Phase II Remedial Investigation Work Plan

Millington Quarry Site
Stonehouse Road
Block 6001, Lot 6
Basking Ridge, New Jersey

Prepared for:

Millington Quarry, Incorporated
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and
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JMS Project # 2008.226

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1 INTRODUCTION

JM Sorge, Inc. (JMS) was retained by Day Pitney, LLP (Day Pitney) on behalf of Millington Quarry, Inc. (MQI) and by K&L Gates, LLP (K&L Gates) on behalf of Tilcon New York Inc. (Tilcon) to evaluate the environmental quality of the imported fill soils placed within the Millington Quarry, Inc. (MQI) site. Fill soils were brought into the quarry from 2006 to 2008, to "pad" the steep rock slopes as mandated by the site reclamation plan approved by Bernards Township for the site.

A Phase I investigation plan was approved by the Department in October 2009 and the results report was submitted the in April 2010. The Department issued comments in October 2010 and required the completion of a Phase II investigation to provide additional fill characterization information. The following Phase II Remedial Investigation Work Plan (RIWP) for Case Number 09-05-01-1130-55 provides a brief summary of previous sampling conducted and presents a detailed plan to complete the additional fill sampling required by NJDEP to characterize the imported fill.

2 PHYSICAL SETTING

The Millington Quarry site is designated as Tax Block No. 6001 Lot 6 on the Bernards Township tax map. The site is located on Stonehouse Road, in Bernards Township, Somerset County, New Jersey. The site has operated over the past century as a trap rock mining and quarry operation. The site includes approximately 180 acres, roughly two thirds of which comprise the quarry pit, with the remainder used for stockpiling quarry over burden soils and non-trap rock stone materials. The site is located at approximately 40° 40′ 45″ N latitude and 74° 32′ 13″ W longitude. The site is bordered by residential property to the south and west along Stonehouse Road. The Delaware Railroad borders the site to the north and east with residential property beyond the railroad in these directions. A site location map is included as Figure 1 and a site map showing the three fill areas is provided as Figure 2.

2.1 Site Topography and Drainage

The property occupies the southern edge of a "reversed C" shaped ridge which extends from Somerset County to Passaic County. The current site topography primarily slopes inward towards the quarry floor which is in excess of 200 feet deep towards the northern end of the quarry. The nearest surface water bodies are two (2) tributaries of the Passaic River. One tributary is located north of the subject property and the other tributary is located southwest of the property. The Passaic River is located to the east of the site. In addition, there is also a quarry settling pond located at the base of the present quarry which collects runoff within the Quarry. The location of the quarry settling pond has changed repeatedly over the operational history of the site. Within the quarried areas, collected surface runoff is used for dust control and stone product processing. Excess accumulation of runoff, which is collected in the quarry settling pond, is discharged to the Passaic River under an active New Jersey Pollution Discharge Elimination System (NJPDES) permit.

2.2 Site Geology

The quarry is located within the Piedmont Physiographic Province, which is described as a low rolling plain interspersed with a series of higher ridges. The quarry is part of the Hook Mountain Basalt (Jh) Formation. It is light to dark greenish gray, medium to coarse-grained amyghdaloial composed of plagioclase, clinopyroxene and iron-titanium oxides such as magnetite and ilmenite. Hook Mountain Basalt Formation consists of basalt that is high in calcic-plagioclase feldspar and pyroxene, as well; apatite and magnetite are also nearly always present. Olivine may also occur.

The Hook Mountain Formation was formed by volcanic activity. The volcanic activity was also associated with the rifting, as indicated by the basalt and diabase interlayered with the sandstone and shale. Therefore the Hook Mountain Formation contains large intrusions of diabase rock and basalt. Between these ridges are pockets of shale and sandstone. Arsenic is associated with diabase intrusions in this region.

2.3 Site Hydrogeology

Groundwater in the vicinity of the quarry is present within the underlying bedrock of the Towaco formation as documented in the Hydrologic Impacts Assessment prepared by Leggette, Brashears & Graham, Inc. (LBG). Groundwater flow, based on regional data, occurs primarily within the fractures, faults and bedding planes of the underlying sedimentary rock.

Three on-site monitoring wells have been installed at the site. Two monitoring wells are installed in Area A and one in Area C. Groundwater elevation has been measured during several quarterly sampling events conducted at the site.

2.4 Site Soils

According to the Soil Survey of Somerset County - USDA Soil Conservation Service and NJDEP I-Map, soils surrounding the site are comprised of silts and silty clay of the Neshaminy – Mount Lucas Series (NkC). Gravel sized and boulder sized bedrock fragments as well as in-situ weathered bedrock are also present in the overburden soil at the Quarry. Due to quarry operations, the majority of the overburden has been stockpiled on the southern portion of the property in order to allow mining to proceed to the north. Prior to quarry operations, soils and weathered bedrock may have extended to depths of up to 30 feet thick across portions of the site.

3 PHASE I RI AND FILL SAMPLING DATA

The objective of the approved Phase I RIW was to characterize the fill present within the identified areas of the Millington Quarry site. In October and November 2009, a total of 85 soil samples were collected in Fill Areas A, B and C. The results confirmed that the fill contains sporadic low levels of contaminants slightly in excess of residential standards.

3.1 Phase I Sampling of Fill Area A - RI Findings

The borings, test pits, and monitoring well locations completed within Fill Area A are shown on Figure 2. As shown, a total of 4 deep and 20 shallow test pit /soil borings were installed within Fill Area A in October and November 2009. Samples were collected by JMS on behalf of the Quarry and a duplicate set of split samples was collected by ICON Engineering on behalf of Bernards Township. They were analyzed for BNAs+25, Metals, PCBs and Pesticides with 25% selected for chromium analysis.

The test pits were advanced until groundwater was encountered or a maximum depth of reach of the excavator. Deep soil borings were installed using either mud rotary or Odex drill rig. All soil borings were advanced until bedrock or refusal was encountered. JMS personnel logged the soil descriptions, PID and XRF readings and site observations while in the field.

JMS submitted 64 samples for laboratory analysis from Area A. The analysis results were submitted in the Remedial Investigation Report (RIR) dated April 2010. The results confirmed the scattered presence of low levels of metals, semi-volatiles, and other typical fill related contaminants, as anticipated. There was no correlation with sample depth or location within the fill. No hexavalent chromium was identified in the fill and no contaminants in excess of the default synthetic precipitation leachate procedure (SPLP) were identified. The SPLP analysis was conducted to determine if the presence of the fill would impact underlying groundwater quality. Analysis results for JMS and Icon are presented on Figure 3.

3.2 Previous Sampling of Fill Area B - RI Findings

Area B consists of 2.65 acres area representing a small northeastern portion of the quarry site. JMS and Icon collected split samples in the test pit/soil boring locations depicted on Figures 2 and 3A. JMS installed two soil borings and two test pit locations within fill Area B. JMS collected a total of eight soil samples from Area B. No metals, PCBs or pesticides were identified in excess of the residential standard. However, two of the eight samples (MB-2A and MB-2B), slightly exceeded NJDEP's strictest remediation standard for semi-volatiles. The laboratory analytical data obtained by JMS are summarized in Table 1. Icon also analyzed 8 samples from Area B, no contamination was identified in any of the Icon samples from Area B. Icon's analytical data is summarized in Appendix B. JMS and Icon's soil sampling analytical results are depicted on Figure 3A.

3.3 Previous Sampling of Fill Area C - RI Findings

Area C is the oldest area of fill and consists of approximately 6.42 acres which was present prior to 1998. Area C represents a combination of native fill and some historically imported fill which was used to construct the current quarry access road. During Phase I of the investigation, a total of four soil borings were installed (see Figure 2). Two shallow soil borings were advanced to a depth of 40 feet below grade and sampled at random depths. The two deep soil borings were advanced until bedrock or refusal was encountered. Each of the borings were randomly field screened using a calibrated PID and an XRF. Soil descriptions, PID and XRF readings and site observations were logged in the field. JMS collected and analyzed a total of thirteen soil

samples from Fill area C. No contaminants were identified in excess of the Department's unrestricted use (residential) soil cleanup standard.

3.4 Groundwater

Due to the un-anticipated difficulties encountered in installing deep borings on the site, the Phase I program was expanded to include groundwater sampling. Three permitted groundwater monitoring wells (MW-1, MW-2, and MW-3) were installed at the site. Monitoring wells MW-1 and MW-2 were installed in Area A and monitoring well MW-3 was installed in Area C using a combination of dual rotary and Odex drilling techniques. Two weeks following the monitoring well installation, JMS personnel sampled the monitoring wells. Monitoring Well MW-3 did not contain sufficient groundwater for sampling; therefore this well was properly abandoned and replaced with MW-3R.

Five rounds of groundwater sampling were conducted for MW-1 and MW-2 and four rounds for MW-3R, from January 2010 to January 2011. The JMS and ICON sampling results are provided in Table 2. As discussed in the RI report, Arsenic is a component of the native diabase bedrock in the Quarry; therefore, its presence in the down-gradient well by the settling pond represents a natural background condition and does not warrant further concern. Groundwater elevations were recorded during each sampling event. Based on the results groundwater flow is directed generally to the east as shown on Figure 4.

The results obtained by JMS show levels of Benzo(a)Anthracene, Benzo(a)Pyrene, Benzo(f)Fluoranthene, Benzo(k)Fluoranthene, Bis(2-ethylhexyl)phthalate, Dibenzo(a,h)Anthracene, Indeno(1,2,3-cd)Pyrene, Arsenic, Lead, Chlordane, and p,p'-DDT in well MW-1. ICON results did not confirm the JMS results. However, we believe that semi-volatile and other low levels of groundwater contamination reported are valid based on our review of laboratory data. JMS proposes to continue monitoring the groundwater quality on a quarterly basis in the Quarry and to install an additional well as discussed below.

4 PHASE II REMEDIAL INVESTIGATION

The Phase II Work Plan (RIWP) was developed in response to the Department's response to the Phase I RI report dated October 4, 2010. The objective is to complete additional characterization sampling to the extent feasible within the Quarry in order to obtain sufficient data to support the final remedy. The vertical and horizontal extent of this fill has been determined; however, additional characterization sampling data is required by the Department to provide additional characterization of the fill soil present.

4.1 Phase II RI Concept Plan

Drilling deep soil borings proved to be impossible within the deep fill in Area A during the Phase I investigation. Due to the variability of the size and type of fill present, it was not possible to maintain drilling fluid within a borehole and thus severely limited the depth of sampling which could be achieved in the Area A fill. The following plan was developed to

achieve the additional vertical characterization sampling of the fill requested by the Department; while reducing the need for deep drilling.

4.2 Fill Area A Sampling Plan

Area A is the most difficult fill area to investigate due to the extremely difficult drilling conditions, the extensive depth of fill, and the extreme slopes. The Phase II plan includes additional test pits, the installation of an additional monitoring well and deep boring within the Area A fill. In addition, ten additional locations will be selected for deep vertical sampling during excavation of the face of the Area A fill during final grading. An additional eleven test pits will be installed using a track hoe, at the approximate locations shown on Figure 4. The goal is to increase the general areal coverage of shallow (15 to 20') soils, since these soils represent the greatest direct contact risk. In addition, the historical data used to establish the boundary between Area A and Area B fill is not precise. Therefore, additional test pits are required along the Area A and B fill boundary to confirm the fill boundary in this area of the site to support the final remedial design for the proposed engineered cap.

A deep boring will be installed along the rock wall to the north of the Area A fill (Figure 4). The boring will be continuously scanned and logged with laboratory samples collected at depth intervals of approximately 15 feet, as previously approved by the Department for Phase I. Following sampling the boring will be converted to a permitted groundwater well. The boring will be advanced to bedrock or refusal. The objective is to provide a supplemental down gradient well to insure that the sporadic impacts observed in MW-1 (Table 2 as discussed in section 3.4) are completely delineated. A second deep boring will be installed as shown on Figure 4. The boring will be advanced to refusal or bedrock. It should be noted that based on previous drilling and sampling attempts in this area, it may not be possible to install this boring to bedrock.

The third component of the Phase II plan will utilize the proposed re-grading and consolidation of Area A fill as a means to obtain additional vertical fill characterization data for the site. The Quarry proposes to consolidate the present extent of the Area A fill to support the proposed final capping remedy at the site. This will reduce the extent of the Area A fill to approximately 45 acres. The approximate consolidation line is shown on Figure 4.

A comparison of the current anticipated fill depth along the consolidation line shows that fill ranges in depth from 60 to over 80 feet deep along the consolidation line. JMS is proposing to conduct vertical fill sampling from the excavation face at ten locations. Each vertical face location will be continuously logged and scanned. A minimum of 4 samples per location will be selected for laboratory analysis. The consolidation sampling will be deferred until the re-grading of the fill is conducted during the initial field work associated with the final remedy selected for the site. A total of 22 shallow soil samples and a total of 10 deep soil samples will be collected in Fill Area A during the initial program and an additional 40 vertical characterization samples will be collected during re-grading.

4.3 Fill Area C Sampling Plan

Fill Area C is located adjacent to Fill Area A (southwest corner), approximately 150 feet from the southwestern property boundary of the site and covers approximately 6.42 acres of the site. The imported fill in this area is older and was placed earlier than the fill present in Area A or B.

JMS will advance three shallow soil test pits or borings into Fill Area C to complete the characterization of the imported fill at the locations shown on Figure 4. Each test pit will be advanced to refusal or the maximum depth of reach of the excavator (14 to 14.5 feet below grade), whichever occurs first. Soils will be continuously screened within each boring. The soils will be visually inspected, logged and screened with a calibrated PID. Soil descriptions, PID readings, and site observations will be logged during the investigation. A maximum of 2 samples per shallow test pit will be submitted for laboratory analysis for BNs+25, TAL Metals, and Pesticides/PCBs. Samples selected for laboratory analysis will be biased toward any areas which are visually stained or where high readings are detected.

4.4 Groundwater Monitoring Well

Three monitoring wells have already been installed at the site. Two monitoring wells are installed in Area A and one in Area C. The groundwater appears to flow in a northeast as shown on Figure 4. Therefore, the deep boring located along the northern wall will be converted into a groundwater monitoring well as previously discussed. Figure 4 illustrated the location of this proposed monitoring well. As mentioned in section 4.3, soil samples will be collected from this boring prior to the installation of the monitoring well.

5 QUALITY ASSURANCE PROJECT PLAN

This Quality Assurance Project Plan (QAPP) has been prepared by JMS for this Phase II RIW in accordance with N.J.A.C. 7:26E-2.2. The QAPP follows the requirements provided under N.J.A.C. 7:26E-2.2(a)1. Quality Assurance/Quality Control (QA/QC) protocols to ensure that the precision accuracy, representiveness, comparability, and completeness (PARCC parameters) of data collected during the Phase II RI activities meets the objectives of this RIW, the NJDEP FSPM and the TRSR (N.J.A.C. 7:26E). The QA/QC protocols for the Phase II RIW will include project management and organization, laboratory analysis and validation procedures, field decontamination procedures, calibration and maintenance of field instruments, and QA/QC sampling procedures. The following section outlines the QA/QC protocols for each of these issues.

5.1 Project Organization and Responsibilities

The responsibilities of the key project personnel are detailed below.

- The Project Manager is responsible for overseeing the implementation of the RI tasks. The Project Manager will review all documents and correspondence concerning the activities performed. The Project Manager is also responsible for the overall QA

including technical adequacy of the RI activities and reports, and conformance to the scope of work.

- The RI Team members include the sampling team and support staff, who are responsible for work in their respective specialty areas, which are or may be required to meet the project objectives.
- The Project Health and Safety Coordinator is responsible for implementing the site-specific health and safety directives in the HASP and for contingency response.
- The Site Scientist is responsible for coordination of the activities of field personnel and of the drilling and surveying subcontractors; adherence of the field work to the procedures specified in the RIW; and documentation of the fieldwork. The Site Scientist is also designated as the Site Safety Officer.
- The Data Validator is responsible for review of laboratory data for compliance with the QA objectives for the PARCC parameters, and notifications to the Project Manager of any QC deficiencies.

5.2 Identification of Applicable Remediation Standards

The soil remediation standards applicable to the site are the Soil Remediation Standards established by the NJDEP on June 2, 2008 (N.J.A.C. 7:26D) and the applicable impact to groundwater soil criteria (October 2005 guidelines) for any contaminants identified on the site.

All soil samples collected will be submitted to an NJDEP certified laboratory for analysis for Base Neutrals plus forward library search, Target Analyte List (TAL) Metals, Pesticides, and Polychlorinated Biphenyl's (PCBs). These represent the Contaminants of Concern (COC) within the imported fill soils based on the historical data.

Contaminants of Concern	Acronym	Laboratory Method
Base Neutrals + 25	BN	8270C
Target Analyte List (TAL) Metals	PPM	6010B/6020
Pesticides and Polychlorinated Biphenyl's	Pesticides & PCBs	8081/8082

The Quarry will split all samples with representatives of Bernards Township as conducted during the Phase I investigation, if desired.

5.3 Laboratory Analysis and Validation

All laboratory analysis will be conducted by a NJDEP certified laboratory. The laboratory analyses will be reviewed for completeness and technical compliance with the RIR. The review of the analytical results will include checking chain-of-custody forms, sample holding times,

blank contamination, spike recoveries, surrogate recoveries, internal standards, precision of duplicate sample analysis, and laboratory control samples.

5.4 Analytical Methods / Quality Assurance Summary

Sampling Summary Table

Millington Quarry Site

Sample Location	Matrix	Sample Depths	Holding Time	Analytical Parameters (Analytical Method)	Required Preservative	Sampling Method
All Soil Borings	Soil	To be determined in the field	BN – 7 day extraction PPM – 6 months Pesticides – 7 day extraction PCBs – 14 day extraction	BN+25 (EPA 8270C) TAL Metals (EPA 6010B / 6020) Pesticides (8081) PCBs (8082)	Cool, 4 C	Split spoon samplers

5.5 Quality Control

During field sampling activities, field QC samples consisting of field blanks will be collected. These samples will be submitted to the analytical laboratory for analysis concurrently with actual field samples. As stated in the NJDEP FSPM, trip blanks are not required for non-aqueous matrices and will not be collected. The field blank will be used for BN, PPM, and Pesticides analyses and is a mechanism of control on sample equipment handling, preparation, storage, and shipment. At the field sampling location, the field blank water will be passed from the full set of bottles through the dedicated or field-decontaminated sampling equipment to comparable laboratory supplied glassware. The field blank is also used to indicate potential contamination from ambient air as well as from sampling instruments used to collect and transfer samples from point of collection into sample containers. Field blanks will be preserved in the same manner as environmental samples. One field blank per sampling event for each analytical parameter will be collected.

5.5.1 Field Decontamination

Field decontamination will be conducted on all non-dedicated, reusable sampling equipment used during implementation of the RIW. Examples of this equipment include drilling rigs, split spoon samplers and trackhoe bucket. Field decontamination will be conducted in accordance with the NJDEP Field Sampling Procedures Manual (August 2005).

5.5.2 Drilling and Trackhoe Equipment

The drilling equipment will be controlled by a New Jersey licensed well driller. The trackhoe equipment will be controlled by a licensed trackhoe operator. Prior to drilling each soil boring location, the split spoon sampling equipment will be properly cleaned to minimize cross contamination.

5.5.3 Subsurface Soil Sampling

Subsurface soil samples will be collected and logged at depths designated within the plan. Test pit samples will be collected using laboratory supplied glassware. The procedure for split-spoon sampling consists of the collection and extraction of undisturbed soil cores of 24 inches in length. A series of consecutive cores may be extracted with a split-spoon sampler to give a complete soil column profile, or an auger may be used to drill down to the desired depth for sampling. The split spoon is then driven to its sampling depth through the bottom of the augured hole and the core extracted. When split-spoon sampling is performed to gain geologic information, all work will be performed in accordance with ASTM D 1586-67 (reapproved 1974). Split spoons will be constructed of stainless steel.

After driving and retrieving the split spoon sampler, the soil will be screened visually and with a calibrated photo ionization detector (PID). Soil descriptions, PID readings, and site observations will be logged during the investigation and then the appropriate soil samples will be collected for laboratory analyses.

5.5.4 Field Instrument Calibration and Maintenance

The field instruments such as the PID will be calibrated daily according to the manufacturer's instructions. Instrument calibrations will be documented on the applicable Daily Log. The calibration of laboratory instrumentation used for the analysis of samples will be performed in accordance with the specified analytical method and reported by the certified laboratory performing the calibrations.

6 HEALTH AND SAFETY PLAN

A Site Specific Health and Safety Plan (HASP) was prepared for the Phase I RIW as required by N.J.A.C. 7:26E-4.2 and N.J.A.C. 7:26E-1.9. The HASP was developed in accordance with the most recently adopted pertinent regulations under the Occupation Safety and Health Administration rules for HAZWOPER projects. The Phase I HASP is provided as Appendix A and will be used for the Phase II program as well.

7 CERTIFICATIONS

N.J.A.C. 7:26C-1.2 et. seq.

Any person making a submission to the Department required by this chapter and pursuant to N.J.A.C. 7:26E, shall include the following signature and notarized certification, for each technical submittal. Additionally, the certification shall indicate the case name and address, case number, type of documents submitted, e.g. Remedial Action Report, for each technical submittal.

TYPE OF DOCUMENT **Phase II Remedial Investigation Work Plan**

CASE NAME **Millington Quarry Site**

CASE ADDRESS **Stonehouse Road, Basking Ridge, Somerset County, NJ**

CASE NUMBER **09-05-01-1130-55**

The following certification shall be signed by:

1. For a corporation, by a principal executive officer of at least the level of vice president;
2. For a partnership or sole proprietorship, by a general partner of the proprietor, respectively, or;
3. For a municipality, State, Federal or other public agency, be either a principal executive officer or ranking elected official.
4. Duly authorized representative of a corporation, partnership, sole proprietorship, municipality, state or Federal or other public agency, as applicable. A person is deemed to be a duly authorized representative if the person is authorized in writing by an individual described in 1, 2, or 3 above and the authorization meets the following criteria:

   - The authorization specifies either an individual or a position having responsibility for the overall operation of the industrial establishment or activity, such as the position of plant manager, or superintendent or person of equivalent responsibility (a duly authorized representative may thus be either a named individual or any individual occupying a named position);
   - The written authorization is submitted to the Department; and
   - If an authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the industrial establishment or activity, a new authorization satisfying the requirements listed above shall be submitted to the Department prior to, or together with, any reports, information, or applications to be signed by an authorized representative.

"I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement that I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

PRINTED NAME Gary Mahan o/b/o Millington Quarry, Inc. TITLE President

SIGNATURE _____ DATE 3-14-11

Sworn to and Subscribed Before Me on this 14th

Day of March 2011

_____ Notary

ELEANOR .E PLOSHAY
NOTARY PUBLIC
STATE OF NEW JERSEY
MY COMMISSION EXPIRES
JUNE 20, 2011

PRINTED NAME George Thompson TITLE Vice President
o/b/o Tilcon New York Inc.

SIGNATURE [signature] DATE 3.15.11

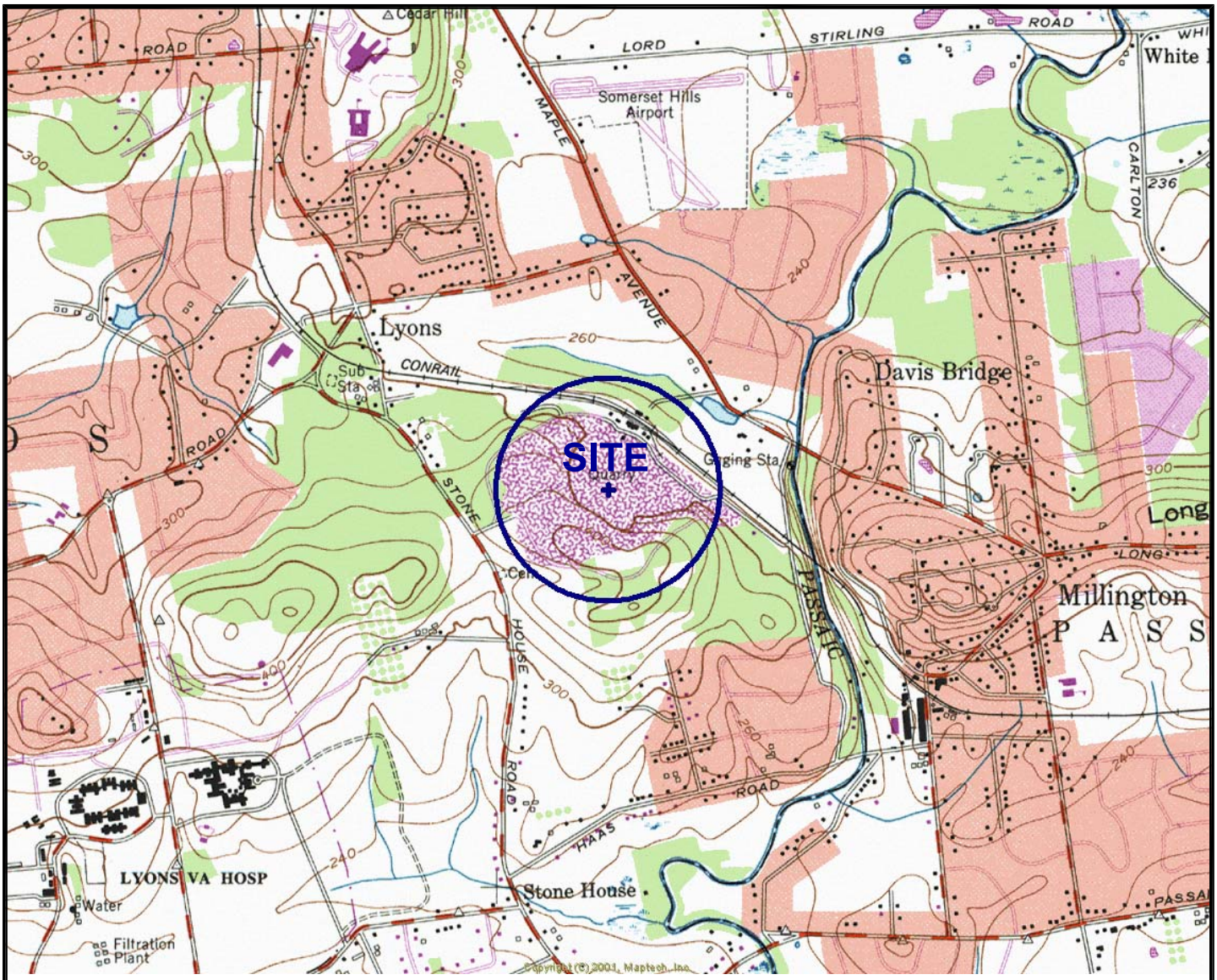
Sworn to and Subscribed Before Me on this 15th

Day of March 2011

Wendy Arias Notary

Wendy Arias ID; 2294400
Notary Public - New Jersey
Expiration 11-28-2012

FIGURES



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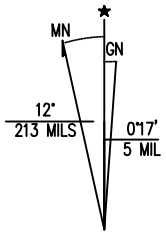
BERNARDSVILLE
QUADRANGLE – NJ



UTM GRID AND 1981 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

SITE LOCATION MAP

MILLINGTON QUARRY
BERNARDS TOWNSHIP, NEW JERSEY

PREPARED FOR
MILLINGTON QUARRY, INC

DATE: 03/26/09	DWG. No. 08.226-001
JM SORGE, INC.	FIGURE 1

N

MA-1
MA-8
MA-21 / MW-1
MA-7
MA-9
MA-14
MA-19
MA-18
MA-25
MA-2
MA-10
MA-13
MA-15
MA-27 / MW-2
MA-20
MA-3
FILL AREA A
MA-6
MA-12
MA-16
MA-11
MA-17
MA-24
MA-4
MA-5
MC-2
MC-4 / MW-3
FILL AREA C
MC-3
MC-1
QUARRY SETTLING POND
FILL AREA B
MB-3
MB-2
MB-4
MB-1
PASSAIC RIVER

MAP SOURCE:

RK MAPPING LLC
ATLANTA GEORGIA

This map compiled by DIGITAL photogrammetric methods from aerial photography dated 05-25-08.
control matrix taken from Aerometric 3/07 mapping. Grid based on New Jersey State Plane Coordinate System, NAD 1927.
Vertical datum based on NAVD 1929.

DEEP CONTINUOUS BORING LOCATIONS WHICH WILL BE CONVERTED TO A MONITORING WELL
DEEP BORING LOCATIONS
SHALLOW BORING LOCATIONS
TESTPIT LOCATIONS
PROPERTY BOUNDARY
TREES
APPROXIMATE AREAS OF NON-NATIVE FILL

0 200 400
scale feet
SCALE SUBJECT TO VERIFICATION

SAMPLING PLAN SHOWING FILL AREAS AND OCTOBER THROUGH DECEMBER 2009 SOIL SAMPLING LOCATIONS

MILLINGTON QUARRY
BERNARDS TOWNSHIP, NEW JERSEY

PREPARED FOR
MILLINGTON QUARRY, INC. AND TILCON NEW YORK INC.

DATE: 12/29/09	DWG. No. 08.226-20091229
J.M. SORGE, INC.	FIGURE 2

FILL AREA A

N

QUARRY SETTLING POND

REGENT CIRCLE DRIVE

HICKORY

MAP SOURCE:

RK MAPPING LLC
ATLANTA, GEORGIA

This map compiled by DIGITAL photogrammetric methods from aerial photography dated 05-25-08. control matrix taken from Aerometric 3/07 mapping. Grid based on New Jersey State Plane Coordinate System, NAD 1927. Vertical datum based on NAVD 1929.

MA-1

MA-1A (3.5'–4.0')	MA-1A-SS (3.5'–4.0')
SVOCs: < SRS Metals: < SRS PCBs: Not Detected Pesticides: < SRS	SVOCs: Not Detected Metals: < SRS PCBs: < SRS Pesticides: < SRS
MA-1B (10.5'–11.0')	**MA-1B-SS (10.5'–11.0')**
Benzo(a)Anthracene: 4.5 Benzo(a)Pyrene: 3.5 Benzo(b)Fluoranthene: 4.5 Dibenzo(a,h)Anthracene: 0.53 Indeno(1,2,3-cd)Pyrene: 1.9 Metals: < SRS PCBs: Not Detected Pesticides: < SRS	Benzo(a)Anthracene: 44.9 Benzo(a)Pyrene: 37.4 Benzo(b)Fluoranthene: 30.6 Benzo(k)Fluoranthene: 36.6 Dibenzo(a,h)Anthracene: 8.5 Naphthalene: 14.1 Metals: < SRS PCBs: Not Detected Pesticides: Not Detected

MA-7

MA-7A (8.0'–8.5')	MA-7A-SS (8.0'–8.5')
Benzo(a)Anthracene: 0.74 Benzo(a)Pyrene: 0.61 Benzo(b)Fluoranthene: 0.86 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	SVOCs: < SRS Metals: < SRS Total PCBs: < SRS Pesticides: < SRS
MA-7B (14.0'–14.5')	**MA-7B-SS (14.0'–14.5')**
Benzo(a)Pyrene: 0.46 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	Benzo(a)Anthracene: 1.89 Benzo(a)Pyrene: 1.68 Benzo(b)Fluoranthene: 1.33 Dibenzo(a,h)Anthracene: 0.295 Indeno(1,2,3-cd)Pyrene: 0.948 Metals: < SRS Total PCBs: < SRS Pesticides: < SRS

MA-8

MA-8A (7.5'–8.0')	MA-8A-SS (7.5'–8.0')
Benzo(a)Anthracene: 0.91 Benzo(a)Pyrene: 0.76 Benzo(b)Fluoranthene: 1.1 Metals: < SRS Total PCBs: Not Detected Chlordane: 0.24	Benzo(a)Anthracene: 1.59 Benzo(a)Pyrene: 1.59 Benzo(b)Fluoranthene: 1.47 Dibenzo(a,h)Anthracene: 0.359 Indeno(1,2,3-cd)Pyrene: 1.04 Metals: < SRS Total PCBs: < SRS Pesticides: Not Detected
MA-8B (13.5'–14.0')	**MA-8B-SS (13.5'–14.0')**
Benzo(a)Pyrene: 0.26 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	Benzo(a)Pyrene: 0.276 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS

MA-21 / MW-1

MA-21A (20.0'–20.5')	MA-21B (40.0'–40.5')	MA-21C (50.5'–51.0')	MA-21D (80.0'–80.5')
Benzo(a)Pyrene: 0.22 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	SVOCs: < SRS Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	Benzo(a)Pyrene: 0.39 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	Benzo(a)Pyrene: 0.29 Metals: < SRS Total PCBs: Not Detected Chlordane: 0.5
MA-21E (100.5'–101.0')	**MA-21F (110.5'–111')**	**MA-21G (120.5'–121.0')**	**MA-21H (140.5'–141.0')**
Benzo(a)Anthracene: 1.1 Benzo(a)Pyrene: 0.87 Benzo(b)Fluoranthene: 1.1 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	SVOCs: < SRS Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	Benzo(a)Pyrene: 0.22 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	Benzo(a)Anthracene: 0.65 Benzo(a)Pyrene: 0.55 Benzo(b)Fluoranthene: 0.72 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS

MA-21I (160.5'–161.0')	MA-21J (180.5'–181.0')	MA-21K (190.0'–191.5')	MA-21L (200.5'–201.0')	MA-21M (210.5'–211.0')
SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected

MA-21A-SS (20.0'–20.5')	MA-21B-SS (40.0'–40.5')	MA-21C-SS (50.5'–51.0')	MA-21D-SS (80.0'–80.5')
Dibenzo(a,h)Anthracene: 0.265 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	Benzo(a)Pyrene: 0.235 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	Benzo(a)Anthracene: 1.1 Benzo(a)Pyrene: 0.874 Benzo(b)Fluoranthene: 0.922 Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	Benzo(a)Anthracene: 0.89 Benzo(a)Pyrene: 0.749 Metals: < SRS Total PCBs: Not Detected Chlordane: 0.277
MA-21E-SS (100.5'–101.0')	**MA-21F-SS (110.5'–111')**	**MA-21G-SS (120.5'–121.0')**	**MA-21H-SS (140.5'–141.0')**
Benzo(a)Anthracene: 1.04 Benzo(a)Pyrene: 0.992 Benzo(b)Fluoranthene: 0.871 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	SVOCs: < SRS Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	Benzo(a)Anthracene: 0.942 Benzo(a)Pyrene: 0.786 Benzo(b)Fluoranthene: 0.752 Metals: < SRS Total PCBs: < SRS Pesticides: < SRS	Benzo(a)Pyrene: 0.258 Metals: < SRS Total PCBs: < SRS Pesticides: < SRS

MA-21I-SS (160.5'–161.0')	MA-21J-SS (180.5'–181.0')	MA-21K-SS (190.0'–191.5')	MA-21L-SS (210.5'–211.0')	MA-21M-SS (210.5'–211.0')
SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: < SRS Pesticides: Not Detected	SVOCs: < SRS Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	SVOCs: < SRS Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS

MA-9

MA-9A (7.5'–8.0')	MA-9A-SS (7.5'–8.0')
Benzo(a)Anthracene: 0.63 Benzo(a)Pyrene: 0.5 Benzo(b)Fluoranthene: 0.71 Metals: < SRS Total PCBs: Not Detected Chlordane: 0.39	Benzo(a)Pyrene: 0.356 Metals: < SRS Total PCBs: Not Detected Chlordane: 0.965
MA-9B (14.0'–14.5')	**MA-9B-SS (14.0'–14.5')**
Benzo(a)Pyrene: 0.27 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	SVOCs: < SRS Metals: < SRS Total PCBs: < SRS Pesticides: < SRS

MA-25

MA-25A (16.5'–17.0')	MA-25B (41.5'–42.0')	MA-25C (61.5'–62.0')	MA-25D (81.5'–82.0')	MA-25E (101.5'–102.0')
Benzo(a)Anthracene: 0.72 Benzo(a)Pyrene: 0.63 Benzo(b)Fluoranthene: 0.86 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	Benzo(a)Anthracene: 0.67 Benzo(a)Pyrene: 0.54 Benzo(b)Fluoranthene: 0.73 Lead: 520 Total PCBs: Not Detected Pesticides: Not Detected	Benzo(a)Anthracene: 1.2 Benzo(a)Pyrene: 0.8 Benzo(b)Fluoranthene: 1 Metals: < SRS Total PCBs: Not Detected Aldrin: 0.22	SVOCs: < SRS Metals: < SRS Total PCBs: 0.29 Pesticides: < SRS	Benzo(a)Pyrene: 0.50 Benzo(b)Fluoranthene: 0.64 Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected
MA-25A-SS (16.5'–17.0')	**MA-25B-SS (41.5'–42.0')**	**MA-25C-SS (61.5'–62.0')**	**MA-25D-SS (81.5'–82.0')**	**MA-25E-SS (101.5'–102.0')**
Benzo(a)Anthracene: 0.658 Benzo(a)Pyrene: 0.596 Metals: < SRS Total PCBs: < SRS Pesticides: < SRS	SVOCs: < SRS Metals: < SRS Total PCBs: < SRS Pesticides: < SRS	Benzo(a)Pyrene: 0.546 Metals: < SRS Total PCBs: < SRS Chlordane: 0.253	Benzo(a)Anthracene: 1.62 Benzo(a)Pyrene: 2.88 Benzo(b)Fluoranthene: 2.27 Dibenzo(a,h)Anthracene: 0.547 Metals: < SRS Total PCBs: < SRS Pesticides: < SRS	SVOCs: < SRS Metals: < SRS Total PCBs: < SRS Pesticides: < SRS

MA-14

MA-14A (3.0'–3.5')	MA-14A-SS (3.5'–4.0') (10/19/09)	MA-14A-SS (3.0'–3.5') (10/21/09)
SVOCs: < SRS Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: < SRS Metals: < SRS Total PCBs: < SRS Pesticides: < SRS
MA-14B (7.5'–8.0')	**MA-14B-SS (7.5'–8.0') (10/19/09)**	**MA-14B-SS (7.5'–8.0') (10/21/09)**
Benzo(a)Pyrene: 0.24 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	Benzo(a)Anthracene: 6.87 Benzo(a)Pyrene: 5.43 Benzo(b)Fluoranthene: 4.31 Dibenzo(a,h)Anthracene: 0.942 Indeno(1,2,3-cd)Pyrene: 2.21 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	SVOCs: < SRS Metals: < SRS Total PCBs: < SRS Pesticides: < SRS

MA-15

MA-15A (0.5'–1.0')	MA-15A-SS (0.5'–1.0')
Benzo(a)Anthracene: 0.86 Benzo(a)Pyrene: 0.69 Benzo(b)Fluoranthene: 0.92 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	Benzo(a)Anthracene: 13.2 Benzo(a)Pyrene:12.8 Benzo(b)Fluoranthene: 14.4 Benzo(k)Fluoranthene: 11 Dibenzo(a,h)Anthracene: 2.24 Indeno(1,2,3-cd)Pyrene: 6.58 Metals: < SRS Total PCBs: Not Detected Chlordane: 0.533
MA-15B (37.0'–37.5')	**MA-15B-SS (37.0'–37.5')**
SVOCs: < SRS Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	SVOCs: < SRS Metals: < SRS Total PCBs: < SRS Pesticides: < SRS

MA-19

MA-19A (5.5'–6.0')	MA-19A-SS (5.5'–6.0')
Benzo(a)Pyrene: 0.25 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	Benzo(a)Pyrene: 0.341 Metals: < SRS Total PCBs: < SRS Pesticides: < SRS
MA-19B (11.0'–11.5')	**MA-19B-SS (11.0'–11.5')**
Benzo(a)Anthracene: 1.2 Benzo(a)Pyrene: 0.95 Benzo(b)Fluoranthene: 1.3 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	Benzo(a)Pyrene: 0.33 Metals: < SRS Total PCBs: < SRS Pesticides: < SRS

MA-18

MA-18A (0.0'–0.5')	MA-18A-SS (0.0'–0.5')
Benzo(a)Pyrene: 0.31 Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	Benzo(a)Pyrene: 0.38 Metals: < SRS Total PCBs: < SRS Pesticides: < SRS
MA-18B (5.5'–6.0')	**MA-18B-SS (5.5'–6.0')**
Benzo(a)Pyrene: 0.48 Benzo(b)Fluoranthene: 0.64 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	SVOCs: < SRS Metals: < SRS Total PCBs: < SRS Pesticides: < SRS

MA-27 / MW-2

MA-27A (1.5'–2.0')	MA-27A-SS (1.5'–2.0')
Benzo(a)Anthracene: 0.99 Benzo(a)Pyrene: 0.72 Benzo(b)Fluoranthene: 1.1 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	SVOCs: < SRS Metals: < SRS Total PCBs: < SRS Pesticides: < SRS
MA-27B (10.5'–11.0')	**MA-27B-SS (10.5'–11.0')**
Benzo(a)Pyrene: 0.36 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	SVOCs: < SRS Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS

MA-20

MA-20A (2.0'–2.5')	MA-20A-SS (2.0'–2.5')
SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected
MA-20B (9.0'–9.5')	**MA-20B-SS (9.0'–9.5')**
Benzo(a)Anthracene: 0.8 Benzo(a)Pyrene: 0.68 Benzo(b)Fluoranthene: 0.9 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	Benzo(a)Anthracene: 1.08 Benzo(a)Pyrene: 1.12 Benzo(b)Fluoranthene: 0.823 Indeno(1,2,3-cd)Pyrene: 0.725 Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected
MA-20C (14.0'–14.5')	**MA-20C-SS (14.0'–14.5')**
Benzo(a)Anthracene: 1.3 Benzo(a)Pyrene: 1 Benzo(b)Fluoranthene: 1.3 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	Benzo(a)Anthracene: 1.51 Benzo(a)Pyrene: 1.38 Benzo(b)Fluoranthene: 0.842 Dibenzo(a,h)Anthracene: 0.265 Indeno(1,2,3-cd)Pyrene: 0.665 Metals: < SRS Total PCBs: < SRS Pesticides: < SRS

MA-2

MA-2A (1.5'–2.0')	MA-2A-SS (1.5'–2.0')
Benzo(a)Anthracene: 0.8 Benzo(a)Pyrene: 0.75 Benzo(b)Fluoranthene: 0.93 Metals: < SRS Total PCBs: 0.34 Pesticides: < SRS	Benzo(a)Anthracene: 1.62 Benzo(a)Pyrene: 2.88 Benzo(b)Fluoranthene: 2.27 Dibenzo(a,h)Anthracene: 0.547 Indeno(1,2,3-cd)Pyrene: 1.78 Metals: < SRS Total PCBs: < SRS Pesticides: < SRS
MA-2B (9.0'–9.5')	**MA-2B-SS (9.0'–9.5')**
SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: < SRS Pesticides: Not Detected

MA-10

MA-10A (2.0'–2.5')	MA-10A-SS (2.0'–2.5')
Benzo(a)Anthracene: 0.78 Benzo(a)Pyrene: 0.65 Benzo(b)Fluoranthene: 0.86 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	Benzo(a)Anthracene: 4.43 Benzo(a)Pyrene: 3.21 Benzo(b)Fluoranthene: 3.08 Dibenzo(a,h)Anthracene: 0.513 Indeno(1,2,3-cd)Pyrene: 1.06 Metals: < SRS Total PCBs: < SRS Pesticides: < SRS
MA-10B (11.0'–11.5')	**MA-10B-SS (11.0'–11.5')**
Benzo(a)Pyrene: 0.23 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	Benzo(a)Pyrene: 0.392 Metals: < SRS Total PCBs: < SRS Pesticides: < SRS

MA-13

MA-13A (6.0'–6.5')	MA-13A-SS (6.0'–6.5')
SVOCs: < SRS Metals: < SRS Total PCBs: 0.53 Aldrin: 0.078	SVOCs: Not Detected Metals: < SRS Total PCBs: < SRS Aldrin: 0.067
MA-13B (8.0'–8.5')	**MA-13B-SS (8.0'–8.5')**
Benzo(a)Anthracene: 0.74 Benzo(a)Pyrene: 0.64 Benzo(b)Fluoranthene: 0.82 Metals: < SRS Total PCBs: 0.33 Pesticides: < SRS	Benzo(a)Pyrene: 0.232 Metals: < SRS Total PCBs: < SRS Aldrin: 0.16

MA-3

MA-3A (5.0'–5.5')	MA-3A-SS (5.0'–5.5')
SVOCs: < SRS Metals: < SRS PCBs: Not Detected Pesticides: < SRS	SVOCs: < SRS Metals: < SRS PCBs: < SRS Pesticides: < SRS
MA-3B (11.0'–11.5')	**MA-3B-SS (11.0'–11.5')**
Benzo(a)Anthracene: 2.4 Benzo(a)Pyrene: 1.9 Benzo(b)Fluoranthene: 2.5 Dibenzo(a,h)Anthracene: 0.5 Indeno(1,2,3-cd)Pyrene: 1.2 Metals: < SRS PCBs: Not Detected Dieldrin: 6.2	Benzo(a)Pyrene: 0.431 Metals: < SRS PCBs: Not Detected Chlordane: 6.54

MA-6

MA-6A (24.5'–25.0')	MA-6A-SS (24.5'–25.0')
SVOCs: < SRS Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS
MA-6B (38.0'–38.5')	**MA-6B-SS (38.0'–38.5')**
SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: < SRS Pesticides: Not Detected

MA-12

MA-12A (3.0'–3.5')	MA-12A-SS (3.0'–3.5')
Benzo(a)Anthracene: 1.1 Benzo(a)Pyrene: 0.96 Benzo(b)Fluoranthene: 1.3 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	Benzo(a)Pyrene: 0.366 Metals: < SRS Total PCBs: < SRS Pesticides: < SRS
MA-12B (9.5'–10.0')	**MA-12B-SS (9.5'–10.0')**
Benzo(a)Anthracene: 0.9 Benzo(a)Pyrene: 0.71 Benzo(b)Fluoranthene: 0.98 Antimony: 1.30 Lead: 2000 Total PCBs: Not Detected Pesticides: < SRS	Benzo(a)Pyrene: 0.381 Metals: < SRS Total PCBs: < SRS Pesticides: < SRS

MA-16

MA-16A (0.0'–0.5')	MA-16A-SS (0.0'–0.5')
Benzo(a)Pyrene: 0.57 Benzo(b)Fluoranthene: 0.67 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	SVOCs: < SRS Metals: < SRS Total PCBs: < SRS Pesticides: < SRS
MA-16B (12.5'–13.0')	**MA-16B-SS (12.5'–13.0')**
Benzo(a)Pyrene: 0.43 Benzo(b)Fluoranthene: 0.63 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	Benzo(a)Pyrene: 0.45 Metals: < SRS Total PCBs: < SRS Pesticides: < SRS

MA-4

MA-4A (6.0'–6.5')	MA-4A-SS (6.0'–6.5')
Benzo(a)Anthracene: 0.65 Benzo(a)Pyrene: 0.54 Benzo(b)Fluoranthene: 0.74 Metals: < SRS PCBs: Not Detected Pesticides: < SRS	Benzo(a)Anthracene: 4.92 Benzo(a)Pyrene: 4.43 Benzo(b)Fluoranthene: 3.07 Dibenzo(a,h)Anthracene: 0.825 Indeno(1,2,3-cd)Pyrene: 2.34 Metals: < SRS PCBs: Not Detected Pesticides: < SRS
MA-4B (14.0'–14.5')	**MA-4B-SS (14.0'–14.5')**
SVOCs: Not Detected Metals: < SRS PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS PCBs: Not Detected Pesticides: Not Detected

MA-11

MA-11A (6.0'–6.5')	MA-11A-SS (6.0'–6.5')
Benzo(a)Anthracene: 0.84 Benzo(a)Pyrene: 0.68 Benzo(b)Fluoranthene: 0.93 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	Benzo(a)Anthracene: 0.641 Benzo(a)Pyrene: 0.628 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS
MA-11B (13.0'–13.5')	**MA-11B-SS (13.0'–13.5')**
SVOCs: < SRS Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	SVOCs: < SRS Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS

MA-17

MA-17A (1.0'–1.5')	MA-17A-SS (1.0'–1.5')
SVOCs: < SRS Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	SVOCs: < SRS Metals: < SRS Total PCBs: < SRS Pesticides: < SRS
MA-17B (7.5'–8.0')	**MA-17B-SS (7.5'–8.0')**
SVOCs: < SRS Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	SVOCs: < SRS Metals: < SRS Total PCBs: < SRS Pesticides: < SRS

MA-5

MA-5A (9.0'–9.5')	MA-5A-SS (9.0'–9.5')
SVOCs: < SRS Metals: < SRS PCBs: Not Detected Pesticides: Not Detected	SVOCs: < SRS Metals: < SRS PCBs: Not Detected Pesticides: Not Detected
MA-5B (12.0'–12.5')	**MA-5B-SS (12.0'–12.5')**
Benzo(a)Pyrene: 0.43 Metals: < SRS PCBs: Not Detected Pesticides: Not Detected	SVOCs: < SRS Metals: < SRS PCBs: < SRS Pesticides: < SRS

MA-24

MA-24A (11.5'–12.0')	MA-24B (31.5'–32.0')	MA-24C (41.5'–42.0')
SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected
MA-24A-SS (11.5'–12.0')	**MA-24B-SS (31.5'–32.0')**	**MA-24C-SS (41.5'–42.0')**
SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS

DEEP CONTINUOUS BORING LOCATIONS WHICH WILL BE CONVERTED TO A MONITORING WELL

DEEP BORING LOCATIONS

SHALLOW BORING LOCATIONS

TESTPIT LOCATIONS

MA-1A JMS RESULTS

MA-1A ICON RESULTS

< SRS LESS THAN SOIL REMEDIATION STANDARDS

1.2 RESULTS ABOVE EITHER RESIDENTIAL OR NON RESIDENTIAL SOIL REMEDIATION STANDARDS

* ALL RESULTS IN PARTS PER MILLION (ppm)

PROPERTY BOUNDARY

TREES

APPROXIMATE AREAS OF NON-NATIVE FILL

0 80 160
scale feet
SCALE SUBJECT TO VERIFICATION

FILL AREA A – SAMPLE LOCATIONS AND ANALYTICAL EXCEEDANCE RESULTS

MILLINGTON QUARRY
BERNARDS TOWNSHIP, NEW JERSEY

PREPARED FOR
MILLINGTON QUARRY, INC. AND TILCON NEW YORK INC.

DATE: 01/07/10	DWG. No. 08.226 – A Rslts
JM SORCE, INC.	FIGURE 3

N

MC-2A (7.0'-7.5')	MC-2A-SS (7.0'-7.5')
SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected
MC-2B (21.0'-21.5')	MC-2B-SS (21.0'-21.5')
SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected

MC-4A (30.5'-31.0')
SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected
MC-4A-SS (30.5'-31.0')
SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected

MC-3A (1.5'-2.0')	MC-3B (11.5'-12.0')	MC-3C (21.5'-22.0')	MC-3D (31.5'-32.0')	MC-3E (41.5'-42.0')	MC-3F (81.5'-82.0')	MC-3G (91.5'-92.0')	MC-3H (101.5'-102.0')
SVOCs: < SRS Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: < SRS Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected
MC-3A-SS (1.5'-2.0')	MC-3B-SS (11.5'-12.0')	MC-3C-SS (21.5'-22.0')	MC-3D-SS (31.5'-32.0')	MC-3E-SS (41.5'-42.0')	MC-3F-SS (81.5'-82.0')	MC-3G-SS (91.5'-92.0')	MC-3H-SS (101.5'-102.0')
SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected

MC-1A (8.5'-9.0')	MC-1A-SS (8.5'-9.0')
SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	Benzo(a)Pyrene: 0.356 Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected
MC-1B (13.0'-13.5')	MC-1B-SS (13.0'-13.5')
SVOCs: < SRS Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected

MB-3A (4.0'-4.5')	MB-3A-SS (4.0'-4.5')
SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected
MB-3B (11.5'-12.0')	MB-3B-SS (11.5'-12.0')
SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: < SRS Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected

MB-2A (9.5'-10.0')	MB-2A-SS (9.5'-10.0')
Benzo(a)Anthracene: 0.64 Benzo(a)Pyrene: 0.54 Benzo(b)Fluoranthene: 0.74 Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS	SVOCs: < SRS Metals: < SRS Total PCBs: < SRS Pesticides: < SRS
MB-2B (15.0'-15.5')	MB-2B-SS (15.0'-15.5')
Benzo(a)Anthracene: 1.2 Benzo(a)Pyrene: 0.85 Benzo(b)Fluoranthene: 1.1 Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: < SRS Metals: < SRS Total PCBs: < SRS Pesticides: Not Detected

MB-1A (0.0'-0.5')	MB-1A-SS (0.0'-0.5')
SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected
MB-1B (4.0'-4.5')	MB-1B-SS (4.0'-4.5')
SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: < SRS Metals: < SRS Total PCBs: Not Detected Pesticides: < SRS

MB-4A (5.5'-6.0')	MB-4A-SS (5.5'-6.0')
SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected
MB-4B (9.5'-10.0')	MB-4B-SS (9.5'-10.0')
SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected	SVOCs: Not Detected Metals: < SRS Total PCBs: Not Detected Pesticides: Not Detected

QUARRY SETTLING POND

MC-2

MC-4 / MW-3

MC-3

MC-1

MB-3

MB-2

MB-4

MB-1

FILL AREA B

FILL AREA C

CONC

POOL

GOVENOR DRIVE

STONE HOUSE ROAD

MAP SOURCE:

RK MAPPING LLC
ATLANTA GEORGIA

This map compiled by DIGITAL photogrammetric methods from aerial photography dated 05-25-08.
control matrix taken from Aerometric 3/07 mapping. Grid based on New Jersey State Plane Coordinate System, NAD 1927.
Vertical datum based on NAVD 1929.

DEEP CONTINUOUS BORING LOCATIONS WHICH WILL BE CONVERTED TO A MONITORING WELL

DEEP BORING LOCATIONS

SHALLOW BORING LOCATIONS

TESTPIT LOCATIONS

MA-1A JMS RESULTS

MA-1A ICON RESULTS

< SRS LESS THAN SOIL REMEDIATION STANDARDS

1.2 RESULTS ABOVE EITHER RESIDENTIAL OR NON RESIDENTIAL SOIL REMEDIATION STANDARDS

* ALL RESULTS IN PARTS PER MILLION (ppm)

PROPERTY BOUNDARY

TREES

APPROXIMATE AREAS OF NON-NATIVE FILL

0 100 200
scale feet
SCALE SUBJECT TO VERIFICATION

AREA B AND C - SAMPLE LOCATIONS AND ANALYTICAL EXCEEDANCE RESULTS

MILLINGTON QUARRY
BERNARDS TOWNSHIP, NEW JERSEY

PREPARED FOR
MILLINGTON QUARRY, INC.

DATE: 01/07/09	DWG. No. 08.226-B-C Rslts
JM SORGE,INC.	FIGURE 3A

N

MA-1
MA-8
MA-21 / MW-1
MA-7
MA-9
MA-14
MA-19
MA-18
MA-25
FILL AREA A
MA-2
MA-10
MA-13
MA-15
MA-27 / MW-2
MA-20
APPROXIMATE GROUNDWATER FLOW
QUARRY SETTLING POND
MA-3
MA-6
MA-11
MA-12
MA-16
MA-17
FILL AREA B
MB-3
MB-2
MB-4
MB-1
MA-4
MA-24
REVISED FILL AREA A (45 ACRES)
MA-5
MC-2
MC-4 / MW-3 (Abandoned)
MW-3R
FILL AREA C
MC-3
MC-1
PASSAIC RIVER

- PROPOSED SHALLOW TESTPITS
- PROPOSED DEEP BORING
- PROPOSED DEEP DEFERRED SAMPLES
- PROPOSED MONITORING WELL / DEEP BORING
- PREVIOUS DEEP CONTINUOUS BORING LOCATIONS WHICH WILL BE CONVERTED TO A MONITORING WELL
- PREVIOUS DEEP BORING LOCATIONS
- PREVIOUS SHALLOW BORING LOCATIONS
- PREVIOUS TESTPIT LOCATIONS
- PROPERTY BOUNDARY
- TREES
- APPROXIMATE AREAS OF NON-NATIVE FILL

MAP SOURCE:

RK MAPPING LLC
ATLANTA GEORGIA

This map compiled by DIGITAL photogrammetric methods from aerial photography dated 05-25-08.
control matrix taken from Aerometric 3/07 mapping. Grid based on New Jersey State Plane Coordinate System, NAD 1927.
Vertical datum based on NAVD 1929.

0 200 400
scale feet
SCALE SUBJECT TO VERIFICATION

SITE PLAN SHOWING PHASE I AND PROPOSED PHASE II SOIL SAMPLING LOCATIONS AND MONITORING WELL

MILLINGTON QUARRY
BERNARDS TOWNSHIP, NEW JERSEY

PREPARED FOR
MILLINGTON QUARRY, INC. AND TILCON NEW YORK INC.

DATE: 02/23/11	DWG. No. 08.226-20110210PSL
JM SORGE INC.	FIGURE 4

TABLES

Table 1
Millington Quarry, Basking Ridge, NJ
Area A - JMS' Soil Sample Analytical Results Summary

Sample Name	2008 NJ Soil Remediation Standards	2008 NJ Soil Remediation Standards	2008 Impact to Groundwater Initial Screening Level	MA-1A	MA-1B	MA-2A	MA-2B	MA-3A	MA-3B	MA-4A	MA-4B	MA-5A	MA-5B	MA-6A	MA-6B	MA-7A	MA-7B	MA-8A	MA-8B	MA-9A	MA-9B	MA-10A	MA-10B
Laboratory Id	Residential	Non - Residential		AC47934-015	AC47934-016	AC47934-013	AC47934-014	AC47934-011	AC47934-012	AC47934-017	AC47934-018	AC47934-019	AC47934-020	AC47963-005	AC47963-006	AC47934-009	AC47934-010	AC47934-007	AC47934-008	AC47934-013	AC47904-014	AC47904-015	AC47904-016
Sample Date				10/22/2009	10/22/2009	10/22/2009	10/22/2009	10/22/2009	10/22/2009	10/22/2009	10/22/2009	10/22/2009	10/22/2009	10/26/2009	10/26/2009	10/22/2009	10/22/2009	10/22/2009	10/22/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009
Sample Depth (in feet)				3.5-4.0	10.5-11.0	1.5-2.0	9.0-9.5	5.0-5.5	11.0-11.5	6.0-6.5	14-14.5	9.0-9.5	12.0-12.5	24.5-25.0	38.0-38.5	8.0-8.5	14.0-14.5	7.5-8.0	13.5-14.0	7.5-8.0	14.0-14.5	2.0-2.5	11-11.5
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Semi-Volatile Compounds																							
Acenaphthene	**3,400**	**37,000**	**74**	ND	0.64	0.089	ND	ND	0.32	ND	ND	ND	0.089	ND	ND	0.085	0.09	ND	ND	ND	ND	ND	ND
Acenaphthylene	**NA**	**300,000**	**NA**	ND	ND	ND	ND	ND	0.086	ND	ND	ND	ND	ND	ND	ND	ND	0.079	ND	ND	ND	ND	ND
Benzo[a]anthracene	**0.6**	**2**	**0.5**	ND	**4.5**	**0.8**	ND	0.18	**2.4**	**0.65**	ND	0.16	**0.51**	0.16	ND	**0.74**	**0.56**	**0.91**	0.28	**0.63**	0.33	**0.78**	0.31
Benzo[a]pyrene	**0.2**	**0.2**	**0.2**	ND	**3.5**	**0.75**	ND	0.16	**1.9**	**0.54**	ND	0.14	**0.43**	0.14	ND	**0.61**	**0.46**	**0.76**	**0.26**	**0.5**	**0.27**	**0.65**	**0.23**
Benzo[b]fluoranthene	**0.6**	**2**	**2**	0.075	**4.5**	**0.93**	ND	0.21	**2.5**	**0.74**	ND	0.19	0.53	0.19	ND	**0.86**	0.6	**1.1**	0.36	**0.71**	0.37	**0.86**	0.3
Benzo[g,h,i]perylene	**380,000**	**30,000**	**NA**	ND	2.2	0.53	ND	0.1	1.4	0.38	ND	0.098	0.28	0.095	ND	0.45	0.35	0.56	0.2	0.35	0.19	0.47	0.17
Benzo[k]fluoranthene	**6**	**23**	**16**	ND	1.2	0.35	ND	0.096	0.88	0.2	ND	ND	0.19	ND	ND	0.24	0.2	0.33	0.12	0.17	0.1	0.29	0.095
Bis(2-Ethylhexyl)phthalate	**35**	**140**	**790**	ND	ND	ND	ND	ND	0.086	ND	ND	ND	ND	ND	ND	0.09	ND	ND	ND	0.088	ND	ND	ND
Butylbenzylphthalate	**1,200**	**14,000**	**150**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13	ND	ND	ND	ND	ND	ND
Carbazole	**24**	**96**	**NA**	ND	0.5	0.097	ND	ND	0.37	ND	ND	ND	ND	ND	ND	0.091	ND	0.076	ND	ND	ND	ND	ND
Chrysene	**62**	**230**	**52**	ND	5.3	0.77	ND	0.18	2.4	0.66	ND	0.16	0.49	0.16	ND	0.71	0.55	0.89	0.28	0.66	0.32	0.78	0.29
Dibenzo[a,h]anthracene	**0.2**	**0.2**	**0.5**	ND	**0.53**	0.14	ND	ND	**0.5**	0.096	ND	ND	0.093	ND	ND	0.11	0.078	0.14	ND	0.1	ND	0.11	ND
Dibenzofuran	**NS**	**NS**	**NS**	ND	0.36	ND	ND	ND	0.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	**2,300**	**24,000**	**840**	0.093	8.9	1.4	ND	0.36	4.8	0.92	ND	0.31	0.85	0.36	ND	1.4	0.89	1.5	0.56	0.93	0.4	1.1	0.44
Fluorene	**2,300**	**24,000**	**110**	ND	0.58	0.077	ND	ND	0.3	ND	ND	ND	0.12	ND	ND	0.091	ND	ND	ND	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	**0.6**	**2**	**5**	ND	**1.9**	0.47	ND	0.1	**1.2**	0.32	ND	0.08	0.24	ND	ND	0.37	0.28	0.49	0.16	0.3	0.16	0.4	0.13
2-Methylnaphthalene	**230**	**2,400**	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	**6**	**17**	**16**	ND	0.25	ND	ND	ND	0.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	**NA**	**300,000**	**NA**	ND	8.9	1.1	ND	0.3	3.9	0.54	ND	0.26	0.67	0.26	ND	1.1	0.55	0.85	0.24	0.79	0.28	0.91	0.37
Pyrene	**1,700**	**18,000**	**550**	0.084	13	1.5	ND	0.35	6	1.5	ND	0.33	1.2	0.34	ND	1.7	1.2	1.9	0.58	1.3	0.66	1.6	0.66
Semi-Volatile TICs	**NS**	**NS**	**NS**	220 J	270 J	110 J	170 J	140 J	250 J	270 J	220 J	170 J	210 J	200 J	200 J	190 J	220 J	180 J	230 J	190 J	230 J	200 J	240 J
Metals																							
Antimony	**31**	**450**	**6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.7	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	**19**	**19**	**19**	3.9	3.8	3	5	3.9	5.2	3.4	5	4.7	5	4.1	5.1	3	6.8	3.9	5.4	3.3	3.7	4.1	4.7
Barium	**16000**	**59,000**	**1300**	97	120	86	120	130	110	33	110	97	110	90	120	120	83	150	82	98	130	140	71
Beryllium	**16**	**140**	**0.5**	ND	ND	ND	**1.2**	ND	ND	ND	**1.3**	**1.2**	**1**	ND	ND	ND	**0.71**	ND	ND	ND	ND	ND	ND
Cadmium	**78**	**78**	**1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium, Hexavalent	240	20	NA	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, Total[a]	--	--	--	7.8	**110**	19	**80**	**47**	18	9.7	**26**	**28**	**28**	**63**	**160**	18	**55**	**23**	18	15	**32**	19	20
Copper	**3,100**	**45,000**	**7300**	15	29	33	51	160	26	14	29	35	51	69	85	37	34	78	29	24	43	39	22
Lead	**400**	**800**	**59**	39	**230**	51	21	30	**160**	17	15	21	24	17	14	**160**	57	**130**	**95**	**100**	**100**	**110**	**67**
Mercury	**23**	**65**	**0.1**	0.093	**0.7**	**0.18**	ND	ND	**0.56**	ND	ND	ND	ND	ND	ND	**0.14**	**0.15**	**0.33**	**0.17**	**0.28**	**0.22**	**0.32**	**0.35**
Nickel	**1,600**	**23,000**	**31**	6.3	**140**	22	29	**46**	18	8.9	13	23	20	30	**44**	14	24	26	25	28	29	21	13
Selenium	**390**	**5,700**	**7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	**390**	**5,700**	**1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	**5**	**79**	**3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	**23000**	**110,000**	**600**	64	150	65	59	110	130	33	54	64	65	73	69	220	90	140	240	83	120	110	87
PCBs																							
Aroclor-1242	**--**	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254	**--**	**--**	**--**	ND	ND	0.34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs	**0.2**	**1**	**0.2**	ND	ND	**0.34**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides																							
Aldrin	**0.04**	**0.2**	**0.1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0095	ND	ND	ND	ND
beta-BHC	**0.4**	**2**	**0.002**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	**0.2**	**1**	**0.03**	**0.05**	**0.037**	**0.033 d**	ND	0.025	**6.2**	**0.077**	ND	ND	ND	ND	ND	**0.12**	**0.055**	**0.24**	**0.035**	**0.39**	**0.11**	0.011	0.03
Dieldrin	**0.04**	**0.2**	**0.003**	**0.0052**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0014 d	ND	**0.019**	ND	0.0016 d	**0.015 d**	ND
Heptachlor	**0.1**	**0.7**	**0.3**	ND	ND	ND	ND	ND	0.084	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.021	ND	ND	ND
p,p'-DDD	**3**	**13**	**3**	0.072 d	ND	0.0045	ND	ND	ND	0.0038	0.004	ND	ND	ND	ND	0.0033 d	0.0061 d	0.0057	ND	ND	ND	0.018	0.67
p,p'-DDE	**2**	**9**	**12**	0.024	ND	0.0051 d	ND	ND	0.062 d	0.0036 d	ND	ND	ND	ND	ND	0.0073	0.0093	0.0039	ND	0.0077	0.004	0.0092	0.0043
p,p'-DDT	**2**	**8**	**7**	0.22	ND	0.011 d	ND	ND	ND	0.012	ND	ND	ND	ND	ND	0.0050 d	ND	0.014 d	ND	ND	ND	0.018 d	0.0030 d

Notes:
J - Estimated concentration
d - Pesticide % Diff > 50% between columns due to coelution. Lower concentration used.
In accordance with NJDEP's letter dated July 14, 2009; 25% of the Chromium that exceed 20 ppm were analyzed for Hexavalent Chromium.
ND - Not Detected
NS - No Standards
ppm - Parts per million

Table 1 (continued)
Millington Quarry, Basking Ridge, NJ
Area A - JMS' Soil Sample Analytical Results Summary

Sample Name	2008 NJ Soil Remediation Standards	2008 NJ Soil Remediation Standards	2008 Impact to Groundwater Initial Screening Level	MA-11A	MA-11B	MA-12A	MA-12B	MA-13A	MA-13B	MA-14A	MA-14B	MA-15A	MA-15B	MA-16A	MA-16B	MA-17A	MA-17B	MA-18A	MA-18B	MA-19A	MA-19B	MA-20A	MA-20B	MA-20C
Laboratory Id	Residential	Non - Residential		AC47904-017	AC47904-018	AC47904-019	AC47904-020	AC47904-001	AC47904-002	AC47904-003	AC47904-004	AC47829-001	AC47865-001	AC47904-005	AC47904-006	AC47904-007	AC47904-008	AC47904-009	AC47904-010	AC47904-021	AC47904-022	AC47904-023	AC47904-024	AC47904-025
Sample Date				10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/19/2009	10/20/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009
Sample Depth (in feet)				6.0-6.5	13.0-13.5	3.0-3.5	9.5-10.0	6.0-6.5	8.0-8.5	3.0-3.5	7.5-8.0	0.5-1.0	37.0-37.5	0.0-0.5	12.5-13.0	1.0-1.5	7.5-8.0	0.0-0.5	5.5-6.0	5.5-6.0	11-11.5	2.0-2.5	9.0-9.5	14.0-14.5
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Semi-Volatile Compounds																								
Acenaphthene	**3,400**	**37,000**	**74**	0.11	ND	0.1	0.11	ND	0.11	ND	ND	ND	ND	0.11	ND	ND	ND	ND	ND	ND	0.16	ND	ND	0.14
Acenaphthylene	**NA**	**300,000**	**NA**	ND	ND	ND	0.088	ND	ND	ND	ND	ND	ND	ND	0.087	ND	ND	ND	ND	ND	0.11	ND	0.077	0.078
Anthracene	**17,000**	**30,000**	**1500**	0.27	ND	0.27	0.31	ND	0.25	ND	ND	0.22	ND	ND	0.16	ND	ND	0.11	0.11	ND	0.3	ND	0.16	0.34
Benzo[a]anthracene	**0.6**	**2**	**0.5**	**0.84**	0.11	**1.1**	**0.9**	0.098	**0.74**	ND	0.27	**0.86**	0.19	**0.6**	**0.51**	0.15	0.13	0.44	**0.58**	0.25	**1.2**	ND	**0.8**	**1.3**
Benzo[a]pyrene	**0.2**	**0.2**	**0.2**	**0.68**	0.084	**0.96**	**0.71**	0.082	**0.64**	ND	**0.24**	**0.69**	0.18	**0.57**	**0.43**	0.14	0.12	**0.31**	**0.48**	**0.25**	**0.95**	ND	**0.68**	**1**
Benzo[b]fluoranthene	**0.6**	**2**	**2**	**0.93**	0.12	**1.3**	**0.98**	0.11	**0.82**	0.097	0.34	**0.92**	0.22	**0.67**	**0.63**	0.19	0.17	0.43	**0.64**	0.35	**1.3**	ND	**0.9**	**1.3**
Benzo[g,h,i]perylene	**380,000**	**30,000**	**NA**	0.45	ND	0.61	0.47	ND	0.45	ND	0.19	0.41	0.14	0.38	0.32	0.11	0.091	0.25	0.38	0.18	0.58	ND	0.46	0.65
Benzo[k]fluoranthene	**6**	**23**	**16**	0.25	ND	0.38	0.27	ND	0.33	ND	0.088	0.23	0.092	0.24	0.24	ND	ND	0.13	0.2	0.12	0.38	ND	0.29	0.41
Bis(2-Ethylhexyl)phthalate	**35**	**140**	**790**	0.34	ND	ND	0.43	ND	0.11	ND	0.1	0.089	ND	ND	0.32	ND	ND	0.62	ND	ND	0.15	ND	ND	0.15
Butylbenzylphthalate	**1,200**	**14,000**	**150**	ND	ND	ND	ND	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4	ND	ND	ND	ND	ND	ND
Carbazole	**24**	**96**	**NA**	0.12	ND	0.093	0.15	ND	0.11	ND	ND	0.085	ND	ND	ND	ND	ND	0.081	ND	ND	0.12	ND	ND	0.13
Chrysene	**62**	**230**	**52**	0.87	0.098	1.1	0.95	0.086	0.67	ND	0.28	0.9	0.2	0.53	0.47	0.13	0.12	0.45	0.59	0.24	1.3	ND	0.82	1.3
Dibenzo[a,h]anthracene	**0.2**	**0.2**	**0.5**	0.13	ND	0.16	0.13	ND	0.12	ND	ND	0.12	ND	0.1	0.085	ND	ND	ND	0.09	ND	0.16	ND	0.12	0.19
Dibenzofuran	**NS**	**NS**	**NS**	0.081	ND	ND	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.086	ND	ND	0.076
Fluoranthene	**2,300**	**24,000**	**840**	1.3	0.19	1.8	1.5	0.17	1.5	0.13	0.52	1.1	0.35	1.1	0.93	0.27	0.26	0.76	0.72	0.5	1.8	ND	1	1.9
Fluorene	**2,300**	**24,000**	**110**	0.13	ND	0.097	0.15	ND	0.1	ND	ND	0.081	ND	ND	ND	ND	ND	0.077	ND	ND	0.15	ND	ND	0.13
Indeno[1,2,3-cd]pyrene	**0.6**	**2**	**5**	0.4	ND	0.55	0.41	ND	0.37	ND	0.15	0.35	0.12	0.32	0.29	0.09	0.084	0.21	0.31	0.16	0.52	ND	0.39	0.56
2-Methylnaphthalene	**230**	**2,400**	**5**	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	**6**	**17**	**16**	ND	ND	0.094	0.15	ND	0.088	ND	ND	0.091	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.083
Phenanthrene	**NA**	**300,000**	**NA**	1.3	0.11	1.3	1.5	0.14	1.2	0.13	0.29	1.1	0.24	0.54	0.59	0.15	0.16	0.83	0.47	0.25	1.2	ND	0.77	1.8
Pyrene	**1,700**	**18,000**	**550**	1.9	0.18	2.4	1.9	0.19	1.4	0.12	0.75	1.9	0.39	1.1	0.9	0.25	0.24	1.2	1.1	0.45	2.8	ND	1.7	2.7
Semi-Volatile TICs	**NS**	**NS**	**NS**	210 J	220 J	260 J	250 J	230 J	240 J	260 J	270 J	160 J	130 J	230 J	250 J	240 J	220 J	220 J	230 J	240 J	240 J	260 J	250 J	230 J
Metals																								
Antimony	**31**	**450**	**6**	ND	ND	ND	**130**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	**19**	**19**	**19**	3.5	4.2	4.6	4.4	ND	3.1	2.9	6	2.4	3.3	3.8	5.2	7.8	7.1	2.7	3.7	2.7	5	5.5	10	5.2
Barium	**16000**	**59,000**	**1300**	120	100	96	880	85	160	220	110	170	65	120	180	130	130	120	100	44	110	160	310	150
Beryllium	**16**	**140**	**0.5**	ND	**0.76**	ND	ND	ND	ND	ND	ND	**1**	ND	ND	ND	**0.71**	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	**78**	**78**	**1**	ND	ND	ND	**22**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.4**	ND	ND	ND
Chromium, Hexavalent	240	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, Total[a]	--	--	--	19	**23**	16	15	**25**	20	17	**37**	**21**	14	14	**26**	**28**	20	9.7	13	10	**21**	**36**	20	18
Copper	**3,100**	**45,000**	**7300**	160	42	27	30	24	27	24	93	23	23	37	59	100	95	25	26	14	34	79	67	53
Lead	**400**	**800**	**59**	**110**	28	**230**	**2000**	20	**130**	**93**	53	55	49	**180**	**110**	52	**66**	**94**	**84**	25	**100**	7.8	**210**	**120**
Mercury	**23**	**65**	**0.1**	0.097	ND	**0.39**	**0.15**	ND	**0.12**	**0.15**	0.1	ND	ND	**0.34**	**0.46**	ND	ND	**0.11**	**0.32**	ND	**0.19**	ND	**0.61**	**0.23**
Nickel	**1,600**	**23,000**	**31**	22	21	12	15	18	19	16	**51**	23	14	19	**170**	30	22	9.7	16	10	18	**55**	26	22
Selenium	**390**	**5,700**	**7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	**390**	**5,700**	**1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	**5**	**79**	**3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	**23000**	**110,000**	**600**	120	80	110	**3300**	58	120	110	98	110	55	180	130	140	130	110	85	36	140	310	210	130
PCBs																								
Aroclor-1242	**--**	**--**	**--**	ND	ND	ND	ND	0.53	0.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254	**--**	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs	**0.2**	**1**	**0.2**	ND	ND	ND	ND	**0.53**	**0.33**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides																								
Aldrin	**0.04**	**0.2**	**0.1**	ND	ND	ND	ND	**0.078**	0.015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	**0.4**	**2**	**0.002**	ND	ND	ND	ND	ND	ND	ND	ND	**0.0061 d**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	**0.2**	**1**	**0.03**	**0.13**	**0.055**	**0.11**	**0.052**	ND	0.023	ND	0.026	**0.18**	0.024	0.017	0.019	**0.034**	0.014	ND	**0.031**	0.019	**0.077**	ND	0.023	**0.069**
Dieldrin	**0.04**	**0.2**	**0.003**	ND	ND	0.0017 d	ND	**0.017**	**0.015 d**	ND	ND	ND	ND	ND	ND	**0.020**	0.0024 d	ND	**0.0083 d**	ND	ND	ND	ND	ND
Heptachlor	**0.1**	**0.7**	**0.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p'-DDD	**3**	**13**	**3**	0.04	ND	ND	0.016	ND	0.012	ND	ND	ND	ND	ND	ND	ND	ND	0.0044 d	0.0057	ND	0.0089 d	ND	ND	0.0049
p,p'-DDE	**2**	**9**	**12**	0.018	ND	0.0088	0.0088	ND	0.010	ND	ND	0.0036	ND	ND	ND	ND	ND	0.0070	ND	ND	0.017	ND	0.0042	0.0048
p,p'-DDT	**2**	**8**	**7**	0.033	ND	0.014 d	0.028	ND	0.015	0.0030 d	0.0035 d	ND	ND	0.0067 d	0.0052	0.0032 d	0.011	0.0036 d	0.0048 d	0.011	0.029 d	ND	0.027	0.0033 d

Notes:
J - Estimated concentration
d - Pesticide % Diff > 50% between columns due to coelution. Lower concentration used.
In accordance with NJDEP's letter dated July 14, 2009; 25% of the Chromium that exceed 20 ppm were analyzed for Hexavalent Chromium.
ND - Not Detected
NS - No Standards
ppm - Parts per million

Table 1 (continued)
Millington Quarry, Basking Ridge, NJ
Area A - JMS' Soil Sample Analytical Results Summary

Sample Name	2008 NJ Soil Remediation Standards	2008 NJ Soil Remediation Standards	2008 Impact to Groundwater Initial Screening Level	MA-21A	MA-21B	MA-21C	MA-21D	MA-21E	MA-21F	MA-21G	MA-21H	MA-21I	MA-21J	MA-21K	MA-21L	MA-21M	MA-24A	MA-24B	MA-24C	MA-25A	MA-25B	MA-25C	MA-25D	MA-25E	MA-27A	MA-27B
Laboratory Id				AC48504-001	AC48504-002	AC48504-003	AC48504-004	AC48504-005	AC48504-006	AC48504-007	AC48504-008	AC48578-001	AC48578-002	AC48578-003	AC48578-004	AC48628-001	AC47934-001	AC47930-001	AC47930-002	AC47865-006	AC47865-007	AC47904-011	AC47904-012	AC47934-002	AC48727-001	AC48727-002
Sample Date				11/19/2009	11/19/2009	11/19/2009	11/20/2009	11/20/2009	11/20/2009	11/20/2009	11/20/2009	11/24/2009	11/24/2009	11/24/2009	11/24/2009	11/30/2009	10/22/2009	10/23/2009	10/23/2009	10/22/2009	10/22/2009	10/22/2009	10/22/2009	10/22/2009	12/4/2009	12/4/2009
Sample Depth (in feet)	Residential	Non - Residential	Level	20-20.5	40-40.5	50.5-51	80-80.5	100.5-101	110.5-111	120.5-121	140.5-141	160.5-161	180.5-181	190-191.5	200.5-201	210.5-211	11.5-12.0	31.5-32.0	41.5-42.0	16.5-17	41.5-42	61.5-62	81.5-82	101.5-102	1.5-2	10.5-11
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Semi-Volatile Compounds																										
Acenaphthene	**3,400**	**37,000**	**74**	ND	ND	ND	ND	0.14	ND	ND	0.13	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.14	0.29	ND	ND	0.31	ND
Acenaphthylene	**NA**	**300,000**	**NA**	ND	ND	ND	ND	0.13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12	ND	ND	ND	ND	ND	ND
Anthracene	**17,000**	**30,000**	**1500**	ND	ND	0.16	0.14	0.39	ND	ND	0.27	ND	ND	ND	ND	ND	ND	ND	ND	0.19	0.26	0.62	ND	0.19	0.38	0.14
Benzo[a]anthracene	**0.6**	**2**	**0.5**	0.22	ND	0.42	0.33	**1.1**	0.13	0.24	**0.65**	ND	ND	ND	ND	ND	ND	ND	ND	**0.72**	**0.67**	**1.2**	ND	**0.52**	**0.99**	0.41
Benzo[a]pyrene	**0.2**	**0.2**	**0.2**	**0.22**	0.08	**0.39**	**0.29**	**0.87**	0.14	**0.22**	**0.55**	ND	ND	ND	ND	ND	ND	ND	ND	**0.63**	**0.54**	**0.8**	ND	**0.50**	**0.72**	**0.36**
Benzo[b]fluoranthene	**0.6**	**2**	**2**	0.29	0.092	0.52	0.34	**1.1**	0.16	0.3	**0.72**	ND	ND	ND	ND	ND	ND	ND	ND	**0.86**	**0.73**	**1**	0.087	**0.64**	**1.1**	0.47
Benzo[g,h,i]perylene	**380,000**	**30,000**	**NA**	0.2	ND	0.28	0.22	0.58	0.13	0.14	0.33	ND	ND	ND	ND	ND	ND	ND	ND	0.39	0.32	0.47	ND	0.34	0.47	0.25
Benzo[k]fluoranthene	**6**	**23**	**16**	0.12	ND	0.16	0.14	0.4	ND	0.097	0.22	ND	ND	ND	ND	ND	ND	ND	ND	0.27	0.21	0.26	ND	0.24	0.31	0.19
Bis(2-Ethylhexyl)phthalate	**35**	**140**	**790**	ND	ND	0.15	0.14	0.095	ND	ND	ND	0.1	ND	ND	ND	ND	0.13	0.18	ND	0.17	0.52	ND	ND	ND	0.12	ND
Butylbenzylphthalate	**1,200**	**14,000**	**150**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	DN	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	**24**	**96**	**NA**	ND	ND	0.078	ND	0.087	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.094	0.12	0.16	ND	ND	0.24	0.081
Chrysene	**62**	**230**	**52**	0.26	ND	0.46	0.32	1	0.14	0.25	0.59	ND	ND	ND	ND	ND	ND	ND	ND	0.79	0.71	1.3	ND	0.51	0.88	0.41
Dibenzo[a,h]anthracene	**0.2**	**0.2**	**0.5**	ND	ND	0.087	ND	0.18	ND	ND	0.096	ND	ND	ND	ND	ND	ND	ND	ND	0.12	0.097	0.14	ND	0.10	0.15	0.08
Dibenzofuran	**NS**	**NS**	**NS**	ND	ND	ND	ND	0.083	ND	ND	0.091	ND	ND	ND	ND	ND	ND	ND	ND	0.083	0.11	0.23	ND	ND	0.12	ND
Fluoranthene	**2,300**	**24,000**	**840**	0.45	ND	0.99	0.65	2.1	0.22	0.48	1.3	ND	ND	ND	0.11	ND	ND	ND	ND	1.2	0.99	2.3	0.099	1.2	2.1	0.97
Fluorene	**2,300**	**24,000**	**110**	ND	0.13	0.089	0.089	0.2	ND	ND	0.16	ND	ND	ND	ND	ND	ND	ND	ND	0.12	0.14	0.41	ND	0.083	0.21	0.91
Indeno[1,2,3-cd]pyrene	**0.6**	**2**	**5**	0.16	ND	0.25	0.19	0.5	0.095	0.12	0.27	ND	ND	ND	ND	ND	ND	ND	ND	0.35	0.28	0.4	ND	0.27	0.43	0.22
2-Methylnaphthalene	**230**	**2,400**	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.089	0.15	ND	ND	ND	ND
Naphthalene	**6**	**17**	**16**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.15	0.14	0.26	ND	ND	0.085	ND
Phenanthrene	**NA**	**300,000**	**NA**	0.25	ND	0.7	0.46	1.6	0.08	0.22	0.97	ND	ND	ND	0.98	ND	ND	ND	ND	1.3	1.3	4.2	ND	0.65	1.6	0.9
Pyrene	**1,700**	**18,000**	**550**	0.5	0.15	0.9	0.71	2.3	0.25	0.5	1.4	ND	ND	ND	0.085	ND	ND	ND	ND	1.8	1.5	3.4	0.17	1.1	1.7	0.86
Phenols				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.15	ND
Semi-Volatile TICs	**NS**	**NS**	**NS**	360 J	240 J	220 J	400 J	330 J	250 J	160 J	270 J	180 J	220 J	240 J	170 J	300 J	240J	240J	110J	260 J	330 J	240 J	190 J	230J	320 J	310 J
Metals																										
Antimony	**31**	**450**	**6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	**19**	**19**	**19**	3.8	4.4	4.1	4.2	3.5	3.1	3.4	3.4	ND	2.7	3.5	2.6	6	5.5	4.9	7.6	4.9	9	3.7	6.3	5	4.2	2.9
Barium	**16000**	**59,000**	**1300**	360	120	68	76	120	140	53	78	110	75	98	140	180	100	58	140	450	74	140	75	110	160	280
Beryllium	**16**	**140**	**0.5**	ND	**1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	**0.92**	ND	ND	ND	ND	ND	ND	**0.95**	ND	ND
Cadmium	**78**	**78**	**1**	ND	ND	ND	ND	ND	ND	ND	ND	0.9	ND	ND	ND	ND	ND	0.8	ND	ND	ND	ND	ND	ND	ND	ND
Chromium, Hexavalent	240	20	NA	ND	ND	NA	NA	ND	NA	NA	NA	ND	NA	ND	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	ND
Chromium, Total[a]	--	--	--	**50**	**75**	**24**	**22**	**24**	**23**	15	18	**27**	28	**27**	**61**	**40**	**30**	**110**	**27**	20	16	**22**	**30**	**26**	**22**	**29**
Copper	**3,100**	**45,000**	**7300**	52	12	33	31	29	31	38	36	180	29	31	43	47	250	96	210	79	46	41	45	60	37	31
Lead	**400**	**800**	**59**	59	22	50	40	**73**	**120**	27	**64**	ND	10	23	18	17	9.5	9.2	13	**380**	**520**	**130**	**73**	**91**	**70**	38
Mercury	**23**	**65**	**0.1**	ND	ND	**0.2**	ND	0.099	ND	**0.37**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.57**	**0.17**	**0.17**	**0.12**	**0.19**	**0.16**	**0.12**
Nickel	**1,600**	**23,000**	**31**	**51**	**42**	17	17	19	18	14	19	**42**	21	23	31	39	**37**	24	**34**	19	19	26	15	22	19	20
Selenium	**390**	**5,700**	**7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.1	ND	ND	ND	ND	ND	ND	ND
Silver	**390**	**5,700**	**1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	**5**	**79**	**3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	**23000**	**110,000**	**600**	160	67	66	66	97	110	48	68	90	55	51	62	84	100	64	150	340	100	120	82	96	120	74
PCBs																										
Aroclor-1242	**--**	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254	**--**	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.29	ND	ND	ND
Total PCBs	**0.2**	**1**	**0.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.29**	ND	ND	ND
Pesticides																										
Aldrin	**0.04**	**0.2**	**0.1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.22**	**0.097**	ND	ND	ND
beta-BHC	**0.4**	**2**	**0.002**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	**0.2**	**1**	**0.03**	**0.043**	0.027	**0.032**	**0.5**	**0.18**	0.023	**0.041**	**0.039**	ND	ND	**0.092**	ND	ND	ND	ND	ND	**0.031**	ND	ND	ND	ND	0.026	0.025
Dieldrin	**0.04**	**0.2**	**0.003**	**0.0057 d**	0.0029 d	ND	ND	ND	0.0025 d	ND	ND	ND	ND	0.0014 d	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	**0.1**	**0.7**	**0.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.022	ND	ND
p,p'-DDD	**3**	**13**	**3**	0.017	0.012	0.0063 d	0.0071	0.0049 d	0.012	0.037	0.0099	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0059	0.011	ND	ND	ND
p,p'-DDE	**2**	**9**	**12**	0.0095	0.0072	0.0047	0.0096	0.013	0.011	0.029	0.0033 d	ND	ND	ND	ND	ND	ND	ND	ND	0.0044	ND	0.006	0.031	0.0089 d	0.0048	0.0031 d
p,p'-DDT	**2**	**8**	**7**	0.021	0.0076	0.0055	0.0033 d	0.011	0.025	0.011	0.0094	ND	ND	ND	ND	ND	ND	ND	ND	0.0029 d	ND	ND	0.011 d	ND	0.018	0.0035

Notes:
J - Estimated concentration
d - Pesticide % Diff > 50% between columns due to coelution. Lower concentration used.
In accordance with NJDEP's letter dated July 14, 2009; 25% of the Chromium that exceed 20 ppm were analyzed for Hexavalent Chromium.
ND - Not Detected
NS - No Standards
ppm - Parts per million

Table 1 (continued)
Millington Quarry, Basking Ridge, NJ
Area B - JMS' Soil Sample Analytical Results Summary

Sample Name Laboratory Id Sample Date Sample Depth (in feet) Units	**2008 NJ Soil Remediation Standards Residential ppm**	**2008 NJ Soil Remediation Standards Non - Residential ppm**	**2008 Impact to Groundwater Initial Screening Level ppm**	MB-1A AC47934-003 10/22/2009 0.0-0.5 ppm	MB-1B AC47934-004 10/22/2009 4.0-4.5 ppm	MB-2A AC47865-002 10/20/2009 9.5-10 ppm	MB-2B AC47865-003 10/20/2009 15-15.5 ppm	MB-3A AC47865-004 10/20/2009 4-4.5 ppm	MB-3B AC47865-005 10/20/2009 11.5-12 ppm	MB-4A AC47934-005 10/22/2009 5.5-6.0 ppm	MB-4B AC47934-006 10/22/2009 9.5-10.0 ppm
Semi-Volatile Compounds											
Acenaphthene	**3,400**	**37,000**	**74**	ND	ND	0.14	0.41	ND	ND	ND	ND
Anthracene	**17,000**	**30,000**	**1500**	ND	ND	0.34	0.87	ND	ND	ND	ND
Benzo[a]anthracene	**0.6**	**2**	**0.5**	ND	ND	**0.64**	**1.2**	ND	ND	ND	ND
Benzo[a]pyrene	**0.2**	**0.2**	**0.2**	ND	ND	**0.54**	**0.85**	ND	ND	ND	ND
Benzo[b]fluoranthene	**0.6**	**2**	**2**	ND	ND	**0.74**	**1.1**	ND	ND	ND	ND
Benzo[g,h,i]perylene	**380,000**	**30,000**	**NA**	ND	ND	0.34	0.44	ND	ND	ND	ND
Benzo[k]fluoranthene	**6**	**23**	**16**	ND	ND	0.24	0.33	ND	ND	ND	ND
Bis(2-Ethylhexyl)phthalate	**35**	**140**	**790**	ND	ND	0.11	ND	ND	ND	ND	ND
Butylbenzylphthalate	**1,200**	**14,000**	**150**	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	**24**	**96**	**NA**	ND	ND	0.18	0.1	ND	ND	ND	ND
Chrysene	**62**	**230**	**52**	ND	ND	0.61	0.99	ND	ND	ND	ND
Dibenzo[a,h]anthracene	**0.2**	**0.2**	**0.5**	ND	ND	0.09	0.14	ND	ND	ND	ND
Dibenzofuran	**NS**	**NS**	**NS**	ND	ND	ND	0.34	ND	ND	ND	ND
Fluoranthene	**2,300**	**24,000**	**840**	ND	ND	1.8	2.1	ND	ND	ND	ND
Fluorene	**2,300**	**24,000**	**110**	ND	ND	0.14	0.45	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	**0.6**	**2**	**5**	ND	ND	0.3	0.43	ND	ND	ND	ND
2-Methylnaphthalene	**230**	**2,400**	**5**	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	**6**	**17**	**16**	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	**NA**	**300,000**	**NA**	ND	ND	1.3	1.9	ND	ND	ND	ND
Pyrene	**1,700**	**18,000**	**550**	ND	ND	1.4	2.8	ND	ND	ND	ND
Semi-Volatile TICs	**NS**	**NS**	**NS**	93 J	140 J	260 J	250 J	120 J	120 J	250 J	120 J
Metals											
Antimony	**31**	**450**	**6**	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	**19**	**19**	**19**	6.1	4.5	3.9	6.1	7.6	5.3	7.3	5.2
Barium	**16000**	**59,000**	**1300**	120	98	88	65	75	95	130	100
Beryllium	**16**	**140**	**0.5**	**1.2**	**1.3**	ND	ND	**0.86**	**0.69**	**1.1**	**1.2**
Cadmium	**78**	**78**	**1**	ND	ND	ND	ND	ND	ND	ND	ND
Chromium, Hexavalent	240	20	NA	ND	NA	ND	NA	NA	NA	NA	NA
Chromium, Total[a]	--	--	--	**38**	**36**	**44**	**33**	**21**	**24**	**42**	**34**
Copper	**3,100**	**45,000**	**7300**	99	260	41	33	47	66	150	74
Lead	**400**	**800**	**59**	22	14	29	31	12	14	16	14
Mercury	**23**	**65**	**0.1**	ND	ND	**0.56**	**0.17**	ND	ND	ND	ND
Nickel	**1,600**	**23,000**	**31**	**37**	**44**	24	17	24	26	**43**	**35**
Selenium	**390**	**5,700**	**7**	ND	ND	ND	ND	ND	ND	ND	ND
Silver	**390**	**5,700**	**1**	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	**5**	**79**	**3**	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	**23000**	**110,000**	**600**	110	92	67	49	73	85	170	110
PCBs											
Aroclor-1242	**--**	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254	**--**	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs	**0.2**	**1**	**0.2**	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides											
Aldrin	**0.04**	**0.2**	**0.1**	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	**0.4**	**2**	**0.002**	ND	ND	**0.0027 d**	ND	ND	ND	ND	ND
Chlordane	**0.2**	**1**	**0.03**	ND	ND	0.03	ND	ND	ND	ND	ND
Dieldrin	**0.04**	**0.2**	**0.003**	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	**0.1**	**0.7**	**0.3**	ND	ND	ND	ND	ND	ND	ND	ND
p,p'-DDD	**3**	**13**	**3**	ND	ND	ND	ND	ND	ND	ND	ND
p,p'-DDE	**2**	**9**	**12**	ND	ND	0.0042	ND	ND	ND	ND	ND
p,p'-DDT	**2**	**8**	**7**	ND	ND	ND	ND	ND	ND	ND	ND

Note 0
J - Estimated concentration
d - Pesticide % Diff > 50% between columns due to coelution. Lower concentration used.
In accordance with NJDEP's letter dated July 14, 2009; 25% of the Chromium that exceed 20 ppm were analyzed for Hexavalent Chromium.
ND - Not Detected
NS - No Standards
ppm - Parts per million

Table 1 (continued)
Millington Quarry, Basking Ridge, NJ
Area C- JMS' Soil Sample Analytical Results Summary

Sample Name Laboratory Id Sample Date Sample Depth (in feet) Units	**2008 NJ Soil Remediation Standards Residential ppm**	**2008 NJ Soil Remediation Standards Non - Residential ppm**	**2008 Impact to Groundwater Initial Screening Level ppm**	MC-1A AC47963-003 10/26/2009 13.0-13.5 ppm	MC-1B AC47963-004 10/26/2009 8.5-9.0 ppm	MC-2A AC47963-001 10/26/2009 7.0-7.5 ppm	MC-2B AC47963-002 10/26/2009 21.0-21.5 ppm	MC-3A AC48021-001 10/28/2009 1.5-2 ppm	MC-3B AC48021-002 10/28/2009 11.5-12 ppm	MC-3C AC48021-004 10/28/2009 21.5-22 ppm	MC-3D AC48021-003 10/28/2009 31.5-32 ppm	MC-3E AC48083-001 10/29/2009 41.5-42 ppm	MC-3F AC48083-002 10/29/2009 81.5-82 ppm	MC-3G AC48083-003 10/30/2009 91.5-92 ppm	MC-3H AC48083-004 10/30/2009 101.5-102 ppm	MC-4A AC48687-001 12/2/2009 30.5-31 ppm
Semi-Volatile Compounds																
Acenaphthene	**3,400**	**37,000**	**74**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	**17,000**	**30,000**	**1500**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene	**0.6**	**2**	**0.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[a]pyrene	**0.2**	**0.2**	**0.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[b]fluoranthene	**0.6**	**2**	**2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[g,h,i]perylene	**380,000**	**30,000**	**NA**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	**6**	**23**	**16**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)phthalate	**35**	**140**	**790**	ND	ND	ND	ND	0.12	0.13	ND	ND	ND	0.21	ND	ND	ND
Butylbenzylphthalate	**1,200**	**14,000**	**150**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	**24**	**96**	**NA**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	**62**	**230**	**52**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo[a,h]anthracene	**0.2**	**0.2**	**0.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	**NS**	**NS**	**NS**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	**2,300**	**24,000**	**840**	ND	0.077	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	**2,300**	**24,000**	**110**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	**0.6**	**2**	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	**230**	**2,400**	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	**6**	**17**	**16**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	**NA**	**300,000**	**NA**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	**1,700**	**18,000**	**550**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile TICs	**NS**	**NS**	**NS**	120 J	180 J	130 J	120 J	300J	310J	290J	350J	250 J	250 J	390 J	410 J	210 J
Metals																
Antimony	**31**	**450**	**6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	**19**	**19**	**19**	3.2	3.9	4.3	4.4	2.8	6.5	2.7	4.3	ND	3.1	3.6	3.2	3.8
Barium	**16000**	**59,000**	**1300**	160	200	200	150	96	120	110	150	150	62	90	67	120
Beryllium	**16**	**140**	**0.5**	**1.2**	**0.95**	**1.2**	**1.1**	ND	ND	ND	ND	**1.7**	**0.98**	**1.1**	**1.1**	**0.82**
Cadmium	**78**	**78**	**1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium, Hexavalent	240	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	ND
Chromium, Total[a]	--	--	--	**36**	**34**	**36**	**39**	**33**	**28**	**34**	**47**	**47**	**25**	**42**	**26**	**35**
Copper	**3,100**	**45,000**	**7300**	20	39	30	34	150	140	21	150	71	90	150	160	35
Lead	**400**	**800**	**59**	18	17	18	16	9.1	8.9	15	20	16	13	11	13	16
Mercury	**23**	**65**	**0.1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	**1,600**	**23,000**	**31**	**36**	**35**	**42**	**34**	**39**	**35**	27	**48**	**35**	26	**40**	**35**	**34**
Selenium	**390**	**5,700**	**7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	**390**	**5,700**	**1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	**5**	**79**	**3**	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND
Zinc	**23000**	**110,000**	**600**	73	73	69	69	81	85	59	120	73	82	100	97	67
PCBs																
Aroclor-1242	**--**	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254	**--**	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs	**0.2**	**1**	**0.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides																
Aldrin	**0.04**	**0.2**	**0.1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	**0.4**	**2**	**0.002**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	**0.2**	**1**	**0.03**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	**0.04**	**0.2**	**0.003**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	**0.1**	**0.7**	**0.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p'-DDD	**3**	**13**	**3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p'-DDE	**2**	**9**	**12**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p'-DDT	**2**	**8**	**7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
J - Estimated concentration
d - Pesticide % Diff > 50% between columns due to coelution. Lower concentration used.
In accordance with NJDEP's letter dated July 14, 2009; 25% of the Chromium that exceed 20 ppm were analyzed for Hexavalent Chromium.
ND - Not Detected
NS - No Standards
ppm - Parts per million

Table 2
Summary of Groundwater Analytical Results
Millington Quarry
Bernards Township , NJ

Sample ID:	Groundwater Quality Criteria	MW-1	MW-1	MW-1	MW-1	MW-1	MW-2	MW-2	MW-2	MW-2	MW-2	MW-3R	MW-3R	MW-3R	MW-3R
Lab ID:		AC49247-001	AC50887-001	AC52877-001	AC54947-001	AC56926-001	JMS	AC50887-002	AC52877-002	AC54947-002	AC56926-002	AC50887-003	AC52877-003	AC54947-003	AC56926-003
Sample Date:		1/7/2010	4/8/2010	7/8/2010	10/8/2010	1/20/2011	AC49247-002 1/7/2010	4/8/2010	7/8/2010	10/8/2010	1/20/2011	4/8/2010	7/8/2010	10/8/2010	1/20/2011
Consultant:		JMS	JMS	JMS	JMS	JMS	JMS	JMS	JMS	JMS	JMS	JMS	JMS	JMS	JMS
Units:	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
DTW:		127.4	120.05	134.19	134.11	135.21	6.26	6.02	7.78	7.83	6.81	167.17	169.06	168.99	169.68
Semi-Volatile Compounds															
2-Methylnapthalene	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	400	ND	ND	ND	ND	2.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetophenone	700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	2,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.1	**0.46**	**0.15**	**2.4**	**3.1**	**4.1**	0.07	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.1	**0.29**	0.10	**2.4**	**2.7**	**4.2**	0.03	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.2	**0.33**	0.12	**2.7**	**3.6**	**5.2**	0.04	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.5	0.12	0.040	**1.0**	**2.0**	**1.2**	0.02	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	NA	ND	ND	**ND**	**ND**	2.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	3	ND	ND	2.9	**4.9**	**4.1**	ND	ND	ND	ND	ND	ND	ND	ND	3
Caprolactam	5000	ND	ND	ND	12	ND	ND	ND	ND	8.6	ND	ND	ND	160	ND
Chrysene	5	ND	ND	2.2	2.9	4.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h,)anthracene	0.3	0.04	ND	0.21	**0.4**	**0.49**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	300	ND	ND	5.5	6.5	8.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.2	0.14	0.050	**0.79**	**1.5**	**2.3**	0.02	ND	ND	ND	ND	ND	ND	ND	ND
Napthalene	300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	0.3	ND	ND	ND	ND	ND	ND	ND	0.25	ND	ND	ND	ND	ND	ND
Phenanthrene	NS	ND	ND	ND	2.3	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	200	ND	ND	4.8	6	8.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tentatively Identified Compounds	100/500	6 J	ND	15 J	120 J	11 J	ND	ND	ND	5.1 J	ND	ND	9.3 J	200 J	ND
PP Metals 200.7/8															
Antimony	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	3	**3.9**	**4.7**	**3.3**	**5.3**	**4.6**	**3.2**	2.4	2.9	**5.3**	ND	1.1	ND	ND	ND
Barium	6,000	160	120	170	180	170	86	63	43	61	64	220	ND	310	180
Beryllium	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	70	ND	ND	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	1,300	ND	ND	ND	28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	5	**29**	ND	**16**	**27**	**18**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	100	13	14	22	18	16	ND	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	2,000	36	ND	28	30	28	ND	ND	ND	ND	ND	ND	ND	ND	ND
Organochlorine Pesticides 608															
Aldrin	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	0.5	0.21	ND	ND	**0.52**	0.21	0.13	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	0.03	0.018	ND	ND	0.023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC	0.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p, p'-DDD	0.1	0.018	ND	ND	0.028	0.012 d	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p'-DDE	0.1	0.013	ND	ND	0.021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p'-DDT	0.1	0.010d	ND	ND	0.045 d	**0.13**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 608															
Aroclor (Total)	0.5	ND	ND	ND	0.39	0.48	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1016	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1221	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1232	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1242	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1248	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1260	0.5	ND	ND	ND	0.39	0.48	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1262	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1268	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

J = Estimated Value
ND = Not Detected
NS = No Standard

Exceeds Groundwater Quality Criteria

APPENDIX A

SITE HEALTH AND SAFETY PLAN

SECTION 1: GENERAL INFORMATION & ACKNOWLEDGMENTS

CLIENT NAME:	Millington Quarry, Inc. / Tilcon New York, Inc.	PROJECT NAME:	Millington Quarry
PROJECT DIRECTOR:	Joseph Sorge	JOB NUMBER:	2008.226
PROJECT MANAGER:	Rhea Grundman		
PREPARED BY:	Rhea Grundman	DATE:	March 1, 2011
REVISION:			

SHORT FORM APPROVED BY:		Initials	Date
Corporate Health & Safety:	Todd Huffman	TAH	3/1/11
On-Site H&S Officer:	Nick Huzsar	NH	3/1/11
JMS Project Manager:	Rhea Grundman	RG	3/1/11
JMS Crew Leader:	Nick Huzsar	NH	3/1/11

SECTION 2: PROJECT INFORMATION

(1) WILL POTENTIAL HAZARDS TO ON-SITE PERSONNEL EXIST? (YES/NO)

Physical:	Yes	(If yes, complete Section 3)
Chemical:	Yes	(If yes, complete Section 4)
Confined space entry:	No	(If yes, complete Section 6)

(2) SITE INFORMATION

Site Name: Millington Quarry
Address: 135 Stonehouse Road
Bernards Township Somerset County NJ 07920

Site Contact: Tom Carton
Telephone:

(3) SITE CLASSIFICATION: (check all that apply)

	Hazardous (RCRA)		Hazardous (CERCLA)		ISRA
	Construction		UST/LUST	X	Active
	Sanitary landfill		Manufacturing		Inactive
X	Other – Spill Number				

(4) PURPOSE AND DATE(S) OF FIELD VISIT(S): Boring Installation; Soil Sampling and Groundwater Sampling

(5) TASKS: Installation of soil borings and monitoring wells to collect soil and groundwater samples to confirm site conditions.

(6) ON-SITE ORGANIZATION

JMS Personnel	Responsibilities
Nick Huzsar	On-Site Health & Safety Officer; Site Inspection; Soil and Groundwater Sampling
Rhea Grundman	Site Inspection; Soil and Groundwater Sampling
Art Untamo	Installation of Soil Borings
Susan Downer	Soil and Groundwater Sampling

Other Personnel	Affiliation & Responsibilities
SGS Drilling	Installation of Soil Borings and Monitoring Wells
Hampton-Clarke/Veritech (HC-V)	Laboratory Analysis of Soil and Groundwater Samples

NOTE: This site safety plan has been prepared for use by J M Sorge, Inc. (JMS) employees. JMS claims no responsibility for its use by others. The plan is written for the specific site conditions, purposes, dates and personnel specified and must be amended if these conditions change.

Contractors and subcontractors whose work will be performed on-site, or who otherwise could be exposed to health and safety hazards, will be advised of known hazards through distribution of site information obtained by JMS from others, and this Health and Safety Plan (HASP). They shall be solely responsible for the health and safety of their employees and shall comply with all applicable laws and regulations.

All contractors and subcontractors are responsible for: (1) providing their own personal protective equipment; (2) training their employees in accordance with applicable Federal, State and local laws; (3) providing medical surveillance and obtaining medical approvals for their employees; (4) insuring their employees are advised of and meet the minimum requirements of their HASP and any other additional measures required by their site activities; and (5) designating their own site safety officer.

(7) BACKGROUND SITE INFORMATION (attach existing description and map, if available.)

The portion of the site were the work will be performed was formerly a quarry. Fill material was brought on site and is being investigated because one soil sample of fill material contained a soil concentration for benzo(a)pyrene of 0.21 ppm, which exceeds the 2008 Soil Remediation Standard for Residential Soils.

SECTION 3: PHYSICAL HAZARDS INFORMATION

(1) IDENTIFY POTENTIAL PHYSICAL HAZARDS TO WORKERS:

	Confined space	X	Steep/uneven terrain	X	Surface waters
X	Heavy equipment		Heat stress*		Drum handling

X	Moving parts	X	Extreme cold	X	Noise

Describe other unsafe environments: _____

* If work in hot weather implement OSHA Hot Work procedures and use Section V.E.2-4 for worker monitoring.

(2) PROTECTIVE EQUIPMENT REQUIRED? Yes X No _____

If yes, complete Section 8.

(3) SAFETY EQUIPMENT REQUIRED:

	Harnesses		Stretcher		Lights
	Explosimeter		Eye wash		Lights - emergency
	Blower		Shower	X	Safety cones
	Lifeline	X	Barrier tape	X	Communications (on-site)
	Ladder		Fire extinguisher		Communications (off-site)
X	First Aid Kit		Emergency Air Horn		

Describe other Communications via cell phone

SECTION 4: CHEMICAL HAZARDS INFORMATION

(1) IDENTIFIED CONTAMINANTS

Media	Substances Involved	Characteristics	Maximum Known Concentrations (*)	Hazard
SL	Benzo(a)pyrene	TO	3.5 ppm	IH, DC, IG
SL	Benzo(a)anthracene	TO	4.5 ppm	IH,DC,IG
SL	Benzo(a)pyrene	TO	3.5 ppm	IH,DC,IG
SL	Dibenzo(a,h)anthracene	TO	0.53 ppm	IH,DC,IG
SL	Indeno(1,2,3-cd)pyrene	TO	1.9 ppm	IH,DC,IG
SL	Total PCB's	TO	0.34 ppm	IH,DC,IG
SL	Chlordane	TO	6.2 ppm	IH,DC,IG

Media types: GW (groundwater), SW (surface water), WW (wastewater), AI (air)
SL (soil), SD (sediment), LE (leachate), WA (waste), OT (other)

WL (waste liquid), WS (waste solid), WD (waste sludge), WG (waste gas)

Characteristics: CA (corrosive, acid), CC (corrosive, caustic), IG (ignitable), RA (radioactive)

VO (volatile), TO (toxic), RE (reactive), UN (unknown), OT (other, describe)

Hazard: IH (inhalation), DC (dermal contact), IG (Ingestion)

(*) – Based on concentrations from soil sampling completed by JM Sorge Inc. dated October, 2009.

(5) SITE MONITORING REQUIRED? Yes X No _____

If yes, identify monitoring equipment below:

X	PID meter (OVM)		FID analyzer (OVA)		Geiger counter
	Explosimeter		Respirable dust monitor		Other*

* Describe other: _____

Monitoring equipment is to be calibrated according to manufacturer's instructions. Record measured levels on calibration log chart.

(6) PROTECTIVE CLOTHING REQUIRED? Yes X No _____

If yes, complete protective equipment form (Section 8)

(7) RESPIRATORS REQUIRED? Yes _____ No X

If yes, complete Section 8 and attached respirator log.

SECTION 5: HAZARD COMMUNICATION PROGRAM

For each chemical introduced to the site (e.g. decontamination liquids), Material Safety Data Sheets (MSDSs) are attached to this HASP for review by all field personnel. These chemicals include the following:

_____ _____

_____ _____

SECTION 6: CONFINED SPACE ENTRY

(1) WILL CONFINED SPACE ENTRY TAKE PLACE? Yes _____ No X

If the confined space is a permitted confined space, complete all necessary checklists and permits and include a copy of JMS Confined Space Entry Permit.

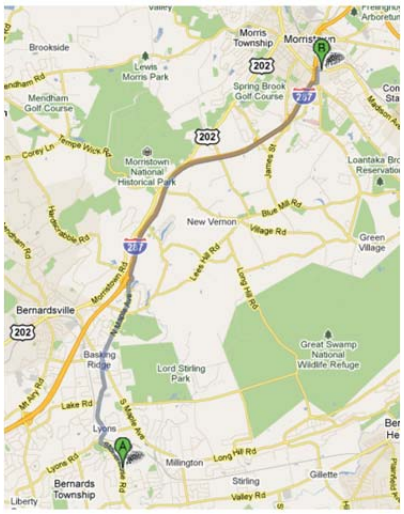
SECTION 7: EMERGENCY INFORMATION

(1) LOCAL RESOURCES

Ambulance (name):	Local First Aid/Rescue Squad	Phone:	911
Hospital (name):	Morristown Memorial Hospital	Phone	973-971-5000
Police (local/state):	Bernards Township Police Department	Phone:	911
Fire Dept. (name):	Bernards Township Fire Department	Phone:	911or 856-757-7520
Other:	Poison Control Center	Phone:	1-800-222-1222
Nearest Phone:	On-site cell phones	Phone:	908-420-6369 732-425-8228

(2) DIRECTIONS TO NEAREST HOSPITAL 100 Madison Avenue, Morristown, NJ 07962

See attached map



- Turn Right onto Stonehouse Rd
- Slight Right onto S Finley Ave/CR-613 (0.1 miles)
- Turn Right onto E Oak/CR 624
- (1.7 miles)
- Turn Left on N Maple Ave (1.6 miles)
- Merge onto I-287 N (5.7 miles)
- Take South St/Madison Ave; exit 35 towards NJ-124 (0.1 miles)
- Left onto South Ave/CR 601 (0.1 miles)
- Take the I-287 N Ramp (0.2 miles)
- Right onto NJ-124/Madison Ave
- 100 Madison Ave on Left

(3) WHOM TO NOTIFY IN CASE OF ACCIDENT:

Catherine Sorge (908) 218- 0066, ext. 102

Also notify: Todd Huffman (908) 218-0066, ext. 117

Priority Medical Care - (908) 231-0777

SECTION 8: PROTECTIVE EQUIPMENT LIST

Level	Task	Respirators & Cartridge *	Clothing	Gloves	Boots	Other
D	Oversight of Excavation and Drilling Activities			N	S	L, H, E
D	Sampling			N	S	L, H, E
D	Site Inspection				S	H

Respirators	Cartridges	Clothing	Gloves	Boots	Other
B = SCBA	O = Organic vapor	T = Tyvek	B = Butyl	F = Firemans	F = Face shield
C = Resp.	G = Organic vapor & acid gas	P = PE Tyvek	L = Latex	L = Latex	G = Goggles
D = N/A	A = Asbestos (HEPA)	S = Saranex	N = Nitrile	S = Safety	L = Glasses
E = Escape	P = Particulate	C = Coveralls	V = Viton		H = Hardhat
	C = Combination organic vapor & particulate		W = Leather Work Glove		E = Hearing

* Action levels for upgrade/downgrade JMS personnel required to wear level "D" protection when performing Sampling activities. If PID readings reaches 25 ppm over background - Cease work and wait for site conditions to return to 0 to 10 ppm. Contact HSO and Project manager immediately.

SECTION 9: SAFE WORK PRACTICES

The following work practices must be followed by personnel on-site:

1. Smoking, eating or drinking are forbidden.
2. Ignition of flammable liquids within or through improvised heating devices (e.g., barrels) is forbidden.
3. Contact with samples, excavated materials, or other contaminated materials must be minimized. Use of contact lenses is prohibited.
4. Do not kneel on the ground when collecting samples.
5. If drilling equipment is involved, know where the "kill switch" is.
6. All electrical equipment must be plugged into ground fault interrupter (GFI) protected outlets.
7. All remedial activities are to be completed by the upwind side of the work area.

SECTION 10: ACKNOWLEDGMENTS:

I acknowledge that I have received the information on this Site Health and Safety Plan and the attached Material Safety Data Sheets (MSDSs). I understand the site hazards as described and agree to comply with the contents of this plan.

Name (print)	Signature	Date
Rhea Grundman		
Nicholas Huszar		
Arthur Untamo		
Susan Downer		

HEALTH & SAFETY PLAN

ATTACHMENTS

Drill Rig Safety

As with all heavy equipment, drill rigs can pose serious physical hazards. The following guidelines should be followed by all personnel working in the vicinity of the drill rig to prevent serious injury.

1. All personnel working in the drilling area should stay alert and pay close attention to the operation.
2. All JMS personnel working in the drill area are required to wear Level "D" PPE as stated in Section 8 of this HASP.
3. Personnel should stay clear of moving parts. At no time should personnel handle or come in contact with spinning augers. Loose fitting clothing should be removed or secured when working around moving parts.
4. Personnel should use be aware of drill derrick spatial requirements and use caution when guiding rig into position. All operations within 1.5 times the distance of the drill derrick are within the hot zone and require the use of all required PPE by all personnel. Particular care should be observed when overhead hazards such as power lines exist.
5. All personnel will be required to know the location of and operation of emergency "kill" switches.

Excavation Safety Guidance

This procedure identifies the basic requirements for the protection of personnel working in and around excavations and trenches. Trenching and excavation work will be done in conformance with this procedure, with 29 CFR, Subpart P (Excavations) and any state local and client requirements.
The definition of a competent person based on OSHA is one who is capable of identifying existing and predictable hazards in the surroundings, or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them.

Hazard Assessment – Prior to any excavation activity the Site Health and Safety Officer (SHSO) and the Competent Person must evaluate the site for known and potential hazards. Hazards to be evaluated include:

- Excess water from rainfall or snowmelt,
- Location of personnel and equipment,
- Location of above ground loads – soil piles, structures, pavement,
- Vibration of equipment, traffic – or other causes,
- Undermining of structures.

Any excavation close to public traffic must have fencing or barricades for the protection of the public.
If the excavation will not expose the public to injury but strictly workers, caution tape or warning barriers at least 4 feet tall should be placed no closer than six feet from and surrounding the excavation.
No employee shall enter an excavation greater than 3 feet in depth. Employees shall not work in excavations in which there is accumulated water, or in excavations in which water is accumulating.

To enter an excavation 4 feet or greater in depth the following procedures must be put into effect:

- A stairway, ladder, ramp or other safe means of egress shall be located in trench excavations that are 4 feet or more in depth so as to require no more than 25 feet of lateral travel for employees.
- Where oxygen deficiency (atmospheres containing less than 19.5 percent oxygen) or a hazardous atmosphere exists or could reasonably be expected to exist, such as in excavations in landfill areas or excavations in areas where hazardous substances are stored nearby, the atmospheres in the excavation shall be tested before employees enter excavations greater than 4 feet in depth.

There are many other guidelines which must be followed to enter into an excavation greater than 3 feet. If you expect that you will need to enter excavations greater than 4 feet at your site, inform the Corporate Health and Safety Officer immediately.

When excavation operations approach the estimated location of underground installations, the exact location of the installations shall be determined by safe and acceptable means.
Employees shall be protected from excavated or other materials or equipment that could pose a hazard by falling or rolling into excavations. Protection shall be provided by placing and keeping such materials or equipment at least 2 feet (.61 m) from the edge of excavations, or by the use of retaining devices that are sufficient to prevent materials or equipment from falling or rolling into excavations, or by a combination of both if necessary.

PHYSICAL HAZARD INFORMATION

Rain, Wet Weather, and High Humidity

Rain and wet conditions increase slipping and tripping hazards, braking distances of vehicles, and the potential for slippage or handling difficulties for devices such as augers and drills. Rain fills holes, obscures trip and fall hazards, and increases risk of electrical shock when working with electrical equipment. Changes in soil conditions caused by rain can impact trenching and excavating activities, creating the potential for quicksand formation, wall collapse, and cave-in. Vehicles become stuck in mud, and tools and personnel can slip on wet surfaces.

Rain and wet conditions may decrease visibility (especially for personnel wearing respiratory protection) and limit the effectiveness of certain direct-reading instruments (e.g. photoionization detectors).

APPENDIX B

Appendix B
Millington Quarry, Basking Ridge, NJ
Icon's Area A Soil Results Summary

Sample Name	2008 NJ Soil Remediation Standards Residential	2008 NJ Soil Remediation Standards Non - Residential	2008 Impact to Groundwater Initial Screening Level	MA-1A-SS	MA-1B-SS	MA-2A-SS	MA-2B-SS	MA-3A-SS	MA-3B-SS	MA-4A-SS	MA-4B-SS	MA-5A-SS	MA-5B-SS	MA-6A-SS	MA-6B-SS	MA-7A-SS	MA-7B-SS	MA-8A-SS	MA-8B-SS	MA-9A-SS	MA-9B-SS	MA-10A-SS	MA-10B-SS	MA-11A-SS	MA-11B-SS
Laboratory Id				10866-015	10866-016	10866-017	10866-018	10866-019	10866-020	10866-021	10866-022	10866-023	10866-024	10940-005	10940-006	10866-013	10866-014	10866-011	10866-012	10789-017	10789-018	10789-019	10789-020	10789-021	10789-022
Sample Date				10/22/2009	10/22/2009	10/22/2009	10/22/2009	10/22/2009	10/22/2009	10/22/2009	10/22/2009	10/22/2009	10/22/2009	10/26/2009	10/26/2009	10/22/2009	10/22/2009	10/22/2009	10/22/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009
Sample Depth (in feet)				3.5-4.0	10.5-11.0	1.5-2.0	9.0-9.5	5.0-5.5	11.0-11.5	6.0-6.5	14-14.5	9.0-9.5	12.0-12.5	24.5-25.0	38.0-38.5	8.0-8.5	14.0-14.5	7.5-8.0	13.5-14.0	7.5-8.0	14.0-14.5	2.0-2.5	11-11.5	6.0-6.5	13.0-13.5
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Semi-Volatile Compounds																									
Acenaphthene	**3,400**	**37,000**	**74**	ND	19.5	0.065 J	ND	ND	0.045 J	1.95	ND	ND	ND	ND	ND	ND	0.314	0.187	ND	ND	ND	1.28	0.064 J	0.109	ND
Acenaphthylene	**NA**	**300,000**	**NA**	ND	ND	0.292	ND	ND	ND	0.173	ND	ND	ND	ND	ND	ND	0.091	0.075 J	ND	ND	ND	0.101	ND		ND
Anthracene	**17,000**	**30,000**	**1500**	ND	35.2	0.253	ND	ND	0.161	3.72	ND	0.085	ND	ND	ND	0.061 J	0.874	0.458	0.095	0.125	0.054 J	2.4	0.146	0.244	ND
Benzo[a]anthracene	**0.6**	**2**	**0.5**	ND	**44.9**	**1.62**	ND	0.074 J	0.466	4.92	ND	0.19	0.097	ND	ND	0.172	**1.89**	**1.59**	0.288	0.428	0.183	**4.43**	0.497	**0.641**	0.060 J
Benzo[a]pyrene	**0.2**	**0.2**	**0.2**	ND	**37.4**	**2.88**	ND	0.069 J	**0.431**	**4.43**	ND	0.179	0.086	ND	ND	0.159	**1.68**	**1.59**	**0.276**	**0.356**	0.14	**3.21**	**0.392**	**0.628**	ND
Benzo[b]fluoranthene	**0.6**	**2**	**2**	ND	**30.6**	**2.27**	ND	0.055 J	0.359	**3.07**	ND	0.126	0.067 J	ND	ND	0.124	**1.33**	**1.47**	0.219	0.334	0.146	**3.08**	0.394	0.452	ND
Benzo[g,h,i]perylene	**380,000**	**30,000**	**NA**	ND	16.5	1.77	ND	ND	0.251	2.8	ND	0.118	0.071 J	ND	ND	0.11	1.07	1.11	0.197	0.126	ND	0.83	0.158	0.454	ND
Benzo[k]fluoranthene	**6**	**23**	**16**	ND	**36.6**	2.02	ND	0.067 J	0.325	2.61	ND	0.17	0.065 J	ND	ND	0.125	1.13	1.05	0.21	0.378	0.175	3.34	0.472	0.57	ND
Bis(2-Ethylhexyl)phthalate	**35**	**140**	**790**	ND	ND	0.055 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.997	0.061 J	ND	ND	ND	ND	ND	0.072 J	0.236	ND
Carbazole	**24**	**96**	**NA**	ND	11	0.09	ND	ND	ND	0.201	ND	ND	ND	ND	ND	ND	0.209	0.277	ND	0.056 J	ND	0.943	0.064 J	0.085	ND
Chrysene	**62**	**230**	**52**	ND	51.5	1.87	ND	0.081 J	0.475	5.48	ND	0.184	0.1	ND	ND	0.177	1.88	1.58	0.289	0.445	0.184	4.22	0.475	0.664	0.058 J
Dibenzo[a,h]anthracene	**0.2**	**0.2**	**0.5**	ND	**8.5**	**0.547**	ND	ND	0.119	**0.825**	ND	ND	ND	ND	ND	ND	**0.295**	**0.359**	0.054 J	ND	ND	**0.513**	0.055 J	0.172	ND
Dibenzofuran	**NS**	**NS**	**NS**	ND	11.9	ND	ND	ND	ND	1.03	ND	ND	ND	ND	ND	ND	0.249	0.149	ND	ND	ND	0.832	ND	0.063 J	ND
Fluoranthene	**2,300**	**24,000**	**840**	0.063 J	117	2.63	ND	0.127	0.938	10.9	ND	0.426	0.175	0.052 J	ND	0.325	4.32	3.17	0.555	0.873	0.327	8.81	0.981	1.21	0.129
Fluorene	**2,300**	**24,000**	**110**	ND	19.7	0.061 J	ND	ND	ND	3.86	ND	0.052 J	ND	ND	ND	ND	0.641	0.218	ND	ND	ND	1.28	0.055 J	0.102	ND
Indeno[1,2,3-cd]pyrene	**0.6**	**2**	**5**	ND	**15.3**	**1.78**	ND	ND	0.257	**2.34**	ND	0.106	0.058 J	ND	ND	0.107	**0.948**	**1.04**	0.159	0.145	0.054 J	**1.06**	0.189	0.398	ND
2-Methylnaphthalene	**230**	**2,400**	**5**	ND	**12.3**	ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	0.071 J	0.055 J	ND	ND	ND	0.397	ND	0.111	ND
Naphthalene	**6**	**17**	**16**	ND	**14.1**	0.058 J	ND	ND	ND	0.203	ND	ND	ND	ND	ND	ND	0.186	0.093	ND	ND	ND	0.686	ND	0.053 J	ND
Phenanthrene	**NA**	**300,000**	**NA**	ND	149	0.67	ND	0.062 J	0.623	17.5	ND	0.298	0.093			0.194	3.91	2.25	0.294	0.529	0.182	8.79	0.552	0.959	0.114
Pyrene	**1,700**	**18,000**	**550**	0.061 J	117	3.64	ND	0.115	0.829	12.5	ND	0.397	0.169	0.052 J	ND	0.3	3.71	2.67	0.56	0.72	0.29	6.82	0.754	1.32	0.105
Semi-Volatile TICs				ND	307	4.27	ND	ND	1.56	51.9	ND	ND	ND	ND	ND	ND	5.79	2.61	ND	ND	ND	8.87	ND	1.49	2.05
Metals																									
Antimony	**31**	**450**	**6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	**19**	**19**	**19**	1.33	3.64	4.55	3.77	4.24	4.43	5.06	2.76	4.6	3.9	3.35	4.3	2.69	3.87	3.3	2.91	3.63	3.72	5.04	7.47	2.81	3.45
Beryllium	**16**	**140**	**0.5**	ND	ND	**0.585**	**1.21**	**1.02**	**0.647**	**0.744**	**0.915**	**1.23**	**0.862**	**0.658**	**0.847**	ND	ND	ND	ND	ND	**0.762**	**0.653**	ND	ND	**1.07**
Cadmium	**78**	**78**	**1**	ND	0.385	ND	ND	ND	ND	0.333	ND	ND	ND	ND	ND	ND	ND	ND	0.324	ND	ND	ND	ND	ND	ND
Hexavalent Chromium	**240**	**20**	**NA**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	**--**	**--**	**--**	12.9	17.9	24.8	86.1	42.3	20.1	27.8	24.5	32	23.7	46.2	129	21.6	23.8	24.9	15.2	27.4	44.2	32.2	24.2	20.5	29.9
Copper	**3,100**	**45,000**	**7300**	14.3	28.3	55.5	42.5	161	30.3	45.8	24.9	33.7	22	94.5	84.1	66.7	26.9	62.4	28.8	36.7	37.7	108	50.2	28.6	52.5
Lead	**400**	**800**	**59**	46.2	**267**	**121**	11.1	24.7	**103**	34.3	15.8	13.6	19.5	12.5	13.8	**125**	**68.5**	**118**	**120**	**163**	**112**	**174**	**108**	**129**	21.9
Mercury	**23**	**65**	**0.1**	0.071	**1.26**	**0.266**	0.025	0.065	**0.277**	0.055	0.037	0.021	0.024	0.062	0.054	**0.145**	**0.251**	**0.55**	**0.329**	**0.479**	**0.23**	**0.56**	**0.462**	**0.131**	0.046
Nickel	**1,600**	**23,000**	**31**	10.2	17.3	26.7	**41.9**	**43.8**	19.8	26.6	14.3	29.1	17.7	**35.3**	**53.3**	17.6	17.5	24.4	18.1	**71.2**	**39.8**	30.9	20.7	21	**31.6**
Selenium	**390**	**5,700**	**7**	ND	2.61	ND	4.73	4.57	ND	2.89	3.81	4.93	4.3	4.6	3.71	ND	ND	ND	ND	ND	2.67	3.13	ND	2.62	3.55
Silver	**390**	**5,700**	**1**	ND	0.762	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	**5**	**79**	**3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	**23000**	**110,000**	**600**	66.8	212	120	56	121	129	75.4	51.4	64.5	63.7	70.7	74.8	465	83.2	405	164	128	144	195	152	97.5	93.1
PCBs																									
Aroclor-1248	**--**	**--**	**--**	0.028	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.039	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254	**--**	**--**	**--**	ND	ND	0.048	ND	0.013	ND	ND	ND	ND	0.00638	ND	0.00281	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1260	**--**	**--**	**--**	0.00568	ND	0.014	ND	0.011	ND	ND	ND	ND	ND	ND	0.00209	0.00415	0.00919	0.018	ND	ND	0.011	0.00862	0.00701	ND	ND
Total PCBs	**0.2**	**1**	**0.2**	0.03368	ND	0.062	ND	0.024	ND	ND	ND	ND	0.00638	ND	0.0049	0.00415	0.00919	0.057	ND	ND	0.011	0.00862	0.00701	ND	ND
Pesticides																									
Aldrin	**0.04**	**0.2**	**0.1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000333	ND	0.00619	ND	0.00164	0.000509	ND	ND	ND
Chlordane	**0.2**	**1**	**0.03**	**0.034**	ND	**0.045**	ND	**0.015**	**6.54**	**0.034**	ND	ND	0.00182	0.00176	ND	**0.034**	**0.049**	ND	0.022	**0.965**	**0.062**	**0.047**	**0.037**	**0.071**	0.00417
Dieldrin	**0.04**	**0.2**	**0.003**	**0.00378**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.00939**	ND	0.00298	**0.00405**	0.00191	0.0026	ND
p,p'-DDD	**3**	**13**	**3**	0.00565	ND	0.00256	ND	0.000997	ND	ND	0.000274	ND	ND	0.000235	0.000248	0.00119	0.00484	0.00443	0.00173	ND	0.00322	0.00914	0.00465	0.019	ND
p,p'-DDE	**2**	**9**	**12**	0.00688	ND	0.00224	ND	0.000749	ND	0.0015	ND	ND	ND	0.000329	0.000355	0.0023	0.0059	0.00293	0.000645	ND	0.0028	0.00605	0.00636	0.014	ND
p,p'-DDT	**2**	**8**	**7**	0.037	ND	0.028	ND	0.0027	ND	0.00245	ND	0.000534	0.000344	0.000445	ND	0.00269	0.00466	0.024	0.00215	ND	0.01	0.031	0.015	0.049	0.00052
Radiological Study																									
Gross Alpha (pCi/g)	**NS**	**NS**	**NS**	2.73	8.92	8.54	8.68	9.27	9.33	10.1	10.4	6.42	9.5	9.19	8.34	10.9	15.5	10.5	13.5	7.35	9.9	6.78	9.08	11.2	9.79
Gross Beta (pCi/g)	**NS**	**NS**	**NS**	7.84	18.9	16.7	13.1	15.6	12.4	10.2	12.4	16	10.3	8.51	8.75	20.6	46	20.7	19.7	11	13.2	7.15	9.32	11.2	17.1
Radium-226 (pCi/g)	**10**	**3**	**5**	0.272	0.618	0.665	0.913	0.707	0.895	0.895	0.831	0.862	0.873	0.729	0.882	0.644	0.752	0.989	0.81	0.74	0.802	0.525	0.987	0.617	1.19
Radium-228 (pCi/g)	**NS**	**NS**	**NS**	0.787	0.777	0.903	0.858	0.749	1.04	0.956	0.876	0.934	1.05	0.746	0.872	0.855	0.922	1.15	0.959	0.897	1.11	0.678	0.617	0.856	1.36

Notes:
J - Estimated concentration
NA - Not Analyzed
ND - Not Detected
NS - No Standards
ppm - Parts per million
pCi/g - Average Picocuries Per Gram

Appendix B (continued)
Millington Quarry, Basking Ridge, NJ
Icon's Area A Soil Results Summary

Sample Name	2008 NJ Soil Remediation Standards Residential	2008 NJ Soil Remediation Standards Non - Residential	2008 Impact to Groundwater Initial Screening Level	MA-12A-SS	MA-12B-SS	MA-13A-SS	MA-13B-S	MA-14A-SS	MA-14B-SS	MA-14A-SS	MA-14B-SS	MA-15A-SS	MA-15B-SS	MA-16A-SS	MA-16B-SS	MA-17A-SS	MA-17B-SS	MA-18A-SS	MA-18B-SS	MA-19A-SS	MA-19B-SS	MA-20A-SS	MA-20B-SS	MA-20C-SS
Laboratory Id				10789-009	10789-010	10789-005	10789-006	10683-001	10683-002	10789-003	10789-004	10683-003	10732-001	10789-007	10789-008	10789-011	10789-012	10789-013	10789-014	10789-015	10789-016	10866-004	10866-005	10866-006
Sample Date				10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/19/2009	10/19/2009	10/21/2009	10/21/2009	10/19/2009	10/20/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009
Sample Depth (in feet)				3.0-3.5	9.5-10.0	6.0-6.5	8.0-8.5	3.0-3.5	7.5-8.0	3.5-4.0	7.5-8.0	0.5-1.0	37.0-37.5	0.0-0.5	12.5-13.0	1.0-1.5	7.5-8.0	0.0-0.5	5.5-6.0	5.5-6.0	11-11.5	2.0-2.5	9.0-9.5	14.0-14.5
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Semi-Volatile Compounds																								
Acenaphthene	**3,400**	**37,000**	**74**	0.107	0.050 J	ND	ND	ND	1.96	ND	ND	0.742	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	**NA**	**300,000**	**NA**	ND	ND	ND	ND	ND	0.179	ND	ND	0.632	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	**17,000**	**30,000**	**1500**	0.239	0.154	ND	ND	ND	3.94	ND	ND	2.96	0.075 J	ND	ND	ND	ND	0.128	0.075 J	0.131	0.116	ND	0.307	0.631
Benzo[a]anthracene	**0.6**	**2**	**0.5**	**0.504**	0.485	ND	ND	ND	**6.87**	0.157	0.061 J	**13.2**	0.186	ND	ND	0.114	0.066 J	0.45	0.261	0.364	0.413	ND	**1.08**	**1.51**
Benzo[a]pyrene	**0.2**	**0.2**	**0.2**	**0.366**	**0.381**	ND	**0.232**	ND	**5.43**	0.124	0.051 J	**12.8**	0.176	0.068 J	**0.45**	0.088	ND	**0.38**	0.193	**0.341**	**0.33**	ND	**1.12**	**1.38**
Benzo[b]fluoranthene	**0.6**	**2**	**2**	0.336	0.372	ND	0.219	ND	**4.31**	0.119	ND	**14.4**	0.147	0.082	0.492	0.093	0.049 J	0.395	0.193	0.344	0.317	ND	**0.823**	**0.842**
Benzo[g,h,i]perylene	**380,000**	**30,000**	**NA**	0.113	0.134	ND	0.071 J	ND	2.0	ND	ND	6.62	0.127	ND	0.131	ND	ND	0.137	0.088	0.25	0.112	ND	0.855	0.943
Benzo[k]fluoranthene	**6**	**23**	**16**	0.38	0.443	ND	0.297	ND	5.81	0.129	ND	**11**	0.139	0.082	0.522	0.119	0.054 J	0.369	0.268	0.28	0.381	ND	0.895	0.836
Bis(2-Ethylhexyl)phthalate	**35**	**140**	**790**	0.050 J	0.055 J	ND	ND	ND	2.82	ND	ND	ND	0.060 J	ND	ND	ND	ND	0.113	0.153	ND	0.281	ND	ND	0.082
Butylbenzylphthalate	**1,200**	**14,000**	**150**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12	ND	ND	ND	ND	ND
Carbazole	**24**	**96**	**NA**	0.085	0.056 J	ND	ND	ND	1.56	ND	ND	1.18	ND	ND	ND	ND	ND	0.047 J	0.051 J	0.061 J	0.053 J	ND	0.111	0.091
Chrysene	**62**	**230**	**52**	0.476	0.501	ND	ND	ND	6.31	0.137	0.060 J	15.7	0.196	ND	ND	0.122	0.059 J	0.446	0.285	0.377	0.408	ND	1.15	1.61
Dibenzo[a,h]anthracene	**0.2**	**0.2**	**0.5**	0.054 J	0.047 J	ND	ND	ND	**0.942**	ND	ND	**2.24**	ND	ND	0.074 J	ND	ND	0.048 J	ND	0.076 J	ND	ND	ND	**0.265**
Dibenzofuran	**NS**	**NS**	**NS**	0.064 J	ND	ND	ND	ND	1.27	ND	ND	0.825	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-methyl phthalate	**NS**	**NS**	**NS**	ND	ND	ND	ND	ND	0.357	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	**2,300**	**24,000**	**840**	1.1	0.934	ND	ND	ND	15.1	0.271	0.11	32.1	0.362	ND	ND	0.261	0.119	0.928	0.599	0.825	0.842	ND	1.88	2.04
Fluorene	**2,300**	**24,000**	**110**	0.108	0.046 J	ND	ND	ND	2.01	ND	ND	1.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.089	0.729
Indeno[1,2,3-cd]pyrene	**0.6**	**2**	**5**	0.131	0.157	ND	0.091	ND	**2.21**	0.054 J	ND	**6.58**	0.115	ND	0.166	ND	ND	0.15	0.086	0.23	0.129	ND	**0.725**	**0.665**
2-Methylnaphthalene	**230**	**2,400**	**5**	ND	ND	ND	ND	ND	0.755	0.059 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	**6**	**17**	**16**	0.075 J	0.051 J	ND	ND	ND	1.76	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	**NA**	**300,000**	**NA**	0.86	0.563	ND	ND	ND	13.8	0.13	0.058 J	19.7	0.281	ND	ND	0.13	0.083	0.46	0.408	0.588	0.486	ND	1.23	3.34
Pyrene	**1,700**	**18,000**	**550**	0.88	0.781	ND	ND	ND	12	0.246	0.096	26	0.305	ND	ND	0.193	0.099	0.716	0.468	0.658	0.627	ND	2.03	3.08
Semi-Volatile TICs				ND	ND	3.03	ND	ND	11.7	3.27	0.382	31.9	ND	ND	0.325	ND	ND	ND	ND	ND	ND	ND	1.34	20.1
Metals																								
Antimony	**31**	**450**	**6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	**19**	**19**	**19**	5.97	3.17	2.01	2.5	4.61	5.87	2.85	5.75	ND	3.85	1.86	3.67	5.53	5.97	4.04	4.02	7.02	3.9	7.46	19	8.48
Beryllium	**16**	**140**	**0.5**	ND	ND	ND	ND	**1.56**	ND	ND	ND	**1.28**	**1.05**	**0.96**	ND	**0.718**	**0.671**	ND	ND	ND	ND	**0.873**	**0.85**	**0.648**
Cadmium	**78**	**78**	**1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.302	ND	ND	ND	ND	ND	ND	ND	0.485	ND
Hexavalent Chromium	**240**	**20**	**NA**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	**--**	**--**	**--**	23.5	21.9	26.4	24	42.7	19.7	22.6	23.7	20	22.4	17	24.6	27	24.2	21.9	15.1	10.4	23.2	36.6	30.1	22.3
Copper	**3,100**	**45,000**	**7300**	36.9	30.3	20.7	24.9	136	21.4	25	30	17.5	48.7	20.5	32.3	86.5	84.8	37	26	14.7	40.2	126	111	88.6
Lead	**400**	**800**	**59**	**156**	**201**	30.7	**86.8**	9.24	**148**	**103**	**100**	24.3	**72.8**	48.7	**169**	37.6	18.9	**94.4**	**144**	43	**101**	7.09	**263**	**717**
Mercury	**23**	**65**	**0.1**	**0.259**	0.018	**0.174**	**0.152**	**0.147**	**0.334**	**0.242**	**0.109**	0.045	0.077	**0.121**	**1**	0.073	0.047	**0.383**	**0.115**	0.067	**0.213**	ND	**0.986**	**0.4**
Nickel	**1,600**	**23,000**	**31**	20.5	18.1	18.8	19.4	**49.4**	13.1	19.4	20.6	23.1	**35.1**	21.5	**87.9**	30.1	26.8	24.2	14.3	11.2	**33.9**	**55.7**	**41.3**	23.3
Selenium	**390**	**5,700**	**7**	ND	ND	3.01	ND	6.92	ND	2.64	3.22	3.98	ND	3.46	ND	2.72	2.93	2.56	4.36	ND	ND	4.16	3.92	3.06
Silver	**390**	**5,700**	**1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	**5**	**79**	**3**	ND	ND	ND	ND	ND	ND	ND	ND	0.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	**23000**	**110,000**	**600**	125	147	62.3	133	69.9	130	120	70	83.7	187	78.5	136	116	113	115	124	48.7	125	217	352	147
PCBs																								
Aroclor-1242	**--**	**--**	**--**	ND	ND	0.023	0.092	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1248	**--**	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.066	ND	ND	ND	0.031	ND	ND	ND	ND	ND
Aroclor-1254	**--**	**--**	**--**	ND	ND	ND	ND	ND	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1260	**--**	**--**	**--**	0.022	0.013	ND	0.00875	ND	ND	0.0034	0.00401	ND	0.00241	0.00258	0.00792	0.00257	0.00214	0.016	0.011	0.00365	0.00865	ND	0.00559	0.013
Total PCBs	**0.2**	**1**	**0.2**	0.022	0.013	0.023	0.10075	ND	0.04	0.0034	0.00401	ND	0.00241	0.00258	0.07392	0.00257	0.00214	0.016	0.042	0.00365	0.00865	ND	0.00559	0.013
Pesticides																								
Aldrin	**0.04**	**0.2**	**0.1**	ND	ND	**0.067**	**0.16**	ND	ND	ND	ND	ND	ND	ND	ND	0.00376	ND	0.000997	ND	ND	ND	ND	ND	ND
Chlordane	**0.2**	**1**	**0.03**	**0.104**	**0.051**	ND	**0.047**	ND	ND	0.00807	0.02	**0.533**	0.022	0.011	**0.049**	0.017	0.00652	**0.063**	0.027	0.025	**0.068**	ND	0.019	**0.077**
Dieldrin	**0.04**	**0.2**	**0.003**	ND	0.00265	**0.012**	**0.014**	ND	ND	ND	0.000729	ND	0.00064	0.000539	**0.00332**	**0.016**	0.00138	**0.00862**	ND	0.00188	ND	ND	0.00231	ND
p,p'-DDD	**3**	**13**	**3**	0.00428	0.00989	0.000645	0.014	ND	ND	0.00433	0.00452	ND	0.00203	0.000716	0.00842	0.000651	0.000963	0.00991	0.00242	0.013	0.00712	ND	ND	ND
p,p'-DDE	**2**	**9**	**12**	0.00803	0.00742	0.00055	0.012	ND	ND	0.00428	0.0024	ND	0.00218	0.000748	0.00836	0.000725	0.00109	0.00196	0.00245	0.025	0.00624	ND	0.00242	ND
p,p'-DDT	**2**	**8**	**7**	0.016	0.032	0.00143	0.029	ND	ND	0.013	0.00973	ND	0.00459	0.00531	0.032	0.00685	0.00478	0.023	0.016	0.014	0.025	0.000287	0.036	ND
Radiological Study																								
Gross Alpha (pCi/g)	**NS**	**NS**	**NS**	17.7	4.41	6.12	5.57	NA	NA	13.3	11.1	NA	NA	10.8	13.3	11.1	11.2	10.7	7.95	8	8.75	-1.491	7.74	9.37
Gross Beta (pCi/g)	**NS**	**NS**	**NS**	17.3	12.4	11.1	11.3	NA	NA	20	21.2	NA	NA	14.5	8.76	7.73	8.65	10.2	15.4	11.9	8.68	1.6	14.6	11.3
Radium-226 (pCi/g)	**10**	**3**	**5**	0.706	0.664	0.536	0.799	NA	NA	0.72	0.9	NA	NA	0.831	0.925	0.606	0.777	0.724	0.505	0.66	0.87	0.438	0.546	0.779
Radium-228 (pCi/g)	**NS**	**NS**	**NS**	1.15	0.598	1.02	0.78	NA	NA	1.49	0.951	NA	NA	0.982	0.679	0.813	0.962	0.88	0.92	0.726	1.22	0.162	0.837	0.928

Notes:
J - Estimated concentration
NA - Not Analyzed
ND - Not Detected
NS - No Standards
ppm - Parts per million
pCi/g - Average Picocuries Per Gram

Appendix B (continued)
Millington Quarry, Basking Ridge, NJ
Area A- Icon's Soil Analytical Results Summary

Sample Name	2008 NJ Soil Remediation Standards Residential	2008 NJ Soil Remediation Standards Non - Residential	2008 Impact to Groundwater Initial Screening Level	MA-21A-SS	MA-21B-SS	MA-21C-SS	MA 21D-SS	MA-21E-SS	MA-21F-SS	MA-21G-SS	MA-21H-SS	MA-21I-SS	MA-21J-SS	MA-21K-SS	MA-21L-SS	MA-21M-SS	MA-24A	MA-24B	MA-24C	MA-25A-SS	MA-25B-SS	MA-25C-SS	MA-25D-SS	MA-25E-SS	MA-27A	MA-27B
Laboratory Id				11926-001	11926-002	11926-003	11983-001	11983-002	11983-003	11983-004	11983-005	12056-001	12056-002	12056-003	12056-004	12173-001	10893-001	10893-002	10940-007	10789-001	10789-002	10866-001	10866-002	10866-003	12214-001	12214-002
Sample Date				11/19/2009	11/19/2009	11/19/2009	11/20/2009	11/20/2009	11/20/2009	11/20/2009	11/20/2009	11/24/2009	11/24/2009	11/24/2009	11/24/2009	11/30/2009	10/22/2009	10/23/2009	10/23/2009	10/20/2009	10/20/2009	10/21/2009	10/21/2009	10/22/2009	12/4/2009	12/4/2009
Sample Depth (in feet)				20-20.5	40-40.5	50.5-51	80-80.5	100.5-101	110.5-111	120.5-121	140.5-141	159-161	179-181	189-191	199-201	219-221	11.5-12	31.5-32	41.5-42	16.5-17	40-40.5	61.5-62	81.5-82	101.5-102	0-2	11.5-12.0
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Semi-Volatile Compounds																										
Acenaphthene	**3,400**	**37,000**	**74**	ND	ND	0.198	0.126	0.186	ND	0.055 J	0.076 J	ND	ND	ND	ND	ND	ND	ND	ND	0.094	0.077 J	0.076 J	1.85	0.062 J	ND	0.062 J
Acenaphthylene	**NA**	**300,000**	**NA**	0.048 J	ND	0.055 J	0.073 J	0.158	ND	0.082	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.104	ND	ND	ND	ND	ND	ND
Anthracene	**17,000**	**30,000**	**1500**	0.069 J	0.074	0.476	0.231	0.503	0.109	0.289	0.171	ND	ND	0.064 J	ND	ND	ND	ND	ND	0.224	0.152	0.181	3.93	0.191	0.093	0.143
Benzo[a]anthracene	**0.6**	**2**	**0.5**	0.209	0.224	**1.1**	**0.89**	**1.04**	0.224	**0.942**	0.323	ND	ND	0.114	0.053 J	ND	ND	ND	ND	**0.658**	0.276	**0.57**	**4.24**	**0.531**	0.378	0.429
Benzo[a]pyrene	**0.2**	**0.2**	**0.2**	0.200	**0.235**	**0.874**	**0.749**	**0.992**	0.199	**0.786**	**0.258**	ND	ND	0.079	ND	ND	ND	ND	ND	**0.596**	0.181	**0.546**	**3.19**	**0.502**	**0.349**	**0.427**
Benzo[b]fluoranthene	**0.6**	**2**	**2**	0.147	0.176	**0.922**	0.512	**0.871**	0.176	**0.752**	0.264	ND	ND	0.09	ND	ND	ND	ND	ND	0.582	0.182	0.46	**2.63**	0.452	0.343	0.318
Benzo[g,h,i]perylene	**380,000**	**30,000**	**NA**	0.178	ND	ND	0.315	0.15	0.09	0.076	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.21	ND	0.381	1.32	0.347	0.276	0.292
Benzo[k]fluoranthene	**6**	**23**	**16**	0.195	0.207	0.78	0.665	0.905	0.18	0.814	0.251	ND	ND	0.099	ND	ND	ND	ND	ND	0.747	0.241	0.432	2.65	0.382	0.308	0.4
Bis(2-Ethylhexyl)phthalate	**35**	**140**	**790**	0.252	0.087	1.9	0.079 J	0.05 J	ND	0.054 J	ND	ND	ND	0.059 J	ND	0.106	0.118	0.193	ND	0.088	0.228	.072 J	ND	0.186	0.105	0.063 J
Carbazole	**24**	**96**	**NA**	ND	ND	0.189	ND	0.143	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.128	0.071 J	0.068 J	1.68	0.096	ND	0.078 J
Chrysene	**62**	**230**	**52**	0.202	0.237	0.999	1.14	1.25	0.247	0.913	0.349	ND	ND	0.117	0.065 J	ND	ND	ND	ND	0.767	0.273	0.627	4.29	0.544	0.387	0.43
Dibenzo[a,h]anthracene	**0.2**	**0.2**	**0.5**	**0.265**	ND	ND	0.126	0.108	ND	0.075 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.078	ND	0.1	**0.369**	0.086	0.08	0.086
Dibenzofuran	**NS**	**NS**	**NS**	ND	ND	0.151	0.064 J	0.104	ND	ND	0.067 J	ND	ND	ND	ND	ND	ND	ND	ND	0.085	0.058 J	0.047 J	1.18	ND	ND	0.050 J
Di-n-octylphthalate	**2,400**	**27,000**	**3300**	0.233	ND	0.151	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	**2,300**	**24,000**	**840**	0.425	0.367	2.34	1.24	2.39	0.462	1.75	0.658	ND	ND	0.222	0.103	ND	ND	ND	ND	1.71	0.648	1.16	11.8	1.11	0.721	0.949
Fluorene	**2,300**	**24,000**	**110**	ND	ND	0.218	0.13	0.231	ND	0.081	0.098	ND	ND	ND	ND	ND	ND	ND	ND	0.126	0.069 J	0.071 J	1.87	0.111	ND	0.078 J
Indeno[1,2,3-cd]pyrene	**0.6**	**2**	**5**	0.097	ND	ND	0.288	0.34	0.077 J	0.282	0.074 J	ND	ND	ND	ND	ND	ND	ND	ND	0.247	0.055 J	0.339	1.4	0.311	0.239	0.262
2-Methylnaphthalene	**230**	**2,400**	**5**	ND	ND	0.07 J	0.048 J	0.086	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.054 J	ND	ND	0.529	ND	ND	ND
Naphthalene	**6**	**17**	**16**	ND	0.068 J	0.083	ND	0.111	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13	0.094	ND	1.61	ND	ND	ND
Phenanthrene	**NA**	**300,000**	**NA**	0.188	0.195	1.56	0.462	1.46	0.253	0.717	0.422	ND	ND	0.185	ND	ND	ND	ND	ND	1.26	0.583	0.801	11.2	0.87	0.358	0.713
Pyrene	**1,700**	**18,000**	**550**	0.308	0.32	1.62	1.45	1.88	0.34	1.34	0.533	ND	ND	0.175	0.083	ND	ND	ND	ND	1.22	0.491	1.25	9.36	1.05	0.612	0.821
Semi-Volatile TICs				ND	ND	1.42	1.95	1.51	ND	0.409	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.69	10.7	ND	ND	ND
Metals																										
Antimony	**31**	**450**	**6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	**19**	**19**	**19**	1.86	3.59	3.83	2.59	2.51	3.09	3.89	3.08	2.9	2.75	3.54	3.34	4.71	4.69	3.38	4.41	5.82	2.46	3.32	5.03	3.78	3.24	3.27
Beryllium	**16**	**140**	**0.5**	ND	**1.16**	**0.666**	ND	**0.801**	ND	ND	**0.721**	ND	**1.13**	**1.25**	**0.887**	**1.34**	**0.738**	ND	**0.763**	ND	ND	ND	ND	**0.754**	ND	**0.829**
Cadmium	**78**	**78**	**1**	ND	ND	**3.24**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.647	ND	ND	ND	ND	ND	ND
Hexavalent Chromium	**240**	**20**	**NA**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	**--**	**--**	**--**	46.3	30	27.5	23.2	27.3	26.1	32.7	23.9	24.4	27.1	32.7	52.4	38.8	29.8	31.8	26.9	23.3	16	21.2	36.3	23.6	14.9	29.1
Copper	**3,100**	**45,000**	**7300**	64	15.2	31.8	29.4	31.1	40.6	40.6	46.1	171	60.5	21.1	34.4	66.9	208	147	131	52.9	20.8	35.9	31.4	47.4	34.8	34.8
Lead	**400**	**800**	**59**	28.5	30.2	**67.4**	32.5	**102**	**76.8**	35.4	**91.6**	3.76	7.98	21.4	12.8	15.7	7.27	10.7	9.31	**339**	**45.3**	**135**	**85.7**	**98.3**	38.9	32.3
Mercury	**23**	**65**	**0.1**	**0.101**	0.058	**0.111**	0.07	**0.205**	0.083	**0.239**	**0.15**	ND	ND	0.026	0.026	0.02	ND	ND	ND	**0.551**	**0.12**	**0.245**	**0.13**	**0.291**	0.076	**0.423**
Nickel	**1,600**	**23,000**	**31**	**53.7**	23.7	20.6	19.3	25.1	19.9	23.3	25.1	**42.9**	24.1	31.4	**32.7**	**35.4**	**44**	**41.6**	**36.4**	22	14.1	22	20.6	22.9	17.4	28.2
Selenium	**390**	**5,700**	**7**	3.82	3.47	2.95	ND	2.54	ND	ND	2.95	3.28	5.68	4.41	4.4	6.28	4.25	5.42	3.91	2.65	ND	ND	3.38	2.73	ND	ND
Silver	**390**	**5,700**	**1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	**5**	**79**	**3**	0.462	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.333	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	**23000**	**110,000**	**600**	137	82	89.8	65.9	116	80.5	61.6	93.9	77.8	67.4	72.5	62.3	78.4	100	94.4	74.1	358	51.9	155	104	105	98.6	77.3
PCBs																										
Aroclor-1254	**--**	**--**	**--**	ND	ND	ND	0.038	ND	ND	0.019	0.021	ND	0.015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1260	**--**	**--**	**--**	ND	ND	ND	0.00848	ND	ND	0.00532	0.00629	ND	ND	ND	ND	ND	ND	ND	ND	0.00453	0.01	0.00996	0.00598	0.026	0.00891	ND
Total PCBs	**0.2**	**1**	**0.2**	ND	ND	ND	0.04648	ND	ND	0.02432	0.02729	ND	0.015	ND	ND	ND	ND	ND	ND	0.00453	0.01	0.00996	0.00598	0.026	0.00891	ND
Pesticides																										
Chlordane	**0.2**	**1**	**0.03**	0.012	0.00576	ND	**0.277**	**0.065**	0.013	0.013	0.024	ND	ND	0.08	0.00202	0.000926	0.00244	0.00181	0.00286	**0.052**	0.021	**0.253**	**0.044**	**0.085**	0.00636	0.014
Dieldrin	**0.04**	**0.2**	**0.003**	0.00156	0.000597	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00231	ND	0.000456	ND
Endrin	**23**	**340**	**0.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.000414	ND	ND	ND	ND	ND	ND	ND
p,p'-DDD	**3**	**13**	**3**	0.00281	0.0023	0.00493	ND	0.00335	0.00175	0.00603	0.0025	ND	ND	ND	ND	ND	0.000261	ND	0.000251	0.0052	0.00166	0.00778	0.00853	0.00323	0.00187	0.00113
p,p'-DDE	**2**	**9**	**12**	0.00195	0.00262	0.00169	ND	0.00389	0.00211	0.0065	ND	ND	0.000367	0.0019	0.000422	ND	ND	ND	ND	0.00691	0.00217	0.0058	0.02	0.00319	0.00209	0.00105
p,p'-DDT	**2**	**8**	**7**	0.00705	0.00195	0.00797	ND	0.0051	0.00748	0.00294	0.00243	ND	0.00142	0.0019	0.000459	ND	0.000845	0.000414	0.000621	0.014	0.00565	0.012	0.013	0.0062	0.00656	0.0015
Radiological Study																										
Gross Alpha (pCi/g)	**NS**	**NS**	**NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.65	7.28	9.26	NA	3.52	6.36	8.64	10.8	NA	NA
Gross Beta (pCi/g)	**NS**	**NS**	**NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.01	8.12	14.9	NA	5.74	7.74	11.2	10.4	NA	NA
Radium-226 (pCi/g)	**10**	**3**	**5**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.638	0.425	0.76	NA	0.237	0.542	0.702	0.709	NA	NA
Radium-228 (pCi/g)	**NS**	**NS**	**NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.789	0.648	0.877	NA	0.3	0.894	0.682	0.659	NA	NA

Notes:
J - Estimated concentration
NA - Not Analyzed
ND - Not Detected
NS - No Standards
ppm - Parts per million
pCi/g - Average Picocuries Per Gram

Appendix B (continued)
Millington Quarry, Basking Ridge, NJ
Icon's Area B Soil Results Summary

Sample Name Laboratory Id Sample Date Sample Depth (in feet)	**2008 NJ Soil Remediation Standards Residential ppm**	**2008 NJ Soil Remediation Standards Non - Residential ppm**	**2008 Impact to Groundwater Initial Screening Level ppm**	MB-1A-SS 10866-007 10/22/2009 0.0-0.5	MB-1B-SS 10866-008 10/22/2009 4.0-4.5	MB-2A-SS 10732-002 10/20/2009 9.5-10	MB-2B-SS 10732-003 10/20/2009 15-15.5	MB-3A-SS 10732-004 10/20/2009 4-4.5	MB-3B-SS 10732-005 10/20/2009 11.5-12	MB-4A-SS 10866-009 10/22/2009 5.5-6.0	MB-4B-SS 10866-010 10/22/2009 9.5-10.0
Semi-Volatile Compounds				ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	**3,400**	**37,000**	**74**	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene	**0.6**	**2**	**0.5**	ND	0.049 J	0.108	0.057 J	ND	ND	ND	ND
Benzo[a]pyrene	**0.2**	**0.2**	**0.2**	ND	ND	0.109	0.069 J	ND	ND	ND	ND
Benzo[b]fluoranthene	**0.6**	**2**	**2**	ND	ND	0.101	0.051 J	ND	ND	ND	ND
Benzo[g,h,i]perylene	**380,000**	**30,000**	**NA**	ND	ND	0.074 J	0.049 J	ND	ND	ND	ND
Benzo[k]fluoranthene	**6**	**23**	**16**	ND	ND	0.079 J	0.063 J	ND	ND	ND	ND
Carbazole	**24**	**96**	**NA**	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	**62**	**230**	**52**	ND	0.046 J	0.105	0.064 J	ND	ND	ND	ND
Dibenzo[a,h]anthracene	**0.2**	**0.2**	**0.5**	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	**NS**	**NS**	**NS**	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	**2,300**	**24,000**	**840**	ND	0.08	0.17	0.075 J	ND	0.064 J	ND	ND
Indeno[1,2,3-cd]pyrene	**0.6**	**2**	**5**	ND	ND	0.071 J	0.049 J	ND	ND	ND	ND
Phenanthrene	**NA**	**300,000**	**NA**	ND	0.074 J	0.073 J	ND	ND	ND	ND	ND
Pyrene	**1,700**	**18,000**	**550**	ND	0.086	0.156	0.075 J	ND	0.056 J	ND	ND
Semi-Volatile TICs				ND	ND	2.6	ND	ND	ND	ND	ND
Metals											
Antimony	**31**	**450**	**6**	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	**19**	**19**	**19**	5.17	5.22	3.04	6.53	4.25	3.52	3.8	4.15
Beryllium	**16**	**140**	**0.5**	**1.73**	**1.2**	**0.957**	ND	**1.32**	**0.983**	**1.18**	**1.21**
Cadmium	**78**	**78**	**1**	ND	ND	ND	0.381	ND	ND	ND	ND
Hexavalent Chromium	**240**	**20**	**NA**	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	**--**	**--**	**--**	44.8	34.3	44.4	22.2	33.7	29.5	39.2	36.3
Copper	**3,100**	**45,000**	**7300**	101	330	33.1	87.5	115	134	126	106
Lead	**400**	**800**	**59**	21.3	18.1	39.2	50.3	17.2	14.5	14.2	14.1
Mercury	**23**	**65**	**0.1**	ND	0.016	0.04	**0.337**	ND	ND	ND	ND
Nickel	**1,600**	**23,000**	**31**	**44.5**	**38.5**	**31.9**	17.1	**38.8**	29.6	**45.2**	**43.8**
Selenium	**390**	**5,700**	**7**	4.93	3.74	2.92	ND	4.7	2.95	5.9	4.42
Silver	**390**	**5,700**	**1**	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	**5**	**79**	**3**	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	**23000**	**110,000**	**600**	112	108	80.7	72.2	82.9	89.5	111	131
PCBs											
Aroclor-1248	**--**	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254	**--**	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1260	**--**	**--**	**--**	ND	ND	0.00502	0.00731	ND	ND	ND	ND
Total PCBs	**0.2**	**1**	**0.2**	ND	ND	0.00502	0.00731	ND	ND	ND	ND
Pesticides											
Alpha-BHC	**0.1**	**0.5**	**0.002**	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	**0.2**	**1**	**0.03**	ND	0.0018	**0.041**	ND	ND	ND	ND	ND
Dieldrin	**0.04**	**0.2**	**0.003**	ND	ND	ND	ND	ND	ND	ND	ND
p,p'-DDD	**3**	**13**	**3**	ND	ND	0.00299	0.00123	ND	ND	ND	ND
p,p'-DDE	**2**	**9**	**12**	ND	ND	0.0043	0.00195	ND	ND	ND	ND
p,p'-DDT	**2**	**8**	**7**	ND	0.000337	0.00614	0.00301	ND	ND	ND	ND
Radiological Study											
Gross Alpha (pCi/g)	**NS**	**NS**	**NS**	10.7	8.02	NA	NA	NA	NA	3.83	16.1
Gross Beta (pCi/g)	**NS**	**NS**	**NS**	24.5	21.6	NA	NA	NA	NA	12.9	19.5
Radium-226 (pCi/g)	**10**	**3**	**5**	0.86	0.862	NA	NA	NA	NA	0.8	0.708
Radium-228 (pCi/g)	**NS**	**NS**	**NS**	1.57	1.41	NA	NA	NA	NA	1.16	0.906

Notes:
J - Estimated concentration
NA - Not Analyzed
ND - Not Detected
NS - No Standards
ppm - Parts per million
pCi/g - Average Picocuries Per Gram

Appendix B (continued)
Millington Quarry, Basking Ridge, NJ
Icon's Area C Soil Results Summary

Sample Name Laboratory Id Sample Date Sample Depth (in feet)	**2008 NJ Soil Remediation Standards Residential ppm**	**2008 NJ Soil Remediation Standards Non - Residential ppm**	**2008 Impact to Groundwater Initial Screening Level ppm**	MC-1A-SS 10940-001 10/26/2009 8.5-9.0 ppm	MC-1B-SS 10940-002 10/26/2009 13.0-13.5 ppm	MC-2A-SS 10940-003 10/26/2009 7.0-7.5 ppm	MC-2B-SS 10940-004 10/26/2009 21.0-21.5 ppm	MC-3A-SS 11019-001 10/28/2009 1.5-2 ppm	MC-3B-SS 11019-002 10/28/2009 11.5-12 ppm	MC-3C-SS 11019-003 10/28/2009 21.5-22 ppm	MC-3D-SS 11019-004 10/28/2009 31.5-32 ppm	MC-3E 11075-001 10/29/2009 41.5-42 ppm	MC-3F 11075-002 10/29/2009 81.5-82 ppm	MC-3G-SS 11185-001 10/30/2009 91.5-92 ppm	MC-3H-SS 11185-002 10/30/2009 101.5-102 ppm	MC-4A 12262-001 12/2/2009 29-31
Semi-Volatile Compounds																
Anthracene	**17,000**	**30,000**	**1500**	0.056 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene	**0.6**	**2**	**0.5**	0.273	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[a]pyrene	**0.2**	**0.2**	**0.2**	**0.356**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[b]fluoranthene	**0.6**	**2**	**2**	0.234	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	**6**	**23**	**16**	0.301	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	**62**	**230**	**52**	0.297	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	**2,300**	**24,000**	**840**	0.562	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	**NA**	**300,000**	**NA**	0.128	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	**1,700**	**18,000**	**550**	0.572	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile TICs				ND	ND	0.355	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																
Antimony	**31**	**450**	**6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	**19**	**19**	**19**	2.75	3.71	4.22	3.25	3.06	3.23	3.72	2.79	2.83	4.31	3.41	2.6	3.57
Beryllium	**16**	**140**	**0.5**	**0.99**	**1.64**	**1.46**	**1.43**	**0.818**	**0.899**	**1.52**	**0.986**	**1.47**	ND	**0.797**	**0.756**	1.53
Cadmium	**78**	**78**	**1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexavalent Chromium	**240**	**20**	**NA**	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	ND	NA
Chromium	**--**	**--**	**--**	33.8	40.9	40.5	42.2	43.9	35.6	40.7	37.6	36.2	30.2	37.8	31	34.9
Copper	**3,100**	**45,000**	**7300**	61.4	24.3	37	37.3	177	113	38.3	103	44.6	124	136	102	28.9
Lead	**400**	**800**	**59**	13.2	17.2	16.7	14.7	9.1	9.57	18.2	9.05	15.6	16.4	12.2	13.3	16.2
Mercury	**23**	**65**	**0.1**	0.017	ND	ND	ND	0.035	ND	ND	ND	ND	0.02	0.037	0.035	ND
Nickel	**1,600**	**23,000**	**31**	**37.5**	4.32	**46.3**	**43**	**56**	**42.2**	**41.7**	**46.9**	**47.6**	**37.8**	**45.1**	**32.4**	38
Selenium	**390**	**5,700**	**7**	5.07	**7.17**	**7.22**	5.81	6.54	3.87	5.89	5.72	6.29	4.02	4.31	2.93	6.31
Silver	**390**	**5,700**	**1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	**5**	**79**	**3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	**23000**	**110,000**	**600**	75	77.6	86.6	77.9	89.2	82.7	80.8	79.7	76.7	69.5	87.9	73.3	70.6
PCBs																
Aroclor-1248	**--**	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254	**--**	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1260	**--**	**--**	**--**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs	**0.2**	**1**	**0.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides																
Alpha-BHC	**0.1**	**0.5**	**0.002**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	**0.2**	**1**	**0.03**	ND	ND	ND	ND	0.00151	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	**0.04**	**0.2**	**0.003**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p'-DDD	**3**	**13**	**3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p'-DDE	**2**	**9**	**12**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p'-DDT	**2**	**8**	**7**	ND	ND	ND	ND	0.00026	ND	ND	0.000255	ND	ND	ND	ND	ND
Radiological Study																
Gross Alpha (pCi/g)	**NS**	**NS**	**NS**	15.1	18.1	10.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gross Beta (pCi/g)	**NS**	**NS**	**NS**	15.8	24.9	21.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radium-226 (pCi/g)	**10**	**3**	**5**	0.991	1.06	1.24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radium-228 (pCi/g)	**NS**	**NS**	**NS**	1.44	1.66	1.56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
J - Estimated concentration
NA - Not Analyzed
ND - Not Detected
NS - No Standards
ppm - Parts per million
pCi/g - Average Picocuries Per Gram