance

SECTION 01600 - PRODUCTS AND SUBSTITUTIONS

Criteria supplied for such product or item by the Design Build Information Package.

2. If no applicable separate Proprietary Item designation, Basis of Design standard, or specific Performance Criteria applies to such product or item, the Design-Builder must select and supply a product that meets or exceeds the enumerated features, functions, capacities or qualities represented by the Materials and Systems Standards.
 3. The Design-Builder must submit a substitution request to propose the use of a product that deviates from the enumerated features, functions, capacities or qualities established by the Materials and Systems Standards, and the Authority is under no obligation to accept or approve such substitution request.
- C. “Basis of Design” specifications: Where articles, devices, materials, equipment, forms of construction, fixtures, products or other items named in the specifications by brand name or manufacturer, such identification by brand name or manufacturer is intended to establish a Basis of Design standard, unless the particular items named are otherwise specifically identified as approved Proprietary Items in the specification or elsewhere in the Design-Build Information Package. The Basis of Design standard establishes the quality, and salient physical, functional and performance characteristics that must be met in the design and construction of the project.
1. The Design-Builder must select and supply a product that meets or exceeds the salient physical, functional and performance characteristics represented by the items named as Basis of Design standards. It is not the intent of the Authority in identifying such Basis of Design items by brand name or manufacturer to limit the Design-Builder’s options to a single product or manufacturer, except for those products specifically called for by brand name or manufacturer as Proprietary Items.
 2. If requested by the Authority, The Design-Builder must submit a substitution request to propose the use of a product that deviates from the Basis of Design established by the products or manufacturers named in a Basis of Design specification, and the Authority is under no obligation to accept or approve such substitution request.
- D. “Proprietary Items” specifications: Where certain products or manufacturers are identified by specific brand name or manufacturer name, and are further described or identified as “Proprietary Items” approved for use on the Project, only those specific products or manufacturers identified by name as Proprietary Items may be selected and used on the Project.
1. The Design-Builder must supply the approved Proprietary Item for use on the Project. The Design-Builder must submit a substitution request to propose the use of a product other than a Proprietary Item named in a specification, and the Authority is under no obligation to consent to such substitution, and is unlikely to consent to a substitution, except in cases of unavailability of the specified Proprietary Item. The Design-Builder must advise the Authority and the Construction Manager immediately upon becoming aware that a Proprietary Item is unavailable for use on the Project. The Design-Builder may not proceed with

SECTION 01600 - PRODUCTS AND SUBSTITUTIONS

design services or construction work involving or affected by the specification, use or installation of a Proprietary Item, without advising the Authority and the Construction Manager that the specified Proprietary Item is unavailable for use on the Project.

- E. “Performance Criteria” specifications: Where products, articles, items or equipment are not described by reference to a product name or manufacturer, but are instead described in terms of specifically described or enumerated features, functions, capacities or qualities of a product, item, piece of equipment or article, then those descriptions of salient features, functions, capacities or qualities are referred to as Performance Criteria standards, and the Design-Builder must comply with the enumerated Performance Criteria when choosing, specifying and incorporating such a product, item, piece of equipment or article in the construction of the project.
1. The Design-Builder must select and supply a product that meets or exceeds the enumerated features, functions, capacities or qualities represented by the Performance Criteria standards.
 2. The Design-Builder must submit a substitution request to propose the use of a product that deviates from the enumerated features, functions, capacities or qualities established by a Performance Criteria standard, and the Authority is under no obligation to accept or approve such substitution request.

2.2 SUBSTITUTIONS

- A. Conditions: The Design-Builder’s request for a substitution will be considered when the use of the proposed substitution will not require extensive revisions to the Design-Build Contract Documents, when the proposed substitution and any required contract changes are in keeping with the general intent of the Design-Build Contract Documents, the substitution request are timely, fully documented and properly submitted, and when the request for substitution is directly related to an “or equal” clause or similar language in the Design-Build Contract Documents, all as judged by ~~the Construction Manager and~~ the Authority; otherwise the requests will be returned without action except to record non-compliance with these requirements.
- B. Work-Related Submittals: The Design-Builder’s submittal of and the Design-Builder’s Design Consultant’s acceptance of shop drawings, product data or samples which relate to work not complying with requirements of the Design-Build Contract Documents, does not constitute an acceptance or valid request for a substitution, nor approval thereof.

2.3 GENERAL PRODUCT REQUIREMENTS

- A. General: Provide products that comply with the requirements of the Design-Build Contract Documents and that are undamaged and, unless otherwise indicated, unused at the time of installation. Provide products that are complete with all other devices and details needed for a complete installation and for the intended use and effect.

PART 3 – EXECUTION

(Not applicable)

SECTION 01600 - PRODUCTS AND SUBSTITUTIONS

END OF SECTION 01600

ATTACHMENT 3.4

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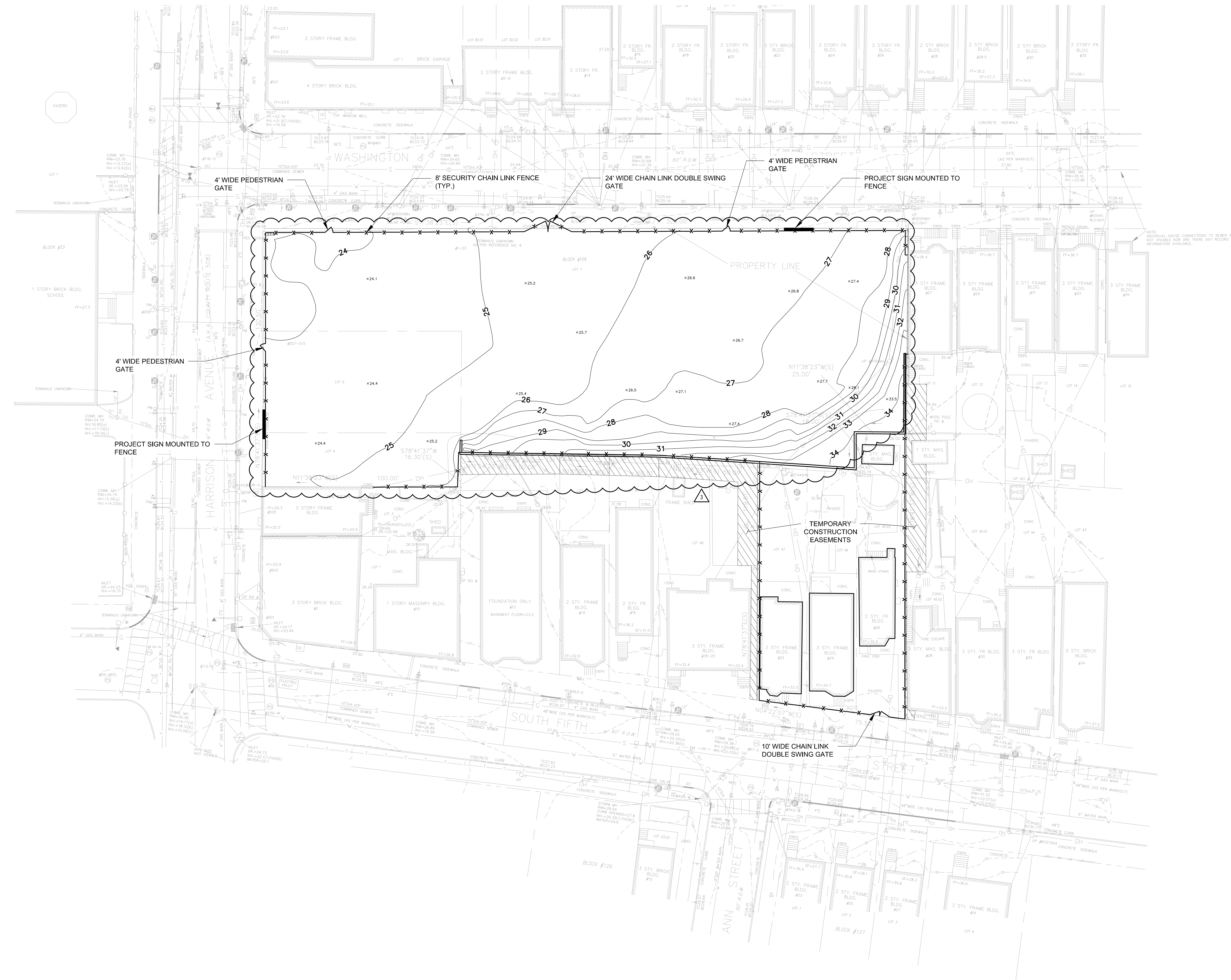
E

D

C

B

A



STATE OF NEW JERSEY
SCHOOLS DEVELOPMENT AUTHORITY
32 EAST FRONT STREET, TRENTON, NEW JERSEY 08625



PROJECT TITLE

NEW HARRISON
ELEMENTARY SCHOOL
FOR
HARRISON SCHOOL DISTRICT
HARRISON, NEW JERSEY

SCALE 1"=20'-0" (30"x42")
DRAWN BY GB
CHECKED BY MM
APPROVED BY RB
DATE 07/07/2016

REVISIONS	SYMBOL	DATE	DESCRIPTION
3		09/09/16	ADDENDUM 3

DRAWING TITLE

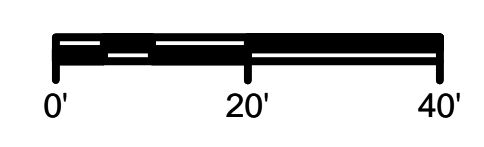
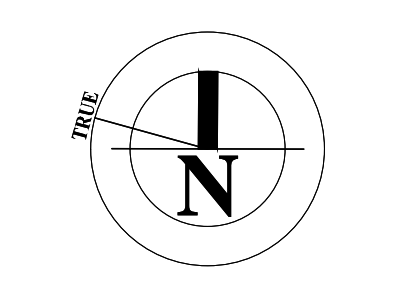
POST-ESP
ANTICIPATED
CONDITIONS
PLAN

D.O.E. PROJECT # 2060-N03-15-1000
S.D.A. PROJECT # 2060-N03-15-OAEJ
DRAWING #

1

POST-ESP ANTICIPATED CONDITIONS PLAN

1"=20'-0"



C-104

ATTACHMENT 3.5



August 30, 2016

Kevin Niemeyer
New Jersey Schools Development Authority
32 East Front Street, Fifth Floor
Trenton, New Jersey 08625

**RE: As-Built Conditions – Post-Early Site Package
Proposed Harrison Elementary School
Hudson County, Harrison, New Jersey**

Dear Mr. Niemeyer,

Louis Berger has prepared this Existing Conditions Letter Report on behalf of the New Jersey School Development Authority (NJSDA) to document existing surface and subsurface conditions at the site following completion of the Early Site Package (ESP). The current property address is 507-515 Harrison Avenue in the Town of Harrison, Hudson County, New Jersey (hereinafter referred to as the “Site”). The Site consists of Block 158, Lots 4, 5, and 7, which served as a parking lot for the Harrison School District since 1998, and Lots 45.03, 46 and 47, which adjoin the District’s property, and are currently occupied by residential structures. The residential properties were purchased by the NJSDA to support the Project. **Figure 1** presents the annotated U.S. Geological Survey (USGS) 7.5-minute quadrangle (Elizabeth, NJ-NY, 1995) showing the Site location, local topography, drainage, and cultural features. **Figure 2** is a Site Plan showing the Site property and the surrounding area. The Site is surrounded by residential, commercial, and public school properties.

According to information developed as part of Louis Berger’s Preliminary Assessment Report, prior to being redeveloped as a parking lot, portions of the Site had contained at least two generations of improvements, remnants of which were known or suspected to remain buried at the Site, but not documented. From April 18, 2016 through August 20, 2016 Ambient LLC, (Ambient) completed an Early Site Preparation (ESP) Project at the Site to identify and remove or document potential obstructions to site re-development and to implement an initial phase of environmental remedial action. The remainder of the remedial actions will focus on the installation of NJDEP Presumptive Remedies, as detailed in the associated Remedial Responsibilities Plan (Berger, July 2016) and the Remedial Action Work Plan, which will be completed through the Design-Builder’s work at the Site.

Ambient’s work included:

- Removal of the asphalt and subbase gravel from the parking lot;
- Removal of approximately two feet of surficial “Historic Fill” across a large portion the parking lot;
- Removal of polychlorinated biphenyl (PCB) - impacted materials at concentrations above 10 mg/kg, as well as chlordane and dieldrin impacted materials from the remaining portion of the parking lot, with excavations to various depths;
- Removal of known foundations from beneath the parking lot that were evident at the beginning of the ESP;
- Excavation of 14 test trenches to search for remnants of former foundations (**Figure 7**);

- Excavation of 5 test trenches on the residential properties to investigate geophysical survey anomalies and develop information about those properties (**Figure 8**);
- Removal or documentation of sub-surface structures or conditions identified beneath the parking lot by the test trenches and the impacted material removal work;
- Removal of asbestos containing material (ACM) discovered while removing sub-surface structures;
- Backfilling of excavation voids and replacement of surface materials with gray quarry screenings (certified quarry material), to establish minimum design grades for drainage of that portion of the Site, for the interim between the ESP and construction of the new school;
- Coordination with PSEG for removal of the existing site light poles. Protection of the existing Verizon poles that remain on site; and,
- Securing the Site with perimeter fencing (reference C104 from the original Design Builder Information Package (DBIP) for location of fencing).

This letter report and the attached Figures document Site conditions at the completion of the ESP, as will be delivered to the Design-Builder for redevelopment. The Design-Builder is advised that the information in this letter supersedes any conflicting prior information contained in the DBIP relative to the existing conditions at the project site. This letter report works in combination with the information previously included in the DBIP. In summary:

- Portions of the Site are covered with from one to nine feet of gray quarry screenings that were imported to the Site as part of the ESP, the remainder is covered by the residential structures and associated improvements (i.e., sidewalks, a driveway, landscaping, retaining walls, fences and a shed), which will be removed by the Design-Builder. Details on the gray quarry screenings are provided in **Appendix A** of this report. The gray quarry screenings as imported by Ambient are unsuitable for use within the SSDPS/Radon System design. The site was backfilled to the current elevations as depicted on the As-Built Topographic Plan, attached to this report as **Figure 9**, generally with limited compaction, unsuitable for foundation support. The As-Built Topographic plan depicts existing elevations, as surveyed on the site in August 2016.
- Historical research, site inspections and geophysical surveys completed for the Site have identified a potential, non-regulated, underground fuel storage tank (UST – to be removed by the Design-Builder) associated with the residential property - Lot 45.03 – AOC 1B as detailed in the Site Investigation/Remedial Investigation Report and Remedial Action Workplan, Berger, July 2016, included in the original DBIP.
- Test pits at the site documented a former stone cistern located in the back yard of the residential properties – Block 158 Lot 47 - RPTP01 as detailed in the Site Investigation/Remedial Investigation Report and Remedial Action Workplan, Berger, July 2016, included in the original DBIP and on **Figure 8**. The cistern was backfilled with site soils and left in place. Its removal and coordination with NJSDA for documentation of its removal is the responsibility of the Design-Builder.
- Geotechnically unsuitable Historic Fill has been documented across the Site, consisting of a mixture of soil and demolition residuals (i.e., brick, concrete, cinders, wood fragments etc.) to depths of 12 feet from the Pre-ESP ground surface.
- The investigation trenches were advanced in various locations throughout the site. The location and size of each of the trenches is shown on **Figure 7** and **Figure 8**. The investigation trenches were excavated to a depth of approximately 8 to 10 feet below ground surface. In-place concrete foundations or slabs were not found in any of the trenches excavated throughout the site. The trenches were backfilled with the same soil that was excavated, generally without structural compaction.

- Portions of the Historic Fill are impacted by PAHs (benzo(a)anthracene, benzo(b)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene), metals and PCBs at concentrations exceeding the NJDEP's Soil Remediation Standards. These areas are delineated by Presumptive Remedy in the Remediation Responsibilities Plan, Harrison New Elementary School, Harrison, Hudson County, New Jersey, NJDEP PI Number: G000041012, July 2016. All identified PCB impacted materials at concentrations greater than 10 mg/kg have been exported from the Site – see **Figure 5**. Elevations for excavation work are derived from the Pre-ESP Existing Conditions Plan C101. Post-excavation soil sampling was conducted in order to document the remediation of the PCB contamination to the cleanup level of 10 mg/kg.
 - It is important to note that the handling and disposal of the PCB impacted material is done in coordination with the USEPA under a Self-Implementing Cleanup for High Occupancy. The Notification for Self-Implementing Onsite Cleanup to address PCB Contamination, dated May 24, 2016 and the associated approval from the USEPA, dated August 1, 2016 are attached for reference. Material with PCB concentrations greater than 50 mg/kg was excavated, transported under manifest signed by the NJSDA, and disposed at the US Ecology /Wayne Disposal, Inc. Site #2 facility in Belleville, Michigan. PCB impacted materials (at concentrations less than 50 mg/kg) are considered by USEPA to be PCB Remediation Waste subject to disposal restrictions and USEPA facility approval. Specifically, the PCB Remediation Waste generated by the ESP was transported and disposed of at the Cumberland County Landfill (CCL) located in Millville, NJ, a RCRA Subtitle D Facility. In the event that the Design-Builder finds it necessary to remove additional PCB Remediation Waste from the property, that work is subject to Section 5.12.2 of the NJSDA's Design-Build Agreement. While there is no reason to expect otherwise, there is no guarantee that these facilities will continue to receive additional material from the Site. If the facility declines additional material or if the Design-Builder chooses to use an alternate facility for the disposal of that material, the Design-Builder will be responsible for preparing all associated documentation and applications for USEPA approval, to be filed through the LSRP.
- All monitoring wells that were installed to facilitate the geotechnical and site investigations have been abandoned in a manner consistent with current NJDEP regulations.
- Multiple utilities have been documented to enter the Site, those utilities that were clearly abandoned were primarily cut at the property line or slightly into the Site, as depicted on **Figure 4** - Utility Location Map, which also includes a description of potentially active utilities, all of which will be encountered through the installation of the building. The existing site light poles within the parking lot were removed along with their infrastructure within the site boundary. The existing Verizon poles and their overhead lines were protected during work and remain for future relocation by the Design Builder in accordance with the Proposed Utility Plan, C202 from the original DBIP.
- A variety of masonry foundations were removed from the Site; however, brick, cinderblock and stone walls and associated foundations were left at the property lines to maintain the structural integrity of the sidewalk along Harrison Avenue and along Washington Street - see **Figure 5** Concrete Location Map for details. The bottom of these walls and foundations is believed to be approximately 12 feet below the sidewalk level. The bottom of the retaining wall footing located in the southeast corner of the Site is approximately four feet below the sidewalk elevation. The Design-Builder will encounter these structures while installing foundations and must plan accordingly. In addition, a concrete retaining wall along the western and southern property lines was left in place to maintain structural integrity of the adjacent properties. The western retaining wall, shown on post ESP Plan C104 is slated for removal and replacement by the Design-Builder.
- A 6 inch thick concrete slab surrounded on four sides by an 8 foot high remnant brick wall was discovered along the western property line of the site, at a depth of 10 feet below existing grade (14.5 feet below the top of the concrete retaining wall). During the excavation of this structure, the crushed and broken remnants of a steel boiler were discovered. Subsequent testing confirmed that the tank was lined with asbestos containing material (ACM). The tank remnants, the ACM and apparently impacted

soils were excavated and disposed off-site at a licensed disposal facility under USEPA permit and the supervision of a licensed asbestos abatement contractor. After all of the ACM was removed, the concrete slab was broken up with use of an excavator and removed from the excavation. The brick walls were broken up and brick fragments smaller than 1 foot, along with other excavated soil, were returned to the excavation. Larger brick fragments were removed and disposed. The limits of the former concrete slab are depicted on **Figure 5**. The backfilled material is identified on **Figure 6** as Debris Area B, which consists of mainly brick fragments, cobbles, and cinders. The Area B debris starts at approximately 3 feet below existing grade and extends down to 10 feet below grade, which corresponds to the depth of the concrete slab that was removed.

- During the excavation of the southern-most PCB area, large pieces of debris were encountered. The depth of the excavation was expanded to find the extent of the debris. At approximately 12 feet below the existing sidewalk, a 6 to 7 inch thick concrete slab and associated 18 inch thick concrete footings were discovered. The limits of the concrete slab are depicted on **Figure 5**. The concrete slab and concrete footings were removed and disposed of. The debris, consisting of brick fragments, broken cinder blocks, PVC pipes, wood, electrical wires from former electrical panel, wire mesh, silt fence, and other deleterious material, was put back into its original location and the existing soil was backfilled. This zone of buried demolition debris (Debris Area A) starts at approximately 6 feet below the top of the existing sidewalk and extends down to 12 feet below the top of the existing sidewalk, corresponding to the depth of the concrete slab that was removed, is depicted on **Figure 6** Debris Location Map.

As earlier stated within this letter, this document summarizes the work completed by Ambient at the project site from April 18, 2016 through August 20, 2016. The information within this document is based on as-built conditions and may reflect adjustments to the original design provided and permitted. The information within this document is to be used in combination with previous information provided within the DBIP and supersedes any conflicting prior information.

Sincerely,



Richard Barrington
Associate Vice President

Attachments: Figure 1- Site Location Map
Figure 2 - Site Map
Figure 3 - Investigation Trench Location Map
Figure 4 - Residential Test Pit Map
Figure 5 - PCB Removal Completed Map
Figure 6 - Utility Location Map
Figure 7 - Concrete Location Map
Figure 8 - Debris Location Map

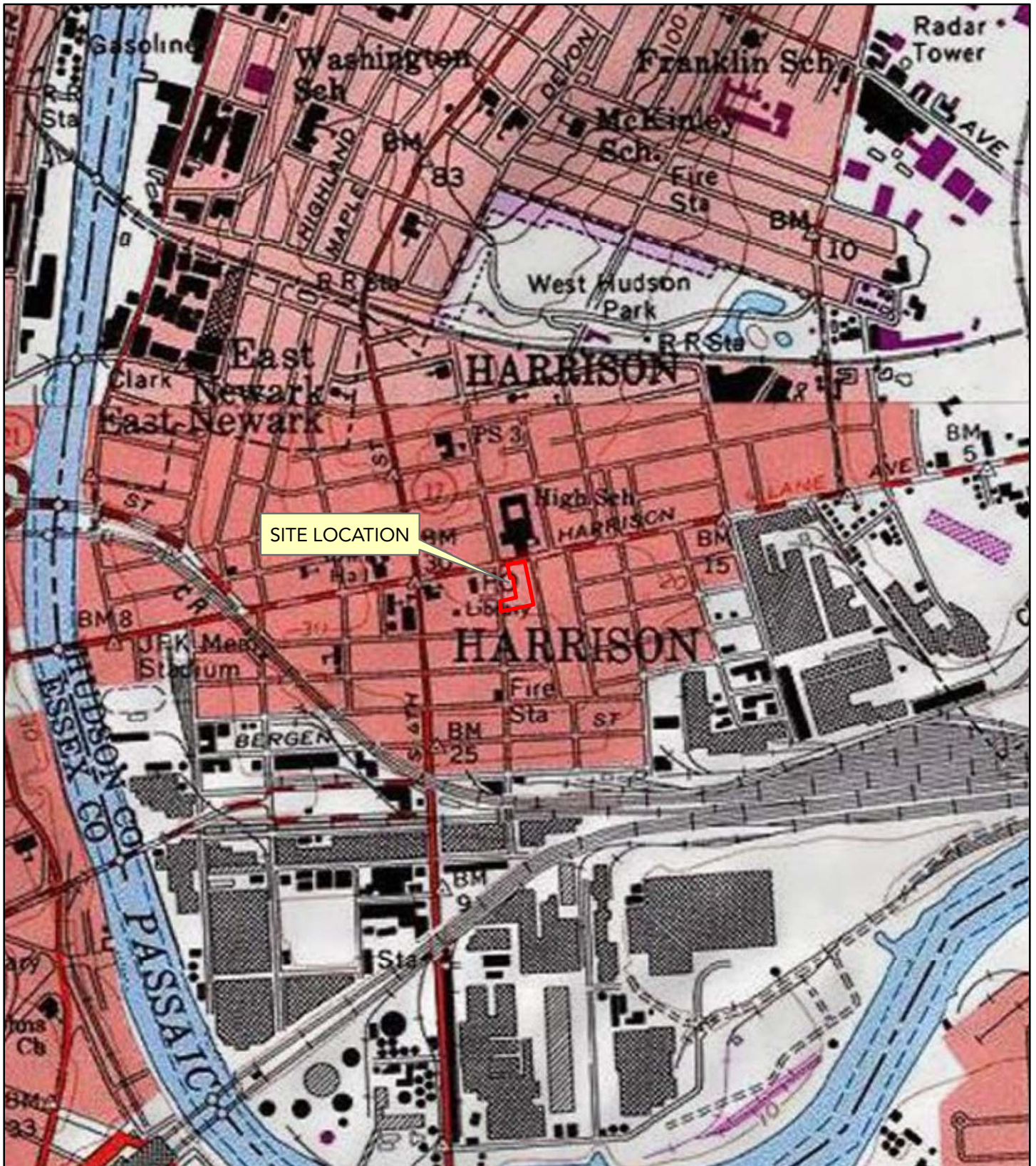
Figure 9 - As-Built Topographic Plan - Supplied by Ambient

Appendix A –Clean Fill Certification


Appendix B - Notification for Self-Implementing Onsite Cleanup to address PCB

Contamination, dated May 24, 2016 and Approval for Cleanup and Disposal of PCB Remediation Waste under 40 CFR 761.61(a) and Approval for Characterization and Verification Sampling under 40 CFR 761.61(c), dated August 1, 2016.

Harrison Elementary School PK-1 Existing Conditions
FIGURES



SITE LOCATION

 Approximate Site Boundary

Source:
USGS Quadrangle
Elizabeth, NJ-NY 1995


Coordinate System:
NAD 1983 State Plane
New Jersey FIPS 2900 FT

August 2016



Figure 1
Site Location Map
Harrison Elementary School

SDA *Louis Berger*
NJ SCHOOLS DEVELOPMENT AUTHORITY

0 500 1,000
 Feet





- Approximate Site Boundary
- Approximate Tax Parcel Boundary

Imagery courtesy of
 USGS Earthstar
 Geographics
 SIO 2016, Microsoft
 Corp 2010, NAVTEQ

Coordinate System:
 NAD 1983 State Plane
 New Jersey FIPS 2900 FT



August 2016

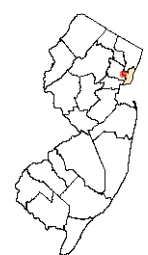
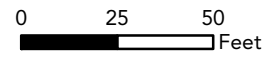









Figure 2
Site Map
Harrison Elementary School

SDA *Louis Berger*
NJ SCHOOLS DEVELOPMENT AUTHORITY





bing

	PCBs \geq 50 mg/kg (Excavated to 2.5 ft bg)		Approximate Site Boundary
	PCBs \geq 10 mg/kg and $<$ 50 mg/kg (Excavated to 2.5 ft bg)		
	PCBs \geq 10 mg/kg and $<$ 50 mg/kg (Excavated to 5 ft bg)		
	PCBs \geq 10 mg/kg and $<$ 50 mg/kg (Excavated to 7 ft bg)		
	PCBs \geq 10 mg/kg and $<$ 50 mg/kg (Excavated to 9 ft bg)		
	Fill (Excavated to 2 ft bg)		

Imagery courtesy of USGS Earthstar Geographics SIO 2016, Microsoft Corp 2010, NAVTEQ

Coordinate System:
NAD 1983 State Plane
New Jersey FIPS 2000 FT

August 2016

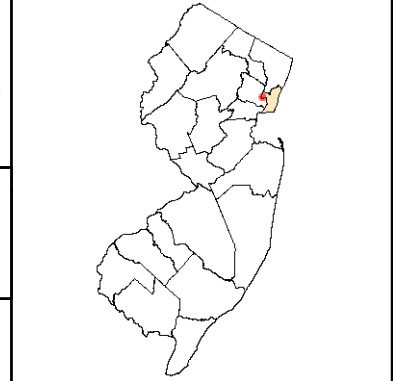
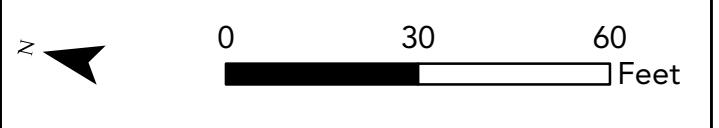




Figure 3
Excavation Completed
Harrison Elementary School

SDA **Louis Berger**
NEW JERSEY SCHOOLS DEVELOPMENT AUTHORITY





bing

	Approximate Utility Line (Cut at Property Line)
	Approximate Site Boundary

Imagery courtesy of USGS Earthstar Geographics SIO 2016, Microsoft Corp 2010, NAVTEQ

Coordinate System:
NAD 1983 State Plane
New Jersey FIPS 2000 FT

August 2016

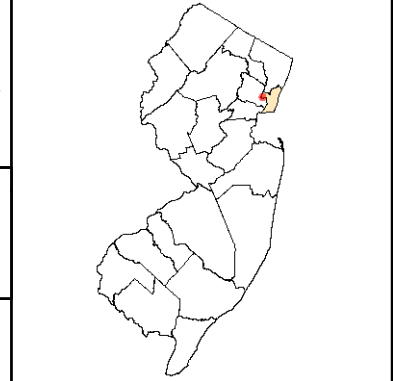

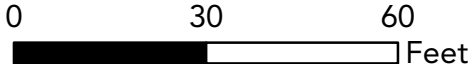








Figure 4
Utility Location Map
Harrison Elementary School

SDA
NEW JERSEY SCHOOLS DEVELOPMENT AUTHORITY

Louis Berger



	PCB Excavation Area
	Concrete Removed
	Concrete Left in Place
	Remnant Brick Walks Underneath Sidewalk
	Cinderblock Wall Underneath Sidewalk
	Approximate Site Boundary

Imagery courtesy of USGS Earthstar Geographics SIO 2016, Microsoft Corp 2010, NAVTEQ

Coordinate System:
NAD 1983 State Plane
New Jersey FIPS 2000 FT

August 2016

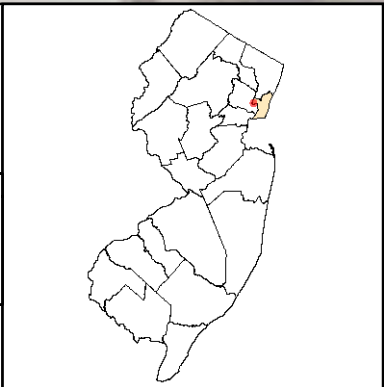

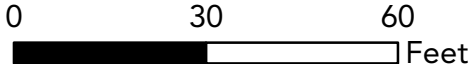




Figure 5
Concrete Location Map
Harrison Elementary School

SDA
NEW JERSEY SCHOOLS DEVELOPMENT AUTHORITY

Louis Berger



	Approximate Debris Area
	Approximate Site Boundary

Imagery courtesy of USGS Earthstar Geographics SIO 2016, Microsoft Corp 2010, NAVTEQ
Coordinate System: NAD 1983 State Plane New Jersey FIPS 2000 FT
August 2016

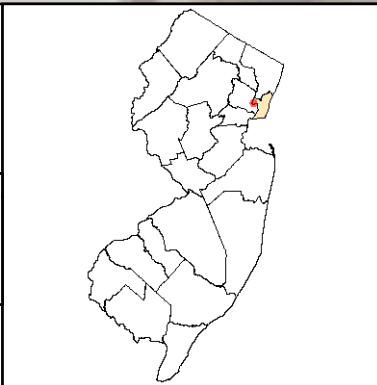

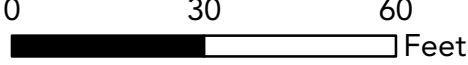


Figure 6
Debris Location Map
Harrison Elementary School

SDA
NEW JERSEY SCHOOLS DEVELOPMENT AUTHORITY

Louis Berger



	Investigation Trench Location
	EPA Test Pit Location
	Approximate Site Boundary

Imagery courtesy of USGS Earthstar Geographics SIO 2016, Microsoft Corp 2010, NAVTEQ

Coordinate System:
NAD 1983 State Plane
New Jersey FIPS 2000 FT

August 2016

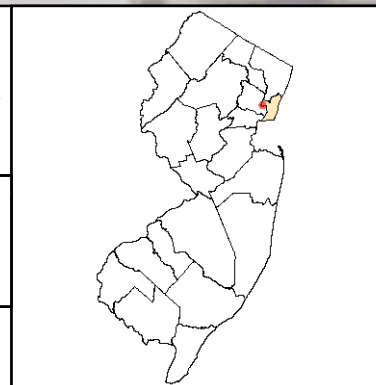

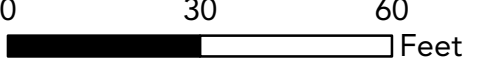


Figure 7
Investigation Trench Location Map
Harrison Elementary School

SDA
NEW JERSEY SCHOOLS DEVELOPMENT AUTHORITY

Louis Berger

Notes:
 - All are reported in parts per million (mg/kg) (dry weight)
 - ft bgs = feet below ground surface
 - NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, May 2012
 - RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 2012
 - IGWSSL = Default Impact to Ground Water Soil Screening Level, per NJDEP "Soil-Water Partition
 - NC = No Criteria
 - U = Not detected above the quantitation limit; the value presented is the sample quantitation limit.
Bold values indicate positive detections
Shaded values exceed IGWSSL
Shaded values exceed RDCSRS or IGWSSL
Shaded values exceeded NRDCSRS, RDCSRS, and IGWSSL



Location ID		RPTP02		
Sample ID		RPTP02		
Sample Date		5/12/2016		
Sample Interval (ft bgs)		5.0 - 6.0		
Analyte	NRDCSRS	RDCSRS	IGWSSL	
Aluminum	NC	78,000	6,000	8,000
Manganese	5,900	11,000	65	230
Mercury	65	23	0.1	0.32

LOT 7
BLOCK 158

Location ID		RPTP01		
Sample ID		RPTP01		
Sample Date		5/12/2016		
Sample Interval (ft bgs)		9.5 - 10.0		
Analyte	NRDCSRS	RDCSRS	IGWSSL	
Aluminum	NC	78,000	6,000	20,000
Beryllium	140	16	0.7	0.8
Manganese	5,900	11,000	65	2,500
Mercury	65	23	0.1	0.45

Location ID		RPTP03			
Sample ID		RPTP03A		RPTP03B	
Sample Date		5/12/2016		5/12/2016	
Sample Interval (ft bgs)		0.5 - 1.0		5.0 - 6.0	
Analyte	NRDCSRS	RDCSRS	IGWSSL		
Aluminum	NC	78,000	6,000	27,000	18,000
Lead	800	400	90	430	19
Manganese	5,900	11,000	65	970	850
Mercury	65	23	0.1	3.8	0.1
Nickel	23,000	1,600	48	53	30
Benzo[a]anthracene	2	0.6	0.8	1.9	0.037 U
Benzo[a]pyrene	0.2	0.2	0.2	1.6	0.037 U
Benzo[b]fluoranthene	2	0.6	2	2.1	0.037 U
Dibenz[a,h]anthracene	0.2	0.2	0.8	0.3	0.037 U
Indeno[1,2,3-cd]pyrene	2	0.6	7	0.96	0.037 U

Location ID		RPTP04		
Sample ID		RPTP04		
Sample Date		5/12/2016		
Sample Interval (ft bgs)		0.5 - 1.0		
Analyte	NRDCSRS	RDCSRS	IGWSSL	
Aluminum	NC	78,000	6,000	16,000
Beryllium	140	16	0.7	0.74
Lead	800	400	90	850
Manganese	5,900	11,000	65	610
Mercury	65	23	0.1	22
Benzo[a]pyrene	0.2	0.2	0.2	0.4

- Residential Test Pit Location (Approximate)
- Approximate Site Boundary
- Approximate Tax Parcel Boundary

Imagery courtesy of
 USGS Earthstar
 Geographics
 SIO 2016, Microsoft
 Corp 2010, NAVTEQ

Coordinate System:
 NAD 1983 State Plane
 New Jersey FIPS 2900 FT
 August 2016

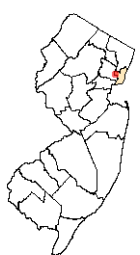
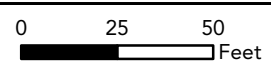
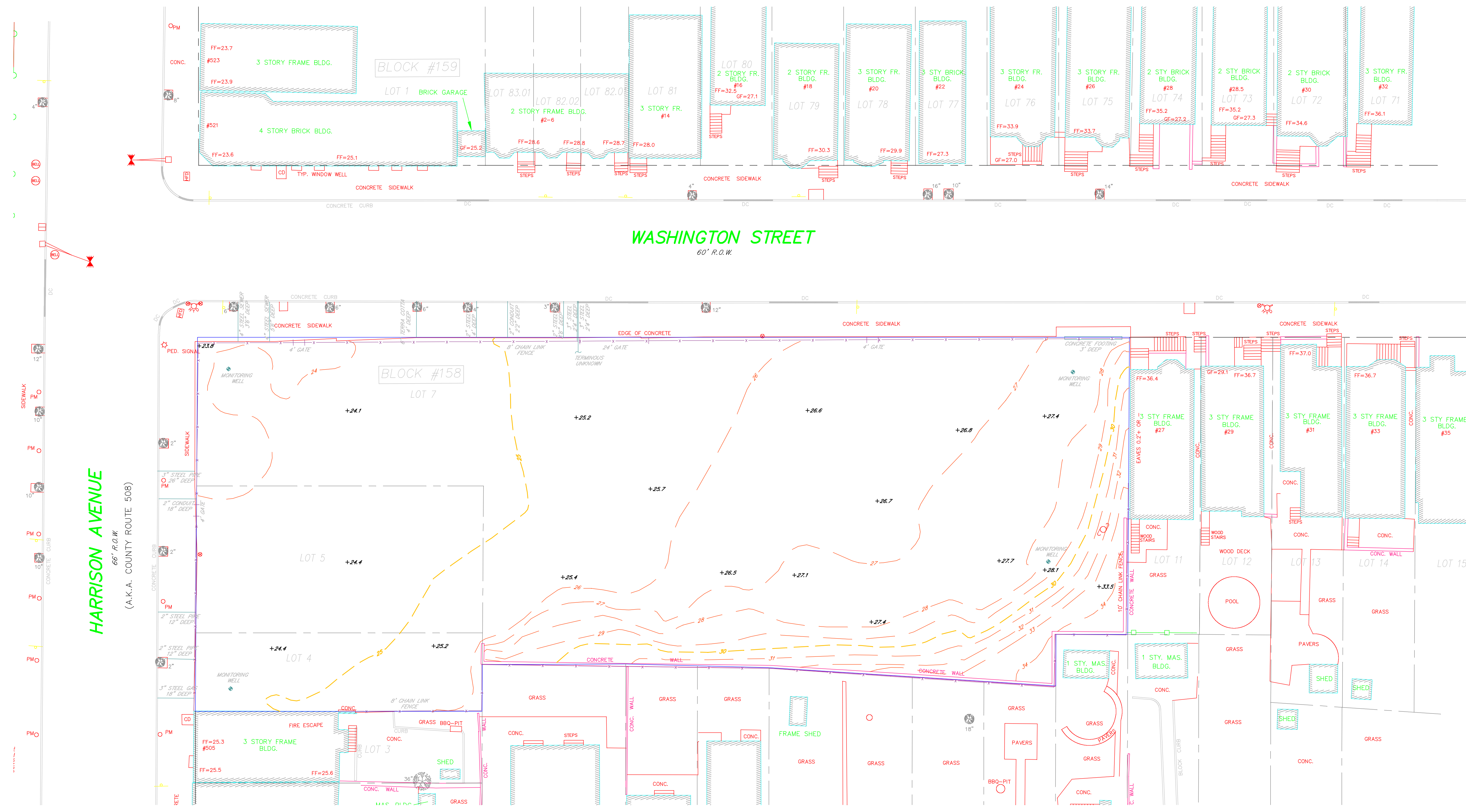


Figure 8
Residential Testpit Sample
Location and Exceedances
Harrison Elementary School

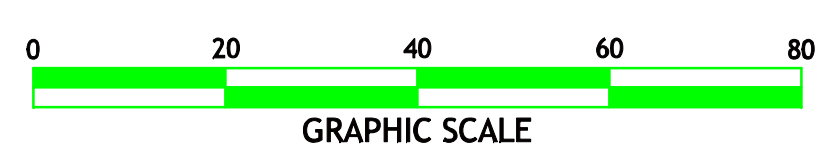
SDA Louis Berger
 NJ SCHOOLS DEVELOPMENT AUTHORITY





- NOTES:**
- SUBSURFACE CONDITIONS NOT SHOWN OR CERTIFIED.
 - SURVEY IS CERTIFIED TO THE LATEST REVISION DATE OR DATE IN THE TITLE BLOCK, AND MAY OR MAY NOT REFLECT CURRENT SITE CONDITIONS.
 - ELEVATIONS ARE BASED RTK GPS OBSERVATIONS PERFORMED ON 8/27/16.
 - LOCATIONS OF SUBSURFACE UTILITIES ENTERING SITE AND CONCRETE FOOTING ARE BASED CONTRACTORS NOTES. LOCATIONS NOT SURVEYED.

DATE	DESCRIPTION	DWN
REVISIONS		
PROJECT DATUM		
HORIZONTAL: NAD 83		VERTICAL: NAVD 88



BREVARD SURVEYING & MAPPING
 337 HEYWOOD AVENUE, ORANGE, NJ 07050
 PHONE: (973) 865-2624
 CERTIFICATE OF AUTHORIZATION 24GA28115400

Subject to municipal restrictions, easements of record and other facts of which a title search might disclose, Certified to be in accordance with pertinent New Jersey laws and regulations and with current accuracy standards only to:
 THE AMBIENT GROUP, LLC

BELTON BREVARD IV #43099
 N.J. PROFESSIONAL LAND SURVEYOR

Figure 9 - As Built Topographic Survey

TOPOGRAPHIC SURVEY						
NEW HARRISON ELEMENTARY SCHOOL SITE						
BLOCK 158, LOTS 4, 5 AND 7						
TOWNSHIP OF HARRISON						
HUDSON COUNTY		NEW JERSEY				
DWN:	CHK:	SCALE:	DATE:	SHEET:	PROJ. NO.:	
BB	BB	1" = 20'	08/27/2016	1 of 1	160801	

Harrison Elementary School PK-1 Existing Conditions
APPENDIX A – Clean Fill Certification

SUBMITTAL COVER SHEET

NJSDA 652

Date: 5/6/16

Contract No.: HU-0027-N01 Contract Name: Harrison Elementary School ESP

Design Consultant Louis Berger PMF: Louis Berger


Submittal Date: 4/8/16 Submitting Contractor: Ambient

Items Submitted: 1 Specification Division: Division 2

Submittal No.: 1 Subdivision: 02300 - Clean Fill - Screenings

No. of Copies Division: 1 Sepias Submitted: _____

- Yes No 1. Is submittal required by contract?
- Yes No 2. Is submitted item in accordance with Contract Requirements?
- Yes No 3. Is submittal a substitution?
- Yes No 4. Ifso, is reason for substitution included?
- Yes No 5. Is consideration offered for substitution?
- Yes No 6. Is submittal complete (warranties, test reports, model numbers, sizes, weights, dimensions, colors, supporting information required to show that performance characteristics comply with specified or scheduled performance?
- Yes No 7. Does submittal meet Specified Standards (ASTM, ANSI, UL, etc.)?
- Yes No 8. Does submittal meet all code requirements?
- Yes No 9. Are all accessories and ancillary devices as specified?
- Yes No 10. Estimated procurement time: _____ (days/weeks)

Submitted By:	
<u>Julian Heal</u> <small>Print Name</small>	<u>Vice President</u> <small>Title</small>
 <small>Signature</small>	<u>May 6, 2016</u> <small>Date</small>

Note: This form must be attached to all submittals. Submittals will be returned as incomplete when not accompanied by this form and when "YES" is not marked for all except 1 or 3 above.

**Harrison Elementary School
Early Site Preparation**

Contract #: HU-0027-N01

**CLEAN FILL CERTIFICATION
Weldon Materials, Inc./
Fanwood Crushed Stone**



May 6, 2016

Prepared For:

**New Jersey Schools Development
Authority (NJSDA)
32 East Front Street
Post Office Box 991
Trenton, NJ 08625-0991**

Prepared By:

**The Ambient Group, LLC.
222 Thies Road
Sewell, NJ 08080
856-582-1765**

WELDON MATERIALS, INC.

TECHNICAL SERVICES

141 CENTRAL AVENUE, WESTFIELD, NJ 07090

(908) 233-4444 ext. 2288 FAX (908) 233-4215

email: ra@weldonmat.com

MAY 5, 2016

Contractor: AMBIENT GROUP LLC.

E-Mail: JHEAL@AMBIENTGP.COM

Attn: JULIAN HEAL

Reference: NJSDA-HARRISON, NEW JERSEY

Material: SCREENINGS

To whom it may concern:

We certify that the aggregate to be purchased for the project in reference is produced by Fanwood Crushed Stone Company established and mining since 1907, from sources of virgin basalt indigenous to the region. These aggregates are free from contamination when stockpiled at our quarries in Watchung, New Jersey.

Our Quarry is located at:

1 New Providence Road

Watchung, NJ

Somerset County.

Block #: 76.01, Lots #: 4, 5, 20, 25, 26, 27, and 28

Mine Certificate #: 004241

Sincerely,


RICARDO AROCHA
TECHNICAL SERVICES

FANWOOD CRUSHED STONE CO.
WATCHUNG, N.J.

CONTRACTOR: AMBIENT GROUP
FAX NUMBER: [email](#)

ATTN: JULIAN HEAL

PROJECT : NJSDA. HARRISON, NJ

DATE : 05/05/16

Sales Representative: Matt Moditz

MATERIAL : SCREENINGS # 10

TYPICAL SIEVE ANALYSIS

SIEVE SIZE	PER CENT PASSING.	NJ.DOT SPECS. ASTM # 10
3/8"	100	100
# 4	97	85 - 100
# 8	69	N/A
# 16	49	N/A
# 30	37	N/A
# 50	28	N/A
# 100	23	10 - 30
# 200	14	N/A

THE SIEVE ANALYSIS SHOWN IS TYPICAL OF : SCREENINGS # 10
AGGREGATE AS PRODUCED AT FANWOOD CRUSHED STONE, WATCHUNG, NJ
AND PROPOSED FOR USE ON THE ABOVE PROJECT. THE SIEVE ANALYSIS
COMPLIES WITH THE APPROPRIATE NJ.DOT SPECIFICATIONS.



RICARDO AROCHA
TECHNICAL SERVICES



State of New Jersey
Department of Labor and Workforce Development

Certificate No. 004241
Expiration Date 3/31/2017

MINE REGISTRATION CERTIFICATE

ISSUED TO: Fanwood Crushed Stone
1 New Providence Rd
LOCATION: Watchung, NJ

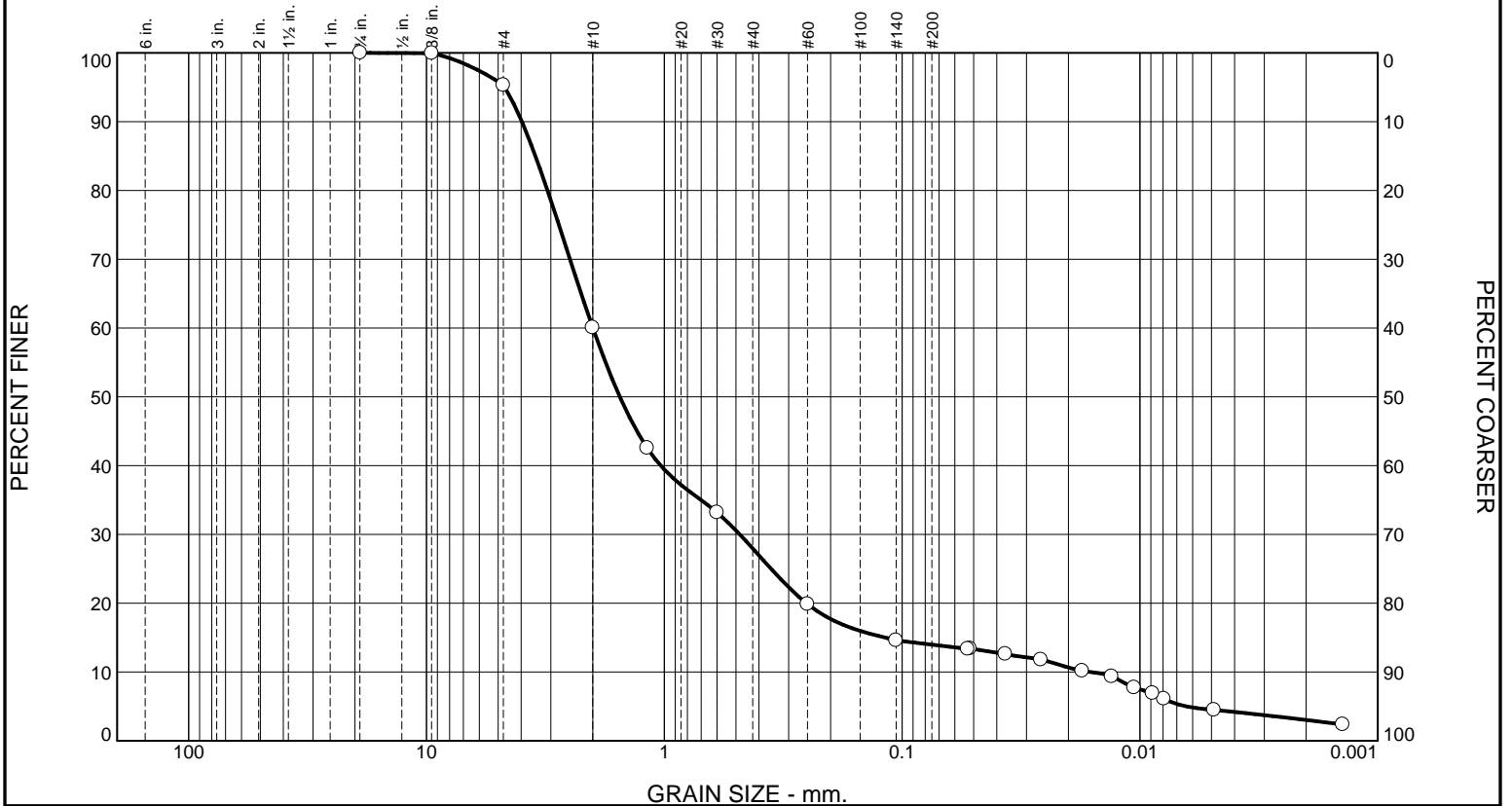
BLK NO(S): 76.01
LOT NO(S): 4,5,20,25,26,27,28
COUNTY: Somerset

Issued pursuant to the provisions of N.J.S.A. 34:6-98.1 et. seq. Failure to comply with the provisions of the Act, and the Rules promulgated thereunder, shall be good cause for the revocation of this Certificate.

Harold J. Wirths
Commissioner

THIS CERTIFICATE MUST BE POSTED AT ALL TIMES

Particle Size Distribution Report



GRAIN SIZE - mm.

% +3"	% Gravel			% Sand			% Fines
	Coarse	Medium	Fine	Coarse	Medium	Fine	
0.0	0.0	0.0	39.9	26.9	13.3	5.9	14.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.375	100.0		
#4	95.3		
#10	60.1		
#16	42.6		
#30	33.2		
#60	19.9		
#140	14.6		
#270	13.3		

Material Description

Dark Grey c+mf Sand, and- f Gravel, little Silt

PL= NP	Atterberg Limits	LL= NP	PI= NP
	Coefficients		
D ₉₀ = 3.9699	D ₈₅ = 3.4826	D ₆₀ = 1.9972	
D ₅₀ = 1.5381	D ₃₀ = 0.4820	D ₁₅ = 0.1181	
D ₁₀ = 0.0162	C _u = 123.30	C _c = 7.18	

USCS= SM	Classification
	AASHTO= A-1-b

Remarks

* (no specification provided)

Sample Number: S-135

Date: 3/7/16

FRENCH & PARRELLO ASSOCIATES, P.A. CONSULTING ENGINEERS Wall, NJ	Client: Maddox Materials, LLC Project: Maddox Project No: 07L001A
	Figure

Tested By: BWB

Checked By: RT

Harrison Elementary School PK-1 Existing Conditions
APPENDIX B – Notification for Self Implementing On
Site Cleanup and EPA Approval



May 24, 2016

Ms. Judith A. Enck
Regional Administrator USEPA Region II
290 Broadway
New York, New York
10007-1866

**RE: Revised - Notification for Self-Implementing Onsite Cleanup to address PCB Contamination
Proposed Harrison New Elementary School
507-515 Harrison Avenue (Block 158, Lots 4, 5, and 7)
Harrison, Hudson County, New Jersey
NJDEP PI Number: G000041012**

Dear Ms. Enck,

Louis Berger has prepared this Notification Letter on behalf of the New Jersey Schools Development Authority (NJSDA) in accordance with 40 CFR Part 761.61(a) for self-implementing cleanup of Polychlorinated Biphenyls (PCBs). During Site and Remedial Investigation activities, PCB-impacted soil was identified owned by the Harrison Board of Education, identified as Block 158, Lots 5 and 7. This property assemblage is proposed for redevelopment as the Harrison New Elementary School. NJSDA is preparing to remediate the PCB contamination under the oversight of a New Jersey Licensed Site Remediation Professional (LSRP) in conformance with the rules, regulations, and guidance of the Site Remediation Reform Act (SRRA). Site remediation issues associated with the entire Harrison New Elementary School project (Historic Fill and localized pesticide use) are being addressed under New Jersey Department of Environmental Protection (NJDEP) Case No. 15-05-27-1257-52, through the use of Presumptive Remedy Engineering and Institutional Controls, if these material are not properly disposed through the course of the construction work.

This notification letter provides the following information:

- Site background and description of the nature and extent of the PCB contamination;
- Summary of the site investigation and remedial investigation activities, and a description of the location and the extent of the contaminant area;
- Cleanup plan, including cleanup technology and approach, and contingency options to be used if unanticipated higher concentrations or wider distributions of PCB contamination are encountered; and,
- Written certification signed by the remediating party of the Site (NJSDA).

SITE BACKGROUND

The property is currently owned by the Harrison Board of Education and is occupied by an active surface asphalt-paved parking lot for municipal and permit parking located at 507-515 Harrison Avenue in Harrison, New Jersey (hereinafter referred to as the “Site”). Figure 1 is an annotated U.S. Geological Survey (USGS) 7.5-minute quadrangle (Elizabeth, NJ-NY, 1995) showing the Site location, local topography, drainage, and cultural features. The area surrounding the Site consists of residential, commercial, and public school properties.

Based on an environmental Preliminary Assessment (PA) conducted by Louis Berger in 2015, the Site was developed as early as 1900, which included a school (Washington School No. 1), residential properties, as well as commercial/light manufacturing properties comprised of a wagon and carriage of manufacturer and sheet metal works. By 1950, Washington School No. 1 was expanded and occupied the majority of present-day Lot 7. Washington School No. 1 was demolished by 1970, which ended in the construction of the parking lot. At that time, the corner property was occupied by Cardone’s Restaurant, which by 1970 had expanded their operation to include a portion of the current Lot 7. Based on historical aerials, the commercial properties, including the restaurant, were demolished between 1995 and 1999, while the last remaining structures within the Site boundary, along Harrison Avenue, were demolished between 1999 and 2002 and the parking lot was expanded to its current extent. Additionally, historical city directory records indicated Jones James taxicabs as well as a service shop historically operated at 511 Harrison Avenue (present-day Lot 5) in 1924 and 1929, respectively.

SITE INVESTIGATION ACTIVITIES

In 2015, Louis Berger conducted a Site Investigation (SI) which included a geophysical survey, a soil investigation, and a groundwater investigation. SI activities were performed in accordance with N.J.A.C. 7:26E; New Jersey Technical Requirements for Site Remediation and the New Jersey Field Sampling Procedures Manual.

A total of 19 soil borings (EB-1 through EB-19) were advanced using direct push drilling techniques, and 19 soil samples were collected for Target Compound List (TCL) Volatile Organic Compounds plus 15 tentatively identified compounds (VOC+15), TCL Semi Volatile Organic Compounds plus 15 tentatively identified compounds (SVOC+15), TCL pesticides, Target Analyte List Metals (TAL Metals), Category-1 Extractable Petroleum Hydrocarbons (EPH), and PCB analyses. The samples shown on Table 1 were analyzed by Hampton Clark-Veritech (HCV) laboratory of Fairfield, New Jersey (NJ Cert. # 07071) using USEPA Method 8062 for PCBs.

Soil samples were found to contain PCBs in excess of New Jersey’s soil remediation standards ranging from 1.7 mg/kg to 32.7 mg/kg. The results are summarized in Table 2 and presented on Figure 2.

REMEDIAL INVESTIGATION ACTIVITIES

A remedial investigation (RI) was conducted to horizontally and vertically delineate the PCBs in the soil. Eighteen (18) additional soil borings (EB-101 through EB-113 and EB116 through EB-118) were advanced using direct push drilling techniques, and 41 soil samples were obtained for PCB analyses by the same laboratory as the SI (HVC). Table 3 summarizes the sampling program. Three more soil samples were found to contain PCBs in excess of TSCA regulatory standard of 50 mg/kg ranging from 51 mg/kg to 140 mg/kg.

Soil Delineation Results

A summary of the soil analytical results of the July 2015 RI sampling event is presented in Table 4. The locations of each soil boring are presented in Figure 2. Comparing the analytical results to the development history of the Site, it appears that the PCBs may be entrained in the materials that were used to backfill the demolition areas in the 1990's (i.e., Cardone's Restaurant) and not the fill that was imported to backfill the original Washington School site prior to 1970.

The vertical delineation of PCB in soil was achieved to a maximum depth of 10 feet bgs. In most areas, the vertical extent was achieved at shallower depths (i.e. 2.5 to 5.0 feet bgs). The deepest sample was collected at EB-105 from 10.0 to 10.5 feet bgs with a non-detect result for total PCBs. Additionally, horizontal delineation of PCBs was achieved to the south at EB-18, EB-2, and EB-19. The western extent of PCBs was established as EB-115 and EB-116. The northern and eastern property lines act as the horizontal extent in those direction. Nevertheless, post excavation result will dictate the limits of the excavation, noting that, as detailed below, excavation will not be conducted past the property line / beneath the sidewalk unless dictated by construction needs.

The NJSDA is a State government entity exempt from liability under the Spill Compensation and Control Act N.J.S.A. 58:10-23.11 (Spill Act), by virtue of its role as a redeveloper under the Educational Facilities Construction and Financing Act, N.J.S.A. 18A:7G-1 (EFCFA) and as a government entity which acquired ownership of its properties for public purposes pursuant to the authorized exercise of eminent domain powers. Additionally, the NJSDA is not a "Responsible Party" under the Spill Act and conducts on-site environmental remediation in a manner sufficient to make the project site safe for its intended use as a school. Therefore, NJSDA remediation obligations end at the property boundary. Should post-excavation sampling results along these property boundaries indicate the continued presence of PCBs in excess of the SRS, NJDEP will be notified and prompted for their action. However, if evidence of impacted soil extends under the sidewalks and is easily accessible without jeopardizing the structural integrity of the sidewalk or any structures that may be present, excavation may extend beyond the property line. Any impacted soil left along these property boundaries shall be addressed at a later date by the appropriate responsible parties.

CLEANUP PLAN

This section presents the proposed cleanup plan to address the soil found to contain PCBs in excess of USEPA's requirements for bulk PCB remediation waste. Since the Site is proposed to be developed into an Elementary School, this area will be designated as a high occupancy area as per USEPA cleanup requirements. A summary of the USEPA cleanup levels and required actions is provided in the table below.

Cleanup Requirements for Bulk PCB Remediation Waste		
Area Designation	Cleanup Level	Additional Requirements
High Occupancy	< 1 mg/kg	No Further Conditions (Unrestricted Use)
	Between > 1mg/kg and ≤ 10 mg/kg	Cap must be installed and Institutional Control implemented in accordance with 40 CFR 761.61(a)(7) and (a)(8)

The SDA proposes to remove and properly dispose all soil found to contain PCBs in excess of 10 mg/kg at licensed solid waste disposal facilities, as detailed below. Soil exhibiting PCB concentrations equal to or less than 10 mg/kg will be protected in place, using appropriate Presumptive Remedy engineering and institutional controls.

Additional Characterization Soil Sampling

At the request of EPA, in an effort to further characterize the extent of the PCB contamination, additional soil sampling will be performed. Two test pits or soil borings shall be advanced along the northwestern corner of the property and one test pit or soil boring shall be advanced to the south, between the former locations of soil borings EB-117 and EB-2. Each location shall be advanced to a maximum depth of 10 feet bgs, which corresponds to the maximum depth in which vertical delineation of the PCB impacts has been achieved. Soil samples shall be collected from each location at depths of 0.5 to 1.0 feet bgs, 1.5 to 2.0 feet bgs, 2.0 to 2.5 feet bgs, 5.0 to 5.5 feet bgs and 10.0 to 10.5 feet bgs, which correspond to the depth intervals of the previous soil delineation activities. The soil samples will be submitted for laboratory analysis for PCBs. All soil sampling will be conducted in accordance with both NJDEP Technical Requirements for Site Remediation (N.J.A.C. 7:26E-5) and TSCA PCB Regulations (40 CFR 761).

TSCA PCB Regulated Hazardous Waste Area Excavation

The analytical results from three soil samples, EB-106A, EB-107A, and EB-108A (collected from 1.5 to 2.0 feet bgs), demonstrated PCB concentration exceeding the TSCA PCB regulated level of 50 mg/kg. Based on the analytical results, soil exceeding the TSCA PCB regulated level was fully delineated. As shown on Figure 3, PCBs in excess of 50 mg/kg were horizontally delineated to an area approximately 1,500 square feet, and vertically delineated to a depth of approximately 2 feet bgs. Therefore, a total of approximately 111 cubic yards (CY) (166 tons) of soil are considered TSCA PCB regulated waste. These soils are proposed to be removed by

excavation and disposed of at a TSCA approved PCB disposal facility and the extent of the required removal will be confirmed by post-excavation sampling as detailed below.

TSCA PCB Regulated Non-Hazardous Waste Area Excavation

All non-hazardous PCB contaminated soils with concentrations exceeding the site specific clean-up level of 10 mg/kg, but below the TSCA PCB regulated level of 50 mg/kg are proposed for removal and disposal at a licensed non-hazardous solid waste disposal facility, permitted to accept the waste. The delineation of TSCA PCB non-hazardous waste (<50 mg/kg) is delineated to the site specific cleanup criteria of 10 mg/kg to the south and west. Approximately 1,805 CY (2,527 tons) of non-hazardous PCB contaminated soil are estimated to be removed from the non-TSCA PCB regulated area. The extent of the required removal will be confirmed by post-excavation sampling as detailed below.

PCBs were below the cleanup level required for high occupancy areas of 10 mg/kg in various delineation samples, with depth ranging from 2 to 10 feet bgs within the TSCA PCB non-hazardous waste excavation area. The extent of the PCBs in soil, which exceed the cleanup level required for high occupancy areas of 10 mg/kg, encompasses an approximate area of 48,735 ft² outside of the TSCA PCB non-hazardous waste area, and extends vertically to depths ranging from 2 to 10 feet bgs.

Post Excavation Sampling and Verification

Post-excavation soil sampling will be performed in order to document the remediation of the PCB contamination to the cleanup level required for high occupancy areas of 10 mg/kg. Post-excavation sampling will be conducted to satisfy both NJDEP Technical Requirements for Site Remediation (N.J.A.C. 7:26E-5) and TSCA PCB Regulations (40 CFR 761). Post-excavation samples for the TSCA PCB Regulated Hazardous Area, where PCBs were detected above 50 mg/kg, will be collected from the bottom of the excavation on a 5-foot (1.5 meter) grid as per 40 CFR 761, Subpart O. This sampling frequency also satisfies the NJDEP's requirement (i.e., one sample from excavation bottom for every 900 ft² of bottom area). Additionally, one sidewall sample for every 30 linear feet will be collected from 0 to 6 inches above the bottom of the excavation to satisfy NJDEP requirements.

For the TSCA PCB Regulated Non-Hazardous Area, where PCBs were detected above 10 mg/kg but below 50 mg/kg, post-excavation samples will be collected from the bottom of the excavation at a proposed frequency of one sample per every 400 ft² (6 meter [20 x 20 ft] grid). This sampling frequency also satisfies the NJDEP's requirement (i.e., one sample from excavation bottom for every 900 ft² of bottom area). Additionally, one sidewall sample for every 30 linear feet will be collected from 0 to 6 inches above the bottom of the excavation to satisfy NJDEP requirements.

Post-excavation analytical results will be used to confirm if the site specific cleanup goal of 10 mg/kg is achieved. In the event post-excavation samples contain PCBs in excess of the remedial action objective within

the property boundary, additional excavation of PCB-contaminated soils and post-excavation samples will be conducted until post-excavation sample results are below 10 mg/kg. All post-excavation samples will be submitted for laboratory analysis for PCBs using an expedited turnaround time in order to minimize the duration for which the excavation will remain open.

Transportation and Disposal

All excavated material will be directly loaded and disposed of at an appropriate TSCA approved PCB disposal facility or at a licensed non-hazardous soil waste disposal facility, based on the results of the in-situ waste characterization sampling. The TSCA approved PCB disposal facility will comply with 40 CFR 761.61(a)(5)(i)(B)(2)(iii) and the licensed non-hazardous waste disposal facility will comply with 40 CFR 761.61(a)(5)(i)(B)(2)(ii). In the event necessary, the excavated material will be temporarily staged (<30 days) on plastic and/or in tarped roll-off containers in accordance with 40 CFR 761.65(c)(9), pending transport to approved disposal facility in covered roll-off containers. All temporary stockpiles and roll-off containers will be located in restricted areas of the Site. In the event of temporary on-site staging of the soils, appropriate soil erosion and sediment control measures will be implemented, as necessary.

Backfilling/Engineering Controls

Once post-excavation soil results confirm the remedial goal of a PCBs is achieved, all excavation areas will be restored to meet the TSCA requirements of 40 CFR 761.61 (a)(7). Based on the proposed use of the Site and the recommended excavation of impacted soil, the excavation area will also require the NJDEP's presumptive remedies for PCB contaminated soil (PCB concentrations less than 10 mg/kg). Therefore, one of the two following NJDEP's presumptive remedies options for PCB contaminated soil will be adhered to:

Option #1:

- Barrier* – Minimum of six (6) inches asphalt or concrete;
- Buffer* – Minimum of 18 inches clean fill;
- Demarcation* – Visible contamination boundary marker; and,
- Inspection* – Annual.

Option #2

- Barrier* – Minimum of 18 inches of clean fill;
- Buffer* – Minimum of 10 inches of compacted soil pursuant to CFR 761.61 (a)7 (in areas that include landscaping, the landscaping shall not compromise the buffer);
- Demarcation* – Geotextile fabric; and,
- Inspection* – Semi-Annual.

Deed Restrictions

Pursuant to the administrative requirements outlined in N.J.A.C. 7:26C-7.2 as well as USEPA 40 CFR 761.61(a)(8), a Remedial Action Permit Application for Soil and associated Deed Notice will be prepared to address soil concentrations remaining at the Site above the current NJDEP RDCSRS of 0.2 mg/kg. The objective of the Deed Restriction is to ensure that institutional (Deed Notice) and engineering (capping) controls remain protective of the public health and safety, and of the environment. The proposed engineering controls at the Site will be maintained with deed restrictions meeting the requirements of N.J.A.C. 7:26C.

Cleanup Schedule

Cleanup activities at the Site are anticipated to be conducted approximately 30 days after the receipt of the original notification letter (dated April 6, 2016).

Health and Safety Measures

Health and safety measures will be implemented during the work to protect the public, on-site workers, and the environment in accordance with Federal, State, and local requirements. The health and safety measures will include, but not be limited to, installation of a security fence to restrict access to the work area, air monitoring, dust suppression, decontamination facilities, traffic controls, and use of appropriate Personal Protective Equipment. All work will be performed in accordance with NJDEP and OSHA requirements.

Decontamination/Disposal of Remedial Equipment Disposables

Any remedial equipment that comes in contact with PCBs will be decontaminated in accordance with the requirements of 40 CFR 761.79 (e.g. double wash/rinse). Barrier plastics, used PPE, and/or equipment that are exposed to PCB-impacted soils and not decontaminated will be disposed of as PCB Remediation Waste. In addition, any wash water generated during decontamination will be containerized in 55-gallon drums, sampled for characterization and disposed of at an appropriate facility in accordance with 40 CFR 761.61(a)(5)(i)(B)(2)(i) and/or 40 CFR 761.61(a)(5)(i)(B)(2)(iii).

WRITTEN CERTIFICATION

A written certification in accordance with 40 CFR 761.61(E) signed by remediating party is provided as **Appendix A**.

CLOSURE

Your assistance in this matter is greatly appreciated. Should you have any questions regarding this document, please contact me at 973-407-1000 or cwatt@louisberger.com.

Sincerely,
Louis Berger



Christopher Watt, P.G., LSRP
Licensed Site Remediation Professional

Encl: (Tables 1 through 4; Figures 1 through 3; Appendix A)

Cc: Corrado Minervini (SDA)
NJDEP - Division of Solid and Hazardous Waste
James Hackler (EPA - **Sr. PCB Disposal Specialist**)
John Gorman (EPA - Chief, Pesticides and Toxic Substances Branch)

TABLES

Table 1
New Jersey School Development Authority
Harrison New Elementary School
Harrison, New Jersey
SI Soil Sampling Summary

Location ID	Sample ID	Lab ID	Sample Depth (ft bgs)	Analytical Parameters	Sampling Method	Date Collected	Date Analyzed
EB-10	EB-1	AC84191-001	0.5 - 1.0	PCBs	Acetate Sleeve	4/7/2015	4/15/2015
EB-2	EB-2	AC84191-002	0.5 - 1.0	PCBs	Acetate Sleeve	4/7/2015	4/15/2015
EB-3	EB-3	AC84191-003	1.5 - 2.0	PCBs	Acetate Sleeve	4/7/2015	4/15/2015
EB-4	EB-4	AC84191-004	0.5 - 1.0	PCBs	Acetate Sleeve	4/7/2015	4/15/2015
EB-5	EB-5	AC84191-005	0.7 - 1.2	PCBs	Acetate Sleeve	4/7/2015	4/15/2015
EB-6	EB-6	AC84191-006	0.5 - 1.0	PCBs	Acetate Sleeve	4/7/2015	4/15/2015
EB-7	EB-7	AC84191-007	0.8 - 1.3	PCBs	Acetate Sleeve	4/7/2015	4/15/2015
EB-8	EB-8	AC84191-008	1.2 - 1.7	PCBs	Acetate Sleeve	4/7/2015	4/15/2015
	DUP01	AC84191-020					4/15/2015
EB-9	EB-9	AC84191-009	0.7 - 1.2	PCBs	Acetate Sleeve	4/8/2015	4/14/2015
EB-10	EB-10	AC84191-010	1.1 - 1.6	PCBs	Acetate Sleeve	4/8/2015	4/14/2015
EB-11	EB-11	AC84191-011	1.0 - 1.5	PCBs	Acetate Sleeve	4/8/2015	4/14/2015
EB-12	EB-12	AC84191-012	0.9 - 1.4	PCBs	Acetate Sleeve	4/8/2015	4/15/2015
EB-13	EB-13	AC84191-013	0.9 - 1.4	PCBs	Acetate Sleeve	4/8/2015	4/14/2015
EB-14	EB-14	AC84191-014	0.8 - 1.3	PCBs	Acetate Sleeve	4/8/2015	4/14/2015
EB-15	EB-15	AC84191-015	1.0 - 1.5	PCBs	Acetate Sleeve	4/8/2015	4/14/2015
EB-16	EB-16	AC84191-016	0.7 - 1.2	PCBs	Acetate Sleeve	4/8/2015	4/15/2015
EB-17	EB-17	AC84191-017	0.6 - 1.1	PCBs	Acetate Sleeve	4/8/2015	4/15/2015
EB-18	EB-18	AC84191-018	0.5 - 1.0	PCBs	Acetate Sleeve	4/8/2015	4/15/2015
EB-19	EB-19	AC84191-019	0.5 - 1.0	PCBs	Acetate Sleeve	4/8/2015	4/15/2015

Notes:

- ft bgs = feet below ground surface
- PCB = Polychlorinated biphenyl

Table 2
 New Jersey School Development Authority
 Harrison New Elementary School
 Harrison, New Jersey
SI Soil Sampling Analytical Results

				Location ID	EB-1	EB-2	EB-3	EB-4	EB-5	EB-6	EB-7	EB-8		EB-9	EB-10	EB-11
				Sample ID	EB-1	EB-2	EB-3	EB-4	EB-5	EB-6	EB-7	EB-8	DUP01	EB-9	EB-10	EB-11
				Lab ID	AC84191-001	AC84191-002	AC84191-003	AC84191-004	AC84191-005	AC84191-006	AC84191-007	AC84191-008	AC84191-020	AC84191-009	AC84191-010	AC84191-011
				Sample Date	4/7/2015	4/7/2015	4/7/2015	4/7/2015	4/7/2015	4/7/2015	4/7/2015	4/7/2015	4/7/2015	4/8/2015	4/8/2015	4/8/2015
				Sample Interval (ft bgs)	0.5 - 1.0	2.2 - 2.7	1.5 - 2.0	0.5 - 1.0	2.5 - 3.0	0.5 - 1.0	0.8 - 1.3	0.6 - 1.1	0.6 - 1.1	0.7 - 1.2	1.1 - 1.6	1.0 - 1.5
Analyte	NRDCSRS	RDCSRS	IGWSSL													
Polychlorinated biphenyls																
Aroclor (Total)	1	0.2	0.2	9	0.027 U	32.7	0.18	0.083	0.029 U	0.11	0.17	0.26	1.7	0.028 U	0.028 U	
Aroclor-1016	NC	NC	NC	0.56 U	0.027 U	0.56 U	0.028 U	0.029 U	0.029 U	0.028 U	0.031 U	0.061 U	0.028 U	0.028 U	0.028 U	
Aroclor-1221	NC	NC	NC	0.56 U	0.027 U	0.56 U	0.028 U	0.029 U	0.029 U	0.028 U	0.031 U	0.061 U	0.028 U	0.028 U	0.028 U	
Aroclor-1232	NC	NC	NC	0.56 U	0.027 U	0.56 U	0.028 U	0.029 U	0.029 U	0.028 U	0.031 U	0.061 U	0.028 U	0.028 U	0.028 U	
Aroclor-1242	NC	NC	NC	0.56 U	0.027 U	2.7	0.028 U	0.029 U	0.029 U	0.028 U	0.031 U	0.061 U	0.028 U	0.028 U	0.028 U	
Aroclor-1248	NC	NC	NC	0.56 U	0.027 U	0.56 U	0.028 U	0.029 U	0.029 U	0.028 U	0.031 U	0.061 U	0.19	0.028 U	0.028 U	
Aroclor-1254	NC	NC	NC	0.56 U	0.027 U	0.56 U	0.028 U	0.029 U	0.029 U	0.11	0.17	0.26	0.028 U	0.028 U	0.028 U	
Aroclor-1260	NC	NC	NC	9	0.027 U	30	0.18	0.083	0.029 U	0.028 U	0.031 U	0.061 U	1.5	0.028 U	0.028 U	
Aroclor-1262	NC	NC	NC	0.56 U	0.027 U	0.56 U	0.028 U	0.029 U	0.029 U	0.028 U	0.031 U	0.061 U	0.028 U	0.028 U	0.028 U	
Aroclor-1268	NC	NC	NC	0.56 U	0.027 U	0.56 U	0.028 U	0.029 U	0.029 U	0.028 U	0.031 U	0.061 U	0.028 U	0.028 U	0.028 U	

Notes:

- All are reported in parts per million (mg/kg) (dry weight)
- ft bgs = feet below ground surface
- All VOCs were collected from 0.5-1.0 ft bgs with the exception of EB-1 (21.5-22.0 ftbgs)
- NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, May 2012
- RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 2012
- IGWSSL = Default Impact to Ground Water Soil Screening Level, per NJDEP "Soil-Water Partition Equation Guidance Document" dated November 2013.
- J = Estimated Value
- NA = Not Applicable
- NC = No Criteria
- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit.
- **Bold values indicate positive detections**
- **Shaded values exceed IGWSSL**
- **Shaded values exceed RDCSRS or IGWSSL**
- **Shaded values exceeded NRDCSRS, RDCSRS, and IGWSSL**

Table 2
 New Jersey School Development Authority
 Harrison New Elementary School
 Harrison, New Jersey
SI Soil Sampling Analytical Results

Location ID		EB-12	EB-13	EB-14	EB-15	EB-16	EB-17	EB-18	EB-19		
Sample ID		EB-12	EB-13	EB-14	EB-15	EB-16	EB-17	EB-18	EB-19		
Lab ID		AC84191-012	AC84191-013	AC84191-014	AC84191-015	AC84191-016	AC84191-017	AC84191-018	AC84191-019		
Sample Date		4/8/2015	4/8/2015	4/8/2015	4/8/2015	4/8/2015	4/8/2015	4/8/2015	4/8/2015		
Sample Interval (ft bgs)		0.9 - 1.4	0.9 - 1.4	0.8 - 1.3	1.0 - 1.5	0.7 - 1.2	0.6 - 1.1	0.1 - 1.0	0.5 - 1.0		
Analyte	NRDCSRS	RDCSRS	IGWSSL								
Polychlorinated biphenyls											
Aroclor (Total)	1	0.2	0.2	0.028 U	0.028 U	0.028 U	0.028 U	0.027 U	0.029 U	0.027 U	0.028 U
Aroclor-1016	NC	NC	NC	0.028 U	0.028 U	0.028 U	0.028 U	0.027 U	0.029 U	0.027 U	0.028 U
Aroclor-1221	NC	NC	NC	0.028 U	0.028 U	0.028 U	0.028 U	0.027 U	0.029 U	0.027 U	0.028 U
Aroclor-1232	NC	NC	NC	0.028 U	0.028 U	0.028 U	0.028 U	0.027 U	0.029 U	0.027 U	0.028 U
Aroclor-1242	NC	NC	NC	0.028 U	0.028 U	0.028 U	0.028 U	0.027 U	0.029 U	0.027 U	0.028 U
Aroclor-1248	NC	NC	NC	0.028 U	0.028 U	0.028 U	0.028 U	0.027 U	0.029 U	0.027 U	0.028 U
Aroclor-1254	NC	NC	NC	0.028 U	0.028 U	0.028 U	0.028 U	0.027 U	0.029 U	0.027 U	0.028 U
Aroclor-1260	NC	NC	NC	0.028 U	0.028 U	0.028 U	0.028 U	0.027 U	0.029 U	0.027 U	0.028 U
Aroclor-1262	NC	NC	NC	0.028 U	0.028 U	0.028 U	0.028 U	0.027 U	0.029 U	0.027 U	0.028 U
Aroclor-1268	NC	NC	NC	0.028 U	0.028 U	0.028 U	0.028 U	0.027 U	0.029 U	0.027 U	0.028 U

Notes:

- All are reported in parts per million (mg/kg) (dry weight)
- ft bgs = feet below ground surface
- All VOCs were collected from 0.5-1.0 ft bgs with the exception of EB-1 (21.5-22.0 ftbgs)
- NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, May 20
- RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 2012
- IGWSSL = Default Impact to Ground Water Soil Screening Level, per NJDEP "Soil-Water Partition Equation Guidance Document" dated November 2013.
- J = Estimated Value
- NA = Not Applicable
- NC = No Criteria
- U = Not detected above the quantitation limit; the value presented is the sample quantitation
- **Bold values indicate positive detections**
- **Shaded values exceed IGWSSL**
- **Shaded values exceed RDCSRS or IGWSSL**
- **Shaded values exceeded NRDCSRS, RDCSRS, and IGWSSL**

Table 3
New Jersey Schools Development Authority
Harrison New Elementary School
Harrison, New Jersey
RI Soil Delineation Sampling Summary

Previous Sample ID	Location ID	Sample ID	Lab ID	Sample Depth (ft bgs)	Analytical Parameters	Sampling Method	Date Collected	Date Analyzed	
EB-1	EB101	EB101B	AC86200-001	2.0 - 2.5	PCBs	Acetate Sleeve	7/23/2015	7/28/2015	
		EB101C	AC86200-002	5.0 - 5.5	PCBs*	Acetate Sleeve	7/23/2015	8/5/2015	
	EB102	EB102B	AC86200-003	2.0 - 2.5	PCBs	Acetate Sleeve	7/23/2015	7/28/2015	
		EB102C	AC86200-004	5.0 - 5.5	PCBs*	Acetate Sleeve	7/23/2015	8/4/2015	
	EB103	EB103B	AC86200-005	2.0 - 2.5	PCBs	Acetate Sleeve	7/23/2015	7/28/2015	
		EB103C	AC86200-006	5.0 - 5.5	PCBs*	Acetate Sleeve	7/23/2015	8/5/2015	
	EB104	EB104B	AC86200-007	2.0 - 2.5	PCBs	Acetate Sleeve	7/23/2015	7/28/2015	
		EB104C	AC86200-008	5.0 - 5.5	PCBs*	Acetate Sleeve	7/23/2015	8/5/2015	
EB-3	EB105	EB105B	AC86200-009	2.0 - 2.5	PCBs	Acetate Sleeve	7/23/2015	7/28/2015	
		EB105C	AC86200-010	5.0 - 5.5	PCBs	Acetate Sleeve	7/23/2015	7/28/2015	
		EB105D	AC86200-011	10.0 - 10.5	PCBs	Acetate Sleeve	7/23/2015	8/10/2015	
	EB106	EB106A	AC86200-012	1.5 - 2.0	PCBs	Acetate Sleeve	7/23/2015	7/28/2015	
		EB106B	AC86200-013	2.0 - 2.5	PCBs	Acetate Sleeve	7/23/2015	7/28/2015	
		EB106C	AC86200-014	5.0 - 5.5	PCBs	Acetate Sleeve	7/23/2015	8/5/2015	
	EB107	EB107A	AC86200-031	1.5 - 2.0	PCBs	Acetate Sleeve	7/24/2015	7/28/2015	
		EB107B	AC86200-032	2.0 - 2.5	PCBs	Acetate Sleeve	7/24/2015	7/28/2015	
		EB107C	AC86200-033	5.0 - 5.5	PCBs	Acetate Sleeve	7/24/2015	8/5/2015	
	EB108	EB108A	AC86200-015	1.5 - 2.0	PCBs	Acetate Sleeve	7/23/2015	7/28/2015	
		EB108B	AC86200-016	2.0 - 2.5	PCBs	Acetate Sleeve	7/23/2015	7/28/2015	
		EB108C	AC86200-017	5.0 - 5.5	PCBs	Acetate Sleeve	7/23/2015	8/4/2015	
		DUP01	AC86200-030	1.5 - 2.0	PCBs	Acetate Sleeve	7/23/2015	7/28/2015	
	EB109	EB109A	AC86200-018	1.5 - 2.0	PCBs	Acetate Sleeve	7/23/2015	7/28/2015	
		EB109B	AC86200-019	2.0 - 2.5	PCBs	Acetate Sleeve	7/23/2015	7/28/2015	
		EB109C	AC86200-020	5.0 - 5.5	PCBs	Acetate Sleeve	7/23/2015	8/5/2015	
	EB110	EB110A	AC86200-021	1.5 - 2.0	PCBs	Acetate Sleeve	7/23/2015	8/6/2015	
		EB110B	AC86200-022	2.0 - 2.5	PCBs	Acetate Sleeve	7/23/2015	8/5/2015	
		EB110C	AC86200-023	5.0 - 5.5	PCBs	Acetate Sleeve	7/23/2015	8/4/2015	
	EB111	EB111A	AC86200-034	1.5 - 2.0	PCBs	Acetate Sleeve	7/24/2015	8/5/2015	
		EB111B	AC86200-035	2.0 - 2.5	PCBs	Acetate Sleeve	7/24/2015	8/5/2015	
		EB111C	AC86200-036	5.0 - 5.5	PCBs	Acetate Sleeve	7/24/2015	8/5/2015	
	EB112	EB112A	AC86200-024	1.5 - 2.0	PCBs	Acetate Sleeve	7/23/2015	8/5/2015	
		EB112B	AC86200-025	2.0 - 2.5	PCBs	Acetate Sleeve	7/23/2015	8/4/2015	
		EB112C	AC86200-026	5.0 - 5.5	PCBs	Acetate Sleeve	7/23/2015	8/4/2015	
	EB113	EB113A	AC86200-027	1.5 - 2.0	PCBs	Acetate Sleeve	7/23/2015	8/4/2015	
		EB113B	AC86200-028	2.0 - 2.5	PCBs	Acetate Sleeve	7/23/2015	8/5/2015	
		EB113C	AC86200-029	5.0 - 5.5	PCBs	Acetate Sleeve	7/23/2015	8/5/2015	
	EB-9	EB116	EB116B	AC86200-041	2.0 - 2.5	PCBs	Acetate Sleeve	7/24/2015	7/28/2015
			EB116C	AC86200-042	5.0 - 5.5	PCBs*	Acetate Sleeve	7/24/2015	N/A
DUP02			AC86200-047	2.0 - 2.5	PCBs	Acetate Sleeve	7/24/2015	7/28/2015	
EB117		EB117B	AC86200-043	2.0 - 2.5	PCBs	Acetate Sleeve	7/24/2015	7/28/2015	
		EB117C	AC86200-044	5.0 - 5.5	PCBs	Acetate Sleeve	7/24/2015	8/4/2015	
		DUP03	AC86200-048	2.0 - 2.5	PCBs	Acetate Sleeve	7/24/2015	7/28/2015	
EB118		EB118B	AC86200-045	2.0 - 2.5	PCBs	Acetate Sleeve	7/24/2015	7/28/2015	
		EB118C	AC86200-046	5.0 - 5.5	PCBs*	Acetate Sleeve	7/24/2015	N/A	

Notes:

- ft bgs = feet below ground surface
- NA = Not Applicable
- PCB = Polychlorinated Biphenyl
- * = Analysis held pending further results

Table 4
 New Jersey School Development Authority
 Harrison New Elementary School
 Harrison, New Jersey
RI Soil Delineation Sampling Analytical Results

Location ID				EB101		EB102		EB103		EB104		EB105			EB106		
Sample ID				EB101B	EB101C	EB102B	EB102C	EB103B	EB103C	EB104B	EB104C	EB105B	EB105C	EB105D	EB106A	EB106B	EB106C
Lab ID				AC86200-001	AC86200-002	AC86200-003	AC86200-004	AC86200-005	AC86200-006	AC86200-007	AC86200-008	AC86200-009	AC86200-010	AC86200-011	AC86200-012	AC86200-013	AC86200-014
Sample Date				7/23/2015	7/23/2015	7/23/2015	7/23/2015	7/23/2015	7/23/2015	7/23/2015	7/23/2015	7/23/2015	7/23/2015	7/23/2015	7/23/2015	7/23/2015	7/23/2015
Sample Interval (ft bgs)				2.0 - 2.5	5.0 - 5.5	2.0 - 2.5	5.0 - 5.5	2.0 - 2.5	5.0 - 5.5	2.0 - 2.5	5.0 - 5.5	2.0 - 2.5	5.0 - 5.5	10 - 10.5	1.5 - 2.0	2.0 - 2.5	5.0 - 5.5
Analyte	NRDCSRS	RDCSRS	IGWSSL														
Polychlorinated biphenyls																	
Aroclor (Total)	1	0.2	0.2	10.4	5.7	12.7	0.27	1.4	4.8	16.6	20	0.42	1.7	0.03 U	140	16.7	0.24
Aroclor-1016	NC	NC	NC	0.27 U	0.54 U	0.28 U	0.027 U	0.028 U	0.28 U	0.28 U	0.55 U	0.029 U	0.027 U	0.03 U	2.9 U	0.28 U	0.028 U
Aroclor-1221	NC	NC	NC	0.27 U	0.54 U	0.28 U	0.027 U	0.028 U	0.28 U	0.28 U	0.55 U	0.029 U	0.027 U	0.03 U	2.9 U	0.28 U	0.028 U
Aroclor-1232	NC	NC	NC	0.27 U	0.54 U	0.28 U	0.027 U	0.028 U	0.28 U	0.28 U	0.55 U	0.029 U	0.027 U	0.03 U	2.9 U	0.28 U	0.028 U
Aroclor-1242	NC	NC	NC	0.27 U	0.54 U	0.69	0.027 U	0.074	0.28 U	0.57	0.55 U	0.029 U	0.062	0.03 U	2.9 U	0.67	0.028 U
Aroclor-1248	NC	NC	NC	0.75	0.54 U	0.28 U	0.027 U	0.028 U	0.28 U	0.28 U	0.55 U	0.064	0.027 U	0.03 U	2.9 U	0.28 U	0.066
Aroclor-1254	NC	NC	NC	0.27 U	0.54 U	0.28 U	0.027 U	0.028 U	0.28 U	0.28 U	0.55 U	0.029 U	0.027 U	0.03 U	2.9 U	0.28 U	0.028 U
Aroclor-1260	NC	NC	NC	9.6	5.7	12	0.27	1.3	4.8	16	20	0.36	1.6	0.03 U	140	16	0.17
Aroclor-1262	NC	NC	NC	0.27 U	0.54 U	0.28 U	0.027 U	0.028 U	0.28 U	0.28 U	0.55 U	0.029 U	0.027 U	0.03 U	2.9 U	0.28 U	0.028 U
Aroclor-1268	NC	NC	NC	0.27 U	0.54 U	0.28 U	0.027 U	0.028 U	0.28 U	0.28 U	0.55 U	0.029 U	0.027 U	0.03 U	2.9 U	0.28 U	0.028 U

- Notes:**
- All are reported in parts per million (mg/kg) (dry weight)
 - ft bgs = feet below ground surface
 - NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, May 2012
 - RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 2012
 - IGWSSL = Default Impact to Ground Water Soil Screening Level, per NJDEP "Soil-Water Partition Equation Guidance Document" dated November 2013.
 - J = Estimated Value
 - NA = Not Applicable
 - NC = No Criteria
 - U = Not detected above the quantitation limit; the value presented is the sample quantitation limit.
 - **Bold values indicate positive detections**
 - **Shaded values exceed IGWSSL**
 - **Shaded values exceed RDCSRS or IGWSSL**
 - **Shaded values exceeded NRDCSRS, RDCSRS, and IGWSSL**

Table 4
 New Jersey School Development Authority
 Harrison New Elementary School
 Harrison, New Jersey
RI Soil Delineation Sampling Analytical Results

Location ID				EB107			EB108			EB109			EB110				
Sample ID				EB107A	EB107B	EB107C	EB108A	DUP01	EB108B	EB108C	EB109A	EB109B	EB109C	EB110A	EB110B	EB110C	
Lab ID				AC86200-031	AC86200-032	AC86200-033	AC86200-015	AC86200-030	AC86200-016	AC86200-017	AC86200-018	AC86200-019	AC86200-020	AC86200-021	AC86200-022	AC86200-023	
Sample Date				7/23/2015	7/24/2015	7/24/2015	7/23/2015	7/23/2015	7/23/2015	7/23/2015	7/23/2015	7/23/2015	7/23/2015	7/23/2015	7/23/2015	7/23/2015	7/23/2015
Sample Interval (ft bgs)				1.5 - 2.0	2.0 - 2.5	5.0 - 5.5	1.5 - 2.0	1.5 - 2.0	2.0 - 2.5	5.0 - 5.5	1.5 - 2.0	2.0 - 2.5	5.0 - 5.5	1.5 - 2.0	2.0 - 2.5	5.0 - 5.5	
Analyte	NRDCSRS	RDCSRS	IGWSSL														
Polychlorinated biphenyls																	
Aroclor (Total)	1	0.2	0.2	130	1.4	5.9	51	13.6	9	0.23	9.9	16.4	9.5	0.95	4.8	0.39	
Aroclor-1016	NC	NC	NC	2.8 U	0.028 U	0.28 U	2.8 U	0.28 U	0.29 U	0.028 U	0.28 U	0.28 U	0.58 U	0.029 U	0.29 U	0.029 U	
Aroclor-1221	NC	NC	NC	2.8 U	0.028 U	0.28 U	2.8 U	0.28 U	0.29 U	0.028 U	0.28 U	0.28 U	0.58 U	0.029 U	0.29 U	0.029 U	
Aroclor-1232	NC	NC	NC	2.8 U	0.028 U	0.28 U	2.8 U	0.28 U	0.29 U	0.028 U	0.28 U	0.28 U	0.58 U	0.029 U	0.29 U	0.029 U	
Aroclor-1242	NC	NC	NC	2.8 U	0.028 U	0.28 U	2.8 U	0.57	0.83	0.028 U	0.28 U	0.43	0.58 U	0.029 U	0.85	0.076	
Aroclor-1248	NC	NC	NC	2.8 U	0.075	0.28 U	2.8 U	0.28 U	0.29 U	0.051	0.64	0.28 U	0.58 U	0.18	0.29 U	0.029 U	
Aroclor-1254	NC	NC	NC	2.8 U	0.028 U	0.28 U	2.8 U	0.28 U	0.29 U	0.028 U	0.28 U	0.28 U	0.58 U	0.029 U	0.29 U	0.029 U	
Aroclor-1260	NC	NC	NC	130	1.3	5.9	51	13	8.2	0.18	9.3	16	9.5	0.77	3.9	0.31	
Aroclor-1262	NC	NC	NC	2.8 U	0.028 U	0.28 U	2.8 U	0.28 U	0.29 U	0.028 U	0.28 U	0.28 U	0.58 U	0.029 U	0.29 U	0.029 U	
Aroclor-1268	NC	NC	NC	2.8 U	0.028 U	0.28 U	2.8 U	0.28 U	0.29 U	0.028 U	0.28 U	0.28 U	0.58 U	0.029 U	0.29 U	0.029 U	

Notes:

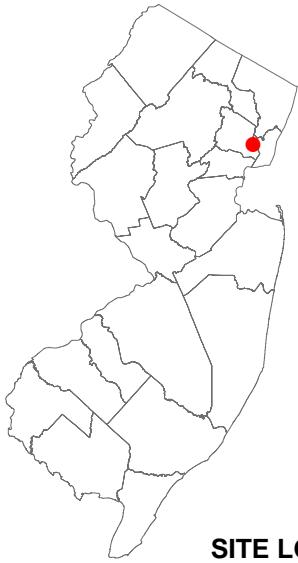
- All are reported in parts per million (mg/kg) (dry weight)
- ft bgs = feet below ground surface
- NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, May 2012
- RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 2012
- IGWSSL = Default Impact to Ground Water Soil Screening Level, per NJDEP "Soil-Water Partition Equation Guidance Document" dated November 2013.
- J = Estimated Value
- NA = Not Applicable
- NC = No Criteria
- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit.
- **Bold values indicate positive detections**
- **Shaded values exceed IGWSSL**
- **Shaded values exceed RDCSRS or IGWSSL**
- **Shaded values exceeded NRDCSRS, RDCSRS, and IGWSSL**

Table 4
 New Jersey School Development Authority
 Harrison New Elementary School
 Harrison, New Jersey
RI Soil Delineation Sampling Analytical Results

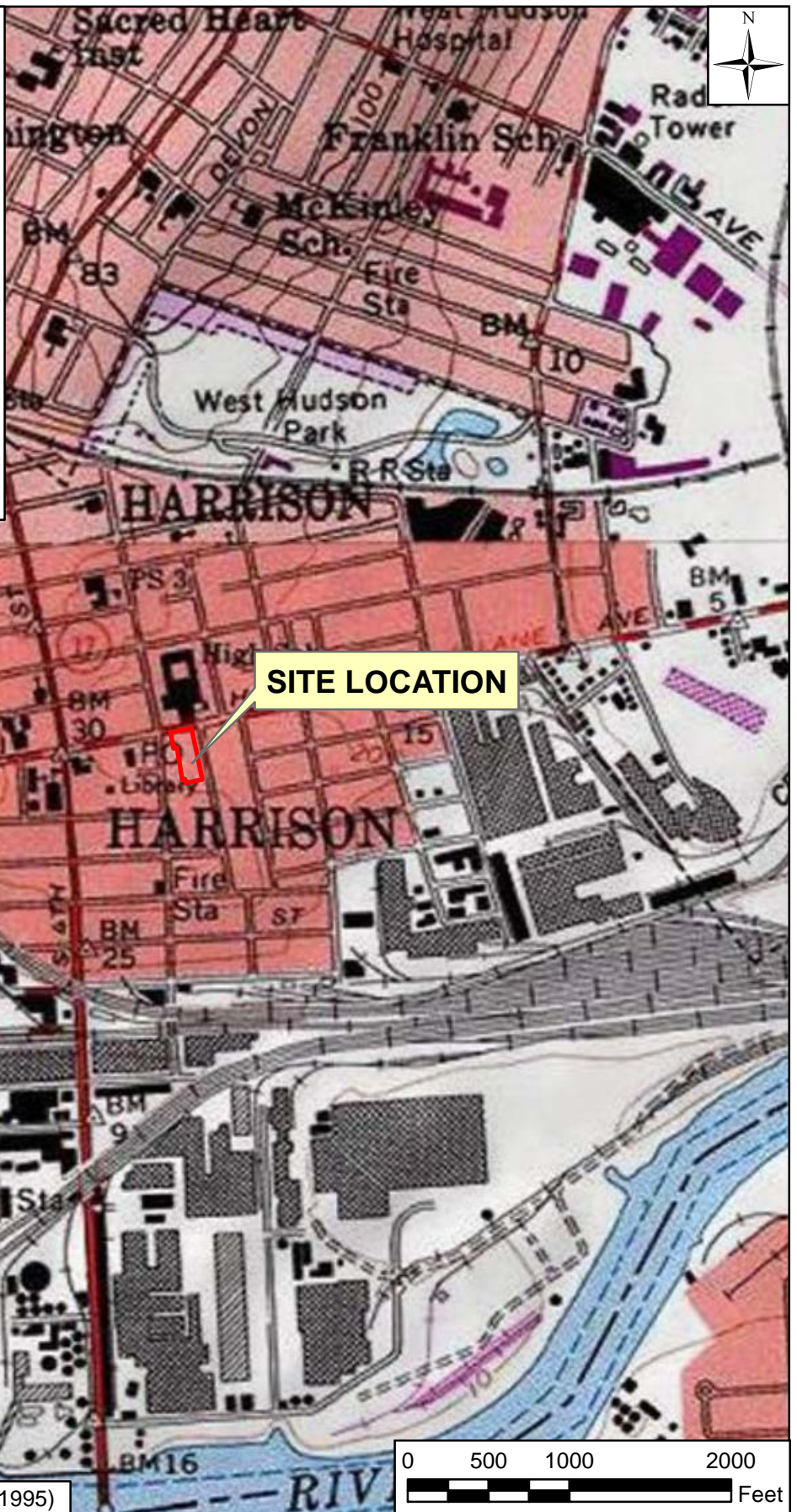
Location ID				EB111			EB112			EB113			EB116		EB117			EB118
Sample ID				EB111A	EB111B	EB111C	EB112A	EB112B	EB112C	EB113A	EB113B	EB113C	EB116B	DUP02	EB117B	DUP03	EB117C	EB118B
Lab ID				AC86200-034	AC86200-035	AC86200-036	AC86200-024	AC86200-025	AC86200-026	AC86200-027	AC86200-028	AC86200-029	AC86200-041	AC86200-047	AC86200-043	AC86200-048	AC86200-044	AC86200-045
Sample Date				7/24/2015	7/24/2015	7/24/2015	7/23/2015	7/23/2015	7/23/2015	7/23/2015	7/23/2015	7/23/2015	7/24/2015	7/24/2015	7/24/2015	7/24/2015	7/24/2015	7/24/2015
Sample Interval (ft bgs)				1.5 - 2.0	2.0 - 2.5	5.0 - 5.5	1.5 - 2.0	2.0 - 2.5	5.0 - 5.5	1.5 - 2.0	2.0 - 2.5	5.0 - 5.5	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5	5.0 - 5.5	2.0 - 2.5
Analyte	NRDCSRS	RDCSRS	IGWSSL															
Polychlorinated biphenyls																		
Aroclor (Total)	1	0.2	0.2	17	26	15	17	0.038	0.027 U	0.48	22	15	0.028 U	0.029 U	0.41	0.42	0.34	0.028 U
Aroclor-1016	NC	NC	NC	0.56 U	0.6 U	0.57 U	0.58 U	0.028 U	0.027 U	0.028 U	0.57 U	0.57 U	0.028 U	0.029 U	0.029 U	0.029 U	0.028 U	0.028 U
Aroclor-1221	NC	NC	NC	0.56 U	0.6 U	0.57 U	0.58 U	0.028 U	0.027 U	0.028 U	0.57 U	0.57 U	0.028 U	0.029 U	0.029 U	0.029 U	0.028 U	0.028 U
Aroclor-1232	NC	NC	NC	0.56 U	0.6 U	0.57 U	0.58 U	0.028 U	0.027 U	0.028 U	0.57 U	0.57 U	0.028 U	0.029 U	0.029 U	0.029 U	0.028 U	0.028 U
Aroclor-1242	NC	NC	NC	0.56 U	0.6 U	0.57 U	0.58 U	0.028 U	0.027 U	0.028 U	0.57 U	0.57 U	0.028 U	0.029 U	0.029 U	0.029 U	0.028 U	0.028 U
Aroclor-1248	NC	NC	NC	0.56 U	0.6 U	0.57 U	0.58 U	0.028 U	0.027 U	0.11	0.57 U	0.57 U	0.028 U	0.029 U	0.085	0.1	0.028 U	0.028 U
Aroclor-1254	NC	NC	NC	0.56 U	0.6 U	0.57 U	0.58 U	0.028 U	0.027 U	0.028 U	0.57 U	0.57 U	0.028 U	0.029 U	0.029 U	0.029 U	0.028 U	0.028 U
Aroclor-1260	NC	NC	NC	17	26	15	17	0.038	0.027 U	0.37	22	15	0.028 U	0.029 U	0.32	0.32	0.34	0.028 U
Aroclor-1262	NC	NC	NC	0.56 U	0.6 U	0.57 U	0.58 U	0.028 U	0.027 U	0.028 U	0.57 U	0.57 U	0.028 U	0.029 U	0.029 U	0.029 U	0.028 U	0.028 U
Aroclor-1268	NC	NC	NC	0.56 U	0.6 U	0.57 U	0.58 U	0.028 U	0.027 U	0.028 U	0.57 U	0.57 U	0.028 U	0.029 U	0.029 U	0.029 U	0.028 U	0.028 U

- Notes:**
- All are reported in parts per million (mg/kg) (dry weight)
 - ft bgs = feet below ground surface
 - NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, May 2012
 - RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 2012
 - IGWSSL = Default Impact to Ground Water Soil Screening Level, per NJDEP "Soil-Water Partition Equation Guidance Document" dated November 2013.
 - J = Estimated Value
 - NA = Not Applicable
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 - **Shaded values exceed IGWSSL**
 - **Shaded values exceed RDCSRS or IGWSSL**
 - **Shaded values exceeded NRDCSRS, RDCSRS, and IGWSSL**

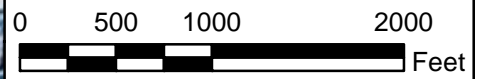
FIGURES



SITE LOCATION



SITE LOCATION



Source: USGS Quadrangle Elizabeth, NJ-NY (1995)

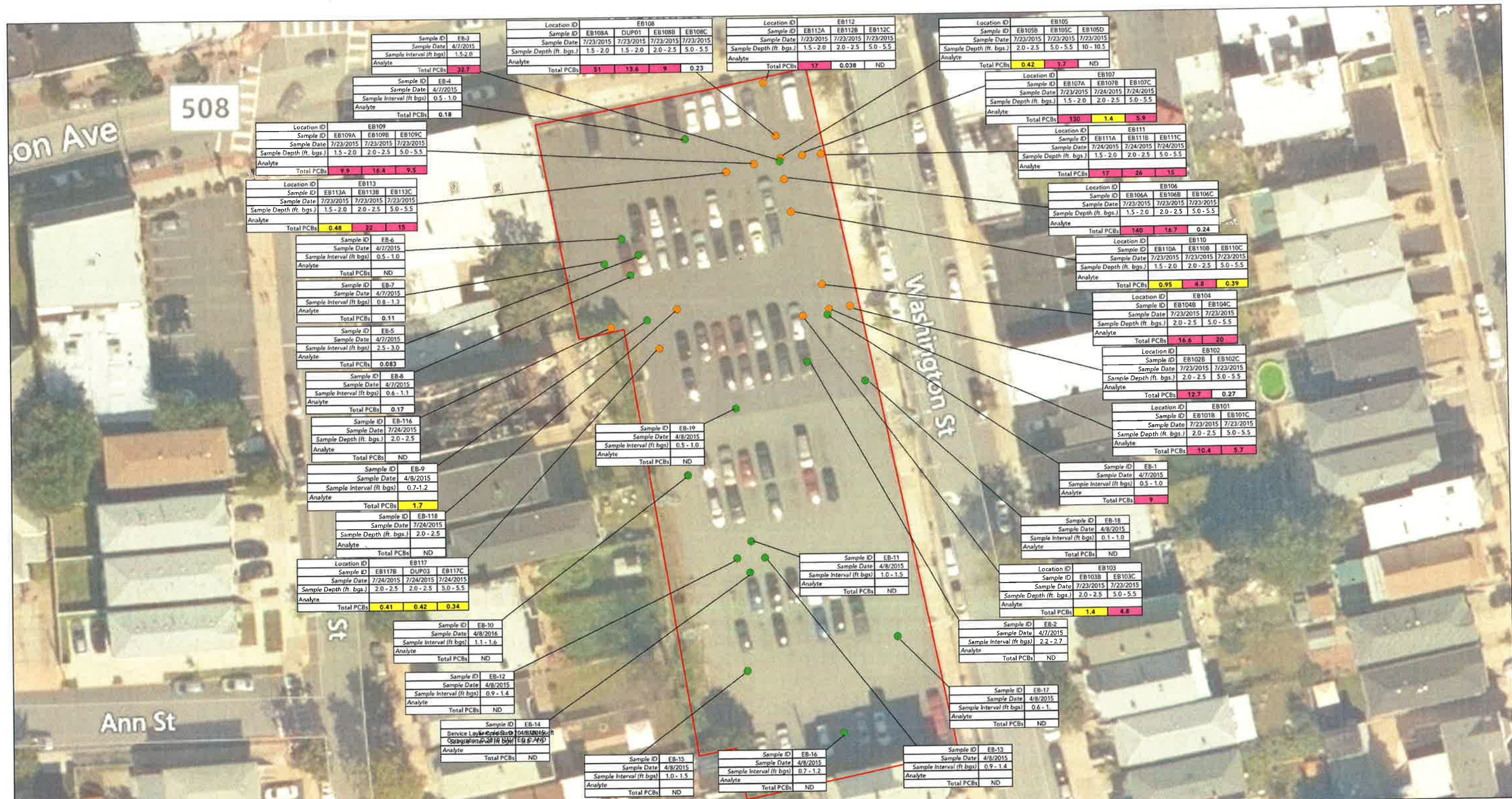


HARRISON NEW ELEMENTARY SCHOOL
SITE LOCATION MAP
507-515 HARRISON AVENUE, HARRISON, NEW JERSEY



Louis Berger

FIGURE 1



- SI Soil Boring Location
- RI Delineation Soil Boring Location
- Approximate Site Boundary

Notes:

- All are reported in parts per million (mg/kg) (dry weight)
- ft bgs = feet below ground surface
- NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, May 2012
- RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 2012
- IGWSSL = Default Impact to Ground Water Soil Screening Level, per NJDEP "Soil-Water Partition Equation Guidance Document" dated November 2013.
- * = Volatile Organic Compounds collected from 0.5 to 1.0 ft bgs
- J = Estimated Value
- NC = No Criteria
- ND = Not detected above the quantitation limit
- Bold values indicate positive detections
- Shaded values exceed IGWSSL
- Shaded values exceed RDCSRS or IGWSSL
- Shaded values exceeded NRDCSRS, RDCSRS, and IGWSSL

Analyte	NRDCSRS	RDCSRS	IGWSSL
Total PCBs	1	0.2	0.2

Image Courtesy of ISGS Earthstar Geographics SIO 2016, Microsoft Corp 2010 NAVTEQ

Coordinate System:
NAD 1983 StatePlane
New Jersey FIPS 2900

April 28, 2016



Figure 2
PCB Sample Locations
and Concentrations

SDA
NJ SCHOOL DEVELOPMENT AUTHORITY

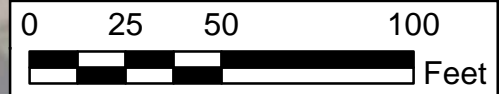
Louis Berger





Legend

- SI Soil Boring Location
- RI Delineation Soil Boring Location
- PCB Excavation Depths**
- 0 to 2.0 feet bgs (PCB >50 mg/kg)
- 0 to 2.5 feet bgs (PCB >10 mg/kg)
- 0 to 5.0 feet bgs (PCB >10 mg/kg)
- 0 to 10.0 feet bgs (PCB >10 mg/kg)
- Approximate Site Boundary



APPENDIX A
Owner Certification

Written Certification

We hereby certify that all sampling plans, sample collection procedures, sample preparation procedures, used to assess or characterize the PCB contamination at the Proposed Harrison New Elementary School, 507-515 Harrison Avenue, Harrison, New Jersey (Site), are on file at the New Jersey Schools Development Authority (NJSDA) located at 32 East Front Street, Trenton, New Jersey, 08625, and are available for EPA inspection. We do not anticipate using alternate methods for chemical extraction and chemical analysis.

A handwritten signature in blue ink, appearing to read 'C. Minervini', with the date '9/21/16' written below it.

Corrado Minervini
Project Officer



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 2
290 BROADWAY
NEW YORK, NY 10007-1866

AUG - 1 2016

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Article Number: 7011 2970 0003 2009 0452

Mr. Corrado Miniveri
New Jersey Schools Development Authority
32 East Front Street
Trenton, New Jersey 08625

**Re: Harrison New Elementary School, Harrison, New Jersey
Approval for Cleanup and Disposal of PCB Remediation Waste under 40 CFR
§761.61(a) and Approval for Characterization and Verification Sampling under 40
CFR §761.61(c)
NJDEP PI Number G000041012**

Dear Mr. Miniveri:

This is in response to the May 24, 2016 self-implementing notification (notification) submitted by Louis Berger on behalf of the New Jersey Schools Development Authority (NJSDA). The notification concerns NJSDA's plan to address polychlorinated biphenyl (PCB) contaminated soil located on the property at 507-515 Harrison Avenue in Harrison, New Jersey. The property is to be redeveloped as the Harrison New Elementary School. The notification was amended through submittal of additional information in Louis Berger's electronic correspondence dated June 1, 2016; June 9, 2016; and July 15, 2016. The notification, along with the additional information provided by Louis Berger in the aforementioned electronic correspondence, will be referred to as the "Application". The PCB contaminated soil is considered to be PCB remediation waste that exceeds the cleanup levels under the federal PCB regulations at 40 CFR §761.61(a)(4).

With the exception of the characterization and verification sampling requirements under Subparts N and O of 40 CFR Part 761, the proposed removal of the PCB remediation waste meets the self-implementing cleanup and disposal requirements under 40 CFR §761.61(a). Based on the characterization sampling, the United States Environmental Protection Agency (EPA) finds that this sampling, in this proposed remediation context, is acceptable for delineating areas of the PCB remediation waste to be addressed. The EPA also finds that NJSDA's plan for verification sampling is acceptable for purposes of determining compliance with the PCB cleanup standard for high occupancy areas of 10 parts per million (with implementation of a cap and deed restriction meeting the requirements of 40 CFR §761.61(a)(7) and (a)(8), respectively).

EPA hereby approves NJSDA's Application, and it may proceed with cleanup and disposal under 40 CFR §761.61(a) and (c) and the Application, subject to this Approval. This Approval also constitutes an order under the authority of Section 6 of the Toxic Substances Control Act, 15 U.S.C. §2605.

Please note that this Approval does not constitute a determination by EPA that the transporters or the disposal facilities selected by NJSDA are authorized to conduct the activities set forth in the Application. NJSDA is responsible for ensuring that its selected transporters and disposal facilities are authorized to conduct any such activities in accordance with all applicable federal, state and local statutes and regulations.

Should you have any questions concerning this matter, please contact James S. Haklar at (732) 906-6817 or at haklar.james@epa.gov.

Sincerely yours,

for Kathleen Mabre-Bogusky

Dore LaPosta, Director
Division of Enforcement and Compliance Assistance

cc: Kevin Schick, New Jersey Department of Environmental Protection