UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION III

FINAL DECISION

NATIONAL CAN CORP.

MORRISVILLE, PENNSYLVANIA

PURPOSE

The United States Environmental Protection Agency (EPA) is issuing this Final Decision and Response to Comments (FDRTC or Final Decision) selecting the Final Remedy for the National Can Corp. facility located in Morrisville, PA (hereinafter referred to as the Facility). The Final Decision is issued pursuant to the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act (RCRA) of 1976, and the Hazardous and Solid Waste Amendments (HSWA) of 1984, 42 U.S.C. Sections 6901, et seq. EPA issued a Statement of Basis (SB) in which it described the information gathered during environmental investigations at the Facility and proposed a Final Remedy for the Facility. The SB is hereby incorporated into this Final Decision by reference and made a part hereof as Attachment A.

This FDRTC selects the remedy that EPA evaluated in the SB. Consistent with the public participation provisions under RCRA, EPA solicited public comment on its proposed Final Remedy. On June 1, 2016, notice of the SB was published on the EPA website: [https://www.epa.gov/sites/production/files/2016-06/documents/nationalcancorp_public_notice.pdf] and in the Courier Times newspaper. The comment period ended on July 1, 2016.

EPA did not receive any comments on the SB; thus, the remedy proposed in the SB is the Final Remedy selected by EPA for the Facility.

FINAL DECISION

EPA's Final Remedy for the Facility includes compliance with and maintenance of land and groundwater use restrictions.

DECLARATION

Based on the Administrative Record compiled for the corrective action at the National Can Corp. facility, I have determined that the remedy selected in this Final Decision and Response to Comments, which incorporates the June 22, 2016 Statement of Basis, is protective of human health and the environment.

Date: 7.19.16

John A. Armstead, Director
Land and Chemicals Division
U.S. Environmental Protection Agency, Region III

Attachment A: Statement of Basis (June 2016)

Attachment A

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION III

STATEMENT OF BASIS

NATIONAL CAN CORPORATION
FORMER U.S. STEEL FAIRLESS WORKS
1001 NEW FORD MILL ROAD

FAIRLESS HILLS, PENNSYLVANIA

EPA ID NO. PAD04655941

Prepared by
Office of Pennsylvania Remediation
Land and Chemicals Division
June 2016

Table of Contents

List of Acronyms

AOC	Areas of Concern
AR	Administrative Record
AST	Above Ground Storage Tank
COC	Contaminants of Concern
EPA	Environmental Protection Agency
FDRTC	Final Decision Response to Comments
GPRA	Government Performance and Results Act
MCL	Maximum Contaminant Level
MSC	Medium Specific Concentration
PADEP	Pennsylvania Department of Environmental Protection
RCRA	Resource Conservation and Recovery Act
RSL	Regional Screening Level
SB	Statement of Basis
UST	Underground Storage Tank
VOC	Volatile Organic Compound

Section 1: Introduction

The United States Environmental Protection Agency (EPA) has prepared this Statement of Basis (SB) to solicit public comment on its proposed remedy for a 14.2-acre parcel (Parcel) located within the US Steel Fairless Works Facility (Facility) located on 2500 acres in Fairless Hills, Pennsylvania. The Parcel was formerly leased and operated by National Can Corporation from 1967 until 1989. The Facility, including the Parcel, is subject to the corrective action provisions of the Resource Conservation and Recovery Act (RCRA). In 1993, EPA and USX Corporation currently US Steel) entered into a RCRA Consent Order to remediate the Facility. The Parcel is currently owned by Samax Enterprises Inc.

EPA's proposed remedy for the Parcel requires implementation and/or maintenance of groundwater and land use restrictions. This SB highlights key information relied upon by EPA in proposing its remedy for the Parcel. In 2008, the Pennsylvania Department of Environmental Protection (PADEP) required U.S. Steel to implement use restrictions pursuant to the Pennsylvania Uniform Environmental Covenants Act, 27 Pa. C.S. Sections 6501-6517 (UECA). These use restrictions meet the requirements of EPA's proposed remedy. Further groundwater monitoring and/or remediation at the Parcel will be part of a Statement of Basis that addresses groundwater contamination beneath the entire 2500-acre Facility.

The Facility is subject to EPA's Corrective Action Program under the Solid Waste Disposal Act, as amended, commonly referred to as the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. §§ 6901 et seq. The Corrective Action Program requires that facilities subject to certain provisions of RCRA be investigated and releases of hazardous waste and hazardous constituents, usually in the form of soil or groundwater contamination, that have occurred at or from their property, be addressed. The Commonwealth of Pennsylvania (Commonwealth) is not authorized for the Corrective Action Program under Section 3006 of RCRA. Therefore, EPA retains primary authority in the Commonwealth for the Corrective Action Program.

EPA is providing a thirty (30) day public comment period on this SB. EPA may modify its proposed remedy based on comments received during this period. EPA will announce its selection of a final remedy for the Parcel in a Final Decision and Response to Comments (Final Decision) after the public comment period has ended.

Information on the Corrective Action Program as well as a fact sheet for the Parcel can be found by navigating http://www.epa.gov/reg3wcmd/correctiveaction.htm. The Administrative Record (AR) for the Parcel contains all documents, including data and quality assurance information, on which EPA's proposed remedy is based. See Section 8, Public Participation, below, for information on how you may review the AR.

Section 2: Facility Background

The Parcel is located at 1001 Newford Mill Road, Fairless Hills, Pennsylvania (geographic coordinates of 40° 9' 35.76" North, -74° 46' 3.43" West) in the western portion of the Facility It is located on the Delaware River 20 miles north of Philadelphia in an area that is currently zoned for industrial use. The Parcel is currently vacant and is occupied by a 172,732 square foot warehouse, 4,916 square feet of office space and 112 paved parking spaces.

The Facility has been in operation since 1952. It once consisted of a fully integrated steel mill; it housed a coke production plant, a steel making operation, finishing and forging operations, a powerhouse and a chemical plant. The former National Can Corporation plant tinned steel for producing cans, and was never directly associated with steel making operations. The Facility is still home to a U.S. Steel finishing facility where sheet metal products are finished into galvanized sheet metal. The rest of the operations were closed down between 1982 and 1991. As part of the redevelopment of the Facility, demolition of the inactive facilities occurred between 1993 and 1995, and parcel-by-parcel investigations and cleanups are underway.

In 1998, U.S. Steel submitted a Notice of Intent to remediate under the Pennsylvania Land Recycling and Environmental Remediation Standards Act (Act 2), 35 P.S. Sections 6026.101 et seq. In 2005, U.S. Steel joined the EPA Region 3 *One Cleanup Program* – which provides a framework for RCRA facilities to satisfy EPA corrective action obligations while concurrently receiving a release from liability from PADEP for remediation when Act cleanup standards are met. In 2008, Samax received a Final Report approval from PADEP stating the investigation and remediation of the soil at the Parcel was complete under Act 2.

Section 3: Summary of Environmental Investigations

3.1 Environmental Investigations

EPA is basing its proposed remedy on several environmental investigations completed pursuant to the One Cleanup Program. As these investigations followed guidelines laid out in the Act 2 Technical Guidance, this document will refer to "Act 2" or "Pennsylvania Statewide Health Standards" (SHSs) to remain consistent with the investigation reports. Pennsylvania SHSs are equivalent to with EPA risk-based standards for the individual contaminants found at the Parcel.

3.1.1 Soil Investigation

In 1997, twelve samples were collected from surface soil surrounding the front loading dock area, near the outlet for a roof drain located at the northeastern corner of the Parcel and along the rear fence line. Semi-volatile Organic Compounds (SVOC) and metals were detected in the soil. Two soil samples collected as part of the investigations of these areas detected benzo(a)pyrene at concentrations slightly above the applicable Non-Residential Statewide Health Soil Standards. The data were used to identify potential areas of concern (AOCs) and to focus further investigations which took place in October 2007.

The Parcel Investigation/Characterization activities consisted of completing 15 test pits and the collection of 32 soil samples. The soil analytical results were compared to SHSs for direct contact exposure. Parcel soils were also compared to the soil to groundwater pathway SHSs based on the non-use aquifer criteria defined as groundwater that is not used or currently planned to be used. Previous sampling results were used to assess historic Parcel conditions. The results for the October 30, 2007 thru November 1, 2007 soil sampling analysis to characterize current conditions are summarized in Table 1.

There were no Target Compound List (TCL), Volatile Organic Compounds (VOC), Poly Aromatic Hydrocarbons (PAH), Polychlorinated Bi-Phenyls (PCBs), or Metals detected in soil samples at concentrations above applicable Pennsylvania Direct Contact Non-Residential SHS criteria. Benzo(a)pyrene was detected at much lower concentrations than found during the 1997 sampling event and therefore is not considered to be a contaminant of concern (COC) for nonresidential use.

3.1.2. Groundwater Investigation

Approximately 150 groundwater monitoring wells were installed throughout the Facility to investigate and to monitor groundwater. Generally, the wells are 40 feet or less in depth and are screened in aquifers that underlie confining beds. A limited number of areas throughout the Facility property were found to be sources of contamination to groundwater. These areas are localized, contributing small amounts of organic contaminants, such as TCE, benzene, and naphthalene and inorganic constituents, such as mercury, lead, and iron. The groundwater results

show levels elevated above federal Maximum Contaminant Levels (MCLs).

One of the 150 groundwater monitoring well, well (MW5-41-19), is located on the Parcel in the southwestern portion. In December 1996 and November 2000, groundwater from this well was sampled and analyzed for VOCs, SVOCs, pesticides/PCBs, total cyanide, total phenols, and metals. No target compounds were detected above the Non Use Aquifer groundwater SHSs or MCLs.

The unconfined aquifer beneath the Parcel is not currently used for any purpose nor are there plans for future use. The aquifer is shallow (less than 15 feet below ground surface) and its saturated thickness (20 to 40 feet) makes it an unlikely source for municipal supply. In addition, the aquifer is characterized by naturally occurring concentrations of iron and manganese that exceed EPA's Secondary Maximum Contaminant Levels for these constituents, which would affect taste and color and may cause staining and corrosion if used.

In 1999, PADEP approved a *non-use aquifer* designation for the unconfined aquifer immediately beneath the Facility including the Parcel. This approval means that there are no private domestic wells on the Facility or within 1,000 feet of the downgradient Facility boundary. This designation also requires confirmation from the local water supplier (Falls Township Water Authority) that there are no plans for future use.

3.1.3. Summary of Remedial Activities Completed

Six underground steel storage tanks (USTs) (five 8,000 gallon and one 6,000 gallon) were used to store raw materials for can-coating processes. The raw liquid materials, including solvents, primers, and varnishes were stored in the USTs and discharged into drums as needed.

The six USTs were removed by 1995. During removal activities, about 300 cubic yards of impacted soil and debris that was associated with the USTs were excavated. Impacted soils were transported to Waste Management's G.R.O.W.s Landfill in Morrisville, Pennsylvania for disposal.

3.2 Environmental Indicators

Under the Government Performance and Results Act (GPRA), EPA has set national goals to address RCRA corrective action facilities. Under GPRA, EPA evaluates two key environmental clean-up indicators for each facility: (1) Current Human Exposures Under Control, and (2) Migration of Contaminated Groundwater Under Control. The Parcel met the goals for both of these indicators on February 23, 2016.

Section 4: Corrective Action Objectives

EPA's Corrective Action Objectives for the specific environmental media at the Parcel are the following:

1. Soils

EPA's Corrective Action Objective is to comply with the cleanup objective standards and procedures developed under Act 2. PADEP compared the sampling results obtained during those investigations to SHSs. These standards are equivalent to EPA's Region III Screening Levels (RSLs) for residential and industrial soil, for individual COCs.

2. Groundwater

No target compounds were detected in the groundwater at the Parcel above their respective MCLs. However, because groundwater contamination beneath the entire 2500-acre Facility will be comprehensively addressed in a separate Statement of Basis, EPA's Corrective Action Objective for Parcel groundwater is to prohibit groundwater use that could adversely affect or interfere with the integrity and protectiveness of remedial activities required by PADEP and/or EPA at the Facility.

Section 5: Proposed Remedy

Introduction

Under this proposed remedy, some contaminants remain in the soil and groundwater above levels appropriate for residential uses (See Attachment 1 for a complete list). EPA's proposed remedy, therefore, requires compliance with and maintenance of soil and groundwater use restrictions. The land and groundwater restrictions proposed by EPA to prevent human exposure to contaminants at the Facility have already been implemented through PADEP's existing environmental covenant recorded in 2008.

1. Soils

The Parcel shall be restricted to commercial and/or industrial purposes and shall not be used for residential purposes. This restriction has been implemented through the PADEP environmental covenant recorded in 2008.

2. Groundwater

For groundwater at the Parcel, EPA is proposing to require the implementation of

institutional controls with no further remedial actions required at this time. Monitoring at the Facility has shown that groundwater under the Parcel has detected contaminants but below their MCLs and that the contamination originates from other areas within the Facility. EPA's proposed remedy for groundwater at the Parcel consists of the following groundwater use restrictions:

1. Groundwater at the Parcel shall not be used for any purpose other than the operation, maintenance, and monitoring activities currently being required by PADEP and/or EPA.
2. No new wells shall be installed on the Parcel, unless such wells are necessary for the performance or completion of remedial activities required by PADEP and/or EPA.

These restrictions have also been implemented through the PADEP environmental covenant recorded in 2008.

Any further groundwater monitoring and/or remediation at the Parcel will be part of the Sitewide monitoring program which will address Sitewide groundwater contamination associated with the Facility. This program will be implemented by the Facility under PADEP and/or EPA oversight.

3. Enforceability

The components of EPA's proposed remedy have already been implemented and are enforceable by PADEP and EPA under the 2008 environmental covenant. If EPA, in its sole discretion, deems that additional operation and maintenance and monitoring activities and/or institutional controls are necessary to protect human health or the environment, EPA has the authority to require and enforce additional corrective actions.

Section 6: Evaluation of Proposed Remedy

This section provides a description of the criteria EPA used to evaluate the proposed remedy consistent with EPA guidance.

Threshold Criteria	Evaluation
1) Protect human health and the environment	EPA's proposed remedy for the Parcel protects human health and the environment by eliminating, reducing, or controlling potential unacceptable risk through the implementation and maintenance of use restrictions. EPA's proposed remedy restricts land and groundwater use at the Parcel in accordance with actions already taken by PADEP.

2) Achieve media cleanup objectives	Investigation results at the Parcel demonstrate that soils meet current PADEP SHSs for non-residential use. These standards are equivalent with EPA Region 3 Regional Screening Levels for individual contaminants for non-residential uses. The remedy proposed in this SB would limit use of the property to non-residential uses.
3) Remediating the Source of Releases	In all proposed remedies, EPA seeks to eliminate or reduce further releases of hazardous wastes and hazardous constituents that may pose a threat to human health and the environment. The Parcel has met this objective. The USTs and surrounding soils which were the source of contamination, have been removed from the Parcel, thereby, eliminating, to the extent practicable, further releases of hazardous constituents from on-site soils as well as the source of the groundwater contamination. There are no remaining large, discrete sources of waste from which constituents would be released to the environment. Groundwater is not used for potable purposes at the Parcel or at neighboring facilities. The Parcel and surrounding area are already being provided with potable water from the City's public water supply system. Therefore, EPA has determined that this criterion has been met.

Balancing Criteria	Evaluation
4) Long-term effectiveness	The long term effectiveness of the remedy for the Parcel will be maintained by compliance with use restrictions by the current and all subsequent property owners bound by the controls. This will be confirmed by the annual compliance report that will be submitted to PADEP as required by the covenant.
5) Reduction of toxicity, mobility, or volume of the	Reduction has already been achieved, as demonstrated by the data from the groundwater monitoring and soil sampling results.

Hazardous Constituents	
6) Short-term effectiveness	EPA's proposed remedy does not involve any activities, such as construction or excavation that would pose short-term risks to workers, residents, and the environment.
7) Implementability	EPA's proposed remedy has already been implemented by PADEP. Both PADEP and EPA can enforce these restrictions, if necessary.
8) Cost	The costs associated with this proposed remedy are minimal (estimated cost of less than $1000 per year).
9) Community Acceptance	EPA will evaluate community acceptance of the proposed remedy during the public comment period, and it will be described in the Final Decision.
10) State/Support Agency Acceptance	PADEP has reviewed and concurred with the proposed remedy for the Facility.

Section 7: Financial Assurance

EPA has evaluated whether financial assurance for corrective action is necessary to implement EPA's proposed remedy at the Parcel. EPA is proposing that no financial assurance be required.

Section 8: Public Participation

Interested persons are invited to comment on EPA's proposed remedy. The public comment period will last thirty (30) calendar days from the date that notice is published in a local newspaper. Comments may be submitted by mail, fax, or electronic mail to Mr. Leonard Hotham at the contact information listed below.

A public meeting will be held upon request. Requests for a public meeting should be submitted to Mr. Leonard Hotham in writing at the contact information listed below. A meeting will not be scheduled unless one is requested.

The Administrative Record contains all the information considered by EPA for the proposed remedy at this Parcel. The Administrative Record is available at the following location:

U.S. EPA Region III
1650 Arch Street
Philadelphia, PA 19103
Contact: Mr. Leonard Hotham (3LC20)
Phone: (215) 814-5778
Fax: (215) 814 - 3113
Email: hotham.leonard@epa.gov

Attachments:
Attachment 1: Contaminants of Concern
Figure 1: Map of Facility
Table 1: Soil Sample Results

Date: 6.22.16

John A. Armstead, Director
Land and Chemicals Division
US EPA, Region III

Section 9: Index to Administrative Record

Act 2 Remedial Investigation Final Report Former U.S. Steel Fairless Works, Fairless Hills, PA, Langan Engineering and Environmental Services, March 31, 2008

Environmental Covenant for Proposed Samax 14.2 Acre Parcel, Fairless Hills, PA, July 6, 2008
Letter to U.S. Steel about the One Cleanup Program Memorandum of Agreement, EPA and PADEP, September 28, 2005

Facility Decommissioning Report and Phase II Environmental Site Assessment, Levine-Fricke-Recon Inc., August 18, 1997

Attachment 1

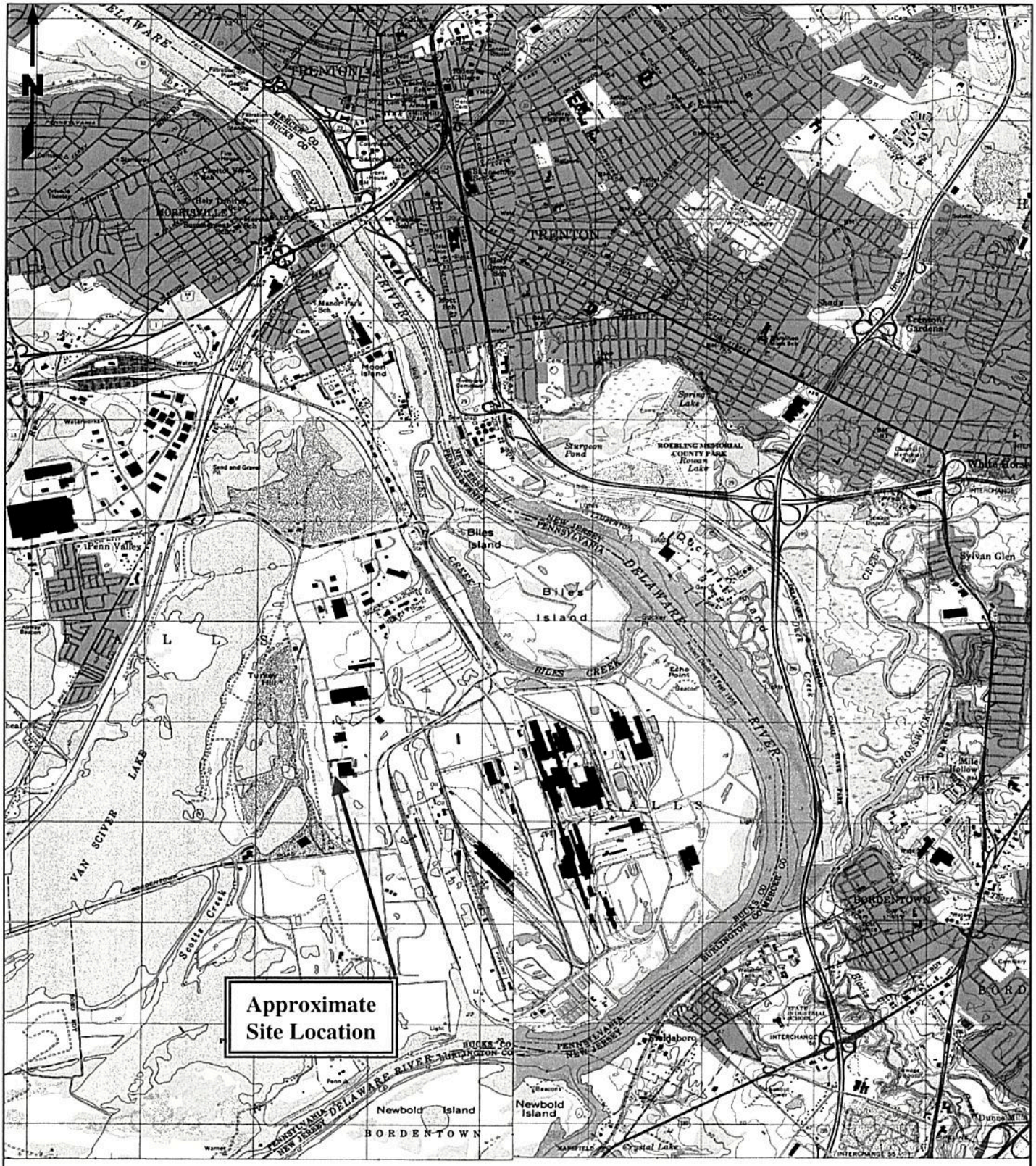
Contaminants of Concern for Residential Use at former National Can Corp.

Benzo (a) pyrene

Dibenzo (a,h)anthracene

Aroclor 1254

Figure 1



Ref. USGS Trenton East and Trenton West, NJ Quadrangles

LANGAN
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Site Location Plan

Proposed Samax 14.2-Acre Parcel
U.S. Steel - Keystone Industrial Port Complex

Fairless Hills Pennsylvania

Job No. 2644301	Date 11-27-07	1"≈ 4,000'	Fig. 1

Table 1

Table 1
Summary of Test Pit Excavation Activities
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

ID	DATE	LOCATION	TOTAL DEPTH (ft bgs)	DEPTH TO GW (ft bgs)	DEPTH OF SOIL SAMPLES COLLECTED (ft bgs)	DEPTH AND DESCRIPTION OF FILL (ft bgs)	FIELD SCREENING/OBSERVATIONS/PID READINGS	ADDITIONAL COMMENTS
STP-1	10/30/2007	Southwestern portion of the Site in the former UST excavation	10.50	NE	1.5 -2.0 & 10.0 -10.5	Topsoil was encountered from 0.0 to 0.5 feet bgs. Fill material consisting of dark grey sub-angular gravel, some brown fine to medium sand grading into a brown silty fine sand, some rounded gravel, trace plastic, and angular road gravel to a completion depth of 10.5 feet bgs.	Topsoil was encountered from 0.0 to 0.5 feet bgs. Fill material consisting of dark grey sub-angular gravel, some brown fine to medium sand grading into a brown silty fine sand, some rounded gravel, trace plastic, and angular road gravel to a completion depth of 10.5 feet bgs. No evidence of groundwater was observed. Soil samples for laboratory analysis were collected from test pit STP-1 at depths of 1.5 to 2.0 ft bgs (fill) and 10.0 to 10.5 ft bgs. Registered PID readings ranged from zero ppm to 67.8 ppm (max 67.8 ppm @ 10.5 feet bgs).	Metal strap noted at 5.0 feet bgs. Terminated test pit at 10.5 feet bgs because of refusal (concrete).
STP-2	10/30/2007	Northwestern portion of the Site adjacent to the front septic system	13.00	11.00	1.5-2.0 & 10.5-11.0	(0.0-3.0) Asphalt, road gravel, and slag was noted from 0.0 to 0.5 feet bgs. Brown silty fine to medium sand and rounded gravel was observed from 0.5 to 3.0 feet bgs.	Asphalt, road gravel, and slag was noted from 0.0 to 0.5 feet bgs. Fill material consisting of brown silty fine to medium sand and rounded gravel was observed from 0.5 to 3.0 feet bgs. Brown fine to medium sand, trace rounded gravel and cobbles was observed from 3.0 to a completion depth of 13.0 feet bgs. Evidence of groundwater was observed at 11.0 feet bgs. No PID readings greater than 0.0 ppm were observed. Soil samples for laboratory analysis were collected from test pit STP-2 at depths of 1.5 to 2.0 feet bgs (fill) and 10.5 to 11.0 feet bgs (soil/water interface). The test pit collapsed in the sand and cobble unit and was terminated at approximately 13.0 feet bgs.	Evidence of groundwater was observed at 11.0 feet bgs.
STP-3	10/30/2007	Northwestern portion of the Site adjacent to the front septic system	12.00	11.00	1.5-2.0 & 10.5-11.0	(0.0-2.5) Asphalt and slag were noted from 0.0 to 0.5 feet bgs. Fill material consisting of brown silty fine sand and trace rounded gravel was encountered from 0.5 to 2.5 feet bgs.	Asphalt and slag were noted from 0.0 to 0.5 feet bgs. Fill material consisting of brown silty fine sand and trace rounded gravel was encountered from 0.5 to 2.0 feet bgs. Brown fine to medium sand with some rounded cobbles was observed from 2.0 to 11.0 feet bgs. Evidence of groundwater was observed at 11.0 ft bgs. No PID readings greater then 0.0 ppm were observed. Soil samples for laboratory analysis were collected from test pit STP-3 at depths of 1.5 to 2.0 feet bgs (fill) and 10.5 to 11.0 feet bgs (soil/water interface). The test pit collapsed in the sand and cobble unit and was terminated at approximately 12.0 feet bgs.	Evidence of groundwater was observed at 11.0 feet bgs.
STP-4	10/30/2007	North side of the former National Can Warehouse	14.00	12.00	1.5-2.0 & 11.5-12.0	(0.0-3.0) Topsoil was encountered from 0.0 to 0.5 feet bgs. Fill material consisting of brown silty fine sand, trace slag and rounded gravel was encountered from 0.5 to 4.0 feet bgs.	Topsoil was encountered from 0.0 to 0.5 feet bgs. Fill material consisting of brown silty fine sand, trace slag and rounded gravel was encountered from 0.5 to 4.0 feet bgs. Dark grey silt, trace fine sand was noted from 4.0 to 5.0 feet bgs. Below the silt was a brown silty fine sand with trace rounded gravel from 5.0 to 12.0 feet bgs. Evidence of groundwater was observed at 12.0 feet bgs. No PID readings greater than 0.0 ppm were observed. Soil samples for laboratory analysis were collected from test pit STP-4 at depths of 1.5 to 2.0 feet bgs (fill) and 11.5 to 12.0 feet bgs (soil/water interface). The test pit collapsed in the sand and gravel unit and was terminated at approximately 14.0 feet bgs.	Evidence of groundwater was observed at 12.0 feet bgs.
STP-5	10/31/2007	Northeast portion of the site (BP-21)	14.00	11.00	1.5-2.0 & 10.5-11.0	(0.0-4.0) Topsoil was encountered from 0.0 to 0.5 feet bgs. Fill material consisting of brown fine to medium sand, some rounded gravel, trace silt and slag was encountered from 0.5 to 4.0 feet bgs.	Topsoil was encountered from 0.0 to 0.5 feet bgs. Fill material consisting of brown fine to medium sand, some rounded gravel, trace silt and slag was encountered from 0.5 to 4.0 feet bgs. Beneath the fill material was brown fine to medium sand, some rounded gravel, and trace silt from 4.0 to 8.0 feet bgs. Beneath the sand was a brown silty fine sand, some rounded gravel was observed from 8.0 to 10.0 feet bgs. A six-inch lens of grey silt was noted from 10.0 to 10.5 feet bgs. Below the silt lens was a brown fine to medium sand, some rounded gravel from 10.5 to 14.0 feet bgs. Evidence of groundwater was observed at 11.0 feet bgs. No PID readings greater than 0.0 ppm were observed. Soil samples for laboratory analysis were collected from test pit STP-5 at depths of 1.5 to 2.0 feet bgs (fill) and 10.5 to 11.0 feet bgs. (soil/water interface). The test pit collapsed in the sand and gravel unit and was terminated at approximately 14.0 feet bgs.	Evidence of groundwater was observed at 11.0 feet bgs.
STP-6	10/31/2007	Eastern portion of the Site (BP-21)	10.00	8.00	1.5-2.0 &7.5-8.0	(0.0-6.0) Topsoil was encountered from 0.0 to 0.5 feet bgs. Fill material consisting of brown fine to medium sand, some rounded gravel were observed from 0.5 to 6.0 feet bgs	Topsoil was encountered from 0.0 to 0.5 feet bgs. Fill material consisting of brown fine to medium sand, some rounded gravel were observed from 0.5 to 6.0 feet bgs. Below the fill was dark grey silt, some clay, and trace rounded gravel from 6.0 to 8.0 feet bgs. Evidence of groundwater was observed at 8.0 feet bgs. No PID readings greater than 0.0 ppm were observed. Soil samples for laboratory analysis were collected from test pit STP-6 at depths of 1.5 to 2.0 feet bgs (fill) and 7.5 to 8.0 feet bgs (soil/water interface). The test pit collapsed and was terminated at approximately 10.0 feet bgs.	Evidence of groundwater was observed at 8.0 feet bgs.
STP-7	10/31/2007	Eastern portion of the Site (BP-21)	6.00	4.00	1.5-2.0 3.5-4.0	(0.0-3.0) Topsoil was encountered from 0.0 to 0.5 feet bgs. Fill material consisting of brown fine to medium sand, some rounded gravel, trace silt was observed from 0.5 to 3.0 feet bgs.	Topsoil was encountered from 0.0 to 0.5 feet bgs. Fill material consisting of brown fine to medium sand, some rounded gravel, trace silt was observed from 0.5 to 3.0 feet bgs. A dark grey silt lens was noted from 3.0 to 3.5 feet bgs. Beneath the silt was brown fine to medium sand, some rounded gravel that was observed from 3.5 to 4.0 feet bgs. Beneath the sand was gravel with some fine to medium sand from 4.0 to 6.0 feet bgs. Evidence of groundwater was observed at 4.0 ft bgs. No PID readings greater than 0.0 ppm were observed. Soil samples for laboratory analysis were collected from test pit STP-7 at depths of 1.5 to 2.0 ft bgs (fill) and 3.5 to 4.0 ft bgs (soil/water interface). The test pit collapsed in the gravel unit and was terminated at approximately 6.0 feet bgs.	Evidence of groundwater was observed at 4.0 feet bgs.
STP-8	10/31/2007	Eastern portion of the Site (BP-21) adjacent to rear septic field	8.00	5.00	1.5-2.0 & 4.5-5.0	(0.0-4.0) Topsoil and debris (paper, scrap metal and wood) were encountered from 0.0 to 0.5 ft bgs. Fill materials consisting of brown fine to medium sand, trace silt was observed from 0.5 to 4.0 feet bgs.	Topsoil and debris (paper, scrap metal and wood) were encountered from 0.0 to 0.5 ft bgs. Fill materials consisting of brown fine to medium sand, trace silt was observed from 0.5 to 4.0 feet bgs. A dark grey silt lens was observed from 4.0 to 4.5 feet bgs. Gravel and some fine to medium sand was observed from 4.5 to 8.0 feet bgs. Evidence of groundwater was observed at 5.0 feet bgs. No PID readings greater than 0.0 ppm were observed. Soil samples for laboratory analysis were collected from test pit STP-8 at depths of 1.5 to 2.0 feet bgs (fill) and 4.5 to 5.0 feet bgs (soil/water interface). The test pit collapsed in the gravel unit and was terminated at approximately 8.0 feet bgs.	Evidence of groundwater was observed at 5.0 feet bgs.
STP-9	10/31/2007	Southeastern portion of the Site (BP-21)	10.00	6.00	1.5-2.0 & 5.5-6.0	(0.0-5.5) Topsoil was encountered from 0.0 to 0.5 feet bgs. Fill material consisting of brown fine to medium sand and trace silt was observed from 0.5 to 5.5 feet bgs.	Topsoil was encountered from 0.0 to 0.5 feet bgs. Fill material consisting of brown fine to medium sand and trace silt was observed from 0.5 to 5.5 feet bgs. A dark grey silt lens was observed from 5.5 to 6.0 feet bgs. Gravel with some fine to medium sand was observed from 6.0 to 10.0 feet bgs. Evidence of groundwater was observed at 6.0 ft bgs. No PID readings greater than 0.0 ppm were observed. Soil samples for laboratory analysis were collected from test pit STP-9 at depths of 1.5 to 2.0 feet bgs (fill) and 5.5 to 6.0 feet bgs (soil/water interface). The test pit collapsed in the gravel unit and was terminated at approximately 10.0 feet bgs.	Evidence of groundwater was observed at 6.0 feet bgs.
STP-10	10/31/2007	South portion of the Site (BP-21)	14.00	13.00	1.5-2.0 12.5-13.0	(0.0-9.0) Topsoil was encountered from 0.0 to 1.0 feet bgs. Fill material consisting of brown to black fine to medium sand, some silt, and trace rounded gravel was observed from 1.0 to 9.0 feet bgs.	Topsoil was encountered from 0.0 to 1.0 feet bgs. Fill material consisting of brown to black fine to medium sand, some silt, and trace rounded gravel was observed from 1.0 to 9.0 feet bgs. Below the sand was dark grey silt, some clay, and trace fine sand from 9.0 to 13.0 feet bgs. Beneath the silt, gravel and some fine to medium sand was observed from 13.0 to 14.0 feet bgs. Evidence of groundwater was observed at 13.0 ft bgs. No PID readings greater than 0.0 ppm were observed. Soil samples for laboratory analysis were collected from test pit STP-10 at depths of 1.5 to 2.0 ft bgs (fill) and 12.5 to 13.0 ft bgs (soil/water interface). The test pit collapsed in the gravel unit and was terminated at approximately 14.0 feet bgs.	Evidence of groundwater was observed at 13.0 feet bgs.
STP-11	11/1/2007	Soum portion of the Site (BP-21)	15.00	14.50	1.5-2.0 7.5-8.0	(0.0-6.5) Topsoil was encountered from 0.0 to 1.0 feet bgs. Fill material consisting of brown fine to medium sand, some silt, and trace rounded gravel was observed from 1.0 to 6.5 feet bgs.	Topsoil was encountered from 0.0 to 1.0 feet bgs. Fill material consisting of brown fine to medium sand, some silt, and trace rounded gravel was observed from 1.0 to 6.5 feet bgs. Below the fill was a grey silty clay, trace rounded gravel and fine sand from 6.5 to 16.0 feet bgs. Brown silty fine sand and some rounded gravel was noted from 10.0 to 15 feet bgs. Evidence of groundwater was observed at 14.5 ft bgs. Registered PID readings ranged from zero ppm to 37.6 ppm (max 37.6 ppm @ 8.0 feet bgs). Soil samples for laboratory analysis were collected from test pit STP-11 at depths of 1.5 to 2.0 ft bgs (fill) and 7.5 to 8.0 ft bgs (highest PID reading). The test pit collapsed in the gravel unit and was terminated at approximately 15.0 feet bgs.	Evidence of groundwater was observed at 14.5 feet bgs.
STP-12	11/1/2007	Southwestern porsion of the Site adjacent to the former outside drum storage area	10.00	8.50	1.5-2.0 & 7.5-8.0	(0.0-7.0) Topsoil was encountered from 0.0 to 1.0 feet bgs. Fill material consisting of brown fine to medium sand, some silt, and trace rounded gravel was observed from 1.0 to 7.0 feet bgs.	Topsoil was encountered from 0.0 to 1.0 feet bgs. Fill material consisting of brown fine to medium sand, some silt, and trace rounded gravel was observed from 1.0 to 7.0 feet bgs. Below the fill was a stained grey fine to medium sand, some soil and rounded gravel from 7.0 to 9.5 feet bgs. Beneath the sand was gravel with some fine to medium sand from 9.5 to 10.0 feet bgs. Evidence of groundwater was observed at 8.0 ft bgs. Registered PID readings ranged from zero ppm to 1863 ppm (max 1,863 ppm @ 7.5 feet bgs). Soil samples for laboratory analysis were collected from test pit STP-12 at depths of 1.5 to 2.0 feet bgs (fill) and 7.5 to 8.0 feet bgs (highest PID reading). The test pit collapsed in the gravel unit and was terminated at approximately 10.0 feet bgs.	Evidence of groundwater was observed at 8 feet bgs.
STP-13	11/1/2007	Southwestern portion of the Site in the former UST excavation	10.00	NE	1.5 -2.0 & 10.0 -10.5	(0.0-10.5) Fill material consisting of a dark grey sub-angular road gravel, some fine to medium sand that graded into a brown silty fine to medium sand, some rounded gravels and cobbles was observed to a completion depth of 10.5 feet bgs.	Fill material consisting of a dark grey sub-angular road gravel, some fine to medium sand that graded into a brown silty fine to medium sand, some rounded gravels and cobbles was observed to a completion depth of 10.5 feet bgs. Evidence of groundwater was not observed. Registered PID readings ranged from 0.0 ppm to 1.3 ppm (max 1.3 ppm @ 2.0 feet bgs). Soil samples for laboratory analysis were collected from test pit STP-13 at depths of 1.5 to 2.0 feet bgs (fill, highest PID hit) and 9.5 to 10.0 feet bgs (bottom of test pit). The test pit was terminated at 10.0 feet bgs because of excavator refusal (concrete).	Terminated test pit at 10.0 feet bgs because of excavator refusal (concrete).
STP-14	11/1/2007	Southwestern portion of the Site adjacent to the former outside drum storage area and the former waste solvent tank	14.00	12.00	1.5-2.0 & 11.5-12.0	(0.0-7.0) Topsoil was encountered from 0.0 to 0.5 feet bgs. Fill material consisting of brown silty fine sand, trace slag and rounded gravel was observed from 0.5 to 7.0 feet bgs.	Topsoil was encountered from 0.0 to 0.5 feet bgs. Fill material consisting of brown silty fine sand, trace slag and rounded gravel was observed from 0.5 to 7.0 feet bgs. Below the fill was a brown fine to medium sand, some rounded gravel from 7.0 to 14.0 feet bgs. Evidence of groundwater was observed at 12.0 ft bgs. No PID readings greater than 0 ppm were observed. Soil samples for laboratory analysis were collected from test pit STP-14 at depths of 1.5 to 2.0 feet bgs (fill) and 11.5 to 12.0 feet bgs (soil/water interface). The test pit collapsed in the sand and gravel unit and was terminated at approximately 14.0 feet bgs.	Evidence of groundwater was observed at 12 feet bgs and a 1-inch diameter steel rod was noted at 7 bgs.
STP-15	11/1/2007	Southwestern portion of the Site adjacent to the roof drain outfall (leaching pit)	12.00	9.00	1.5-2.0 & 8.5-9.0	(0.0-8.0) Topsoil was encountered from 0.0 to 1.0 feet bgs. Fill material consisting of brown fine to medium sand and rounded gravel was observed from 1.0 to 8.0 feet bgs.	Topsoil was encountered from 0.0 to 1.0 feet bgs. Fill material consisting of brown fine to medium sand and rounded gravel was observed from 1.0 to 8.0 feet bgs. Brown fine sand was observed from 8.0 to 12.0 feet bgs. Evidence of groundwater was observed at 9.0 ft bgs. No PID readings greater than 0 ppm were observed. Soil samples for laboratory analysis were collected from test pit STP-15 at depths of 1.5 to 2.0 feet bgs (fill) and 8.5 to 9.0 feet bgs (soil/water interface). The test pit collapsed in the sand unit and was terminated at approximately 12.0 feet bgs.	Evidence of groundwater was observed at 9 feet bgs.

Notes:
bgs – Below Ground Surface
ppm – Parts Per Million
PID – Photo Ionization Detector (readings in ppm)
STP – Test Pit (Advanced by Trackhoe Excavator)

Table 2
Summary of Soil Analytical Results
Comparison to Pennsylvania Non-Residential Statewide Health Direct Contact Soil MSCs
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC		Location ID	STP-1			STP-1			STP-2			STP-2			STP-3			STP-3			STP-3			STP-4			STP-4		
				Sample ID	001-STP-1_1.5-2.0			002-STP-1_10-10.5			005-STP-2_1.5-2.0			006-STP-2_10.5-11.0			008-STP-3_1.5-2.0			009-DUP-1-103007			010-STP-3_10.5-11			014-STP-4_1.5-2.0			015-STP-4_11.5-12		
				Sample Date	10/30/07			10/30/07			10/30/07			10/30/07			10/30/07			10/30/07			10/30/07			10/31/07			10/31/07		
				Depth to GW	NA			NA			11.00			11.00			11.00			11.00			11.00			11.00			11.00		
		0-2 ft Surface Soil	2-15 ft Sub-Surface Soil	Start Depth (ft)	1.50			10.00			1.50			10.50			1.50			1.50			10.50			1.50			11.50		
				End Depth (ft)	2.00			10.50			2.00			11.00			2.00			2.00			11.00			2.00			12.00		
TCL Volatiles				Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Acetone	67-64-1	10,000,000	10,000,000	ug/kg	ND		26	ND		22	ND		23	ND		23	ND		22	ND		23	ND		19	ND		20	ND		26
Benzene	71-43-2	210,000	240,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
Bromodichloromethane	75-27-4	45,000	51,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
Bromoform	75-25-2	1,500,000	1,700,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
Bromomethane	74-83-9	270,000	300,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
2-Butanone	78-93-3	10,000,000	10,000,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
Carbon Disulfide	75-15-0	10,000,000	10,000,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	4	J	5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
Carbon Tetrachloride	56-23-5	110,000	120,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
Chlorobenzene	108-90-7	10,000,000	10,000,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
Chloroethane	75-00-3	10,000,000	10,000,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
Chloroform	67-66-3	17,000	19,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
Chloromethane	74-87-3	920,000	1,000,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
Isopropylbenzene	98-82-8	10,000,000	10,000,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
Cyclohexane	110-82-7	100,000	100,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
1,2-Dibromoethane	106-93-4	930	8,600	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
1,2-Dibromo-3-chloropropane	96-12-8	11,000	12,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
Dibromochloromethane	124-48-1	61,000	70,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
1,4-Dichlorobenzene	106-46-7	3,300,000	190,000,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
1,2-Dichlorobenzene	95-50-1	10,000,000	10,000,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
1,3-Dichlorobenzene	541-73-1	10,000,000	10,000,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
Dichlorodifluoromethane	75-71-8	10,000,000	10,000,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
1,1-Dichloroethane	75-34-3	1,000,000	1,200,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
1,2-Dichloroethane	107-06-2	63,000	73,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
trans-1,2-Dichloroethene	156-60-5	3,700,000	4,300,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
cis-1,2-Dichloroethene	156-59-2	1,900,000	2,100,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
1,1-Dichloroethene	75-35-4	33,000	38,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
1,2-Dichloropropane	78-87-5	160,000	180,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
trans-1,3-Dichloropropene	10061-02-6	410,000	470,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
cis-1,3-Dichloropropene	10061-01-5	410,000	470,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
Ethylbenzene	100-41-4	10,000,000	10,000,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
2-Hexanone	591-78-6	100,000	100,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
Methyl Acetate	79-20-9	10,000,000	10,000,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
Methyl tert-Butyl Ether	1634-04-4	3,200,000	3,700,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
4-Methyl-2-pentanone	108-10-1	4,300,000	4,900,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
Methylcyclohexane	108-87-2	NS	NS	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
Methylene Chloride	75-09-2	3,500,000	4,000,000	ug/kg	1.8	J B	6.5	1.9	J B	5.5	2.5	J B	5.6	2.6	J B	5.9	1.7	J	5.6	1.3	J	5.7	1	J	4.7	1.6	J	5.1	2.1	J B	6.4
Styrene	100-42-5	1,000,000	1,000,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
1,1,2,2-Tetrachloroethane	79-34-5	28,000	33,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
Tetrachloroethene	127-18-4	1,500,000	3,300,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
Toluene	108-88-3	10,000,000	10,000,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
Xylenes (Total)	1330-20-7	10,000,000	10,000,000	ug/kg	ND		19	ND		16	ND		17	ND		18	ND		17	ND		17	ND		14	ND		15	ND		19
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	190,000,000	190,000,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
1,2,4-Trichlorobenzene	120-82-1	10,000,000	10,000,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
1,1,1-Trichloroethane	71-55-6	10,000,000	10,000,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
1,1,2-Trichloroethane	79-00-5	100,000	120,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
Trichloroethene	79-01-6	970,000	1,100,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
Trichlorofluoromethane	75-69-4	10,000,000	10,000,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4
Vinyl Chloride	75-01-4	53,000	220,000	ug/kg	ND		6.5	ND		5.5	ND		5.6	ND		5.9	ND		5.6	ND		5.7	ND		4.7	ND		5.1	ND		6.4

Table 2
Summary of Soil Analytical Results
Comparison to Pennsylvania Non-Residential Statewide Health Direct Contact Soil MSCs
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC		Location ID	STP-1			STP-1			STP-2			STP-2			STP-3			STP-3			STP-3			STP-4			STP-4		
				Sample ID	001-STP-1_1.5-2.0			002-STP-1_10-10.5			005-STP-2_1.5-2.0			006-STP-2_10.5-11.0			008-STP-3_1.5-2.0			009-DUP-1-103007			010-STP-3_10.5-11			014-STP-4_1.5-2.0			015-STP-4_11.5-12		
				Sample Date	10/30/07			10/30/07			10/30/07			10/30/07			10/30/07			10/30/07			10/30/07			10/31/07			10/31/07		
				Depth to GW	NA			NA			11.00			11.00			11.00			11.00			11.00			11.00			11.00		
		0-2 ft Surface Soil	2-15 ft Sub-Surface Soil	Start Depth (ft)	1.50			10.00			1.50			10.50			1.50			1.50			10.50			1.50			11.50		
				End Depth (ft)	2.00			10.50			2.00			11.00			2.00			2.00			11.00			2.00			12.00		
TCL Semivolatiles				Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Acenaphthene	83-32-9	170,000,000	190,000,000	ug/kg	ND		6.9	13		7.9	35		23	ND		7.3	ND		7.8	ND		7.9	6.1	J	7.5	ND		7.2	ND		7.9
Acenaphthylene	208-96-8	170,000,000	190,000,000	ug/kg	ND		6.9	3.5	J	7.9	17	J	23	ND		7.3	ND		7.8	ND		7.9	6.5	J	7.5	ND		7.2	ND		7.9
Acetophenone	98-86-2	10,000,000	10,000,000	ug/kg	ND		34	ND		39	ND		110	ND		36	ND		39	ND		39	ND		37	3.2	J	36	3	J	39
Anthracene	120-12-7	190,000,000	190,000,000	ug/kg	2.1	J	6.9	5.4	J	7.9	94		23	ND		7.3	ND		7.8	ND		7.9	16		7.5	ND		7.2	ND		7.9
Atrazine[1]	1912-24-9	360,000	190,000,000	ug/kg	ND		34	ND		39	ND		110	ND		36	ND		39	ND		39	ND		37	ND		36	ND		39
Benzaldehyde	100-52-7	NS	NS	ug/kg	ND		34	ND		39	ND		110	ND		36	ND		39	ND		39	ND		37	ND		36	ND		39
Benzo(a)anthracene	56-55-3	110,000	190,000,000	ug/kg	13		6.9	21		7.9	410		23	ND		7.3	ND		7.8	ND		7.9	74		7.5	1.8	J	7.2	ND		7.9
Benzo(a)pyrene	50-32-8	11,000	190,000,000	ug/kg	15		6.9	23		7.9	410		23	ND		7.3	1.3	J	7.8	1.6	J	7.9	99		7.5	2.1	J	7.2	ND		7.9
Benzo(b)fluoranthene	205-99-2	110,000	190,000,000	ug/kg	23		6.9	34		7.9	550		23	ND		7.3	2.2	J	7.8	ND		7.9	140		7.5	ND		7.2	ND		7.9
Benzo(g,h,i)perylene	191-24-2	170,000,000	190,000,000	ug/kg	12		6.9	12		7.9	300		23	ND		7.3	ND		7.8	1.4	J	7.9	86		7.5	ND		7.2	ND		7.9
Benzo(k)fluoranthene	207-08-9	1,100,000	190,000,000	ug/kg	6.5	J	6.9	11		7.9	190		23	ND		7.3	ND		7.8	ND		7.9	56		7.5	ND		7.2	ND		7.9
1,1'-Biphenyl	92-52-4	140,000,000	190,000,000	ug/kg	3.1	J	34	ND		39	ND		110	ND		36	ND		39	ND		39	ND		37	ND		36	ND		39
bis(2-Chloroethoxy) methane[2]	111-91-1	100,000	100,000	ug/kg	ND		34	ND		39	ND		110	ND		36	ND		39	ND		39	ND		37	ND		36	ND		39
bis(2-Chloroethyl) ether	111-44-4	5,000	5,700	ug/kg	ND		6.9	ND		7.9	ND		23	ND		7.3	ND		7.8	ND		7.9	ND		7.5	ND		7.2	ND		7.9
2,2'-oxybis(1-Chloropropane)	108-60-1	160,000	190,000	ug/kg	ND		6.9	ND		7.9	ND		23	ND		7.3	ND		7.8	ND		7.9	ND		7.5	ND		7.2	ND		7.9
bis (2 Ethylhexyl)phthalate	117-81-7	5,700,000	10,000,000	ug/kg	7.6	J	34	ND		39	ND		110	7.7	J	36	10	J	39	13	J	39	ND		37	5	J	36	ND		39
4-Bromophenyl-phenylether[2]	101-55-3	100,000	100,000	ug/kg	ND		34	ND		39	ND		110	ND		36	ND		39	ND		39	ND		37	ND		36	ND		39
Butylbenzylphthalate	85-68-7	10,000,000	10,000,000	ug/kg	7.6	J	34	9	J	39	ND		110	ND		36	ND		39	ND		39	ND		37	3.8	J	36	6.2	J	39
Caprolactam	105-60-2	NS	NS	ug/kg	38		34	56		39	ND		110	37		36	40		39	55		39	34	J	37	10	J	36	13	J	39
Carbazole	86-74-8	4,000,000	190,000,000	ug/kg	2.2	J	6.9	5.2	J	7.9	95		23	ND		7.3	ND		7.8	ND		7.9	16		7.5	ND		7.2	ND		7.9
4-Chloro-3-methylphenol	59-50-7	14,000,000	190,000,000	ug/kg	ND		34	ND		39	ND		110	ND		36	ND		39	ND		39	ND		37	ND		36	ND		39
4-Chloroaniline	106-47-8	11,000,000	190,000,000	ug/kg	ND		34	ND		39	ND		110	ND		36	ND		39	ND		39	ND		37	ND		36	ND		39
2-Chloronaphthalene	91-58-7	190,000,000	190,000,000	ug/kg	ND		6.9	ND		7.9	ND		23	ND		7.3	ND		7.8	ND		7.9	ND		7.5	ND		7.2	ND		7.9
2-Chlorophenol	95-57-8	920,000	1,100,000	ug/kg	ND		34	ND		39	ND		110	ND		36	ND		39	ND		39	ND		37	ND		36	ND		39
4-Chlorophenyl-phenylether[2]	7005-72-3	100,000	100,000	ug/kg	ND		34	ND		39	ND		110	ND		36	ND		39	ND		39	ND		37	ND		36	ND		39
Chrysene	218-01-9	11,000,000	150,000,000	ug/kg	18		6.9	25		7.9	450		23	ND		7.3	ND		7.8	ND		7.9	100		7.5	2.4	J	7.2	ND		7.9
2-Methylphenol	95-48-7	10,000,000	10,000,000	ug/kg	ND		34	ND		39	ND		110	ND		36	ND		39	ND		39	ND		37	ND		36	ND		39
4-Methylphenol	106-44-5	14,000,000	190,000,000	ug/kg	ND		34	ND		39	ND		110	ND		36	ND		39	ND		39	ND		37	ND		36	ND		39
Dibenzo(a,h)anthracene	53-70-3	11,000	190,000,000	ug/kg	ND		6.9	4	J	7.9	68		23	ND		7.3	ND		7.8	ND		7.9	17		7.5	ND		7.2	ND		7.9
Dibenzofuran[2]	132-64-9	100,000	100,000	ug/kg	2.3	J	34	5.6	J	39	21	J	110	2	J	36	ND		39	2.1	J	39	4.5	J	37	ND		36	ND		39
3,3'-Dichlorobenzidine	91-94-1	180,000	190,000,000	ug/kg	ND		34	ND		39	ND		110	ND		36	ND		39	ND		39	ND		37	ND		36	ND		39
2,4-Dichlorophenol	120-83-2	8,400,000	190,000,000	ug/kg	ND		6.9	ND		7.9	ND		23	ND		7.3	ND		7.8	ND		7.9	ND		7.5	ND		7.2	ND		7.9
Diethylphthalate	84-66-2	10,000,000	10,000,000	ug/kg	ND		34	4.4	J	39	ND		110	ND		36	ND		39	ND		39	ND		37	ND		36	ND		39
2,4-Dimethylphenol	105-67-9	10,000,000	10,000,000	ug/kg	ND		34	ND		39	ND		110	ND		36	ND		39	ND		39	ND		37	ND		36	ND		39
Dimethylphthalate[2]	131-11-3	100,000	100,000	ug/kg	ND		34	ND		39	ND		110	ND		36	ND		39	ND		39	ND		37	ND		36	ND		39
Di-n-butylphthalate	84-74-2	10,000,000	10,000,000	ug/kg	16	J	34	19	J	39	ND		110	17	J	36	17	J	39	21	J	39	16	J	37	ND		36	ND		39
4,6-Dinitro-2-methylphenol[2,4]	534-52-1	100,000	100,000	ug/kg	ND		180	ND		200	ND		590	ND		180	ND		200	ND		200	ND		190	ND		180	ND		200
2,4 Dinitrophenol	51-28-5	5,600,000	190,000,000	ug/kg	ND		180	ND		200	ND		590	ND		180	ND		200	ND		200	ND		190	ND		180	ND		200
2,4-Dinitrotoluene	121-14-2	260,000	190,000,000	ug/kg	ND		34	ND		39	ND		110	ND		36	ND		39	ND		39	ND		37	ND		36	ND		39
2,6-Dinitrotoluene	606-20-2	2,800,000	190,000,000	ug/kg	ND		34	ND		39	ND		110	ND		36	ND		39	ND		39	ND		37	ND		36	ND		39
Fluoranthene	206-44-0	110,000,000	190,000,000	ug/kg	37		6.9	21		7.9	1300		23	ND		7.3	2.7	J	7.8	3.2	J	7.9	260		7.5	4.4	J	7.2	ND		7.9
Fluorene	86-73-7	110,000,000	190,000,000	ug/kg	2.3	J	6.9	9.6		7.9	34		23	ND		7.3	ND		7.8	ND		7.9	6.3	J	7.5	ND		7.2	ND		7.9
Hexachlorobenzene	118-74-1	50,000	190,000,000	ug/kg	ND		6.9	ND		7.9	ND		23	ND		7.3	ND		7.8	ND		7.9	ND		7.5	ND		7.2	ND		7.9
Hexachlorobutadiene	87-68-3	560,000	10,000,000	ug/kg	ND		6.9	ND		7.9	ND		23	ND		7.3	ND		7.8	ND		7.9	ND		7.5	ND		7.2	ND		7.9
Hexachlorocyclopentadiene	77-47-4	10,000,000	10,000,000	ug/kg	ND		34	ND		39	ND		110	ND		36	ND		39	ND		39	ND		37	ND		36	ND		39
Hexachloroethane	67-72-1	2,800,000	190,000,000	ug/kg	ND		34	ND		39	ND		110	ND		36	ND		39	ND		39	ND		37	ND		36	ND		39
Indeno(1,2,3-cd)pyrene	193-39-5	110,000	190,000,000	ug/kg	10		6.9	11		7.9	270		23	ND		7.3	ND		7.8	ND		7.9	77		7.5	ND		7.2	ND		7.9
Isophorone	78-59-1	10,000,000	10,000,000	ug/kg	ND		34	ND		39	ND		110	ND		36	ND		39	ND		39	ND		37	ND		36	ND		39
2-Methylnaphthalene	91-57-6	10,000,000	10,000,000	ug/kg	2.3	J	6.9	ND		7.9	ND		23	ND		7.3	ND		7.8	ND		7.9	ND		7.5	ND		7.2	ND		7.9
Naphthalene	91-20-3	56,000,000	190,000,000	ug/kg	4.5	J	6.9	12		7.9	8.1	J	23	ND		7.3	ND		7.8	ND		7.9	3.3	J	7.5	1.9	J	7.2	ND		7.9
2-Nitroaniline[2]	88-74-4	160,000	190,000,000	ug/kg	ND		180	ND		200	ND		590	ND		180	ND		200	ND		200	ND		190	ND		180	ND		200
3-Nitroaniline[2]	99-09-2	160,000	190,000,000	ug/kg	ND		180	ND		200	ND		590	ND		180	ND		200	ND		200	ND		190	ND		180	ND		200
4-Nitroaniline[2]	100-01-6	160,000	190,000,000	ug/kg	ND		180	ND		200	ND		590	ND		180	ND		200	ND		200	ND		190	ND		180	ND		200
Nitrobenzene	98-95-3	1,400,000	10,000,000	ug/kg	ND		6.9	ND		7.9	ND		23	ND		7.3	ND		7.8	ND		7.9	ND		7.5	ND		7.2	ND		7.9
2-Nitrophenol	88-75-5	22,000,000	190,000,000	ug/kg	ND		34	ND		39	ND		110	ND		36	ND		39	ND		39	ND		37	ND		36	ND		39
4-Nitrophenol	100-02-7	22,000,000	190,000,000	ug/kg	ND		180	ND		200	ND		590	ND		180	ND		200	ND		200	ND		190	ND		180	ND		200
N-Nitrosodi-n-propylamine	621-64-7	11,000	10,000,000	ug/kg	ND		6.9	ND		7.9	ND		23	ND		7.3	ND		7.8	ND		7.9	ND		7.5	ND		7.2	ND		7.9
N-Nitrosodiphenylamine	86-30-6	10,000,000	10,000,000	ug/kg	ND		6.9	ND		7.9	ND		23	ND		7.3	ND		7.8	ND		7.9	ND		7.5	ND		7.2	ND		7.9
Di-n-octylphthalate	117-84-0	10,000,000	10,000,000	ug/kg	ND		34	ND		39	ND		110	ND		36	ND		39	ND		39	ND		37	ND		36	ND		39
Pentachlorophenol	87-86-5	660,000	190,000,000	ug/kg	ND		34	ND		39	ND		110	ND		36	ND		39	ND		39	ND		37	ND		36	ND		39
Phenanthrene	85-01-8	190,000,000	190,000,000	ug/kg	23		6.9	16		7.9	680		23	3.2	J	7.3	3.3	J	7.8	4.5	J	7.9	110		7.5	4.6	J	7.2	3.2	J	7.9
Phenol	108-95-2	190,000,000	190,000,000	ug/kg	ND		6.9	ND		7.9	ND		23	ND		7.3	ND		7.8	ND		7.9	ND		7.5	ND		7.2	ND		7.9
Pyrene	129-00-0	84,000,000	190,000,000	ug/kg	30		6.9	21		7.9	870		23	ND		7.3	ND		7.8	2.5	J	7.9	170		7.5	3.9	J	7.2	ND		7.9
2,4,5-Trichlorophenol	95-95-4	190,000,000	190,000,000	ug/kg	ND		34	ND		39	ND		110	ND		36	ND		39	ND		39	ND		37	ND		36	ND		39
2,4,6-Trichlorophenol	88-06-2	840,000	190,000,000	ug/kg	ND		34	ND		39	ND		110	ND		36	ND		39	ND		39	ND		37	ND		36	ND		39

Table 2
Summary of Soil Analytical Results
Comparison to Pennsylvania Non-Residential Statewide Health Direct Contact Soil MSCs
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC		Location ID	STP-1			STP-1			STP-2			STP-2			STP-3			STP-3			STP-3			STP-4			STP-4		
				Sample ID	001-STP-1_1.5-2.0			002-STP-1_10-10.5			005-STP-2_1.5-2.0			006-STP-2_10.5-11.0			008-STP-3_1.5-2.0			009-DUP-1-103007			010-STP-3_10.5-11			014-STP-4_1.5-2.0			015-STP-4_11.5-12		
				Sample Date	10/30/07			10/30/07			10/30/07			10/30/07			10/30/07			10/30/07			10/30/07			10/31/07			10/31/07		
				Depth to GW	NA			NA			11.00			11.00			11.00			11.00			11.00			11.00			11.00		
		0-2 ft Surface Soil	2-15 ft Sub-Surface Soil	Start Depth (ft)	1.50			10.00			1.50			10.50			1.50			1.50			10.50			1.50			11.50		
				End Depth (ft)	2.00			10.50			2.00			11.00			2.00			2.00			11.00			2.00			12.00		
PCB (ug/kg)				Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Aroclor 1016	12674-11-2	200,000	10,000,000	ug/kg	ND		34	ND		38	ND		38	ND		36	ND		39	ND		39	ND		37	ND		35	ND		38
Aroclor 1221	11104-28-2	160,000	10,000,000	ug/kg	ND		34	ND		38	ND		38	ND		36	ND		39	ND		39	ND		37	ND		35	ND		38
Aroclor 1232	11141-16-5	160,000	10,000,000	ug/kg	ND		34	ND		38	ND		38	ND		36	ND		39	ND		39	ND		37	ND		35	ND		38
Aroclor 1242	53469-21-9	160,000	10,000,000	ug/kg	ND		34	ND		38	ND		38	ND		36	ND		39	ND		39	ND		37	ND		35	ND		38
Aroclor 1248	12672-29-6	44,000	10,000,000	ug/kg	ND		34	ND		38	ND		38	ND		36	ND		39	ND		39	ND		37	ND		35	ND		38
Aroclor 1254	11097-69-1	44,000	10,000,000	ug/kg	ND		34	ND		38	41		38	ND		36	ND		39	ND		39	ND		37	ND		35	ND		38
Aroclor 1260	11096-82-5	130,000	190,000,000	ug/kg	ND		34	ND		38	ND		38	ND		36	ND		39	ND		39	ND		37	ND		35	ND		38
PP Metals (mg/kg)				Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Antimony	7440-36-0	1,100	190,000	mg/kg	0.059	B	0.21	0.04	B	0.23	0.021	B	0.23	0.0053	B	0.22	ND		0.23	ND		0.23	0.029	B	0.22	0.072	B	0.22	0.017	B	0.24
Arsenic	7440-38-2	53	190,000	mg/kg	8.1		0.1	4.7		0.12	9.8		0.11	2.5		0.11	4.9		0.12	5		0.12	2		0.11	2	J	0.11	3.4	J	0.12
Beryllium	7440-41-7	190,000	190,000	mg/kg	1		0.1	0.44		0.12	0.47		0.11	0.21		0.11	0.38		0.12	0.39		0.12	0.23		0.11	0.3		0.11	0.29		0.12
Cadmium	7440-43-9	210	190,000	mg/kg	0.12		0.1	0.099	B	0.12	0.071	B	0.11	0.052	B	0.11	0.065	B	0.12	0.055	B	0.12	0.09	B	0.11	0.072	B	0.11	0.076	B	0.12
Chromium	7440-47-3	190,000	190,000	mg/kg	31.3	J	0.21	9.9	J	0.23	16.9	J	0.23	5.5	J	0.22	11.4	J	0.23	11.2	J	0.23	6.2	J	0.22	6.1	J	0.22	7.1	J	0.24
Copper	7440-50-8	100,000	190,000	mg/kg	27.2	J	0.21	12.6	J	0.23	12.5	J	0.23	6.8	J	0.22	10.8	J	0.23	11.6	J	0.23	8.1	J	0.22	9.3		0.22	9		0.24
Lead	7439-92-1	1,000	190,000	mg/kg	12.9		0.1	10.4		0.12	23.6		0.11	3.6		0.11	9.4		0.12	9.6		0.12	9.4		0.11	10		0.11	6.7		0.12
Mercury	7439-97-6	840	190,000	mg/kg	ND		0.034	0.031	B	0.039	0.025	B	0.038	ND		0.036	0.024	B	0.039	0.03	B	0.039	0.026	B	0.037	0.013	B	0.036	0.016	B	0.039
Nickel	7440-02-0	56,000	190000	mg/kg	20.7		0.1	12.8		0.12	9.5		0.11	7.1		0.11	12.9		0.12	12.8		0.12	7.9		0.11	7.6	J	0.11	11.5	J	0.12
Selenium	7782-49-2	14,000	190,000	mg/kg	0.68	J	0.52	0.56	B J	0.59	0.74	J	0.57	0.32	B J	0.54	0.5	B J	0.58	0.54	B J	0.59	0.41	B J	0.56	0.29	B	0.55	0.35	B	0.59
Silver	7440-22-4	14,000	190000	mg/kg	0.031	B	0.1	ND		0.12	ND		0.11	ND		0.11	ND		0.12	ND		0.12	0.0049	B	0.11	ND		0.11	ND		0.12
Thallium	7440-28-0	200	190000	mg/kg	0.47	J	0.1	0.11	B J	0.12	0.1	B J	0.11	0.027	B J	0.11	0.084	B J	0.12	0.084	B J	0.12	0.027	B J	0.11	0.054	B	0.11	0.05	B	0.12
Zinc	7440-66-6	190,000	190,000	mg/kg	53.3	J	0.52	31.8	J	0.59	36.9	J	0.57	19.8	J	0.54	28.4	J	0.58	28.8	J	0.59	27	J	0.56	20.6	J	0.55	24.7	J	0.59
General Chemistry				Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Percent Solids	none	NS	NS	percent	96.9			85.2			87			92.1			85.6			85.3			89.5			92.9			85.1		

Table 2
Summary of Soil Analytical Results
Comparison to Pennsylvania Non-Residential Statewide Health Direct Contact Soil MSCs
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC		Location ID	STP-5			STP-5			STP-6			STP-6			STP-7			STP-7			STP-8			STP-8		
				Sample ID	017-STP-5_1.5-2.0			018-STP-5_10.5-11			019-STP-6_1.5-2.0			020-STP-6_7.5-8			021-STP-7_1.5-2.0			022-STP-7_1.5-4.0			023-STP-8_1.5-2.0			024-STP-8_4.5-5.0		
				Sample Date	10/31/07			10/31/07			10/31/07			10/31/07			10/31/07			10/31/07			10/31/07			10/31/07		
				Depth to GW	11.00			11.00			8.00			8.00			4.00			4.00			5.00			5.00		
		0-2 ft Surface Soil	2-15 ft Sub-Surface Soil	Start Depth (ft)	1.50			10.50			1.50			7.50			1.50			3.50			1.50			4.50		
				End Depth (ft)	2.00			11.00			2.00			8.00			2.00			4.00			2.00			5.00		
TCL Volatiles				Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Acetone	67-64-1	10,000,000	10,000,000	ug/kg	ND		21	ND		20	ND		24	9.5	J	22	ND		21	ND		23	ND		24	ND		33
Benzene	71-43-2	210,000	240,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
Bromodichloromethane	75-27-4	45,000	51,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
Bromoform	75-25-2	1,500,000	1,700,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
Bromomethane	74-83-9	270,000	300,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
2-Butanone	78-93-3	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
Carbon Disulfide	75-15-0	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
Carbon Tetrachloride	56-23-5	110,000	120,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
Chlorobenzene	108-90-7	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
Chloroethane	75-00-3	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
Chloroform	67-66-3	17,000	19,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
Chloromethane	74-87-3	920,000	1,000,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
Isopropylbenzene	98-82-8	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
Cyclohexane	110-82-7	100,000	100,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
1,2-Dibromoethane	106-93-4	930	8,600	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
1,2-Dibromo-3-chloropropane	96-12-8	11,000	12,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
Dibromochloromethane	124-48-1	61,000	70,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
1,4-Dichlorobenzene	106-46-7	3,300,000	190,000,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
1,2-Dichlorobenzene	95-50-1	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
1,3-Dichlorobenzene	541-73-1	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
Dichlorodifluoromethane	75-71-8	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
1,1-Dichloroethane	75-34-3	1,000,000	1,200,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
1,2-Dichloroethane	107-06-2	63,000	73,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
trans-1,2-Dichloroethene	156-60-5	3,700,000	4,300,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
cis-1,2-Dichloroethene	156-59-2	1,900,000	2,100,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
1,1-Dichloroethene	75-35-4	33,000	38,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
1,2-Dichloropropane	78-87-5	160,000	180,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
trans-1,3-Dichloropropene	10061-02-6	410,000	470,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
cis-1,3-Dichloropropene	10061-01-5	410,000	470,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
Ethylbenzene	100-41-4	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
2-Hexanone	591-78-6	100,000	100,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
Methyl Acetate	79-20-9	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
Methyl tert-Butyl Ether	1634-04-4	3,200,000	3,700,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
4-Methyl-2-pentanone	108-10-1	4,300,000	4,900,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
Methylcyclohexane	108-87-2	NS	NS	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
Methylene Chloride	75-09-2	3,500,000	4,000,000	ug/kg	2.3	J B	5.2	1	J	5.1	1.9	J	5.9	2.2	J	5.5	1.4	J	5.3	1.9	J	5.8	3.1	J	5.9	4	J B	8.3
Styrene	100-42-5	1,000,000	1,000,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
1,1,2,2-Tetrachloroethane	79-34-5	28,000	33,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
Tetrachloroethene	127-18-4	1,500,000	3,300,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
Toluene	108-88-3	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
Xylenes (Total)	1330-20-7	10,000,000	10,000,000	ug/kg	ND		16	ND		15	ND		18	ND		16	ND		16	ND		17	ND		18	ND		25
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	190,000,000	190,000,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
1,2,4-Trichlorobenzene	120-82-1	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
1,1,1-Trichloroethane	71-55-6	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
1,1,2-Trichloroethane	79-00-5	100,000	120,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
Trichloroethene	79-01-6	970,000	1,100,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
Trichlorofluoromethane	75-69-4	10,000,000	10,000,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3
Vinyl Chloride	75-01-4	53,000	220,000	ug/kg	ND		5.2	ND		5.1	ND		5.9	ND		5.5	ND		5.3	ND		5.8	ND		5.9	ND		8.3

Table 2
Summary of Soil Analytical Results
Comparison to Pennsylvania Non-Residential Statewide Health Direct Contact Soil MSCs
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC		Location ID	STP-5			STP-5			STP-6			STP-6			STP-7			STP-7			STP-8			STP-8		
				Sample ID	017-STP-5_1.5-2.0			018-STP-5_10.5-11			019-STP-6_1.5-2.0			020-STP-6_7.5-8			021-STP-7_1.5-2.0			022-STP-7_3.5-4.0			023-STP-8_1.5-2.0			024-STP-8_4.5-5.0		
				Sample Date	10/31/07			10/31/07			10/31/07			10/31/07			10/31/07			10/31/07			10/31/07			10/31/07		
				Depth to GW	11.00			11.00			8.00			8.00			4.00			4.00			5.00			5.00		
				Start Depth (ft)	1.50			10.50			1.50			7.50			1.50			3.50			1.50			4.50		
		0-2 ft Surface Soil	2-15 ft Sub-Surface Soil	End Depth (ft)	2.00			11.00			2.00			8.00			2.00			4.00			2.00			5.00		
TCL Semivolatiles				Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Acenaphthene	83-32-9	170,000,000	190,000,000	ug/kg	ND		7.2	ND		7.7	ND		7.1	3.6	J	8	ND		7.2	ND		7.4	ND		7.1	5.1	J	10
Acenaphthylene	208-96-8	170,000,000	190,000,000	ug/kg	4.2	J	7.2	ND		7.7	ND		7.1	20		8	ND		7.2	ND		7.4	2	J	7.1	26		10
Acetophenone	98-86-2	10,000,000	10,000,000	ug/kg	3	J	35	2.7	J	38	ND		35	2.8	J	39	ND		35	ND		37	ND		35	ND		51
Anthracene	120-12-7	190,000,000	190,000,000	ug/kg	3.8	J	7.2	ND		7.7	ND		7.1	17		8	ND		7.2	ND		7.4	3.6	J	7.1	29		10
Atrazine[2]	1912-24-9	360,000	190,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		51
Benzaldehyde	100-52-7	NS	NS	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		51
Benzo(a)anthracene	56-55-3	110,000	190,000,000	ug/kg	15		7.2	ND		7.7	ND		7.1	44		8	1.5	J	7.2	3.1	J	7.4	19		7.1	63		10
Benzo(a)pyrene	50-32-8	11,000	190,000,000	ug/kg	16		7.2	ND		7.7	ND		7.1	51		8	1.6	J	7.2	3.2	J	7.4	21		7.1	60		10
Benzo(b)fluoranthene	205-99-2	110,000	190,000,000	ug/kg	21		7.2	ND		7.7	ND		7.1	58		8	ND		7.2	4.3	J	7.4	30		7.1	76		10
Benzo(g,h,i)perylene	191-24-2	170,000,000	190,000,000	ug/kg	12		7.2	ND		7.7	ND		7.1	42		8	ND		7.2	2	J	7.4	18		7.1	45		10
Benzo(k)fluoranthene	207-08-9	1,100,000	190,000,000	ug/kg	7.3		7.2	ND		7.7	ND		7.1	20		8	ND		7.2	1.2	J	7.4	12		7.1	31		10
1,1'-Biphenyl	92-52-4	140,000,000	190,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	4.9	J	51
bis(2-Chloroethoxy) methane[3]	111-91-1	100,000	100,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		51
bis(2-Chloroethyl) ether	111-44-4	5,000	5,700	ug/kg	ND		7.2	ND		7.7	ND		7.1	ND		8	ND		7.2	ND		7.4	ND		7.1	ND		10
2,2'-oxybis(1-Chloropropane)	108-60-1	160,000	190,000	ug/kg	ND		7.2	ND		7.7	ND		7.1	ND		8	ND		7.2	ND		7.4	ND		7.1	ND		10
bis(2-Ethylhexyl)phthalate	117-81-7	5,700,000	10,000,000	ug/kg	7.1	J	35	5.6	J	38	4.2	J	35	5.6	J	39	5	J	35	5.3	J	37	5.4	J	35	ND		51
4-Bromophenyl-phenylether[3]	101-55-3	100,000	100,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		51
Butylbenzylphthalate	85-68-7	10,000,000	10,000,000	ug/kg	5.9	J	35	5.5	J	38	4.3	J	35	3.8	J	39	3.5	J	35	3.7	J	37	3.2	J	35	ND		51
Caprolactam	105-60-2	NS	NS	ug/kg	9.5	J	35	13	J	38	9.5	J	35	10	J	39	7.3	J	35	ND		37	ND		35	ND		51
Carbazole	86-74-8	4,000,000	190,000,000	ug/kg	ND		7.2	ND		7.7	ND		7.1	4.3	J	8	ND		7.2	ND		7.4	2.9	J	7.1	7.5	J	10
4-Chloro-3-methylphenol	59-50-7	14,000,000	190,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		51
4-Chloroaniline	106-47-8	11,000,000	190,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		51
2-Chloronaphthalene	91-58-7	190,000,000	190,000,000	ug/kg	ND		7.2	ND		7.7	ND		7.1	ND		8	ND		7.2	ND		7.4	ND		7.1	ND		10
2-Chlorophenol	95-57-8	920,000	1,100,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		51
4-Chlorophenyl-phenylether[3]	7005-72-3	100,000	100,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		51
Chrysene	218-01-9	11,000,000	190,000,000	ug/kg	19		7.2	ND		7.7	ND		7.1	64		8	1.6	J	7.2	3.1	J	7.4	23		7.1	77		10
2-Methylphenol	95-48-7	10,000,000	10,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		51
4-Methylphenol	106-44-5	14,000,000	190,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		51
Dibenzo(a,h)anthracene	53-70-3	11,000	190,000,000	ug/kg	ND		7.2	ND		7.7	ND		7.1	8.9		8	ND		7.2	ND		7.4	3.6	J	7.1	13		10
Dibenzofuran[3]	132-64-9	100,000	100,000	ug/kg	ND		35	ND		38	ND		35	2.3	J	39	ND		35	ND		37	ND		35	8.2	J	51
3,3'-Dichlorobenzidine	91-94-1	180,000	190,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		51
2,4-Dichlorophenol	120-83-2	8,400,000	190,000,000	ug/kg	ND		7.2	ND		7.7	ND		7.1	ND		8	ND		7.2	ND		7.4	ND		7.1	ND		10
Diethylphthalate	84-66-2	10,000,000	10,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		51
2,4-Dimethylphenol	105-67-9	10,000,000	10,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		51
Dimethylphthalate[3]	131-11-3	100,000	100,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		51
Di-n-butylphthalate	84-74-2	10,000,000	10,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		51
4,6-Dinitro-2-methylphenol[2,3]	534-52-1	100,000	100,000	ug/kg	ND		180	ND		200	ND		180	ND		200	ND		180	ND		190	ND		180	ND		260
2,4-Dinitrophenol	51-28-5	5,600,000	190,000,000	ug/kg	ND		180	ND		200	ND		180	ND		200	ND		180	ND		190	ND		180	ND		260
2,4-Dinitrotoluene	121-14-2	280,000	190,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		51
2,6-Dinitrotoluene	606-20-2	2,800,000	190,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		51
Fluoranthene	206-44-0	110,000,000	190,000,000	ug/kg	26		7.2	ND		7.7	ND		7.1	98		8	2.8	J	7.2	5.3	J	7.4	44		7.1	120		10
Fluorene	86-73-7	110,000,000	190,000,000	ug/kg	ND		7.2	ND		7.7	ND		7.1	6.9	J	8	ND		7.2	ND		7.4	ND		7.1	12		10
Hexachlorobenzene	118-74-1	56,000	190,000,000	ug/kg	ND		7.2	ND		7.7	ND		7.1	ND		8	ND		7.2	ND		7.4	ND		7.1	ND		10
Hexachlorobutadiene	87-68-3	560,000	10,000,000	ug/kg	ND		7.2	ND		7.7	ND		7.1	ND		8	ND		7.2	ND		7.4	ND		7.1	ND		10
Hexachlorocyclopentadiene	77-47-4	10,000,000	10,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		51
Hexachloroethane	67-72-1	2,800,000	190,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		51
Indeno(1,2,3-cd)pyrene	193-39-5	110,000	190,000,000	ug/kg	10		7.2	ND		7.7	ND		7.1	34		8	ND		7.2	ND		7.4	15		7.1	41		10
Isophorone	78-59-1	10,000,000	10,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		51
2-Methylnaphthalene	91-57-6	10,000,000	10,000,000	ug/kg	ND		7.2	ND		7.7	ND		7.1	3.4	J	8	ND		7.2	ND		7.4	ND		7.1	16		10
Naphthalene	91-20-3	56,000,000	190,000,000	ug/kg	2.3	J	7.2	ND		7.7	ND		7.1	3.9	J	8	1.7	J	7.2	1.9	J	7.4	ND		7.1	30		10
2-Nitroaniline[3]	88-74-4	160,000	190,000,000	ug/kg	ND		180	ND		200	ND		180	ND		200	ND		180	ND		190	ND		180	ND		260
3-Nitroaniline[3]	99-09-2	160,000	190,000,000	ug/kg	ND		180	ND		200	ND		180	ND		200	ND		180	ND		190	ND		180	ND		260
4-Nitroaniline[3]	100-01-6	160,000	190,000,000	ug/kg	ND		180	ND		200	ND		180	ND		200	ND		180	ND		190	ND		180	ND		260
Nitrobenzene	98-95-3	1,400,000	10,000,000	ug/kg	ND		7.2	ND		7.7	ND		7.1	ND		8	ND		7.2	ND		7.4	ND		7.1	ND		10
2-Nitrophenol	88-75-5	22,000,000	190,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		51
4-Nitrophenol	100-02-7	22,000,000	190,000,000	ug/kg	ND		180	ND		200	ND		180	ND		200	ND		180	ND		190	ND		180	ND		260
N-Nitroso-di-n-propylamine	621-64-7	11,000	10,000,000	ug/kg	ND		7.2	ND		7.7	ND		7.1	ND		8	ND		7.2	ND		7.4	ND		7.1	ND		10
N-Nitrosodiphenylamine	86-30-6	10,000,000	10,000,000	ug/kg	ND		7.2	ND		7.7	ND		7.1	ND		8	ND		7.2	ND		7.4	ND		7.1	ND		10
Di-n-octylphthalate	117-84-0	10,000,000	10,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		51
Pentachlorophenol	87-86-5	660,000	190,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		51
Phenanthrene	85-01-8	190,000,000	190,000,000	ug/kg	16		7.2	3.9	J	7.7	2.5	J	7.1	70		8	3.5	J	7.2	5.3	J	7.4	19		7.1	81		10
Phenol	108-95-2	190,000,000	190,000,000	ug/kg	ND		7.2	ND		7.7	ND		7.1	ND		8	ND		7.2	ND		7.4	ND		7.1	ND		10
Pyrene	129-00-0	84,000,000	190,000,000	ug/kg	30		7.2	ND		7.7	ND		7.1	110		8	2.6	J	7.2	4.9	J	7.4	36		7.1	100		10
2,4,5-Trichlorophenol	95-95-4	190,000,000	190,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		51
2,4,6-Trichlorophenol	88-06-2	840,000	190,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		51

Table 2
Summary of Soil Analytical Results
Comparison to Pennsylvania Non-Residential Statewide Health Direct Contact Soil MSCs
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC		Location ID	STP-5			STP-5			STP-6			STP-6			STP-7			STP-7			STP-8			STP-8		
				Sample ID	017-STP-5_1.5-2.0			018-STP-5_10.5-11			019-STP-6_1.5-2.0			020-STP-6_7.5-8			021-STP-7_1.5-2.0			022-STP-7_3.5-4.0			023-STP-8_1.5-2.0			024-STP-8_4.5-5.0		
				Sample Date	10/31/07			10/31/07			10/31/07			10/31/07			10/31/07			10/31/07			10/31/07			10/31/07		
				Depth to GW	11.00			11.00			8.00			8.00			4.00			4.00			5.00			5.00		
		0-2 ft Surface Soil	2-15 ft Sub-Surface Soil	Start Depth (ft)	1.50			10.50			1.50			7.50			1.50			3.50			1.50			4.50		
				End Depth (ft)	2.00			11.00			2.00			8.00			2.00			4.00			2.00			5.00		
PCB (ug/kg)				Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Aroclor 1016	12674-11-2	200,000	10,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		50
Aroclor 1221	11104-28-2	160,000	10,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		50
Aroclor 1232	11141-16-5	160,000	10,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		50
Aroclor 1242	53469-21-9	160,000	10,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		50
Aroclor 1248	12672-29-6	44,000	10,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		50
Aroclor 1254	11097-69-1	44,000	10,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		50
Aroclor 1260	11096-82-5	130,000	190,000,000	ug/kg	ND		35	ND		38	ND		35	ND		39	ND		35	ND		37	ND		35	ND		50
PP Metals (mg/kg)				Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Antimony	7440-36-0	1,100	190,000	mg/kg	0.064	B	0.21	0.013	B	0.23	0.023	B	0.21	0.01	B	0.24	0.0067	B	0.21	0.011	B	0.22	0.022	B	0.21	0.49		0.31
Arsenic	7440-38-2	53	190,000	mg/kg	3.6	J	0.11	4.6	J	0.12	2.9	J	0.11	4.3	J	0.12	2.8	J	0.11	2.9	J	0.11	2.9	J	0.11	5.2	J	0.15
Beryllium	7440-41-7	190,000	190,000	mg/kg	0.43		0.11	0.44		0.12	0.26		0.11	0.55		0.12	0.32		0.11	0.33		0.11	0.34		0.11	1.8		0.15
Cadmium	7440-43-9	210	190,000	mg/kg	0.15		0.11	0.095	B	0.12	0.083	B	0.11	0.079	B	0.12	0.088	B	0.11	0.089	B	0.11	0.11		0.11	7.3		0.15
Chromium [a]	7440-47-3	190,000	190,000	mg/kg	12.2	J	0.21	11.4	J	0.23	7.9	J	0.21	10.1	J	0.24	7.9	J	0.21	8.4	J	0.22	9	J	0.21	64.6	J	0.31
Copper	7440-50-8	100,000	190,000	mg/kg	14.5		0.21	9.9		0.23	8.4		0.21	11.8		0.24	9.6		0.21	9.2		0.22	10.1		0.21	122		0.31
Lead	7439-92-1	1,000	190,000	mg/kg	7.8		0.11	8.6		0.12	5.1		0.11	10.8		0.12	5.3		0.11	7.9		0.11	8.7		0.11	176		0.15
Mercury	7439-97-6	840	190,000	mg/kg	0.029	B	0.035	0.024	B	0.038	0.011	B	0.035	0.028	B	0.039	0.013	B	0.035	0.013	B	0.037	0.023	B	0.035	0.73		0.051
Nickel	7440-02-0	56,000	190000	mg/kg	10.7	J	0.11	12.4	J	0.12	9.3	J	0.11	12.8	J	0.12	10.5	J	0.11	9.7	J	0.11	10.5	J	0.11	40.6	J	0.15
Selenium	7782-49-2	14,000	190,000	mg/kg	0.43	B	0.54	0.5	B	0.58	0.28	B	0.53	0.79		0.59	0.33	B	0.53	0.39	B	0.56	0.43	B	0.54	2		0.77
Silver	7440-22-4	14,000	190000	mg/kg	0.032	B	0.11	ND		0.12	ND		0.11	0.0034	B	0.12	ND		0.11	ND		0.11	ND		0.11	1.2		0.15
Thallium	7440-28-0	200	190000	mg/kg	0.052	B	0.11	0.07	B	0.12	0.029	B	0.11	0.086	B	0.12	0.044	B	0.11	0.046	B	0.11	0.054	B	0.11	0.24		0.15
Zinc	7440-66-6	190,000	190,000	mg/kg	34	J	0.54	30.2	J	0.58	23.4	J	0.53	31.2	J	0.59	24.8	J	0.53	24.1	J	0.56	29.2	J	0.54	1270	J	0.77
General Chemistry				Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Percent Solids	none	NS	NS	percent	93.5			86.7			94.7			84.2			93.5		1	90.2			93.3			65		

Table 2
Summary of Soil Analytical Results
Comparison to Pennsylvania Non-Residential Statewide Health Direct Contact Soil MSCs
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC		Location ID	STP-9			STP-9			STP-10			STP-10			STP-10			STP-11			STP-11		
				Sample ID	025-STP-9_1.5-2.0			026-STP-9_5.5-6.0			028-STP-10_1.5-2.0'			029-DUP-2_110107			030-STP-10_12.5-13'			032-STP-11_1.5-2.0'			033-STP-11_7.5-8.0'		
				Sample Date	10/31/07			08/31/07			11/01/07			11/01/07			11/01/07			11/01/07			11/01/07		
				Depth to GW	6.00			6.00			13.00			13.00			13.00			14.50			14.50		
		0-2 ft Surface Soil	2-15 ft Sub-Surface Soil	Start Depth (ft)	1.50			7.50			1.50			1.50			12.50			1.50			7.50		
				End Depth (ft)	2.00			8.00			2.00			2.00			13.00			2.00			8.00		
TCL Volatiles				Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Acetone	67-64-1	10,000,000	10,000,000	ug/kg	ND		21	15	J	25	ND		23	ND		21	34		23	ND		22	21	J	24
Benzene	71-43-2	210,000	240,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
Bromodichloromethane	75-27-4	45,000	51,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
Bromoform	75-25-2	1,500,000	1,700,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
Bromomethane	74-83-9	270,000	300,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
2-Butanone	78-93-3	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	7.8		5.9	ND		5.5	4.4	J	6
Carbon Disulfide	75-15-0	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
Carbon Tetrachloride	56-23-5	110,000	120,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
Chlorobenzene	108-90-7	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
Chloroethane	75-00-3	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
Chloroform	67-66-3	17,000	19,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
Chloromethane	74-87-3	920,000	1,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
Isopropylbenzene	98-82-8	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	1.3	J	6
Cyclohexane	110-82-7	100,000	100,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
1,2-Dibromoethane	106-93-4	930	8,600	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
1,2-Dibromo-3-chloropropane	96-12-8	11,000	12,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
Dibromochloromethane	124-48-1	61,000	70,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
1,4-Dichlorobenzene	106-46-7	3,300,000	190,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
1,2-Dichlorobenzene	95-50-1	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
1,3-Dichlorobenzene	541-73-1	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
Dichlorodifluoromethane	75-71-8	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
1,1-Dichloroethane	75-34-3	1,000,000	1,200,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
1,2-Dichloroethane	107-06-2	63,000	73,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
trans-1,2-Dichloroethene	156-60-5	3,700,000	4,300,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
cis-1,2 Dichloroethene	156-59-2	1,900,000	2,100,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
1,1-Dichloroethene	75-35-4	33,000	38,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
1,2-Dichloropropane	78-87-5	160,000	180,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
trans-1,3-Dichloropropene[1]	10061-02-6	410,000	470,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
cis-1,3-Dichloropropene	10061-01-5	410,000	470,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
Ethylbenzene	100-41-4	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
2-Hexanone	591-78-6	100,000	100,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
Methyl Acetate	79-20-9	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
Methyl tert-Butyl Ether	1634-04-4	3,200,000	3,700,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
4-Methyl-2-pentanone	108-10-1	4,300,000	4,900,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
Methylcyclohexane	108-87-2	NS	NS	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
Methylene Chloride	75-09-2	3,500,000	4,000,000	ug/kg	0.94	J	5.3	2.2	J	6.2	2.4	J	5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
Styrene	100-42-5	1,000,000	1,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
1,1,2,2-Tetrachloroethane	79-34-5	28,000	33,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
Tetrachloroethene	127-18-4	1,500,000	3,300,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
Toluene	108-88-3	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
Xylenes (Total)	1330-20-7	10,000,000	10,000,000	ug/kg	ND		16	ND		18	ND		17	ND		16	ND		18	ND		17	ND		18
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	190,000,000	190,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
1,2,4-Trichlorobenzene	120-82-1	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
1,1,1-Trichloroethane	71-55-6	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
1,1,2-Trichloroethane	79-00-5	100,000	120,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
Trichloroethene	79-01-6	970,000	1,100,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
Trichlorofluoromethane	75-69-4	10,000,000	10,000,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6
Vinyl Chloride	75-01-4	53,000	220,000	ug/kg	ND		5.3	ND		6.2	ND		5.7	ND		5.3	ND		5.9	ND		5.5	ND		6

Table 2
Summary of Soil Analytical Results
Comparison to Pennsylvania Non-Residential Statewide Health Direct Contact Soil MSCs
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC		Location ID	STP-9			STP-9			STP-10			STP-10			STP-10			STP-11			STP-11		
				Sample ID	025-STP-9_1.5-2.0			026-STP-9_5.5-6.0			028-STP-10_1.5-2.0'			029-DUP-3_110107			030-STP-10_12.5-13'			032-STP-11_1.5-2.0'			033-STP-11_7.5-8.0'		
				Sample Date	10/31/07			08/31/07			11/01/07			11/01/07			11/01/07			11/01/07			11/01/07		
				Depth to GW	6.00			6.00			13.00			13.00			13.00			14.50			14.50		
		0-2 ft Surface Soil	2-15 ft Sub-Surface Soil	Start Depth (ft)	1.50			7.50			1.50			1.50			12.50			1.50			7.50		
				End Depth (ft)	2.00			8.00			2.00			2.00			13.00			2.00			8.00		
TCL Semivolatiles				Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Acenaphthene	83-32-9	170,000,000	190,000,000	ug/kg	1.8	J	7.1	ND		7.7	ND		7.4	ND		7.4	ND		7.7	ND		15	ND		8
Acenaphthylene	208-96-8	170,000,000	190,000,000	ug/kg	5.4	J	7.1	ND		7.7	2.8	J	7.4	8.5		7.4	ND		7.7	ND		15	ND		8
Acetaphenone	98-86-2	10,000,000	10,000,000	ug/kg	3.1	J	35	3.3	J	38	ND		36	ND		37	ND		38	ND		72	ND		40
Anthracene	120-12-7	190,000,000	190,000,000	ug/kg	6.3	J	7.1	ND		7.7	ND		7.4	6.4	J	7.4	ND		7.7	ND		15	ND		8
Atrazine[1]	1912-24-9	360,000	190,000,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		72	ND		40
Benzaldehyde	100-52-7	NS	NS	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		72	ND		40
Benz(a)anthracene	56-55-3	110,000	190,000,000	ug/kg	18		7.1	8.3	J	7.7	5.9	J	7.4	19		7.4	ND		7.7	11	J	15	ND		8
Benz(a)pyrene	50-32-8	11,000	190,000,000	ug/kg	18		7.1	7.2	J	7.7	6.2	J	7.4	18		7.4	3.1	J	7.7	19		15	ND		8
Benz(b)fluoranthene	205-99-2	110,000	190,000,000	ug/kg	26		7.1	9.3		7.7	7.6		7.4	28		7.4	ND		7.7	23		15	ND		8
Benz(g,h,i)perylene	191-24-2	170,000,000	190,000,000	ug/kg	16		7.1	5.9	J	7.7	5.8	J	7.4	17		7.4	2.7	J	7.7	16		15	ND		8
Benz(k)fluoranthene	207-08-9	1,100,000	190,000,000	ug/kg	8	J	7.1	3.7	J	7.7	3.5	J	7.4	7.2	J	7.4	ND		7.7	8.5	J	15	ND		8
1,1'-Biphenyl	92-52-4	140,000,000	190,000,000	ug/kg	1.9	J	35	ND		38	ND		36	13	J	37	ND		38	ND		72	ND		40
bis(2-Chloroethoxy) methane[2]	111-91-1	100,000	100,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		72	ND		40
bis(2-Chloroethyl) ether	111-44-4	5,000	5,700	ug/kg	ND		7.1	ND		7.7	ND		7.4	ND		7.4	ND		7.7	ND		15	ND		8
2,2'-oxybis(1-Chloropropane)	108-60-1	160,000	190,000	ug/kg	ND		7.1	ND		7.7	ND		7.4	ND		7.4	ND		7.7	ND		15	ND		8
bis-(2-Ethylhexyl)phthalate	117-81-7	5,700,000	10,000,000	ug/kg	8.5	J	35	6.3	J	38	ND		36	8.3	J	37	11	J	38	33	J	72	9.8	J	40
4-Bromophenyl-phenylether[2]	101-55-3	100,000	100,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		72	ND		40
Butylbenzylphthalate	85-68-7	10,000,000	10,000,000	ug/kg	ND		35	ND		38	3.3	J	36	6.1	J	37	11	J	38	ND		72	9	J	40
Caprolactam	105-60-2	NS	NS	ug/kg	9.2	J	35	ND		38	ND		36	ND		37	ND		38	ND		72	ND		40
Carbazole	86-74-8	4,000,000	190,000,000	ug/kg	1.9	J	7.1	ND		7.7	ND		7.4	3	J	7.4	ND		7.7	ND		15	ND		8
4-Chloro-3-methylphenol	59-50-7	14,000,000	190,000,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		72	ND		40
4-Chloroaniline	106-47-8	11,000,000	190,000,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		72	ND		40
2-Chloronaphthalene	91-58-7	190,000,000	190,000,000	ug/kg	ND		7.1	ND		7.7	ND		7.4	ND		7.4	ND		7.7	ND		15	ND		8
2-Chlorophenol	95-57-8	920,000	1,100,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		72	ND		40
4-Chlorophenyl-phenylether[2]	7005-72-3	100,000	100,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		72	ND		40
Chrysene	218-01-9	11,000,000	190,000,000	ug/kg	21		7.1	7.6	J	7.7	10		7.4	35		7.4	ND		7.7	17		15	ND		8
2-Methylphenol	95-48-7	10,000,000	10,000,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		72	ND		40
4-Methylphenol	106-44-5	14,000,000	190,000,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		72	ND		40
Dibenzo(a,h)anthracene	53-70-3	11,000	190,000,000	ug/kg	3.7	J	7.1	ND		7.7	ND		7.4	ND		7.4	ND		7.7	ND		15	ND		8
Dibenzofuran[2]	132-64-9	100,000	100,000	ug/kg	2.8	J	35	ND		38	2.9	J	36	19	J	37	ND		38	ND		72	ND		40
3,3'-Dichlorobenzidine	91-94-1	180,000	190,000,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		72	ND		40
2,4-Dichlorophenol	120-83-2	8,400,000	190,000,000	ug/kg	ND		7.1	ND		7.7	ND		7.4	ND		7.4	ND		7.7	ND		15	ND		8
Diethylphthalate	84-66-2	10,000,000	10,000,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		72	ND		40
2,4-Dimethylphenol	105-67-9	10,000,000	10,000,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		72	ND		40
Dimethylphthalate[2]	131-11-3	100,000	100,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		72	ND		40
Di-n-butylphthalate	84-74-2	10,000,000	10,000,000	ug/kg	ND		35	ND		38	ND		36	9.1	J	37	7.9	J	38	ND		72	8.3	J	40
4,6-Dinitro-2-methylphenol[2,3]	534-52-1	100,000	100,000	ug/kg	ND		180	ND		200	ND		190	ND		190	ND		200	ND		370	ND		200
2,4-Dinitrophenol	51-28-5	5,600,000	190,000,000	ug/kg	ND		180	ND		200	ND		190	ND		190	ND		200	ND		370	ND		200
2,4 Dinitrotoluene	121-14-2	260,000	190,000,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		72	ND		40
2,6-Dinitrotoluene	606-20-2	2,800,000	190,000,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		72	ND		40
Fluoranthene	206-44-0	110,000,000	190,000,000	ug/kg	31		7.1	14		7.7	8.9		7.4	32		7.4	4.6	J	7.7	28		15	2.9	J	8
Fluorene	86-73-7	110,000,000	190,000,000	ug/kg	3.2	J	7.1	ND		7.7	ND		7.4	ND		7.4	ND		7.7	ND		15	ND		8
Hexachlorobenzene	118-74-1	50,000	190,000,000	ug/kg	ND		7.1	ND		7.7	ND		7.4	ND		7.4	ND		7.7	ND		15	ND		8
Hexachlorobutadiene	87-68-3	560,000	10,000,000	ug/kg	ND		7.1	ND		7.7	ND		7.4	ND		7.4	ND		7.7	ND		15	ND		8
Hexachlorocyclopentadiene	77-47-4	10,000,000	10,000,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		72	ND		40
Hexachloroethane	67-72-1	2,800,000	190,000,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		72	ND		40
Indeno(1,2,3-cd)pyrene	193-39-5	110,000	190,000,000	ug/kg	13		7.1	4.6	J	7.7	4.6	J	7.4	14		7.4	ND		7.7	11	J	15	ND		8
Isophorone	78-59-1	10,000,000	10,000,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		72	ND		40
2-Methylnaphthalene	91-57-6	10,000,000	10,000,000	ug/kg	3.9	J	7.1	ND		7.7	7.7		7.4	64		7.4	ND		7.7	ND		15	22		8
Naphthalene	91-20-3	56,000,000	190,000,000	ug/kg	7.3		7.1	ND		7.7	6	J	7.4	34		7.4	5	J	7.7	ND		15	230		8
2-Nitroaniline[2]	88-74-4	160,000	190,000,000	ug/kg	ND		180	ND		200	ND		190	ND		190	ND		200	ND		370	ND		200
3-Nitroaniline[2]	99-09-2	160,000	190,000,000	ug/kg	ND		180	ND		200	ND		190	ND		190	ND		200	ND		370	ND		200
4-Nitroaniline[2]	100-01-6	160,000	190,000,000	ug/kg	ND		180	ND		200	ND		190	ND		190	ND		200	ND		370	ND		200
Nitrobenzene	98-95-3	1,400,000	10,000,000	ug/kg	ND		7.1	ND		7.7	ND		7.4	ND		7.4	ND		7.7	ND		15	ND		8
2-Nitrophenol	88-75-5	22,000,000	190,000,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		72	ND		40
4-Nitrophenol	100-02-7	22,000,000	190,000,000	ug/kg	ND		180	ND		200	ND		190	ND		190	ND		200	ND		370	ND		200
N-Nitrosodi-n-propylamine	621-64-7	11,000	10,000,000	ug/kg	ND		7.1	ND		7.7	ND		7.4	ND		7.4	ND		7.7	ND		15	ND		8
N-Nitrosodiphenylamine	86-30-6	10,000,000	10,000,000	ug/kg	ND		7.1	ND		7.7	ND		7.4	ND		7.4	ND		7.7	ND		15	ND		8
Di-n-octylphthalate	117-84-0	10,000,000	10,000,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		72	ND		40
Pentachlorophenol	87-86-5	660,000	190,000,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		72	ND		40
Phenanthrene	85-01-8	190,000,000	190,000,000	ug/kg	22		7.1	9.1		7.7	13		7.4	67		7.4	4.6	J	7.7	12	J	15	ND		8
Phenol	108-95-2	190,000,000	190,000,000	ug/kg	ND		7.1	ND		7.7	ND		7.4	ND		7.4	ND		7.7	ND		15	ND		8
Pyrene	129-00-0	84,000,000	190,000,000	ug/kg	28		7.1	12		7.7	11		7.4	36		7.4	4.5	J	7.7	21		15	2.4	J	8
2,4,5-Trichlorophenol	95-95-4	190,000,000	190,000,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		72	ND		40
2,4,6-Trichlorophenol	88-06-2	840,000	190,000,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		72	ND		40

Table 2
Summary of Soil Analytical Results
Comparison to Pennsylvania Non-Residential Statewide Health Direct Contact Soil MSCs
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC		Location ID	STP-9			STP-9			STP-10			STP-10			STP-10			STP-11			STP-11		
				Sample ID	025-STP-9_1.5-2.0			026-STP-9_5.5-6.0			028-STP-10_1.5-2.0'			029-DUP-2_110107			030-STP-10_12.5-13'			032-STP-11_1.5-2.0'			033-STP-11_7.5-8.0'		
				Sample Date	10/31/07			08/31/07			11/01/07			11/01/07			11/01/07			11/01/07			11/01/07		
				Depth to GW	6.00			6.00			13.00			13.00			13.00			14.50			14.50		
		0-2 ft Surface Soil	2-15 ft Sub-Surface Soil	Start Depth (ft)	1.50			7.50			1.50			1.50			12.50			1.50			7.50		
				End Depth (ft)	2.00			8.00			2.00			2.00			13.00			2.00			8.00		
PCB (ug/kg)				Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Aroclor 1016	12674-11-2	200,000	10,000,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		36	ND		40
Aroclor 1221	11104-28-2	160,000	10,000,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		36	ND		40
Aroclor 1232	11141-16-5	160,000	10,000,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		36	ND		40
Aroclor 1242	53469-21-9	160,000	10,000,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		36	ND		40
Aroclor 1248	12672-29-6	44,000	10,000,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		36	ND		40
Aroclor 1254	11097-69-1	44,000	10,000,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	ND		36	ND		40
Aroclor 1260	11096-82-5	130,000	190,000,000	ug/kg	ND		35	ND		38	ND		36	ND		37	ND		38	35	J	36	ND		40
PP Metals (mg/kg)				Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Antimony	7440-36-0	1,100	190,000	mg/kg	0.028	B	0.21	0.021	B	0.23	0.047	B	0.22	0.035	B	0.22	0.014	B	0.23	0.028	B	0.22	0.011	B	0.24
Arsenic	7440-38-2	53	190,000	mg/kg	2.9	J	0.11	4.6	J	0.12	3		0.11	3.5		0.11	6.4		0.11	4.7		0.11	4.3		0.12
Beryllium	7440-41-7	190,000	190,000	mg/kg	0.36		0.11	0.51		0.12	0.35		0.11	0.43		0.11	0.56		0.11	0.34		0.11	0.48		0.12
Cadmium	7440-43-9	210	190,000	mg/kg	0.1	B	0.11	0.097	B	0.12	0.13		0.11	0.29		0.11	0.13		0.11	0.14		0.11	0.14		0.12
Chromium [a]	7440-47-3	190,000	190,000	mg/kg	8.3	J	0.21	11.1	J	0.23	24.9		0.22	465		0.22	10.9		0.23	8.3		0.22	10		0.24
Copper	7440-50-8	100,000	190,000	mg/kg	11.1		0.21	12.4		0.23	12.4	J	0.22	13.8	J	0.22	12.5	J	0.23	12.2	J	0.22	12.7	J	0.24
Lead	7439-92-1	1,000	190,000	mg/kg	6.9		0.11	11.4		0.12	9.5		0.11	15.9		0.11	13.6		0.11	9.4		0.11	11.8		0.12
Mercury	7439-97-6	840	190,000	mg/kg	0.021	B	0.035	0.032	B	0.038	0.033	B	0.036	0.041		0.037	0.23		0.038	0.031	B	0.036	0.018	B	0.04
Nickel	7440-02-0	56,000	190000	mg/kg	10.1	J	0.11	13.7	J	0.12	12.2		0.11	10.2		0.11	13.5		0.11	11.3		0.11	14.4		0.12
Selenium	7782-49-2	14,000	190,000	mg/kg	0.34	B	0.53	0.55	B	0.58	0.19	B	0.55	0.3	B	0.55	0.53	B	0.57	0.21	B	0.55	0.45	B	0.6
Silver	7440-22-4	14,000	190000	mg/kg	ND		0.11	ND		0.12	0.015	B	0.11	0.033	B	0.11	0.024	B	0.11	0.015	B	0.11	0.023	B	0.12
Thallium	7440-28-0	200	190000	mg/kg	0.05	B	0.11	0.082	B	0.12	0.052	B	0.11	0.061	B	0.11	0.11		0.11	0.05	B	0.11	0.089	B	0.12
Zinc	7440-66-6	190,000	190,000	mg/kg	28.3	J	0.53	34.4	J	0.58	41.8	J	0.55	59.9	J	0.55	38	J	0.57	34.8	J	0.55	36.8	J	0.6
General Chemistry				Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Percent Solids	none	NS	NS	percent	94.9			86.8			90.7			90.2			87			91.7			83.5		

Table 2
Summary of Soil Analytical Results
Comparison to Pennsylvania Non-Residential Statewide Health Direct Contact Soil MSCs
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

	CAS No.	PADEP Non Residential Direct Contact Non-Use Aquifer MSC		Location ID	STP-12			STP-12			STP-13			STP-13			STP-14			STP-14			STP-15			STP-15		
				Sample ID	034-STP-12_1.5-2.0'			035-STP-12_7.5-8.0'			003-STP-13_1.5-2.0			004-STP-13_9.5-10			012-STP-14_1.5-2.0			013-STP-14_11.5-12			036-STP-15_1.5-2.0'			037-STP-15_8.5-9.0'		
				Sample Date	11/01/07			11/01/07			10/30/07			10/30/07			10/31/07			10/31/07			11/01/07			11/01/07		
				Depth to GW	8.00			8.00			10.00			10.00			12.00			12.00			9.00			9.00		
		0-2 ft Surface Soil	2-15 ft Sub-Surface Soil	Start Depth (ft)	1.50			7.50			1.50			9.50			1.50			11.50			1.50			8.50		
				End Depth (ft)	2.00			8.00			2.00			10.00			2.00			12.00			2.00			9.00		
TCL Volatiles				Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Acetone	67-64-1	10,000,000	10,000,000	ug/kg	ND		22	3000	J B	5600	ND		20	ND		25	ND		20	7.8	J	21	ND		24	ND		24
Benzene	71-43-2	210,000	240,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
Bromodichloromethane	75-27-4	45,000	51,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
Bromoform	75-25-2	1,500,000	1,700,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
Bromomethane	74-83-9	270,000	300,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
2-Butanone	78-93-3	10,000,000	10,000,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
Carbon Disulfide	75-15-0	10,000,000	10,000,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
Carbon Tetrachloride	56-23-5	110,000	120,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
Chlorobenzene	108-90-7	10,000,000	10,000,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
Chloroethane	75-00-3	10,000,000	10,000,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
Chloroform	67-66-3	17,000	19,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
Chloromethane	74-87-3	920,000	1,000,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
Isopropylbenzene	98-82-8	10,000,000	10,000,000	ug/kg	ND		5.5	21000		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
Cyclohexane	110-82-7	100,000	100,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
1,2-Dibromoethane	106-93-4	930	8,600	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
1,2-Dibromo-3-chloropropane	96-12-8	11,000	12,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
Dibromochloromethane	124-48-1	61,000	70,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
1,4-Dichlorobenzene	106-46-7	3,300,000	190,000,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
1,2-Dichlorobenzene	95-50-1	10,000,000	10,000,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
1,3-Dichlorobenzene	541-73-1	10,000,000	10,000,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
Dichlorodifluoromethane	75-71-8	10,000,000	10,000,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
1,1-Dichloroethane	75-34-3	1,000,000	1,200,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
1,2-Dichloroethane	107-06-2	63,000	73,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
trans-1,2-Dichloroethene	156-60-5	3,700,000	4,300,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
cis-1,2-Dichloroethene	156-59-2	1,900,000	2,100,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
1,1-Dichloroethene	75-35-4	33,000	38,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
1,2-Dichloropropane	78-87-5	160,000	180,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
trans-1,3-Dichloropropene	10061-02-6	410,000	470,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
cis-1,3-Dichloropropene	10061-01-5	410,000	470,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
Ethylbenzene	100-41-4	10,000,000	10,000,000	ug/kg	ND		5.5	760	J	1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
2-Hexanone	591-78-6	100,000	100,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
Methyl Acetate	79-20-9	10,000,000	10,000,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
Methyl tert-Butyl Ether	1634-04-4	3,200,000	3,700,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
4-Methyl-2-pentanone	108-10-1	4,300,000	4,900,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
Methylcyclohexane	108-87-2	NS	NS	ug/kg	ND		5.5	430	J	1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
Methylene Chloride	75-09-2	3,500,000	4,000,000	ug/kg	0.87	J	5.5	ND		1400	2.5	J B	5.1	1.8	J B	6.2	1.3	J	5	1	J	5.4	ND		6	ND		5.9
Styrene	100-42-5	1,000,000	1,000,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
1,1,2,2-Tetrachloroethane	79-34-5	28,000	33,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
Tetrachloroethene	127-18-4	1,500,000	3,300,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
Toluene	108-88-3	10,000,000	10,000,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
Xylenes (Total)	1330-20-7	10,000,000	10,000,000	ug/kg	ND		18	3500	J	4200	ND		15	ND		19	ND		15	ND		16	ND		18	ND		18
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	190,000,000	190,000,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
1,2,4-Trichlorobenzene	120-82-1	10,000,000	10,000,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
1,1,1-Trichloroethane	71-55-6	10,000,000	10,000,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
1,1,2-Trichloroethane	79-00-5	100,000	120,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
Trichloroethene	79-01-6	970,000	1,100,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
Trichlorofluoromethane	75-69-4	10,000,000	10,000,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9
Vinyl Chloride	75-01-4	53,000	220,000	ug/kg	ND		5.5	ND		1400	ND		5.1	ND		6.2	ND		5	ND		5.4	ND		6	ND		5.9

Table 2
Summary of Soil Analytical Results
Comparison to Pennsylvania Non-Residential Statewide Health Direct Contact Soil MSCs
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC		Location ID	STP-12			STP-12			STP-13			STP-13			STP-14			STP-14			STP-15			STP-15		
				Sample ID	034-STP-12_1.5-2.0'			035-STP-12_7.5-8.0'			003-STP-13_1.5-2.0			004-STP-13_9.5-10			012-STP-14_1.5-2.0			013-STP-14_11.5-12			036-STP-15_1.5-2.0'			037-STP-15_8.5-9.0'		
				Sample Date	11/01/07			11/01/07			10/30/07			10/30/07			10/31/07			10/31/07			11/01/07			11/01/07		
				Depth to GW	8.00			8.00			10.00			10.00			12.00			12.00			9.00			9.00		
		0-2 ft Surface Soil	2-15 ft Sub-Surface Soil	Start Depth (ft)	1.50			7.50			1.50			9.50			1.50			11.50			1.50			8.50		
				End Depth (ft)	2.00			8.00			2.00			10.00			2.00			12.00			2.00			9.00		
TCL Semivolatiles				Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Acenaphthene	83-32-9	170,000,000	190,000,000	ug/kg	ND		7.4	ND		1500	81		74	55		7.2	ND		7.5	ND		7.2	ND		7.8	ND		7.4
Acenaphthylene	208-96-8	170,000,000	190,000,000	ug/kg	2.3	J	7.4	ND		1500	91		74	7.1	J	7.2	ND		7.5	ND		7.2	ND		7.8	ND		7.4
Acetophenone	98-86-2	10,000,000	10,000,000	ug/kg	ND		36	ND		7400	ND		360	ND		35	ND		37	ND		35	ND		39	ND		36
Anthracene	120-12-7	190,000,000	190,000,000	ug/kg	ND		7.4	ND		1500	280		74	94		7.2	ND		7.5	ND		7.2	ND		7.8	ND		7.4
Atrazine[2]	1912-24-9	360,000	190,000,000	ug/kg	ND		36	ND		7400	ND		360	ND		35	ND		37	ND		35	ND		39	ND		36
Benzaldehyde	100-52-7	NS	NS	ug/kg	ND		36	ND		7400	ND		360	ND		35	ND		37	ND		35	ND		39	ND		36
Benzo(a)anthracene	56-55-3	110,000	190,000,000	ug/kg	6.6	J	7.4	ND		1500	1800		74	250		7.2	2.8	J	7.5	ND		7.2	ND		7.8	ND		7.4
Benzo(a)pyrene	50-32-8	11,000	190,000,000	ug/kg	10		7.4	ND		1500	1900		74	270		7.2	3.1	J	7.5	ND		7.2	ND		7.8	ND		7.4
Benzo(b)fluoranthene	205-99-2	110,000	190,000,000	ug/kg	11		7.4	ND		1500	2600		74	370		7.2	4.5	J	7.5	ND		7.2	ND		7.8	ND		7.4
Benzo(g,h,i)perylene	191-24-2	170,000,000	190,000,000	ug/kg	9.7		7.4	ND		1500	1400		74	150		7.2	1.8	J	7.5	ND		7.2	ND		7.8	ND		7.4
Benzo(k)fluoranthene	207-08-9	1,100,000	190,000,000	ug/kg	6.5	J	7.4	ND		1500	1000		74	140		7.2	1.5	J	7.5	ND		7.2	ND		7.8	ND		7.4
1,1'-Biphenyl	92-52-4	140,000,000	190,000,000	ug/kg	ND		36	ND		7400	ND		360	7.8	J	35	ND		37	ND		35	ND		39	ND		36
bis(2-Chloroethoxy) methane[2]	111-91-1	100,000	100,000	ug/kg	ND		36	ND		7400	ND		360	ND		35	ND		37	ND		35	ND		39	ND		36
bis(2-Chloroethyl) ether	111-44-4	5,000	5,700	ug/kg	ND		7.4	ND		1500	ND		74	ND		7.2	ND		7.5	ND		7.2	ND		7.8	ND		7.4
2,2'-oxybis(1-Chloropropane)	108-60-1	160,000	190,000	ug/kg	ND		7.4	ND		1500	ND		74	ND		7.2	ND		7.5	ND		7.2	ND		7.8	ND		7.4
bis-(2-Ethylhexyl)phthalate	117-81-7	5,700,000	10,000,000	ug/kg	7.9	J	36	ND		7400	ND		360	110		35	15	J	37	ND		35	18	J	39	ND		36
4-Bromophenyl-phenylether[2]	101-55-3	100,000	100,000	ug/kg	ND		36	ND		7400	ND		360	ND		35	ND		37	ND		35	ND		39	ND		36
Butylbenzylphthalate	85-68-7	10,000,000	10,000,000	ug/kg	7.1	J	36	ND		7400	ND		360	5.6	J	35	ND		37	3.6	J	35	ND		39	11	J	36
Caprolactam	105-60-2	NS	NS	ug/kg	ND		36	ND		7400	ND		360	ND		35	ND		37	7.9	J	35	ND		39	ND		36
Carbazole	86-74-8	4,000,000	190,000,000	ug/kg	ND		7.4	ND		1500	300		74	68		7.2	ND		7.5	ND		7.2	ND		7.8	ND		7.4
4-Chloro-3-methylphenol	59-50-7	14,000,000	190,000,000	ug/kg	ND		36	ND		7400	ND		360	ND		35	ND		37	ND		35	ND		39	ND		36
4-Chloroaniline	106-47-8	11,000,000	190,000,000	ug/kg	ND		36	ND		7400	ND		360	ND		35	ND		37	ND		35	ND		39	ND		36
2-Chloronapthalene	91-58-7	190,000,000	190,000,000	ug/kg	ND		7.4	ND		1500	ND		74	ND		7.2	ND		7.5	ND		7.2	ND		7.8	ND		7.4
2-Chlorophenol	95-57-8	920,000	1,100,000	ug/kg	ND		36	ND		7400	ND		360	ND		35	ND		37	ND		35	ND		39	ND		36
4-Chlorophenyl-phenylether[2]	7005-72-3	100,000	100,000	ug/kg	ND		36	ND		7400	ND		360	ND		35	ND		37	ND		35	ND		39	ND		36
Chrysene	218-01-9	11,000,000	190,000,000	ug/kg	12		7.4	ND		1500	2100		74	400		7.2	3.3	J	7.5	ND		7.2	ND		7.8	ND		7.4
2-Methylphenol	95-48-7	10,000,000	10,000,000	ug/kg	ND		36	ND		7400	ND		360	ND		35	ND		37	ND		35	ND		39	ND		36
4-Methylphenol	106-44-5	14,000,000	190,000,000	ug/kg	ND		36	ND		7400	ND		360	ND		35	ND		37	ND		35	ND		39	ND		36
Dibenzo(a,h)anthracene	53-70-3	11,000	190,000,000	ug/kg	ND		7.4	ND		1500	330		74	41		7.2	ND		7.5	ND		7.2	ND		7.8	ND		7.4
Dibenzofuran[2]	132-64-9	100,000	100,000	ug/kg	ND		36	ND		7400	45	J	360	40		35	ND		37	ND		35	ND		39	ND		36
3,3'-Dichlorobenzidine	91-94-1	180,000	190,000,000	ug/kg	ND		36	ND		7400	ND		360	ND		35	ND		37	ND		35	ND		39	ND		36
2,4-Dichlorophenol	120-83-2	8,400,000	190,000,000	ug/kg	ND		7.4	ND		1500	ND		74	ND		7.2	ND		7.5	ND		7.2	ND		7.8	ND		7.4
Diethylphthalate	84-66-2	10,000,000	10,000,000	ug/kg	ND		36	ND		7400	ND		360	ND		35	ND		37	ND		35	ND		39	ND		36
2,4-Dimethylphenol	105-67-9	10,000,000	10,000,000	ug/kg	ND		36	ND		7400	ND		360	ND		35	ND		37	ND		35	ND		39	ND		36
Dimethylphthalate[2]	131-11-3	100,000	100,000	ug/kg	ND		36	ND		7400	ND		360	ND		35	ND		37	ND		35	ND		39	ND		36
Di-n-butylphthalate	84-74-2	10,000,000	10,000,000	ug/kg	8.3	J	36	ND		7400	ND		360	18	J	35	16	J	37	ND		35	10	J	39	10	J	36
4,6-Dinitro-2-methylphenol[2,4]	534-52-1	100,000	100,000	ug/kg	ND		190	ND		36000	ND		1900	ND		180	ND		190	ND		180	ND		200	ND		190
2,4-Dinitrophenol	51-28-5	5,600,000	190,000,000	ug/kg	ND		190	ND		36000	ND		1900	ND		180	ND		190	ND		180	ND		200	ND		190
2,4-Dinitrotoluene	121-14-2	260,000	190,000,000	ug/kg	ND		36	ND		7400	ND		360	ND		35	ND		37	ND		35	ND		39	ND		36
2,6-Dinitrotoluene	606-20-2	2,800,000	190,000,000	ug/kg	ND		36	ND		7400	ND		360	ND		35	ND		37	ND		35	ND		39	ND		36
Fluoranthene	206-44-0	110,000,000	190,000,000	ug/kg	22		7.4	ND		1500	5100		74	710		7.2	6.9	J	7.5	ND		7.2	3.1	J	7.8	ND		7.4
Fluorene	86-73-7	110,000,000	190,000,000	ug/kg	ND		7.4	ND		1500	81		74	75		7.2	ND		7.5	ND		7.2	ND		7.8	ND		7.4
Hexachlorobenzene	118-74-1	50,000	190,000,000	ug/kg	ND		7.4	ND		1500	ND		74	ND		7.2	ND		7.5	ND		7.2	ND		7.8	ND		7.4
Hexachlorobutadiene	87-68-3	560,000	10,000,000	ug/kg	ND		7.4	ND		1500	ND		74	ND		7.2	ND		7.5	ND		7.2	ND		7.8	ND		7.4
Hexachlorocyclopentadiene	77-47-4	10,000,000	10,000,000	ug/kg	ND		36	ND		7400	ND		360	ND		35	ND		37	ND		35	ND		39	ND		36
Hexachloroethane	67-72-1	2,800,000	190,000,000	ug/kg	ND		36	ND		7400	ND		360	ND		35	ND		37	ND		35	ND		39	ND		36
Indeno(1,2,3-cd)pyrene	193-39-5	110,000	190,000,000	ug/kg	4.8	J	7.4	ND		1500	1300		74	140		7.2	1.6	J	7.5	ND		7.2	ND		7.8	ND		7.4
Isophorone	78-59-1	10,000,000	10,000,000	ug/kg	ND		36	ND		7400	380		360	ND		35	ND		37	ND		35	ND		39	ND		36
2-Methylnaphthalene	91-57-6	10,000,000	10,000,000	ug/kg	ND		7.4	30000		1500	ND		74	11		7.2	ND		7.5	ND		7.2	5	J	7.8	2.5	J	7.4
Naphthalene	91-20-3	56,000,000	190,000,000	ug/kg	4.2	J	7.4	210000		1500	24	J	74	24		7.2	ND		7.5	ND		7.2	35		7.8	15		7.4
2-Nitroaniline[2]	88-74-4	160,000	190,000,000	ug/kg	ND		190	ND		38000	ND		1900	ND		180	ND		190	ND		180	ND		200	ND		190
3-Nitroaniline[2]	99-09-2	160,000	190,000,000	ug/kg	ND		190	ND		38000	ND		1900	ND		180	ND		190	ND		180	ND		200	ND		190
4-Nitroaniline[2]	100-01-6	160,000	190,000,000	ug/kg	ND		190	ND		38000	ND		1900	ND		180	ND		190	ND		0.18	ND		200	ND		190
Nitrobenzene	98-95-3	1,400,000	10,000,000	ug/kg	ND		7.4	ND		1500	ND		74	ND		7.2	ND		7.5	ND		7.2	ND		7.8	ND		7.4
2-Nitrophenol	88-75-5	22,000,000	190,000,000	ug/kg	ND		36	ND		7400	ND		360	ND		35	ND		37	ND		35	ND		39	ND		36
4-Nitrophenol	100-02-7	22,000,000	190,000,000	ug/kg	ND		190	ND		38000	ND		1900	ND		180	ND		190	ND		180	ND		200	ND		190
N-Nitrosodi-n propylamine	621-64-7	11,000	10,000,000	ug/kg	ND		7.4	ND		1500	ND		74	ND		7.2	ND		7.5	ND		7.2	ND		7.8	ND		7.4
N-Nitrosodiphenylamine	86-30-6	10,000,000	10,000,000	ug/kg	ND		7.4	ND		1500	ND		74	ND		7.2	ND		7.5	ND		7.2	ND		7.8	ND		7.4
Di-n octylphthalate	117-84-0	10,000,000	10,000,000	ug/kg	ND		36	ND		7400	ND		360	ND		35	ND		37	ND		35	ND		39	ND		36
Pentachlorophenol	87-86-5	660,000	190,000,000	ug/kg	ND		36	ND		7400	ND		360	ND		35	ND		37	ND		35	ND		39	ND		36
Phenanthrene	85-01-8	190,000,000	190,000,000	ug/kg	11		7.4	ND		1500	2100		74	410		7.2	5.6	J	7.5	2.6	J	7.2	4.3	J	7.8	3.8	J	7.4
Phenol	108-95-2	190,000,000	190,000,000	ug/kg	ND		7.4	ND		1500	ND		74	ND		7.2	ND		7.5	ND		7.2	ND		7.8	ND		7.4
Pyrene	129-00-0	84,000,000	190,000,000	ug/kg	19		7.4	ND		1500	3600		74	520		7.2	5.4	J	7.5	ND		7.2	ND		7.8	ND		7.4
2,4,5-Trichlorophenol	95-95-4	190,000,000	190,000,000	ug/kg	ND		36	ND		7400	ND		360	ND		35	ND		37	ND		35	ND		39	ND		36
2,4,6-Trichlorophenol	88-06-2	840,000	190,000,000	ug/kg	ND		36	ND		7400	ND		360	ND		35	ND		37	ND		35	ND		39	ND		36

Table 2
Summary of Soil Analytical Results
Comparison to Pennsylvania Non-Residential Statewide Health Direct Contact Soil MSCs
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC		Location ID	STP-12			STP-12			STP-13			STP-13			STP-14			STP-14			STP-15			STP-15		
				Sample ID	034-STP-12_1.5-2.0'			035-STP-12_7.5-8.0'			003-STP-13_1.5-2.0			004-STP-13_9.5-10			012-STP-14_1.5-2.0			013-STP-14_11.5-12			036-STP-15_1.5-2.0'			037-STP-15_8.5-9.0'		
				Sample Date	11/01/07			11/01/07			10/30/07			10/30/07			10/31/07			10/31/07			11/01/07			11/01/07		
				Depth to GW	8.00			8.00			10.00			10.00			12.00			12.00			9.00			9.00		
		0-2 ft Surface Soil	2-15 ft Sub-Surface Soil	Start Depth (ft)	1.50			7.50			1.50			9.50			1.50			11.50			1.50			8.50		
				End Depth (ft)	2.00			8.00			2.00			10.00			2.00			12.00			2.00			9.00		
PCB (ug/kg)				Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Aroclor 1016	12674-11-2	200,000	10,000,000	ug/kg	ND		36	110		37	ND		36	ND		36	ND		37	ND		36	ND		39	ND		36
Aroclor 1221	11104-28-2	160,000	10,000,000	ug/kg	ND		36	ND		37	ND		36	ND		36	ND		37	ND		36	ND		39	ND		36
Aroclor 1232	11141-16-5	160,000	10,000,000	ug/kg	ND		36	ND		37	ND		36	ND		36	ND		37	ND		36	ND		39	ND		36
Aroclor 1242	53469-21-9	160,000	10,000,000	ug/kg	ND		36	ND		37	ND		36	ND		36	ND		37	ND		36	ND		39	ND		36
Aroclor 1248	12672-29-6	44,000	10,000,000	ug/kg	ND		36	ND		37	ND		36	ND		36	ND		37	ND		36	ND		39	ND		36
Aroclor 1254	11097-69-1	44,000	10,000,000	ug/kg	ND		36	ND		37	ND		36	ND		36	ND		37	ND		36	ND		39	ND		36
Aroclor 1260	11096-82-5	130,000	190,000,000	ug/kg	ND		36	1100		37	130		36	35	J	36	1700		37	ND		36	ND		39	ND		36
PP Metals (mg/kg)				ug/kg	ND		36	ND		37	ND		36	ND		36	ND		37	ND		36	ND		39	ND		36
Antimony	7440-36-0	1.100	190.000	mg/kg	0.021	B	0.22	0.037	B	0.23	0.021	B	0.22	0.056	B	0.22	0.042	B	0.22	0.059	B	0.22	0.027	B	0.23	0.012	B	0.22
Arsenic	7440-38-2	53	190.000	mg/kg	3.8		0.11	1.7		0.11	7		0.11	5.6		0.11	4.4	J	0.11	3.3	J	0.11	3.6		0.12	1.9		0.11
Beryllium	7440-41-7	190.000	190.000	mg/kg	0.38		0.11	0.25		0.11	0.48		0.11	1.4		0.11	0.38		0.11	0.41		0.11	0.3		0.12	0.22		0.11
Cadmium	7440-43-9	210	190.000	mg/kg	0.12		0.11	0.097	B	0.11	0.19		0.11	0.13		0.11	0.089	B	0.11	0.094	B	0.11	0.081	B	0.12	0.057	B	0.11
Chromium [2]	7440-47-3	190.000	190.000	mg/kg	10.8		0.22	12.6		0.23	11.7	J	0.22	34.5	J	0.22	8.9	J	0.22	8.3	J	0.22	7.6		0.23	5.9		0.22
Copper	7440-50-8	100.000	190.000	mg/kg	13	J	0.22	8.8	J	0.23	15.3	J	0.22	27.3	J	0.22	11		0.22	10.5		0.22	11.2	J	0.23	7.9	J	0.22
Lead	7439-92-1	1.000	190.000	mg/kg	9.6		0.11	4.2		0.11	15.2		0.11	15.6		0.11	8.4		0.11	7.4		0.11	8.5		0.12	4.1		0.11
Mercury	7439-97-6	840	190.000	mg/kg	0.019	B	0.036	0.01	B	0.037	0.035	B	0.036	0.0083	B	0.036	0.03	B	0.037	0.0092	B	0.036	0.027	B	0.039	0.0093	B	0.036
Nickel	7440-02-0	56.000	190000	mg/kg	13.6		0.11	7.9		0.11	12.2		0.11	22.4		0.11	12.3	J	0.11	11.1	J	0.11	12.6		0.12	9.6		0.11
Selenium	7782-49-2	14.000	190.000	mg/kg	0.24	B	0.55	0.19	B	0.56	0.68	J	0.55	0.79	J	0.54	0.47	B	0.56	0.38	B	0.54	0.17	B	0.59	0.096	B	0.55
Silver	7440-22-4	14.000	190000	mg/kg	0.015	B	0.11	0.011	B	0.11	0.0073	B	0.11	0.029	B	0.11	ND		0.11	ND		0.11	0.011	B	0.12	0.008	B	0.11
Thallium	7440-28-0	200	190000	mg/kg	0.066	B	0.11	0.031	B	0.11	0.086	B J	0.11	0.47	J	0.11	0.078	B	0.11	0.07	B	0.11	0.055	B	0.12	0.031	B	0.11
Zinc	7440-66-6	190.000	190.000	mg/kg	33.4	J	0.55	26.9	J	0.56	38.6	J	0.55	53.1	J	0.54	28.8	J	0.56	27.1	J	0.54	28.8	J	0.59	22.7	J	0.55
General Chemistry				Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Percent Solids	none	NS	NS	percent	90.5	-	-	88.6	-	-	90.7			92.2			88.9			92.1			85.4			91		

Laboratory Qualifiers

Organic Qualifiers

B = Analyte was detected in the method blank.
J = Estimated Result. Result is less than RL.

Inorganic Qualifiers

J = Estimated Result. Result is less than RL.
B = Analyte was detected in the method blank.

Notes

PADEP = Pensylvania Department of Environmental Protection
MSC = PADEP's Medium Specific Concentration for surface and subsurface soil.
RL = Reporting Limit
NS = No Act 2 Remediation Standard
Q = Laboratory Qualifier
ND = Not Detetected at concentrations above the laboratory reporting limit.
ug/kg =microgram per kilogram.
mg/kg =milligram per kilogram.

1. MSC listed for cis-1,3-Dichloropropene aNDtrans-1,3-Dichloropropene is based on the MSC for 1,3-Dichloropropene (Total)
2. Chromium III was used as the most stringent chromium standard.

Table 2
Summary of Soil Analytical Results
Comparison to Pennsylvania Non-Residential Statewide Health Direct Contact Soil MSCs
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC		Location ID	016-FB-2-103107			007-FB-1_103007			031-FB-3_110107			011-TB-1-103107			027-TB 2_103007			038-TB-3_110107		
				Sample ID	C7K010229-005			C7J310198-007			C7K020245-004			C7J310198-011			C7K010229-016			C7K020245-011		
				Sample Date	10/31/07			10/30/07			10/30/07			10/31/07			10/30/07			10/30/07		
				Depth to GW	WATER			WATER			WATER			WATER			WATER			WATER		
		0-2 ft	2-15 ft	Start Depth (ft)	1.00			1.00			1.00			1.00			1.00			1.00		
		Surface Soil	Sub-Surface	End Depth (ft)	ug/L			ug/L			ug/L			ug/L			ug/L			ug/L		
TCL Volatiles				Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Acetone	67-64-1	10,000,000	10,000,000	ug/kg	ND		5	3.2	J	5	2.8	J	5	3.3	J	5	ND		5	ND		5
Benzene	71-43-2	210,000	240,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Bromodichloromethane	75-27-4	45,000	51,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Bromoform	75-25-2	1,500,000	1,700,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Bromomethane	74-83-9	270,000	300,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
2-Butanone	78-93-3	10,000,000	10,000,000	ug/kg	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Carbon Disulfide	75-15-0	10,000,000	10,000,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Carbon Tetrachloride	56-23-5	110,000	120,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Chlorobenzene	108-90-7	10,000,000	10,000,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Chloroethane	75-00-3	10,000,000	10,000,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Chloroform	67-66-3	17,000	19,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Chloromethane	74-87-3	920,000	1,000,000	ug/kg	0.46	J	1	ND		1	ND		1	ND		1	ND		1	ND		1
Isopropylbenzene	98-82-8	10,000,000	10,000,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Cyclohexane	110-82-7	100,000	100,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
1,2-Dibromoethane	106-93-4	930	8,600	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
1,2-Dibromo-3-chloropropane	96-12-8	11,000	12,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Dibromochloromethane	124-48-1	61,000	70,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
1,4-Dichlorobenzene	106-46-7	3,300,000	190,000,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
1,2-Dichlorobenzene	95-50-1	10,000,000	10,000,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
1,3-Dichlorobenzene	541-73-1	10,000,000	10,000,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Dichlorodifluoromethane	75-71-8	10,000,000	10,000,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
1,1-Dichloroethane	75-34-3	1,000,000	1,200,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
1,2-Dichloroethane	107-06-2	63,000	73,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
trans-1,2-Dichloroethene	156-60-5	3,700,000	4,300,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
cis-1,2-Dichloroethene	156-59-2	1,900,000	2,100,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
1,1-Dichloroethene	75-35-4	33,000	38,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
1,2-Dichloropropane	78-87-5	160,000	180,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
trans-1,3-Dichloropropene	10061-02-6	410,000	470,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
cis-1,3-Dichloropropene	10061-01-5	410,000	470,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Ethylbenzene	100-41-4	10,000,000	10,000,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
2-Hexanone	591-78-6	100,000	100,000	ug/kg	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Methyl Acetate	79-20-9	10,000,000	10,000,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Methyl tert-Butyl Ether	1634-04-4	3,200,000	3,700,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
4-Methyl-2-pentanone	108-10-1	4,300,000	4,900,000	ug/kg	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Methylcyclohexane	108-87-2	NS	NS	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Methylene Chloride	75-09-2	3,500,000	4,000,000	ug/kg	ND		1	0.27	J	1	0.28	J,B	1	1		1	ND		1	0.51	J,B	1
Styrene	100-42-5	1,000,000	1,000,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
1,1,2,2-Tetrachloroethane	79-34-5	28,000	33,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Tetrachloroethene	127-18-4	1,500,000	3,300,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Toluene	108-88-3	10,000,000	10,000,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Xylenes (Total)	1330-20-7	10,000,000	10,000,000	ug/kg	ND		3	ND		3	ND		3	ND		3	ND		3	ND		3
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	190,000,000	190,000,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
1,2,4-Trichlorobenzene	120-82-1	10,000,000	10,000,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
1,1,1-Trichloroethane	71-55-6	10,000,000	10,000,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
1,1,2-Trichloroethane	79-00-5	100,000	120,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Trichloroethene	79-01-6	970,000	1,100,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Trichlorofluoromethane	75-69-4	10,000,000	10,000,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Vinyl Chloride	75-01-4	53,000	220,000	ug/kg	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1

Table 2
Summary of Soil Analytical Results
Comparison to Pennsylvania Non-Residential Statewide Health Direct Contact Soil MSCs
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC		Location ID	016-FB-2-103107			007-FB-1_103007			031-FB-3_110107			011-TB-1-103107			027-TB-2_103007			038-TB-3_110107		
				Sample ID	C7K010229-005			C7J310198-007			C7K020245-004			C7J310198-011			C7K010229-016			C7K020245-011		
				Sample Date	10/31/07			10/30/07			10/30/07			10/31/07			10/30/07			10/30/07		
				Depth to GW	WATER			WATER			WATER			WATER			WATER			WATER		
		0-2 ft Surface Soil	2-15 ft Sub-Surface	Start Depth (ft)	1.00			1.00			1.00			1.00			1.00			1.00		
				End Depth (ft)	ug/L			ug/L			ug/L			ug/L			ug/L			ug/L		
TCL Semivolatiles				Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Acenaphthene	83-32-9	170,000,000	190,000,000	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
Acenaphthylene	208-96-8	170,000,000	190,000,000	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
Acetaphenone	98-86-2	10,000,000	10,000,000	ug/kg	ND		0.95	ND		0.95	ND		0.95	-		-	-		-	-		-
Anthracene	120-12-7	190,000,000	190,000,000	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
Atrazine[1]	1912-24-9	360,000	190,000,000	ug/kg	ND		0.96	ND		0.95	ND		0.95	-		-	-		-	-		-
Benzaldehyde	100-52-7	NS	NS	ug/kg	ND		0.96	ND		0.95	ND		0.95	-		-	-		-	-		-
Benzo(a)anthracene	56-55-3	110,000	190,000,000	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
Benzo(a)pyrene	50-32-8	11,000	190,000,000	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
Benzo(b)fluoranthene	205-99-2	110,000	190,000,000	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
Benzo(g,h,i)perylene	191-24-2	170,000,000	190,000,000	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
Benzo(k)fluoranthene	207-08-9	1,100,000	190,000,000	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
1,1'-Biphenyl	92-52-4	140,000,000	190,000,000	ug/kg	ND		0.96	ND		0.95	ND		0.95	-		-	-		-	-		-
bis(2-Chloroethoxyl) methane[2]	111-91-1	100,000	100,000	ug/kg	ND		0.96	ND		0.95	ND		0.95	-		-	-		-	-		-
bis(2-Chloroethyl) ether	111-44-4	5,000	5,700	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
2,2'-oxybis(1-Chloropropane)	108-60-1	160,000	190,000	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
bis-(2-Ethylhexyl)phthalate	117-81-7	5,700,000	10,000,000	ug/kg	ND		0.96	ND		0.95	0.17	J	0.95	-		-	-		-	-		-
4-Bromophenyl-phenylether[3]	101-55-3	100,000	100,000	ug/kg	ND		0.96	ND		0.95	ND		0.95	-		-	-		-	-		-
Butylbenzylphthalate	85-68-7	10,000,000	10,000,000	ug/kg	ND		0.96	0.18	J	0.95	ND		0.95	-		-	-		-	-		-
Caprolactam	105-60-2	NS	NS	ug/kg	ND		0.96	0.27	J	0.95	ND		0.95	-		-	-		-	-		-
Carbazole	86-74-8	4,000,000	190,000,000	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
4-Chloro-3-methylphenol	59-50-7	14,000,000	190,000,000	ug/kg	ND		0.96	ND		0.95	ND		0.95	-		-	-		-	-		-
4-Chloroaniline	106-47-8	11,000,000	190,000,000	ug/kg	ND		0.96	ND		0.95	ND		0.95	-		-	-		-	-		-
2-Chloronapthalene	91-58-7	190,000,000	190,000,000	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
2-Chlorophenol	95-57-8	920,000	1,100,000	ug/kg	ND		0.96	ND		0.95	ND		0.95	-		-	-		-	-		-
4-Chlorophenyl-phenylether[3]	7005-72-3	100,000	100,000	ug/kg	ND		0.96	ND		0.95	ND		0.95	-		-	-		-	-		-
Chrysene	218-01-9	11,000,000	190,000,000	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
2-Methylphenol	95-48-7	10,000,000	10,000,000	ug/kg	ND		0.96	ND		0.95	ND		0.95	-		-	-		-	-		-
4-Methylphenol	106-44-5	14,000,000	190,000,000	ug/kg	ND		0.96	ND		0.95	ND		0.95	-		-	-		-	-		-
Dibenzo(a,h)anthracene	53-70-3	11,000	190,000,000	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
Dibenzofuran[3]	132-64-9	100,000	100,000	ug/kg	ND		0.96	ND		0.95	ND		0.95	-		-	-		-	-		-
3,3'-Dichlorobenzidine	91-94-1	180,000	190,000,000	ug/kg	ND		0.96	ND		0.95	ND		0.95	-		-	-		-	-		-
2,4-Dichlorophenol	120-83-2	8,400,000	190,000,000	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
Diethylphthalate	84-66-2	10,000,000	10,000,000	ug/kg	ND		0.96	ND		0.95	ND		0.95	-		-	-		-	-		-
2,4-Dimethylphenol	105-67-9	10,000,000	10,000,000	ug/kg	ND		0.96	ND		0.95	ND		0.95	-		-	-		-	-		-
Dimethylphthalate[3]	131-11-3	100,000	100,000	ug/kg	ND		0.96	ND		0.95	ND		0.95	-		-	-		-	-		-
Di-n-butylphthalate	84-74-2	10,000,000	10,000,000	ug/kg	ND		0.96	0.091	J	0.95	ND		0.95	-		-	-		-	-		-
4,6-Dinitro-2-methylphenol[2,3]	534-52-1	100,000	100,000	ug/kg	ND		4.8	ND		4.8	ND		4.8	-		-	-		-	-		-
2,4-Dinitrophenol	51-28-5	5,600,000	190,000,000	ug/kg	ND		4.8	ND		4.8	ND		4.8	-		-	-		-	-		-
2,4-Dinitrotoluene	121-14-2	260,000	190,000,000	ug/kg	ND		0.96	ND		0.95	ND		0.95	-		-	-		-	-		-
2,6-Dinitrotoluene	606-20-2	2,800,000	190,000,000	ug/kg	ND		0.96	ND		0.95	ND		0.95	-		-	-		-	-		-
Fluoranthene	206-44-0	110,000,000	190,000,000	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
Fluorene	86-73-7	110,000,000	190,000,000	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
Hexachlorobenzene	118-74-1	50,000	190,000,000	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
Hexachlorobutadiene	87-68-3	560,000	10,000,000	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
Hexachlorocyclopentadiene	77-47-4	10,000,000	10,000,000	ug/kg	ND		0.96	ND		0.95	ND		0.95	-		-	-		-	-		-
Hexachloroethane	67-72-1	2,800,000	190,000,000	ug/kg	ND		0.96	ND		0.95	ND		0.95	-		-	-		-	-		-
Indeno(1,2,3-cd)pyrene	193-39-5	110,000	190,000,000	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
Isophorone	78-59-1	10,000,000	10,000,000	ug/kg	ND		0.96	ND		0.95	ND		0.95	-		-	-		-	-		-
2-Methylnaphthalene	91-57-6	10,000,000	10,000,000	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
Naphthalene	91-20-3	56,000,000	190,000,000	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
2-Nitroaniline[3]	88-74-4	160,000	190,000,000	ug/kg	ND		4.8	ND		4.8	ND		4.8	-		-	-		-	-		-
3-Nitroaniline[3]	99-09-2	160,000	190,000,000	ug/kg	ND		4.8	ND		4.8	ND		4.8	-		-	-		-	-		-
4-Nitroaniline[3]	100-01-6	160,000	190,000,000	ug/kg	ND		4.8	ND		4.8	ND		4.8	-		-	-		-	-		-
Nitrobenzene	98-95-3	1,400,000	10,000,000	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
2-Nitrophenol	88-75-5	22,000,000	190,000,000	ug/kg	ND		0.96	ND		0.95	ND		0.95	-		-	-		-	-		-
4-Nitrophenol	100-02-7	22,000,000	190,000,000	ug/kg	ND		4.8	ND		4.8	ND		4.8	-		-	-		-	-		-
N-Nitrosodi-n-propylamine	621-64-7	11,000	10,000,000	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
N-Nitrosodiphenylamine	86-30-6	10,000,000	10,000,000	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
Di-n-octylphthalate	117-84-0	10,000,000	10,000,000	ug/kg	ND		0.96	ND		0.95	ND		0.95	-		-	-		-	-		-
Pentachlorophenol	87-86-5	660,000	190,000,000	ug/kg	ND		0.96	ND		0.95	ND		0.95	-		-	-		-	-		-
Phenanthrene	85-01-8	190,000,000	190,000,000	ug/kg	ND		0.19	0.085	J	0.19	ND		0.19	-		-	-		-	-		-
Phenol	108-95-2	190,000,000	190,000,000	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
Pyrene	129-00-0	84,000,000	190,000,000	ug/kg	ND		0.19	ND		0.19	ND		0.19	-		-	-		-	-		-
2,4,5-Trichlorophenol	95-95-4	190,000,000	190,000,000	ug/kg	ND		0.96	ND		0.95	ND		0.95	-		-	-		-	-		-
2,4,6-Trichlorophenol	88-06-2	840,000	190,000,000	ug/kg	ND		0.96	ND		0.95	ND		0.95	-		-	-		-	-		-

Table 2
Summary of Soil Analytical Results
Comparison to Pennsylvania Non-Residential Statewide Health Direct Contact Soil MSCs
U. S. Steel - Proposed Samax 14.2-Acre Parcel
Fairless Hills, Pennsylvania

	CAS No.	PADEP Non-Residential Direct Contact Non-Use Aquifer MSC		Location ID	016-FB-2-103107			007-FB-1_103007			031-FB-3_110107			011-TB-1-103107			027-TB-2_103007			038-TB-3_110107		
				Sample ID	C7K010229-005			C7J310198-007			C7K020245-004			C7J310198-011			C7K010229-016			C7K020245-011		
				Sample Date	10/31/07			10/30/07			10/30/07			10/31/07			10/30/07			10/30/07		
				Depth to GW	WATER			WATER			WATER			WATER			WATER			WATER		
		0-2 ft Surface Soil	2-15 ft Sub-Surface	Start Depth (ft)	1.00			1.00			1.00			1.00			1.00			1.00		
				End Depth (ft)	ug/L			ug/L			ug/L			ug/L			ug/L			ug/L		
PCB (ug/kg)				Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Aroclor 1016	12674-11-2	200.000	10,000.000	ug/kg	ND		0.95	ND		0.95	ND		0.95	-		-	-		-	-		-
Aroclor 1221	11104-28-2	160.000	10,000.000	ug/kg	ND		0.95	ND		0.95	ND		0.95	-		-	-		-	-		-
Aroclor 1232	11141-16-5	160.000	10,000.000	ug/kg	ND		0.95	ND		0.95	ND		0.95	-		-	-		-	-		-
Aroclor 1242	53469-21-9	160.000	10,000.000	ug/kg	ND		0.95	ND		0.95	ND		0.95	-		-	-		-	-		-
Aroclor 1248	12672-29-6	44.000	10,000.000	ug/kg	ND		0.95	ND		0.95	ND		0.95	-		-	-		-	-		-
Aroclor 1254	11097-69-1	44.000	10,000.000	ug/kg	ND		0.95	ND		0.95	ND		0.95	-		-	-		-	-		-
Aroclor 1260	11096-82-5	130.000	190,000.000	ug/kg	ND		0.95	ND		0.95	ND		0.95	-		-	-		-	-		-
PP Metals (mg/kg)				Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Antimony	7440-36-0	9.100	190.000	mg/kg	ND		2	ND		2	0.23	B	2	-		-	-		-	-		-
Arsenic	7440-38-2	53	190.000	mg/kg	ND		1	ND		1	0.33	B J	1	-		-	-		-	-		-
Beryllium	7440-41-7	190.000	190.000	mg/kg	ND		1	ND		1	ND		1	-		-	-		-	-		-
Cadmium	7440-43-9	210	190.000	mg/kg	ND		1	ND		1	ND		1	-		-	-		-	-		-
Chromium [2]	7440-47-3	190.000	190.000	mg/kg	1.6	B J	2	1.4	B J	2	1.6	J	2	-		-	-		-	-		-
Copper	7440-50-8	100.000	190.000	mg/kg	ND		2	0.17	B	2	2.8	B	2	-		-	-		-	-		-
Lead	7439-92-1	1,000	190.000	mg/kg	ND		1	ND		1	ND		1	-		-	-		-	-		-
Mercury	7439-97-6	840	190.000	mg/kg	ND		0.2	ND		0.2	ND		0.2	-		-	-		-	-		-
Nickel	7440-02-0	56.000	190000	mg/kg	ND		1	ND		1	0.073	B	1	-		-	-		-	-		-
Selenium	7782-49-2	14,000	190.000	mg/kg	ND		5	ND		5	ND		5	-		-	-		-	-		-
Silver	7440-22-4	14,000	190000	mg/kg	ND		1	ND		1	ND		1	-		-	-		-	-		-
Thallium	7440-28-0	200	190000	mg/kg	0.21	B	1	0.048	B	1	0.089	B	1	-		-	-		-	-		-
Zinc	7440-66-6	190.000	190.000	mg/kg	ND		5	0.93	B	5	1.1	J	5	-		-	-		-	-		-
General Chemistry				Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Percent Solids	none	NS	NS	percent	NA		NA	NA		NA	NA		NA	-		-	-		-	-		-

Laboratory Qualifiers:

Organic Qualifiers:

B = Analyte was detected in the method blank.
J = Estimated Result. Result is less than RL.

Inorganic Qualifiers:

B = Estimated Result. Result is less than RL.
J = Analyte was detected in the method blank.

Notes:

PADEP = Pensylvania Department of Environmental Protection
MSC = PADEP's Medium Specific Concentration for surface and subsurface soil
RL = Reporting Limit
NS = No Act 2 Remediation Standard.
NA = Not Analyzed or Not Applicable
ND = Not Detetected at concentrations above the laboratory reporting limit.
ug/kg = microgram per kilogram
mg/kg = miligram per kilogram

1. MSC listed for cis-1,3-Dichloropropene a/kDtrans 1,3-Dichloropropene is based on the MSC for 1,3-Dichloropropene (Total).
2. Chromium III was used as the most stringent chromium standard.