Union Fork & Hoe Site
HERKIMER COUNTY, NEW YORK

Final Engineering Report

NYSDEC Site Number: 622011

Prepared for:
The Ames Companies, Inc.
465 Railroad Avenue
Camp Hill, PA 17011

Prepared by:
Tetra Tech
3136 S. Winton Drive
Rochester, NY

SEPTEMBER 2023

Certifications

I, Miranda Robinson, am currently a registered professional engineer licensed by the State of New York, I did not have primary direct responsibility for implementation of the remedial program activities, and I cannot certify that the Remedial Action Work Plan was implemented and that all construction activities were completed in substantial conformance with the Department-approved Remedial Action Work Plan. However, I have read through the project files and have compiled this report based on my findings.

I certify that the data submitted to the Department with this Final Engineering Report demonstrates that the remediation requirements set forth in the Remedial Action Work Plan and in all applicable statutes and regulations have been or will be achieved in accordance with the time frames, if any, established for the remedy.

I certify that all use restrictions, Institutional Controls, Engineering Controls, and/or any operation and maintenance requirements applicable to the Site are contained in an environmental easement created and recorded pursuant ECL 71-3605 and that all affected local governments, as defined in ECL 71-3603, have been notified that such easement has been recorded.

I certify that a Site Management Plan has been submitted for the continual and proper operation, maintenance, and monitoring of all Engineering Controls employed at the Site, including the proper maintenance of all remaining monitoring wells, and that such plan has been approved by the Department. Some monitoring wells have been buried, so not all can be properly maintained.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

I certify that all data generated in support of this report have been submitted in accordance with the Department's electronic data deliverable and have been accepted by the Department.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class “A” misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Miranda Robinson, of Tetra Tech am certifying as Owner’s Designated Site Representative (and I have been authorized and designated by the site owner to sign this certification) for the site.

The information and certifications made in the April 2022, Construction Completion Report were relied upon to prepare this report and certify that the remediation requirements for the site have been met.

103798	09/13/2023	Miranda F Robinson Digitally signed by Miranda F Robinson DN: C=US, E=miranda.robinson@tetratech.com, O=Tetra Tech, OU=CES, CN=Miranda F Robinson Reason: I have reviewed this document Contact Info: miranda.robinson@tetratech.com Date: 2023.09.13 14:24:03-04'00'
NYS Professional Engineer #	Date	Signature

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List of Acronyms

Ames	The Ames Companies, Inc.
BBJ	BBJ Group, LLC
QA/QC	Quality Assurance/Quality Control
CAMP	Community Air Monitoring Plan
COCs	Constituents of Concern
CQAP	Construction Quality Assurance Plan
cy	cubic yards
DUSR	Data Usability Summary Report
(ECs/ICs)	Engineering and Institutional Controls
EDDs	Electronic Data Deliverables
USEPA	United States Environmental Protection Agency
ft	feet
HASP	Health and Safety Plan
IRM	Interim Remedial Measure
LRI	Land Remediation, Inc
NYCRR	New York State Codes, Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OBG	O'Brien & Gere of North America, Inc.
OSHA	Occupational Safety and Health Administration
PCBs	Polychlorinated biphenyls
ppm	parts per million
PAHs	Polycyclic Aromatic Hydrocarbons
PCE	Perchloroethylene
RA	Remedial Action
RACP	Remedial Action Contingency Plan
RAOs	Remedial Action Objectives
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
RIR	Remedial Investigation Report
ROD	Record of Decision
RUSCO	Restricted Use Site Cleanup Objective
SAP	Sampling and Analysis Plan
SCOs	Soil Cleanup Objectives
SVOCs	Semi-volatile organic compounds
SMP	Site Management Plan
SWPPP	Stormwater Pollution Prevention Plan
TAL	Target Analyte List
TCL	Target Compound List
TCLP	Toxicity Characteristic Leaching Procedure
TT	Tetra Tech
VOCs	Volatile Organic Compounds
XRF	X-ray Fluorescence

1.0 Background and Site Description

The AMES Companies, Inc entered into an Order on Consent with the New York State Department of Environmental Conservation (NYSDEC) in August 2011 to investigate and remediate a 29-acre property located in the Village of Frankfort in Herkimer County, New York. The property was remediated to commercial use.

The Site is in the County of Herkimer, New York and is comprised of multiple properties identified as Blocks and Lots 3-1, 3-3, 3-35.1 on the Town of Frankfort Tax Map # 112.082, and Blocks and Lots 1-56, 1-63, 1-54, 1-57, and 1-52, 1-53, 1-58 and 3-2, on the Town of Frankfort Tax Map # 112.74. The Site is situated on a 32.74-acre area bounded by residential and commercial properties to the northwest, East Main Street to the southwest, industrial/commercial properties to the southeast, and a former railroad easement to the northeast. The boundaries of the Site are fully described in Appendix A: Metes and Bounds Survey. The Environmental Easement site plans and Asbuilt Drawings are also included for reference in Appendix B and C respectively.

2.0 Summary of Site Remedy

2.1 Remedial Action Objectives

Based on the results of the Remedial Investigation, the following Remedial Action Objectives (RAOs) were identified for this site as presented in the ROD

2.1.1 Groundwater RAOs

RAOs for Public Health Protection

- Prevent ingestion of groundwater containing contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles emanating from contaminated groundwater.

RAOs for Environmental Protection

- Restore ground water aquifer, to the extent practicable, to pre-disposal/pre-release conditions.

2.1.2 Soil RAOs

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of, or exposure to, contaminants volatilizing from contaminated soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

2.1.3 Soil Vapor RAOs

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at the Site

2.2 Description of Selected Remedy

The site was remediated in accordance with the remedy selected by the NYSDEC in the Record of Decision (ROD) dated March 2018. As presented in the ROD, the factors considered during the selection of the remedy are those listed in 6 New York Codes Rules and Regulations (NYCRR) 375-1.8. The following were the components of the selected remedy:

1. A remedial design program was implemented and provided the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques were implemented to the extent feasible in the design, implementation, and site management of the remedy as per DER-31. The major green remediation components were as follows:
    - Consider the environmental impacts of treatment technologies and remedy stewardship over the long term;
    - Reduce direct and indirect greenhouse gases and other emissions;
    - Increase energy efficiency and minimizing use of non-renewable energy;
    - Conserve and efficiently manage resources and materials;
    - Reduce waste, increase recycling and increase reuse of materials which would otherwise be considered a waste;
    - Maximize habitat value and create habitat when possible;
    - Foster green, healthy communities and work with landscapes to balance ecological, economic and social goals; and

- Integrate the remedy with an end use where possible and encourage green and sustainable re-development.

2. All on-site soils in the upper one foot which exceeded the commercial soil cleanup objectives (SCOs) as defined by 6 NYCRR Part 375-6.8 were excavated and transported off-site for disposal or reused on-site below the cover. Excavated surface soils which exceeded the hazardous waste threshold were treated on-site as described in remedy element 3 below, and then transported off-site for disposal at a permitted facility. Excavated non-hazardous surface soils which exceeded the commercial SCOs (for polycyclic aromatic hydrocarbons (PAHs) and other metals including arsenic, barium, copper and chromium) were either transported off-site for disposal at a permitted facility or reused on-site under the site cover as described in remedial element 6 below. Confirmation samples were collected from all excavated surface soil areas in accordance with DER-10. Excavation of surface soils continued on-site until commercial SCOs are met. Limited removal of on-site surface soils was conducted as part of this remedial action. Surface soils exceeding Commercial SCOs were identified leading into a 3.1-acre wooded area and outside the limits of the perimeter chain link fence in the southeast section of the Site and were not excavated as part of this remedial action.

3. Off-site soil in areas adjacent to four on-site excavation locations were to be excavated if confirmation samples from the onsite excavation boundaries exceed the soil cleanup objectives for residential use for site-related contaminants. Excavated off-site soils were to be handled as described in element 6 below. Tetra Tech performed a site assessment and NYSDEC determined no further investigation or enforcement was required.

4. Ex-situ stabilization was implemented to treat excavated soil which exceeded the hazardous waste threshold for metals. Ex-situ stabilization is a process that uses a stabilizing agent to decrease the leachability of contaminants, eliminating the hazardous characteristic of the contaminant and allowing the material to be disposed of as a non-hazardous solid waste. Under this process the contaminated soil was excavated and mixed in a temporary mixing facility with stabilizing ages prior to being disposed of at an appropriately permitted off-site facility.

5. Excavation and off-site disposal of identified subsurface contaminant source areas, including:
   - Soil exceeding the 6 NYCRR Part 371 hazardous criteria for metals; and
   - Soil exceeding 500 parts per million (ppm) for the total PAHs as defined in Commissioner Policy CP-51.

6. The on-site soil which did not exceed the excavation criteria in element 4 or the protection of groundwater SCOs for any constituent was used beneath the site cover, including below the water table, to backfill to existing grades. On-site soil which did not exceed the above excavation criteria but did exceed the protection of groundwater SCOs was used below the cover system above the water table. Clean fill meeting the requirements of 6 NYCRR Part 375-6.7(d) was brought in to complete the backfilling and establish the design grades. The site was re-graded to accommodate installation of the site cover. Brick debris from the former site buildings was utilized as backfill material. For off-site excavation areas, backfill met the residential SCOs.

7. A site cover was required to allow for commercial use of the site in areas where the upper one foot of exposed surface soil exceeded the applicable SCOs. The site cover included paved surfaces, parking areas, sidewalks and soil cover. Where a soil cover was used, a minimum of one foot of soil was placed over a demarcation layer, with the upper six inches of soil of sufficient quality to maintain a vegetative cover. Soil cover material, including any fill material brought to the site, met the SCOs for cover materials as set forth in 6 NYCRR Part 375.6.7(d).

8. Groundwater was monitored for site related contamination periodically which provided an understanding of the breaking down of contamination. It is anticipated that contamination will decrease to beneath groundwater standards without further active remediation. As stated in the Site Management Plan, under "7. Reporting Requirements" Groundwater Monitoring Report will be completed every five (5) years starting in 2022. This testing will continue until 2047 as per Section "4.3 Post-Remediation Media Monitoring and Sampling".

9. Imposition of an institutional control in the form of an environmental easement for the controlled property which:
    - Requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8(h)(3);
    - Allow the use and development of the controlled property for commercial or industrial use as defined by Part 375-1.8(g), land use is subject to local zoning laws;
    - Restricts the use of ground water as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH;
    - Requires compliance with the Department approved Site Management Plan.

10. A Site Management Plan included the following:
    - An Institutional and Engineering Control Plan that identifying all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary ensuring the following institutional and/or engineering controls remain in place and effective:
        - Institutional Controls: The environmental easement discussed in paragraph 9 above.
        - Engineering Controls: The site cover discussed in remedial element 7 above.
    - This plan includes:
        - An Excavation Plan which details the provisions for management of future excavations in the areas of remaining contamination;
        - Descriptions of the provision of the environmental easement including any land use and groundwater use;
        - A provision for the evaluation of the potential for soil vapor intrusion for any new buildings developed on the site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion;
        - A provision that should a building foundation or building slab be removed in the future, a cover system consistent with that described in remedy element 7 above will be placed in any area where the upper one foot of exposed surface soil exceeds the applicable soil cleanup objectives;

        - Provisions for the management and inspection of the identified engineering controls;
        - Maintaining site access controls and Department notification; and
        - The steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.
    - A Monitoring Plan to assess the performance and effectiveness of the remedy:
        - Monitoring of the public well field and groundwater to assess the performance and effectiveness of the remedy;
        - A schedule of monitoring and frequency of submittals to the Department; and
        - Monitoring for vapor intrusion for any buildings on the site, as required by the institutional and Engineering Control Plan discussed above.

3.0 Interim Remedial Measures

There have been several remedial actions, usually characterized as Interim Remedial Measures (IRMs), to address impacted site areas. These include:

- 1985 – Perchloroethylene (PCE) Impacted Soil Removal
    - In April 1985, approximately 65 cubic yards of soil impacted by waste paint and solvents from an area east of former Building 215 were excavated and disposed of off-site. The limits of the excavation were determined in the field based on visual inspection. Work was completed subject to a work plan entitled Proposal Plan of Action - Surficial Clean Up of Spill dated April 9, 1985, and disposal was documented in a project memorandum dated June 19, 1985. Conestoga Rovers and Associates, Ltd. Performed this work and it was overseen by NYSDEC.
- 1991 – Municipal Well Treatment System
    - A treatment system (air stripper) was installed on the municipal well field in 1991 as a preventative measure based on known groundwater contamination in the area. While low levels of tetrachloroethene were detected in the pre-treated water in the past, levels were generally below drinking water standards in the pre-treated water. Levels have continued to decrease over time and based on most recent sampling indicate tetrachloroethene is either not detected or at low levels and meet the groundwater standards. However, the selected remedy includes periodic monitoring of the Village well field.
- 1992 – Recovery Well System installed west of Building 16
    - A groundwater recovery well system was installed west of Building 16. The system operated for approximately 2 to 3 years. Periodically, groundwater samples were collected and analyzed for VOCs and semivolatile organic compounds (SVOCs). When the concentrations of COCs in the groundwater dropped below the reporting limits, use of the recovery well system was discontinued. In the course of the IRM activities conducted in 2009/2010, the recovery well system was removed.
- 2002 – Lead-impacted and polychlorinated biphenyls (PCB)-impacted soil removal activities
    - An excavation to remove lead and PCB impacted soil near Buildings 5, 8, and 10 was executed in August 2002. Approximately 18 cy of PCB-impacted soil was removed from an 8ft by 30 ft area and approximately 27.6 cy of lead-impacted soil was removed from 62 ft by 8 ft area. The two areas were excavated to meet specified pre-release conditions of 300 ppm for lead and 0.5 ppm for PCBs.

    - Conestoga Rovers and Associates, Ltd. Performed this work per the jurisdiction of the New York State Department of Health in settlement of litigation filed by the Village of Frankfort – Lead and Polychlorinated Biphenyl (PCB) Impacted Soil Removal
    - Alpha Geoscience led this project with Opt-Tech Environmental Services, Inc. NYSDEC was the overseeing agency.
    - The soil removal is documented in the November 13, 2002, Soil Removal Summary Report.
- 2009 – "Hot Spot" Removal and Groundwater Extraction IRM
    - A source removal IRM was undertaken from March 2009 until January 2010 to remove soil impacted by volatile organic compounds (VOCs) and petroleum hydrocarbons. The IRM included removal and off-site disposal of approximately 119 cubic yards of VOC impacted soil from an area within former Building 213, approximately 87 cubic yards of VOC impacted soil from an area within former Building 203, and approximately 2,780 cubic yards of petroleum impacted soil from a former fuel oil spill area near former Building 16. Confirmation samples met protection of groundwater soil cleanup objectives (SCOs) for VOCs. The IRM is documented in the February 24, 2010, IRM Completion Report.
    - BB&J oversaw the implementation of three remedial actions to remove impacted soil thought to be the source of the impacted groundwater. In 2009/2010, BB&J oversaw the removal of impacted soil at three discrete areas: (1) in the area of the in-ground dip tank at Building 203, (2) in the area of the in-ground dip tank in Building 213 and (3) in the area of the former fuel oil storage area, west of Building 16. In August 2011, Ames entered into an Order on Consent with the NYSDEC, A6-0667-06-11.
- 2012 – Building Demolition IRM
    - This Interim Remedial Measure took place from May 2012 to April 2013 and consisted of the demolition of all on-site buildings. Initially, asbestos abatement and asbestos air monitoring were conducted, following by asbestos removal. Buildings were then stripped of all material besides wood, brick, block, steel, and concrete. Buildings were then characterized for contamination and demolished in place. Contaminated debris was disposed of off-site. Uncontaminated wood was segregated and reclaimed, and steel was recycled. Uncontaminated brick, block, and concrete was ground into pieces less than 3 inches in diameter, and this material remains on-site for possible use as on-site fill material.
    - BBJ Group conducted the sampling and analysis pursuant to the Addendum to the IRM Work Plan. The IRM is documented in the May 15, 2015, Construction Completion Report and November 10, 2015, Construction Completion Report addendum.

These remedial activities are further described in the following documents:

- Interim Remedial Measures Completion Report, Union Tools Plant Site, Frankfort, New York, February 24, 2010 (BBJ Group, Inc. 2010).
- Records Search Report. Former Union Fork and Hoe, 253 East Main Street, Frankfort, New York. September 26, 2011 (BBJ Group, Inc. 2011)
- Addendum to Interim Remedial Measures Work Plan, Former Union Fork and Hoe, 253 East Main Street, Frankfort, New York. August 19, 2012. (BBJ Group, Inc. 2012)

- Final Interim Remedial Measure Construction Completion Report, Former Union Fork & Hoe Site No. 6-22-011, Frankfort, New York (BBJ Group Inc, 2015)
- Addendum to Interim Remedial Measure Construction Completion Report, Former Union Fork & Hoe Site No. 6-22-011, Frankfort (BBJ Group, Inc. 2015)
- Final Feasibility Study (Tetra Tech Engineering Corporation, 2016)
- Record of Decision, Union Fork & Hoe State Superfund Site (NYSDEC, 2018)
- Remedial Investigation Report Former Union Fork & Hoe Site, Site No. 6-22-011 (BBJ Group, 2015)
- Soil Sampling Summary Report for Area 4 (Alpha Geosciences, Inc., 2002)

The information and certifications made in the above referenced reports were reviewed in preparation of this report and certify that the remediation requirements for the site have been met.

4.0 Description of Remedial Actions Performed

Remedial activities completed at the Site were conducted in accordance with the NYSDEC-approved Remedial Action Work Plan (RAWP) for the Union Fork and Hoe Site April 2019 (OBG, 2019). All deviations from the RAWP are noted below in Section 4.10 Deviations From RAWP.

4.1 Governing Documents

The ROD (NYSDEC, 2018) and RAWP (OBG, 2019) were considered integral documents for the construction of the Remedial Action (RA). Certain plans were developed as part of the RAWP and include:

1. Health and Safety Plan (HASP)
2. Stormwater Pollution Prevention Plan (SWPP)
3. Sampling and Analysis Plan (SAP)
4. Baseline Groundwater Sampling Plan

In addition to the documents listed above, Land Remediation, Inc (LRI) the General Contractor, also prepared work plans including:

5. Construction Quality Assurance Plan (CQAP)
6. Traffic Control Plan
7. Waste Material Handling and Disposal Plan
8. Construction Water Management Plan
9. Remedial Action Contingency Plan (RACP)
10. *Ex-Situ* Treatment Work Plan

Summaries of the various work plans are provided in the following sections. O'Brien & Gere of North America, Inc (OBG) reviewed all subcontractor plans and submittals for the project to confirm they followed the RAWP. All remedial documents were submitted to NYSDEC and the New York State Department of Health (NYSDOH) for review prior to the start of the work.

4.1.1 Site Specific Health & Safety Plan (HASP)

The HASP was included as an appendix the RAWP approved by the NYSDEC. The HASP was prepared in accordance with the requirements presented in 19 CFR parts 1910 and 1926, the USEPA's standard

Operating Safety Guides, National Institute of Safety and Health "Occupational Safety and Health Guidance for Hazardous Waste Activities," and local regulations.

The HASP includes provisions for community protection and the Community Air Monitoring Program (CAMP) that was implemented in accordance with the New York State Department of Health Generic Community Air Monitoring Plan included as Appendix 1A to DER-10. Also, a program for suppressing fugitive dust and particulate matter monitoring was prepared in accordance with Appendix 1B to DER-10.

LRI established a Site Control Program as part of the HASP to reduce the possibility of contact with contaminants present before work began and modified this program as new information became available. Remedial work performed under this Remedial Action (RA) was in substantive compliance with governmental requirements, including Site and worker safety requirements mandated by Federal OSHA.

The Health and Safety Plan (HASP) was adhered to for all remedial and invasive work performed at the Site during the RA.

4.1.2 Storm-Water Pollution Prevention Plan (SWPPP)

The Stormwater Pollution Prevention Plan was included as an appendix of the RAWP by NYSDEC. The goal of the SWPP was to minimize soil erosion due to construction activities.

Because the Site was greater than one acre in size, a SWPP was prepared. The erosion and sediment controls for remedial construction were performed in conformance with requirements presented in the New York State Guidelines for Urban Erosion and Sediment Control (NYSDEC, 2016) and the Site-specific SWPP.

4.1.3 Sampling and Analysis Plan (SAP)

The SAP was included as an appendix of the Remedial Action Work Plan approved by the NYSDEC. The SAP provides performance-based guidance on the sampling and analytical requirements for the remedial construction activities. Sampling activates covered in the SAP included:

- Soil Sampling for Waste Characterization;
- Soil Sampling for Post-Treatment Analysis;
- Post Excavation Compliance Sampling;
- Water Treatment System Sampling;
- Imported Backfill Material Sampling; and
- Baseline Groundwater Sampling

4.1.4 Baseline Groundwater Sampling Plan

The Baseline Groundwater Sampling Plan was included as an appendix of the Remedial Action Work Plan approved by the NYSDEC. The Baseline Groundwater Sampling Plan provided a scope of work for the collection of baseline groundwater data at the Site. This data was used as a basis for the development of the groundwater monitoring plan for the Site Management Plan (SMP).

4.1.5 Construction Quality Assurance Plan (CQAP)

The CQAP managed performance of the Remedial Action tasks through designed and documented QA/QC methodologies applied in the field and in the lab. The CQAP provided a detailed description of the observation and testing activities that were used to monitor construction quality and confirm that remedial construction was in conformance with the remediation objectives and NYSDEC approved RAWP.

4.1.6 Traffic Control Plan

LRI provided a Traffic Control Plan that described logistic procedures to transport waste from the Site and transport equipment and approved materials to the Site.

4.1.7 Waste Materials Handling and Disposal Plan

LRI prepared a Waste Handling and Disposal Plan that described how contaminated and non-contaminated material would be handled, staged, loaded and transported, and how equipment would be decontaminated.

4.1.8 Construction Water Management Plan

LRI prepared a Construction Water Management Plan that described operations for managing construction water on the Site during the remedial action. This plan included descriptions of dewatering methods, treatment methods, and discharge permit requirements.

4.1.9 Remedial Action Contingency Plan (RACP)

LRI prepared a RACP that described the provisions and procedures for responding to potential emergencies and circumstances that could occur.

4.1.10 Ex-Situ Treatment Work Plan

LRI prepared an *Ex-Situ* Treatment Work Plan that described the methods to be employed to stabilize soils hazardous for metals to be below hazardous thresholds. The plan included details on the treatability study, mixing pad requirements, and method of mixing the stabilizing agent with soils.

4.2 Remedial Program Elements

4.2.1 Contractors and Consultants

OBG retained multiple subcontractors to implement the remedial RA:

- Eurofins conducted soil characterization analysis and compliance sampling analysis.
- Parratt-Wolff, Inc. was retained to conduct soil borings for collection of pre-characterization sampling
- Oneida-Herkimer Solid Waste was contracted with for waste disposal.
- LRI implemented the Site RA construction activities. In performing the RA, LRI retained several subcontractors for various tasks, as follows:
    - NMB Land Surveying provided survey information and as-built drawings;
    - Phoenix Labs was retained to conduct toxicity characteristic leaching procedure (TCLP) analyses to support ex-situ treatment and waste characterization.
    - Contest Labs provided chemical analytical services for imported fill material.

- AJB Contracting provided trucking services for imported backfill material, and waste transportation services.
- Mohawk Valley Materials provided tree stump grinding services.
- Weakley Sand and Gravel provided imported common fill and imported #2 stone;
- Route 5 Sand & Gravel provided imported topsoil;
- Gardenia Designs was retained to provide seed material, mulch and conduct seeding operations.

4.2.2 Site Preparation

From July 10 through July 12 OBG conducted pre-characterization sampling of potential source material at the Site.

After mobilizing to the Site on August 5, 2019, LRI completed Site preparation tasks before initiating RA construction. The Site preparation tasks included:

- Installing temporary fencing in areas where the perimeter fence was inadequate;
- Mobilizing two field offices with electric and internet access;
- Installing erosion and sediment controls including a lined decontamination pad;
- Marking known utilities; and
- Clearing and grubbing areas identified for excavation.

A pre-construction meeting was held with NYSDEC, NYSDOH, OBG, and LRI on August 7, 2019.

4.2.3 General Site Controls

The Site is surrounded by a permanent chain link fence with gates. LRI repaired the permanent chain link fence in areas where it was damaged. The gate to the construction entrance was locked during non-working hours. During working hours, visitors to the Site were required to sign in at the field offices located adjacent to the entrance.

A safety briefing attended by LRI and an OBG representative was conducted at the start of each workday to review activities scheduled that day and to discuss safety concerns. A general safety topic was also discussed each workday.

Daily records were maintained on-site by OBG and LRI. The daily reports include the number of workers and type of equipment used, the work performed for the day, hours worked, and any unexpected issues encountered. OBG maintained waste disposal records to quantify and track waste transported off-site. LRI maintained records of all imported material to the site.

Erosion and sedimentation controls were installed and maintained by LRI around the work areas in accordance with the SWPP. Inspections were conducted at a minimum of once per week and the erosion and sedimentation controls were repaired as needed.

Shallow excavation soils identified for consolidation on Site were stockpiled within the limits of the consolidation area. Soils that were characteristically hazardous for lead or had PAH concentrations over 500 ppm were excavated and placed within staging pads. The staging pads consisted of berms with

a liner placed on concrete building slabs. Stockpiles were covered to prevent dust and exposure to precipitation while not being worked.

4.2.4 Nuisance Controls

To minimize the generation of dust, trucks were either routed on paved and gravel surfaces, existing concrete slabs, or temporary roads constructed of processed brick and block. A water truck was also used to spray the surfaces as necessary to minimize dust.

Prior to exiting the Site, the tires and undercarriage of trucks were inspected and cleaned to prevent tracking soil. Also, an asphalt driveway was maintained at the entrance to the Site to prevent tracking of soil onto the public roads.

Rubbish was removed from the Site and portable sanitary facilities were serviced regularly to prevent nuisance conditions/odors.

No complaints were received during the RA regarding nuisance conditions.

4.2.5 CAMP Results

LRI conducted the CAMP while intrusive activities were underway at the Site. The CAMP readings and monitoring equipment locations were documented each workday and became part of the daily air monitoring report. On a weekly basis, the results were summarized and provided to OBG, NYSDEC, and NYSDOH.

The reports demonstrate that the Site construction was completed in compliance with the air monitoring requirements of the CAMP, and that the level of dust and VOCs was within criteria established for community protection. The daily air monitoring reports can be viewed in Appendix B of the CCR (BBJ Group). The Daily reporting logs can be found in Appendix B of the CCR (Tetra Tech).

4.2.6 Reporting

Weekly construction progress meetings, chaired by OBG, were conducted during the remedial action with representatives of Ames, LRI, NYSDEC, and NYSDOH invited. The purpose of the weekly construction meetings was to review the RA construction progress/schedule, future activities, Site safety, community air monitoring, Site security, and to identify any unexpected issues. All meetings were open to all parties involved with the RA to attend, either on-site or via conference call. Weekly meeting minutes were distributed electronically to all parties prior to the next meeting. When applicable, the progress meeting minutes documented issues encountered, corrective actions made, and modification to the work plans (if any).

4.3 Contaminated Materials Removal

As previously described in Section 2 the ROD identified three waste types for the Site. These waste types include shallow (1-foot deep) soils exceeding commercial SCOs, source material soils characteristically hazardous for metals and source material soils with a total PAH concentration greater than 500 ppm.

Shallow soils exceeding commercial SCO were excavated to a depth of 1-foot and consolidated on-site under a vegetative soil cover. The 1-foot excavations with soil at the bottom of the excavation exceeding the commercial SCOs was covered with a demarcation layer and backfilled with a minimum of 1-foot of

clean backfill. Figures 3 and 4 show the locations of where soils in the upper 1 foot were determined to exceed commercial SCOs and were excavated and replaced with clean backfill, and the locations of where those soils were placed at the site and covered with soil and planted with vegetative material.

Source materials (including soils characteristically hazardous for metals and soils with a total PAH concentration greater than 500 ppm) were disposed off-site at a permitted disposal facility. Prior to disposal off-site, soil that was determined through sampling to be characteristically hazardous was treated (stabilized) on-site to render it non-hazardous as documented by TCLP sampling. Soils that required stabilization were amended with the proprietary products of Free Flow 200 or Enviroblend utilized a starting dose of 3% by weight. Additional stabilizing agent was added at increments of 1% by weight until post amendment sampling indicated it was rendered non-hazardous.

The As-Built Drawings provided in Appendix C present the actual limits of excavation made to remove source material and surface soil exceeding commercial standards. Four solid waste streams and one liquid waste stream were produced during the remedial action. These waste streams included:

- Source Material (Disposed of off-Site following ex-situ treatment to render material non-hazardous)
- Construction and Demolition Waste (Disposed of off-Site)
- Surface Soils Exceeding Commercial Standards (Consolidated on-Site)
- Legacy Railroad Ties (Disposed of off-Site)
- Treated collected water (Disposed of on-Site)

A summary of the Waste Removal Volumes and Facilities is included in Appendix D.

4.3.1 Disposal Details

Soil characterization samples were collected by OBG for approval of the soils for disposal at the Oneida-Herkimer Solid Waste Facility at a frequency in accordance with Oneida-Herkimer requirements and the Sampling and Analysis Plan. Characterization samples were analyzed for the following:

- TCLP Metals;
- TCLP VOCs;
- TCLP SVOCs
- PCBs
- Reactivity;
- Ignitability; and
- pH.

The results were compared to Oneida-Herkimer acceptance criteria for non-hazardous waste and NYCRR Part 376 Land Disposal Restrictions for material stabilized on-Site.

4.3.2 On-Site Reuse

Shallow excavation soils exceeding commercial SCOs but not exceeding the standards for source material together with brick and block material generated during the 2012 Building Demolition IRM were used on-site as backfill material below the 12-inch soil cover. A total of 24,644 cy of shallow soil was placed within the consolidation area. Brick and block material was used as backfill within the consolidation area and as backfill below the 12-inch soil cover in select areas of the Site, after it was

processed through a crusher to reduce the size and screen out ferric metals. A total of 3,317 cy of brick and block material was placed on- site below the cover system.

As shallow excavations progressed, shallow soils were screened for total metals concentrations and SVOC concentrations prior to placement within the consolidation area. Screening was accomplished using a portable X-ray fluorescence (XRF) device and compliance sampling. The final limits of shallow excavation were established based on achieving the commercial SCOs in sidewall samples, reaching the property line, reaching the limits of the consolidation area, or reaching an existing on-site foundation. Brick and block material was analyzed during the 2012 Building Demolition IRM and was determined to be below off-site disposal requirements (BBJ Group, 2013). However, due to the presence of a limited amount of debris such as asphalt shingles and plastic conduit, NYSDEC determined that it was not appropriate for the material to be used in the final cover system as called for in the RAWP.

4.3.3 Ex-Situ Stabilization

To stabilize soils determined to be characteristically hazardous for lead prior to off-site disposal amendments were mixed with the soil until they meet Universal Treatment standards for lead. Amendments used to stabilize the soil included Free Flow 200 and Enviroblend with an initial target mix rate of 3% by weight.

Shallow excavation areas containing characteristically hazardous soils were laid out using the excavation design and a GPS to determine the amount of amendment required for each excavation area. The amendment was then spread across the surface the excavation area and an excavator was used to excavate the soil and mix the amendment. Mixing of the soil and amendment continued until a visually homogeneous mix was achieved. After the homogeneous mix was achieved the blended soil was placed in approximately 100-ton piles within the mixing area for sampling. Soils meeting the disposal requirement were consolidated for final waste characterization sampling and loadout. Soils that did not meet disposal requirements were combined, measured and an additional approximately 1% of amendment was added and mixed.

This iterative process continued until all surface soils were stabilized to meet off-site disposal requirements.

To manage soils within deep excavation soil areas mixing bays were constructed on remnant concrete foundations. These mixing bays included earthen berms lined with geosynthetic material to limit runoff. The same iterative process of mixing amendment, separating into 100-ton piles, sampling, and adding additional amendment was followed until the soil was rendered non-hazardous.

In total 14,379 tons of amended material was disposed of off-site. Of the disposed material 13,923 Tons of soil and 456 tons of amendment were disposed of (255 tons of FreeFlow 200 and 201 tons of EnviroBlend).

4.4 Remedial Performance/Documentation Sampling

Excavation and off-site disposal were required for soil exceeding the 6 NYCRR Part 371 hazardous criteria for metals and/or soil exceeding 500 ppm for total PAHs as defined in CP-51, as outlined in the site's ROD. An initial round of compliance samples was collected after each shallow excavation was

completed to the limits specified in the NYSDEC-approved Remedial Action Work Plan. The initial round of confirmation samples were analyzed for Target Compound List (TCL) SVOCs and Target Analyte List (TAL) metals. The samples were collected using a grid of 30 feet on the base of each excavation and at the perimeter of the excavations at 30 feet (ft) intervals. The sample results were compared to the Restricted Use Site Cleanup Objectives (RUSCO)- Commercial values in 6 NYCRR Part 375. Quality assurance/quality control (QA/QC) samples including field duplicates, matrix spike, and matrix spike duplicates were collected at a frequency of one each for 20 sample locations.

In areas where soils characteristically hazardous for metals were excavated an additional sample was collected. This sample consisted of a composite of a minimum of 3 sample locations within the limits of the excavation that was analyzed in accordance with the Resource Conservation and Recovery Act (RCRA) as required by the NYSDEC in an e-mail dated September 4, 2019. The results of the composite sample were compared to United States Environmental Protection Agency (USEPA) toxicity thresholds. At locations where the soil remaining in the excavation was determined to be characteristically hazardous, the excavation was extended and additional TCLP samples were collected. The process of TCLP sample analysis, further excavation if necessary, and resampling continued until the soil was demonstrated to be non- hazardous.

In shallow excavation perimeter locations where the commercial cleanup standard was not achieved following excavation to the limit specified, based on the initial round of confirmation samples and screening conducted with an XRF, the excavation was extended a minimum of 10 feet horizontally, and then additional samples and/or XRF readings collected. The process sampling, further excavation if necessary, and re-sampling continued until the commercial cleanup standards were achieved, the excavation extended to a cover (such as a building slab or the consolidation area), or the excavation was completed to the property line. In areas where analytical results indicated that the total PAH concentration exceeded 500 ppm excavations were extended both horizontally and vertically until results indicated that the total PAH concentration fell below 500 ppm.

Groundwater samples were collected and analyzed in accordance with the Baseline Groundwater Sampling plan in June and August 2019. The results of the Baseline Groundwater Sampling were presented to NYSDEC by e-mail on September 26, 2019. A Groundwater Contour Map is included in Appendix F. The appropriate figures and tables are included in the end of the report indicate locations and exceedances of SCOs.

Data Usability Summary Reports (DUSRs) were prepared for baseline groundwater sampling data and compliance sampling data generated in this remedial performance evaluation program. Results for the samples are usable either as reported or with qualification as estimated or edit to non-detection. There are few items of concern including a poor precision of metals with consistent outliers, elevated field duplicate correlations of semi volatile analytes, results for one phenolic analyte are rejected in two samples due to apparent matrix effects, soil samples containing semi volatiles and pesticides at dilution with resulting limits elevated proportionally to the degree of dilution. Data completeness, accuracy and precision of the laboratory processing, representativeness, reproducibility, and comparability are acceptable. There are few issues notes, limited to elevated reporting limits resulting from dilutions affecting sensitivity of the semi volatile and pesticide analytes, matrix effects effecting accuracy and precision of the metals and semi volatile analytes which was not determined for the validated samples,

and the performance of no herbicide analyses event though detailed in the SAP, and requested on some of the earliest custody forms. The latest DUSR is attached as Appendix G.

Electronic Data Deliverables (EDDs) for baseline groundwater and conformation/documentation samples were submitted to NYSDEC. EDDs for baseline groundwater monitoring was uploaded by NYSDEC on May 26, 2020. EDDs for conformation/documentation samples were submitted to NYSDEC on May 28, 2021.

4.5 Imported Backfill

52,706 tons of material was imported from off-site to complete the remedial action construction. Material was imported to replace soil removed from the Site and to construct the cover system. All imported material was sampled in accordance with Table 5.4(e)10 of DER-10 and as required by letter received from the NYSDEC on August 30, 2019, regarding the Emerging Contaminant (EC) Initiative. Table 5 lists the quantities, fill type and source.

4.6 Contamination Remaining at the Site

The tables and figures associated with summarizing the sample results and locations for soil remaining at the Site are included following this report. These also summarize the results following the completion of RA that exceeded the Commercial SCOs. Soils exceeding the Commercial SCOs are isolated by a cover system in the form of a soil cover, asphalt, or concrete building slabs with the exception of a 3.1-acre wooded area described below (addressed in a separate CCR submitted simultaneously with this CCR) and outside the perimeter chain link fence in the southeast portion of the site. The elevation of the top of soil exceeding Commercial SCOs are included in the Record Drawings.

As agreed in advance by NYSDEC, a 3.1-acre wooded area located in the center of the Site was not remediated as part of this RA. Confirmation sampling leading into the wooded area identified concentrations of metals and PAHs exceeding commercial standards in surface soil. Please reference: On-Site Wooded Area Soil Removal Construction Completion Report (Tetra Tech, May 2021).

In addition to the wooded area, confirmation sampling identified surface soils exceeding commercial standards leading off-site and outside the limits of the perimeter chain link fence in the southeast portion of the site. The soil outside the limits of the perimeter fence and off-site were not excavated as part of this RA.

The two wooded areas had sampling results above commercial SCOs, and removal was not feasible due to the heavily vegetated nature of each area. The NYSDEC agreed that fencing could be installed around both areas and would serve as demarcations denoting restricted access for both areas. This remaining contamination is being managed under the site's Site Management Plan (SMP). Further details regarding the installation of the fencing for the 3.1-acre wooded area in the center of the Site and the wooded area in the southeast extent can be found in the Fence Installation at Wooded and Southeastern Areas Report (Tetra Tech, August 25, 2022).

Since contaminated soil and groundwater remains beneath the Site after completion of the RA, Institutional and Engineering Controls are required to protect human health and the environment. These Engineering and Institutional Controls (ECs/ICs) are described in the following sections. Long-

term management of these EC/ICs and residual contamination will be performed under the SMP approved by the NYSDEC.

4.7 Cover System

Exposure to remaining contamination in soil/fill at the Site is controlled by a cover system placed over the Site. This site-wide cover system is comprised of concrete building slabs, asphalt pavement, and exposed surface soil meeting the commercial use soil cleanup objectives (SCOs):

The soil cover varied depending on the area being covered is as follows:

- Consolidation Area Soil Cover – demarcation layer, 6 inches of common fill and 6 inches of topsoil;
- Shallow Excavation Soil Cover – demarcation layer, a minimum of 8 inches of common fill, and 4 inches of topsoil; and
- Shallow Excavation Soil Cover with brick and block material –demarcation layer, brick and block material, 8 inches of common fill, and 4 inches of topsoil. The brick material is not part of the cover system and serves as a demarcation layer for these areas.

As described in Section 4.10.3 there were changes to the composition of the soil cover used at the site from those described in the RAWP.

In areas where concrete building slabs are used as a cover system, repairs were made to the concrete as described in the Remedial Action Work Plan. These repairs included excavation of exposed soil to a depth of 12 inches and placement within the consolidation area where the damage to the concrete was greater than 2 feet in diameter. After excavation of the soil, clean backfill soil was placed in the excavations. Areas where the damage was less than 2 feet in diameter were required to be excavated and a minimum of 6 inches of concrete installed to the limits of the opening. In areas where the damage was less than 6 inches in diameter a concrete patch was installed. To install the concrete patch damaged concrete was removed, the area was washed with water, then the resulting hole was filled with 3,500 psi concrete and allowed to cure. Cut and Fill contours and location maps are provided in Appendix E.

To mitigate risk of damage to the cover system by trespassers, access to the site will be controlled by a perimeter chain link fence with locked gates. An Excavation Work Plan, which outlines the procedures required in the event the cover system and/or underlying residual contamination are disturbed, is provided in Appendix D of the SMP

4.8 Other Engineering Controls

Outside of the cover, a fence is installed around the perimeter of the site. This fence is approximately 8’ high with barbed wire above the chain link. There are locked gates at two locations. A 4’ fence was installed in July 2022 as requested by the NYSDEC in a comment letter from March 2021. Figures of the locations of this fence are included within this report.

The cover and fence were inspected in November of 2022. The perimeter fencing was found to have several burrows and holes through which trespassers were gaining entry. Trees and other brush

vegetation has grown into the fence and is recommended to be removed or the fence to be replaced entirely. As of May 2023, this fence rehabilitation process is ongoing.

4.9 Institutional Controls

The Site remedy requires that an environmental easement be placed on the property to (1) implement, maintain and monitor the Engineering Controls; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination and the 3.1-acre wooded area; and, (3) limit the use and development of the Site to commercial and industrial uses only.

In accordance with agreement with the NYSDEC Counsel, the environmental easement package will be submitted by September 30, 2020. Following preparation of the environmental easement by NYSDEC and execution by Ames, the easement was recorded by the Herkimer County Clerk on February 22, 2021, and can be found in Appendix B. The receipt number for the recording is 46546.

4.10 Deviations from the Remedial Action Work Plan

4.10.1 Lead Excavation Limits

As described in the RAWP, OBG conducted pre-characterization sampling of areas with previous sampling results indicating the presence of total lead greater than 1,000 ppm. The results of the pre-characterization sampling indicated that in the deep excavations less soil was hazardous for metals than originally estimated, based on TCLP sampling for RCRA 8 metals confirmation sampling as required by NYSDEC in an e-mail dated September 4, 2019.

4.10.2 Documentation Sampling Frequency

Based on the expanded area of surface soil excavations, the sampling frequency for floor documentation samples was reduced. As described in the RAWP, floor documentation samples were planned to be collected on a grid pattern of one every 900 square feet. This sampling frequency was developed based on the original estimated shallow excavation area of approximately 1.7 acres. As shallow excavations expanded based on results of confirmation sampling, OBG requested, and the NYSDEC approved, reducing the sampling frequency to one sample every 2,025 square feet on October 2, 2020, as noted in the meeting minutes. Sidewall confirmation sample spacing remained at the original frequency called for in the RAWP of one sample every 30 feet.

4.10.3 Vegetative Soil Cover Composition

The RAWP identified the composition of the soil cover to be a demarcation layer, 6 inches of common fill or crushed brick and block material and 6 inches of topsoil. Based on the increased areas of shallow excavation, on October 9, 2019 OBG requested, and the NYSDEC approved, that the composition of the vegetative soil cover outside the limits of the consolidation area be modified to consist of a demarcation layer, 8 inches of common fill and 4 inches of topsoil rather than a demarcation layer, 6 inches of common fill or brick and block material and 6 inches of topsoil as called for in the RAWP. The modified cover still achieved the requirements of the ROD for 12 inches of clean soil placed over soils exceeding commercial standards. On October 23, 2019, based on observation of limited amounts of debris such as remnant asphalt shingles, the NYSDEC determined that processed brick and block material was not appropriate for use within the soil cover system. Where the processed brick and block material had already been placed in shallow excavations over a demarcation layer 12-inches of additional clean soil was placed to act as the soil cover. In these areas the brick and block material is not part of the cover system but serves as a demarcation layer.

4.10.4 Limits of Consolidation Area

The limits of the consolidation area identified in the RAWP were based on an assumed volume of less than 3,000 cy of impacted soil being placed within the consolidation area. As a result of the confirmation sample analysis, the volume of soils placed within the consolidation area increased to 24,644 cy of soils. Based on the increased volume of soils requiring consolidation, the vertical and horizontal limits of the consolidation area were increased to accommodate the soil. The new limits of the consolidation area were presented to NYSDEC on October 9, 2019, during the weekly progress meeting. The limits of the consolidation area were expanded to the south and northeast. The As-builts show the final limits of the consolidation area.

4.10.5 Excavations Leading Off-Site

The RAWP identified a requirement that, if confirmation samples indicated that soils exceeding residential SCOs lead off-site in very specific, defined areas, they would be excavated up to a very limited quantity of material. Specifically, as identified in the ROD, soil in areas adjacent to four on-Site excavation locations were to be excavated if confirmation samples from the on-Site excavation boundaries exceeded the SCOs for residential use for Site-related contaminants.

Based on the results of sidewall confirmation samples from the onsite excavation activities specified in the site's ROD, a majority of the samples exceeded the Site SCOs for the primary contaminants of concern (COCs) which are arsenic, lead, copper, and benzo(a)pyrene and the quantities that would have required further investigation and perhaps removal exceeded the quantities specified in the ROD by several orders of magnitude. Therefore, the Department recommended a supplemental off-site investigation be performed to determine the off-site extent of site-related contaminants and complete a soil background evaluation in accordance with NYSDEC DER-10, Section 3.5.3.

An Off-Site Soil Sampling Work Plan was submitted to the NYSDEC and NYSDOH in November 2020 and approved by NYSDEC via letter dated December 8, 2020. Sampling locations were both in and outside of the property lines at specified distances away from the Site boundary determined by the historical land use at the sampling locations. The sampling results were then spatially and statistically evaluated to create datasets based on the area's known historic land use (i.e., residential area, former rail lines area, and industrial area) and develop background threshold values (BTVs) for the COCs for each dataset. The results of these evaluations were presented in the Off-Site Soil Sampling Results Report (Tetra Tech, Inc., August 19, 2022). The results of the sampling and subsequent data evaluations concluded that spatial distribution and concentrations of the site's COCs did not exhibit any definitive relationship nor pattern from the Site boundary or proximity to historic UFH facility operations, known releases, or source areas and are more likely to reflect ambient background conditions based on the area's long industrial history and historic rail line locations. The NYSDEC and NYSDOH provided their concurrence on the report's conclusions and approval for no further action with respect to any off-site areas adjacent to the UFH site via letter dated October 24, 2022.

4.10.6 Emerging Contaminant Sampling for Imported Material

As part of NYSDEC emerging contaminant initiative, in a letter dated August 30, 2019, the NYSDEC required that imported material be tested for emerging contaminants. Emerging contaminant

sampling was not a requirement for imported material in the NYSDEC approved RAWP. Sampling requirements presented in the RAWP for imported material were in accordance with DER-10.

5.0 References

BBJ Group, Inc. 2010, Interim Remedial Measures Completion Report, Union Tools Plant Site, Frankfort, New York, February 24, 2010.

BBJ Group, Inc. 2011, Records Search Report. Former Union Fork and Hoe, 253 East Main Street, Frankfort, New York. September 26, 2011

BBJ Group, Inc. 2013, Addendum to the Brick and Block Beneficial Reuse Determination Request, Former Union Fork & Hoe Site No. 6-22-011, Frankfort, New York

BBJ Group, Inc. 2013, Brick and Block Beneficial Reuse Determination Request, Former Union Fork & Hoe Site No. 6-22-011, Frankfort, New York

BBJ Group, Inc. 2015, Addendum to Interim Remedial Measure Construction Completion Report, Former Union Fork, Inc. & Hoe Site No. 6-22-011, Frankfort, New York

BBJ Group, Inc. 2015, Final Interim Remedial Measure Construction Completion Report, Former Union Fork & Hoe Site No. 6-22-011, Frankfort, New York

BBJ Group, 2015. Remedial Investigation Report Former Union Fork & Hoe Site, Site No. 6-22-011, Frankfort, New York

BBJ Group, 2017, Soil Vapor Intrusion Report, Former Union Fork & Hoe Site No. 6-22- 011, Frankfort, New York

NYSDEC, 2010; DER-10 - Technical Guidance for Site Investigation and Remediation

NYSDEC, 2011. Order on Consent and Administrative Settlement #A6—667-06-11, Frankfort, New York

NYSDEC, 2016. New York Standards and Specifications for Erosion and Sediment Control. November 2016.

NYSDEC, 2018. Proposed Remedial Action Plan, Former Union Fork & Hoe Site No. 6- 22-011, Frankfort, New York

NYSDEC, 2018, Record of Decision, Former Union Fork & Hoe Site No. 622011, Frankfort, New York

O'Brien & Gere Engineers (OBG), 2019, Remedial Action Work Plan, Former Union Fork & Hoe Site No. 6-22-011, Frankfort, New York

6 NYCRR Part 375, Environmental Remediation Programs. December 14, 2006.

O'Brien & Gere of North America, Inc., 2022, Construction Completion Report, Union Fork and Hoe State Superfund Site, Frankfort, Herkimer County, New York

Construction Completion Report – Onsite Wooded Area Soil Removal, Tetra Tech, Inc., May 2021

Fence Installation at Wooded and Southeastern Areas Letter Report, Tetra Tech, Inc., August 25, 2022

Off-Site Soil Sampling Work Plan, Tetra Tech, Inc., November 25, 2020

Off-Site Soil Sampling Results Report, Tetra Tech, Inc., December 23, 2021, Revised August 19, 2022

Monitoring Well Decommissioning Report, Tetra Tech, Inc., August 29, 2022

Site Management Plan, O'Brien & Gere of North America, Inc., September 2022

NYSDEC, Letters: RE: Site No. 622011, Union Fork & Hoe, Frankfort (T), Herkimer County Off-Site Soil Sampling Results Report, December 8, 2020 & April 1, 2022

Tables:

Table 1: Soil Cleanup Objectives

Table 1 – Soil Cleanup Objectives
Soil Cleanup objectives for Contaminants of Concern Construction Completion Report
Former Union Fork and Hoe Site
Frankfort, NY

Constituent	Unrestricted Soil Cleanup Objective (ppm)	Restricted Use Soil Cleanup Objectives (ppm)
SVOCs		
Benzo(a)anthracene	1.0	5.6
Benzo(b)fluoranthene	1.0	5.6
Benzo(k)fluoranthene	0.8	56
Benzo(a)pyrene	1.0	1.0
Chrysene	1.0	56
Dibenz(a,h)anthracene	0.33	0.56
Fluoranthene	100	500
Indeno(1,2,3-cd)pyrene	0.5	5.6
Phenanthrene	100	500
Pyrene	100	500
Inorganics		
Arsenic	13.0	16.0
Barium	350	400
Cadmium	2.5	9.3
Chromium	30	1,500
Copper	50	270
Lead	63	1,000
Manganese	1,600	10,000
Mercury	0.18	2.8
Nickel	30	310
Selenium	3.9	1,500
Silver	2.0	1,500
Zinc	109	10,000
Pesticides/PCBs		
Total PCBs	0.1	1.0

Table 2: Waste Characterization

Table 2 - Waste Characterization
Analytical Summary

Client ID	WC9001	WC9003	WC9006	WC9007	WC9008	WC9009	WC9010	WC9011	WC9012	WC90013	WC90014	WC9015	WC9016	WC9017	WC9018	WC9019	WC9020	WC9021	WC9022	WC9023	WC9024	WC9025	WC9026	WC9027	WC9028	WC9029
Lab ID	160568-1	164117-1	164746-1	CF15587	CF22462	CF22463	CF22464	CF28221	CF28222	CF33023	CF43947	CF43948	CF43949	CF43950	CF54896	CF54897	CCF58474	CF58475	CF58476	CF69915	CF69916	CF73946	CF75922	CF81003	CF95726	CF95727
Sample Date				1/17/2020	1/28/2020	1/28/2020	1/28/2020	2/6/2020	2/6/2020	2/20/2020	3/4/2020	3/4/2020	3/4/2020	3/4/2020	3/23/2020	3/23/2020	4/3/2020	4/3/2020	4/3/2020	4/13/2020	4/13/2020	4/15/2020	4/20/2020	4/29/2020	5/14/2020	5/14/2020
Percent Solid				85	79	77	83	89	83	83	83	82	78	80	88	84	82	80	85	82	84	83	81	90	90	89
Corrosivity				Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative
Flash Point	>176	>180	>180	> 200	> 200	> 200	> 200	> 200	> 200	> 200	> 200	> 200	> 200	> 200	> 200	> 200	> 200	> 200	> 200	> 200	> 200	> 200	> 200	> 200	> 200	> 200
Ignitability				Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed
pH at 25C - Soil	9.9	7.4	11.5	11.9	12.3	12.4	11.8	11.4	11.6	11.4	10.2	10.1	10.4	11.8	9.67	11.1	10.5	11.8	11.4	10	10.1	9.39	10.1	10.8	12.1	12.1
Reactivity Cyanide	ND	ND	ND	< 5	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Reactivity Sulfide	ND	ND	ND	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Reactivity				Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative
Polychlorinated Biphenyls																										
PCB-1016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1262	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1268	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP Herbicides																										
2,4,5-TP (Silvex)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-D	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP Pesticides																										
4,4' -DDD				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4' -DDE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4' -DDT				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
a-BHC				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alachlor				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
b-BHC				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
d-BHC				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin Aldehyde				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
g-BHC (Lindane)	ND	ND	0.00043	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP Volatiles																										
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl ethyl ketone				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP Acid/Base-Neutral																										
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol (o-cresol)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3&4-Methylphenol (m&p-Cres	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyridine	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 2 - Waste Characterization
Treated Soils Analytical Summary

Client ID	T3001	T3002	T3003	T3004	T3005	T3006	T3007	T3008	T3009	T3010	T3011	T3012	T3006R1	T3007R1
Lab ID	480-159532-14	480-159532-15	480-159532-16	480-159532-17	480-159532-18	480-159532-19	480-159532-20	480-159532-21	480-159532-22	480-159587-1	480-159587-2	480-159587-3	480-161007-1	480-161007-2
Sample Date	9/18/2019	9/18/2019	9/18/2019	9/18/2019	9/19/2019	9/19/2019	9/19/2019	9/19/2019	9/19/2019	9/20/2019	9/20/2019	9/20/2019	10/14/2019	10/14/2019
TCLP Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP Arsenic	0.0091 J	0.0091 J	ND	ND	ND	ND	ND	ND	0.0089 J	ND	0.0060 J	ND	ND	0.0092 J
TCLP Barium	0.94 J F1	0.29 J	0.88 J	0.44 J	1.2	0.46 J	0.74 J	1.3	0.37 J	0.75 J	0.55 J	0.21 J	0.26 J	0.27 J
TCLP Cadmium	0.014	ND	0.0055	ND	0.0029	ND	0.0028	0.0027	0.073	0.0016 J	0.00082 J	ND	ND	ND
TCLP Chromium	ND	ND	ND	0.018 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP Lead	52.0	0.0043 J	58.2	0.0086 J	86.8	7.7	30.7	83.1	ND	0.084	0.28	0.049	392	0.62
TCLP Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Client ID	T3008R1	T3013	T3014	T3015	T3016	T3017	T3018	T3020	T3021	T3022	T3023	T3024	T3025	T3026
Lab ID	480-161007-3	480-161007-4	480-161007-5	480-161007-6	480-161007-7	480-161007-8	480-161007-9	480-163730-1	480-163730-2	480-163730-3	480-163730-4	480-163730-5	480-163730-6	480-163730-7
Sample Date	10/14/2019	10/14/2019	10/14/2019	10/14/2019	10/15/2019	10/15/2019	10/15/2019	12/5/2019	12/5/2019	12/5/2019	12/5/2019	12/5/2019	12/5/2019	12/5/2019
TCLP Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP Arsenic	0.0091 J	0.0071 J	0.0064 J	0.0076 J	0.0065 J	0.0059 J	0.0077 J	0.012 J	ND	ND	ND	ND	ND	ND
TCLP Barium	0.37 J	0.42 J	0.42 J	0.31 J	0.38 J	0.39 J	0.57 J	0.26 J	0.75 J	0.30 J	0.43 J	0.99 J	0.35 J	0.65 J
TCLP Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	0.0010 J	ND	ND	0.0065	ND	0.0029
TCLP Chromium	ND	ND	0.051	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP Lead	224	22.0	361	128	383	522	340	0.0075 J	0.12	0.94	0.093	83.6	0.28	65.6
TCLP Selenium	ND	ND	ND	ND	ND	ND	ND	0.0092 J	ND	ND	ND	ND	ND	ND

Client ID	T3027	T3028	T3029	T3030	T3031	T3032	T3033	T3034	T3035	T3036	T3037	T3038	T3039	T3040
Lab ID	480-163730-8	480-163730-9	480-163730-10	480-163730-11	480-163730-12	480-163730-13	480-163730-14	480-163730-15	480-163730-16	480-163730-17	480-163730-18	480-163730-19	480-163730-20	480-163730-21
Sample Date	12/5/2019	12/5/2019	12/5/2019	12/5/2019	12/5/2019	12/5/2019	12/5/2019	12/5/2019	12/5/2019	12/5/2019	12/5/2019	12/5/2019	12/5/2019	12/5/2019
TCLP Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP Barium	0.39 J	0.79 J	0.30 J	1.2	0.45 J	0.29 J	0.34 J	0.55 J	0.56 J	0.82 J	0.82 J	0.050 J	1.0	0.50 J
TCLP Cadmium	ND	0.0047	ND	0.0044	ND	ND	ND	0.0038	0.0028	0.0022	0.0022	0.0033	0.0030	0.0025
TCLP Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCLP Lead	0.20	42.8	0.11	52.2	0.041	9.2	44.3	173	113	199	105	32.4	57.9	53.4
TCLP Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Client ID	T3041	T3042	T3043	T3044	T3045	T3046	T3047	T3048	T3049	T3050	T3051	T3052	T3053	T3054
Lab ID	480-163730-22	480-163730-23	480-163730-24	CF00748	CF00749	CF00750	CF00751	CF00752	CF00753	CF00754	CF00755	CF00756	CF00757	CF00758
Sample Date	12/5/2019	12/5/2019	12/5/2019	1/9/2020	1/9/2020	1/9/2020	1/9/2020	1/9/2020	1/9/2020	1/9/2020	1/9/2020	1/9/2020	1/9/2020	1/9/2020
TCLP Silver	ND	ND	ND	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Arsenic	ND	ND	ND	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Barium	0.57 J	0.45 J	0.44 J	0.19	< 0.10	0.25	0.23	0.17	0.39	0.44	0.62	0.17	0.61	0.79
TCLP Cadmium	0.0024	0.0075	0.0084	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TCLP Chromium	ND	ND	ND	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Mercury	ND	ND	ND	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
TCLP Lead	34.2	10.8	61.0	0.59	< 0.10	0.43	1.25	0.76	7.13	8.64	9.41	0.91	28.0	100
TCLP Selenium	ND	ND	ND	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Exceeds Unrestricted Soil Cleanup Objective of 0.63 mg/kg Lead

Table 2 - Waste Characterization
Treated Soils Analytical Summary

Client ID	T3055	T3056	T3057	T3058	T3059	T3060	T3061	T3062	T3063	T3064	T3065	73066	T3067	T3068	T3069
Lab ID	CF00759	CF00760	CF00761	CF12836	CF12837	CF12838	CF12839	CF12840	CF12841	CF12842	CF12843	CF12844	CF12845	CF12846	CF12847
Sample Date	1/9/2020	1/9/2020	1/9/2020	1/14/2020	1/14/2020	1/14/2020	1/14/2020	1/14/2020	1/14/2020	1/14/2020	1/14/2020	1/14/2020	1/14/2020	1/14/2020	1/14/2020
TCLP Silver	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Arsenic	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Barium	0.15	0.15	< 0.10	0.14	0.11	0.15	0.21	0.36	0.41	0.57	0.59	0.84	1.17	0.83	1.17
TCLP Cadmium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TCLP Chromium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Mercury	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
TCLP Lead	0.12	0.20	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.37	9.51	34.1	48.9	98.3	168	52.5	138
TCLP Selenium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Client ID	T3070	T3071	T3072	T3073	T3074	T3075	T3076	T3077	T3078	T3079	3080	T3081	T3082	T3083	T3084
Lab ID	CF17628	CF17629	CF17630	CF25232	CF25233	CF25234	CF25235	CF25236	CF25237	CF25238	CF25239	CF25240	CF25241	CF30351	CF30352
Sample Date	1/22/2020	1/22/2020	1/22/2020	2/3/2020	2/3/2020	2/3/2020	2/3/2020	2/3/2020	2/3/2020	2/3/2020	2/3/2020	2/3/2020	2/3/2020	2/10/2020	2/10/2020
TCLP Silver	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Arsenic	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Barium	0.22	0.16	< 0.10	0.29	0.21	0.30	0.42	0.68	0.18	0.22	0.23	0.31	0.42	0.97	0.66
TCLP Cadmium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TCLP Chromium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Mercury	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
TCLP Lead	0.63	18.6	1.99	0.78	< 0.10	5.61	< 0.10	1.00	< 0.10	< 0.10	0.71	< 0.10	5.63	1.67	0.37
TCLP Selenium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Client ID	T3085	T3086	T3087	T3088	T3089	T3090	T3091	T3092	T3093	T3094	T3095	T3096	T3097	T3098	T3099
Lab ID	CF30353	CF30354	CF30355	CF30356	CF33018	CF33019	CF33020	CF33021	CF33022	CF40144	CF40145	CF40146	CF40147	CF40148	CF40149
Sample Date	2/10/2020	2/10/2020	2/10/2020	2/10/2020	2/17/2020	2/17/2020	2/17/2020	2/17/2020	2/17/2020	2/26/2020	2/26/2020	2/26/2020	2/26/2020	2/26/2020	2/26/2020
TCLP Silver	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Arsenic	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Barium	0.32	0.35	0.23	0.20	0.26	0.27	0.49	0.34	0.48	0.44	0.20	0.21	0.48	0.39	0.46
TCLP Cadmium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TCLP Chromium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Mercury	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
TCLP Lead	< 0.10	< 0.10	0.14	< 0.10	< 0.10	0.22	77.5	8.57	44.0	94.5	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Selenium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Client ID	T3100	T3101	T3102	T3103	T3104	T3105	T3106	T3107	T3108	T3109	T3110	T3111	T3112	T3113	T3114
Lab ID	CF40150	CF40151	CF40152	CF40153	CF40154	CF40155	CF40156	CF41760	CF41761	CF41762	CF41763	CF41764	CF41765	CF41766	CF41767
Sample Date	2/26/2020	2/26/2020	2/27/2020	2/27/2020	2/27/2020	2/27/2020	2/27/2020	3/2/2020	3/2/2020	3/2/2020	3/2/2020	3/2/2020	3/2/2020	3/2/2020	3/2/2020
TCLP Silver	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Arsenic	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Barium	0.41	0.42	1.04	1.22	1.02	1.41	1.44	0.32	0.18	0.19	0.19	0.16	0.23	0.27	0.17
TCLP Cadmium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TCLP Chromium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Mercury	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
TCLP Lead	< 0.10	< 0.10	6.71	9.38	2.03	70.7	25.3	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Selenium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Exceeds Unrestricted Soil Cleanup Objective of 0.63 mg/kg Lead

Table 2 - Waste Characterization
Treated Soils Analytical Summary

Client ID	T3115	T3116	T3117	T3118	T3119	T3120	T3121	T3122	T3123	T3124	T3125	T3126	T3127
Lab ID	CF41768	CF41769	CF41770	CF41771	CF51961	CF51962	CF51963	CF51964	CF51965	CF52959	CF52960	CF52961	CF52962
Sample Date	3/2/2020	3/2/2020	3/2/2020	3/2/2020	3/16/2020	3/16/2020	3/16/2020	3/16/2020	3/16/2020	3/18/2020	3/18/2020	3/18/2020	3/18/2020
TCLP Silver	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Arsenic	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Barium	0.25	0.59	0.19	0.22	0.77	0.30	0.81	0.69	0.95	0.22	0.40	0.53	0.29
TCLP Cadmium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TCLP Chromium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Mercury	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
TCLP Lead	0.22	1.59	< 0.10	< 0.10	9.55	< 0.10	26.0	3.81	21.1	< 0.10	0.71	1.09	0.62
TCLP Selenium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Client ID	T3128	T3129	T3130	T3131	T3132	T3133	T3134	T3135	T3136	T3137	T3138	T3139	T3140
Lab ID	CF52963	CF52964	CF52965	CF52966	CF52967	CF52968	CF52969	CF54898	CF54899	CF54900	CF54901	CF54902	CF56383
Sample Date	3/18/2020	3/18/2020	3/18/2020	3/18/2020	3/18/2020	3/18/2020	3/18/2020	3/23/2020	3/23/2020	3/23/2020	3/23/2020	3/23/2020	3/24/2020
TCLP Silver	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Arsenic	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Barium	0.18	0.45	0.24	0.23	0.13	0.10	< 0.10	0.26	0.36	0.38	0.97	0.44	0.20
TCLP Cadmium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TCLP Chromium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Mercury	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
TCLP Lead	0.16	1.86	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.37	0.14	9.98	0.86	< 0.10
TCLP Selenium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Client ID	T3141	T3142	T3143	T3144	T3145	T31406	T3147	T3148	T3149	T3150	T3151	T3152	T3153
Lab ID	CF56384	CF56385	CF56386	CF56387	CF56388	CF56389	CF6390	CF6391	CF6392	CF56377	CF56378	CF56379	CF56380
Sample Date	3/24/2020	3/24/2020	3/24/2020	3/24/2020	3/24/2020	3/24/2020	3/24/2020	3/24/2020	3/24/2020	3/25/2020	3/25/2020	3/25/2020	3/25/2020
TCLP Silver	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Arsenic	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Barium	0.22	0.17	0.21	0.59	0.23	0.56	0.30	< 0.10	0.61	0.18	0.46	0.24	0.35
TCLP Cadmium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TCLP Chromium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Mercury	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
TCLP Lead	< 0.10	< 0.10	< 0.10	80.7	0.12	61.1	1.65	< 0.10	115	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Selenium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Client ID	T3154	T3155	T3156	T3157	T3158	T3159	T3160	T3161	T3162	T3163	T3148	T3149	T3150
Lab ID	CF56381	CF56382	CF58950	CF58951	CF58952	CF58953	CF58954	CF58955	CF61574	CF61575	CF6391	CF6392	CF56377
Sample Date	3/25/2020	3/25/2020	3/31/2020	3/31/2020	3/31/2020	3/31/2020	3/31/2020	3/31/2020	4/1/2020	4/1/2020	3/24/2020	3/24/2020	3/25/2020
TCLP Silver	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Arsenic	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Barium	0.41	0.20	0.95	0.95	0.61	0.72	0.39	0.70	0.28	0.26	< 0.10	0.61	0.18
TCLP Cadmium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TCLP Chromium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Mercury	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
TCLP Lead	< 0.10	0.15	38.5	53.1	33.5	83.6	5.35	45.9	< 0.10	< 0.10	< 0.10	115	< 0.10
TCLP Selenium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Exceeds Unrestricted Soil Cleanup Objective of 0.63 mg/kg Lead

Table 2 - Waste Characterization
Treated Soils Analytical Summary

Client ID	T3151	T3152	T3153	T3154	T3155	T3156	T3157	T3158	T3159	T3160	T3161	T3162	T3163	T3148
Lab ID	CF56378	CF56379	CF56380	CF56381	CF56382	CF58950	CF58951	CF58952	CF58953	CF58954	CF58955	CF61574	CF61575	CF6391
Sample Date	3/25/2020	3/25/2020	3/25/2020	3/25/2020	3/25/2020	3/31/2020	3/31/2020	3/31/2020	3/31/2020	3/31/2020	3/31/2020	4/1/2020	4/1/2020	3/24/2020
TCLP Silver	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Arsenic	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Barium	0.46	0.24	0.35	0.41	0.20	0.95	0.95	0.61	0.72	0.39	0.70	0.28	0.26	< 0.10
TCLP Cadmium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TCLP Chromium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Mercury	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
TCLP Lead	< 0.10	< 0.10	< 0.10	< 0.10	0.15	38.5	53.1	33.5	83.6	5.35	45.9	< 0.10	< 0.10	< 0.10
TCLP Selenium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Client ID	T3149	T3150	T3151	T3152	T3153	T3154	T3155	T3156	T3157	T3158	T3159	T3160	T3161	T3162
Lab ID	CF6392	CF56377	CF56378	CF56379	CF56380	CF56381	CF56382	CF58950	CF58951	CF58952	CF58953	CF58954	CF58955	CF61574
Sample Date	3/24/2020	3/25/2020	3/25/2020	3/25/2020	3/25/2020	3/25/2020	3/25/2020	3/31/2020	3/31/2020	3/31/2020	3/31/2020	3/31/2020	3/31/2020	4/1/2020
TCLP Silver	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Arsenic	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Barium	0.61	0.18	0.46	0.24	0.35	0.41	0.20	0.95	0.95	0.61	0.72	0.39	0.70	0.28
TCLP Cadmium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TCLP Chromium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Mercury	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
TCLP Lead	115	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.15	38.5	53.1	33.5	83.6	5.35	45.9	< 0.10
TCLP Selenium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Client ID	T3163	T3164	T3165	T3166	T3167	T3168	T3169	T3170	T3171	T3172	T3173	T3174	T3175	T3176
Lab ID	CF61575	CF61576	CF61577	CF61578	CF61579	CF61580	CF61581	CF61582	CF61583	CF61566	CF61567	CF61568	CF61569	CF61570
Sample Date	4/1/2020	4/1/2020	4/1/2020	4/1/2020	4/1/2020	4/1/2020	4/1/2020	4/1/2020	4/1/2020	4/2/2020	4/2/2020	4/2/2020	4/2/2020	4/2/2020
TCLP Silver	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Arsenic	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Barium	0.26	1.20	0.38	0.37	0.37	0.76	1.50	0.40	0.82	0.23	0.54	0.78	0.39	0.30
TCLP Cadmium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TCLP Chromium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Mercury	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
TCLP Lead	< 0.10	31.9	< 0.10	< 0.10	< 0.10	3.43	20.0	< 0.10	2.68	< 0.10	0.67	17.3	< 0.10	< 0.10
TCLP Selenium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Client ID	T3177	T3178	T3179	T3180	T3181	T3182	T3183	T3184	T3185	T3186	T3187	T3188	T3189	T3190
Lab ID	CF61571	CF61572	CF61573	CF72088	CF72089	CF72090	CF72091	CF72082	CF72083	CF72084	CF72085	CF72086	CF72087	CF73947
Sample Date	4/2/2020	4/2/2020	4/2/2020	4/9/2020	4/9/2020	4/9/2020	4/9/2020	4/10/2020	4/10/2020	4/10/2020	4/10/2020	4/10/2020	4/10/2020	4/15/2020
TCLP Silver	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Arsenic	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Barium	0.92	0.93	0.29	0.67	0.75	0.32	0.40	0.18	0.17	0.13	0.27	0.41	0.17	0.60
TCLP Cadmium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TCLP Chromium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Mercury	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
TCLP Lead	2.80	3.01	< 0.10	1.02	20.7	< 0.10	< 0.10	0.38	0.17	0.18	1.04	3.81	< 0.10	2.93
TCLP Selenium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Exceeds Unrestricted Soil Cleanup Objective of 0.63 mg/kg Lead

Table 2 - Waste Characterization
Treated Soils Analytical Summary

Client ID	T3191	T3192	T3193	T3194	T3195	T3196	T3197	T3198	T3199	T3200	T3201	T3202	T3203	T3204
Lab ID	CF73948	CF73949	CF73950	CF73951	CF75912	CF75913	CF75914	CF75915	CF75916	CF75917	CF75918	CF75919	CF75920	CF75921
Sample Date	4/15/2020	4/15/2020	4/15/2020	4/15/2020	4/20/2020	4/20/2020	4/20/2020	4/20/2020	4/20/2020	4/20/2020	4/20/2020	4/20/2020	4/20/2020	4/20/2020
TCLP Silver	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Arsenic	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Barium	0.28	0.20	0.27	0.26	0.48	0.81	0.52	0.36	0.54	0.74	0.92	0.31	0.70	0.79
TCLP Cadmium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TCLP Chromium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Mercury	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
TCLP Lead	< 0.10	< 0.10	< 0.10	< 0.10	19.9	174	36.6	6.93	44.6	89.6	184	381	104	231
TCLP Selenium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Client ID	T3205	T3206	T3207	T3208	T3209	T3210	T3211	T3212	T3213	T3214	T3215	T3216	T3217	T3218
Lab ID	CF79241	CF79242	CF79243	CF79234	CF79245	CF79246	CF79247	CF79248	CF79249	CF79250	CF79251	CF79252	CF79258	CF79259
Sample Date	4/23/2020	4/23/2020	4/23/2020	4/23/2020	4/23/2020	4/23/2020	4/23/2020	4/23/2020	4/23/2020	4/23/2020	4/23/2020	4/23/2020	4/23/2020	4/23/2020
TCLP Silver	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Arsenic	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Barium	0.14	0.22	0.90	0.35	0.29	1.10	0.55	0.25	0.39	0.22	0.28	0.45	0.35	0.31
TCLP Cadmium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TCLP Chromium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Mercury	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
TCLP Lead	0.18	< 0.10	136	0.38	< 0.10	269	2.56	0.91	2.89	< 0.10	0.67	7.23	1.40	< 0.10
TCLP Selenium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Client ID	T3219	T3220	T3221	T3222	T3223	T3224	T3225	T3226	T3227	T3228	T3229	T3230	T3231
Lab ID	CF79260	CF81004	CF81005	CF81006	CF92851	CF92852	CF92853	CF92854	CF92855	CF92856	CF92857	CF92858	CF92859
Sample Date	4/23/2020	4/29/2020	4/29/2020	4/29/2020	5/11/2020	5/11/2020	5/11/2020	5/11/2020	5/11/2020	5/11/2020	5/11/2020	5/11/2020	5/11/2020
TCLP Silver	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Arsenic	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Barium	0.31	0.61	0.89	0.57	0.35	0.48	0.29	0.35	0.29	0.21	0.17	0.26	0.24
TCLP Cadmium	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TCLP Chromium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
TCLP Mercury	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
TCLP Lead	1.65	137	217	8.43	< 0.10	29.9	< 0.10	2.55	0.67	< 0.10	0.32	0.37	0.27
TCLP Selenium	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Exceeds Unrestricted Soil Cleanup Objective of 0.63 mg/kg Lead

Table 3: Waste Disposal Volumes & Facilities

Waste type	Waste profile number	Waste disposal information	Waste transporter information
Source Material Treated Metal Contaminated Soil rendered non-hazardous	OHSWA CS0120-02	13,379.11 tons of treated metal contaminated soil was removed from the Site and disposed of at the Oneida-Herkimer Solid Waste Authority landfill located in Boonville, New York during 2020.	Field Contracting LLC State Transporter's ID 4A-687
Source Material PAH Contaminated Soils	OHSWA CS0120-01	1,000.45 tons of PAH contaminated soil was removed from the Site and disposed of at the Oneida-Herkimer Solid Waste Authority landfill located in Boonville, New York during 2020.	Field Contracting LLC State Transporter's ID 4A-687
Railroad Ties	OHSWA SW0620-01	18.33 tons of railroad ties were removed from the Site and disposed of at the Oneida-Herkimer Solid Waste Authority landfill located in Boonville, New York during 2020.	Field Contracting LLC State Transporter's ID 4A-687
Construction and Demolition Debris	N/A	102.76 tons of construction and Demolition Debris was removed from the Site and disposed of at the Oneida-Herkimer Solid Waste Authority Landfill located in Boonville, New York during 2020.	Field Contracting LLC State Transporter's ID 4A-687

Table 3: Waste Disposal Volumes & Facilities

Waste type	Waste profile number	Waste disposal information	Waste transporter information
Treated Construction Water	N/A	46,000 gallons of construction water collected, treated and discharged on site in accordance with the Construction Water Management Plan.	N/A

Table 4a: Baseline Sampling Results

Table 4a: Baseline Sampling Results
Detected Constituents in Groundwater
Union Fork Hoe Site
Frankfort, NY

Analyte	NYSDEC Class GA Standards	DEC-IW-02-080719 8/7/2019	DEC-DW-01-062619 6/26/2019	DEC-IW-06-062619 6/26/2019	212-SB-02-062519 6/25/2019	22-SB-02-062619 6/26/2019	DEC-SW-10-062419 6/24/2019	DEC-SW-11-062419 6/24/2019	DEC-SW-07-062419 6/24/2019	WO-01-062419 6/24/2019	DEC-SW-03-062519 6/25/2019	DEC-SW-13-062119 6/21/2019	DEC-DW-02-062119 6/21/2019	DEC-IW-03-062119 6/21/2019	DEC-SW-08-061919 6/19/2019	FW-1-061919 6/19/2019	DEC-IW-04-061919 6/19/2019
Metals																	
Aluminum	---	8.9	2.7 J	0.36 J	0.20 UJ	0.20 UJ	0.96 JH	4.9 JH	0.99 JH	0.088 JH	0.067 J	1.7	0.63	0.69 J	0.40	0.71	0.37
Arsenic	0.025	0.0087 J	0.0099 JH	0.015 UJ	0.015 U	0.015 U	0.015 U	0.011 J	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 UJ	0.015 U	0.015 UJ	0.015 U
Barium	1	0.19	0.24	0.12	0.17	0.14	0.10	0.18	0.15	0.14	0.12	0.11	0.16	0.17	0.12	0.17	0.12
Calcium	---	108	22.9	68.8	112	90.3	87.5	109	99.5	93.5	96.9	76.2	89.0	89.2	91.6	70.4	49.8
Chromium	0.05	0.018	0.0052 JH	0.0014 JH	0.0040 U	0.0040 U	0.0026 J	0.0067	0.0011 J	0.0040 U	0.0040 U	0.0027 J	0.0017 J	0.0019 JH	0.0011 J	0.0013 J	0.0040 U
Cobalt	---	0.0038 J	0.00063 J	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0028	0.0040 U	0.0040 U	0.0012 J	0.00079 J	0.0040 U	0.0040 U	0.0040 U	0.00075 J	0.0040 U
Copper	0.2	0.021	0.0044 J	0.010 U	0.010 U	0.010 U	0.01 U	0.016 JH	0.01 U	0.010 UJ	0.01 U	0.0040 J	0.0022 J	0.010 U	0.010 U	0.0018 J	0.010 U
Iron	0.3	**13.7 J**	**2.8**	**0.48**	0.050 U	0.084	**1.6**	**9.8**	**1.3**	**1.9**	**0.73**	**2.2 JH**	**0.72 JH**	**0.93**	**0.53**	**1.0**	**0.45**
Lead	0.025	0.010	0.010 U	0.010 U	0.010 U	0.010 U	0.0031 J	0.01	0.0036 J	0.010 UJ	0.0038 J	0.0030 J	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Magnesium	35	24.8	11.5	17.5	23.5	20.3	12.9	26.6	22.1	21.0	**42.6**	19.1	22.1	22.1	19.4	19.9	15.4
Manganese	0.3	**0.51**	0.22 JH	0.020 JH	0.003 U	0.0053 JH	0.12	**0.43**	0.079	0.014	0.034	0.11	0.040	**0.30 JH**	0.022	0.059	0.024
Nickel	0.1	0.0091 J	0.0029 J	0.010 U	0.010 U	0.010 U	0.0020 J	0.0064	0.0014 J	0.010 UJ	0.0015 J	0.0035 J	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Potassium	---	5.9 JH	2.0	2.3	3.6	2.9	2.2	3.9	2.7	2.6	11.8	2.4	2.4	3.1	3.1 JH	2.6 JH	1.6 JH
Sodium	---	117 JH	16.2	53.8	116	105	52.2	91.3	133	95.8	17.3	27.3	79.9	67.7	104	64.6	40.0
Vanadium	---	0.018	0.0048 J	0.0050 U	0.0050 U	0.0050 U	0.0017 J	0.0095	0.0018 J	0.0050 U	0.0050 U	0.0029 J	0.0050 U	0.0050 U	0.0050 U	0.0016 J	0.0050 U
Zinc	2	0.059 JH	0.019 JH	0.01 U	0.01 U	0.01 U	0.011 JH	0.039 JH	0.01 U	0.01 U	0.01 U	0.020 JH	0.01 U	0.018 JH	0.010 U	0.010 U	0.010 U
SVOs																	
Anthracene	50 G	5.0 U	5.2 U	5.0 U	5.0 U	5.7 U	5.0 U	5.0 U	0.31 J	5.0 U	25.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acenephthene	---	5.0 U	5.2 U	5.0 U	5.0 U	5.7 U	5.0 U	0.43 J	5.0 U	5.0 U	25.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibenzofuran	---	10 U	10 U	10 U	10 U	11 U	10 U	0.60 J	10 U	10 U	50.0 U	10.0 U	10.0 U	10 U	10.0 U	10 U	10.0 U
Diethyl Phthalate	50 G	5.0 U	5.2 U	5.0 U	5.0 U	3.2 J	5.0 U	5.0 U	5.0 U	5.0 U	25.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluorene	50 G	5.0 U	0.45 BJ	0.52 BJ	0.47 BJ	0.58 BJ	5.0 U	5.0 U	5.0 U	5.0 U	25.0 U	5.0 U	5.0 U	0.37 BJ	5.0 U	5.0 U	5.0 U
Phenanthrene	50	5.0 U	5.2 U	5.0 U	5.0 U	5.7 U	5.0 U	5.7 JH	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Caprolactam	---	5.0 U	5.2 U	5.0 U	5.0 U	4.1 J	5.0 U	5.0 U	5.0 U	5.0 U	25 U	63	15	5.0 U	5.0 U	62	72
VOCs																	
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.32 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acetone	50 G	10 U	10 U	10 U	10 U	3.0 J	10 U	10 U	10 U	10 U	10 U	10 U	10.0 U	10.0 U	10.0 U	10.0 U	10 U
2-Butanone	50 G	10 U	10 U	10 U	10.0 U	10 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	1.3 J	10.0 U	10.0 U	10.0 U	10.0 U	10 U
Chloroform	7	0.79 J	1.0 U	0.37 J	0.63 J	0.55 J	1.0 U	0.46 J	0.69 J	0.36 J	4.0 U	1.0 U	0.73 J	1.0 U	0.86 J	0.35 J	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	4.3 JH	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4	**5.1**	1 U	**9**	4.0 U	1.0 U	1.0 U	1.9	1.0 U	1.5 JH	1.7 JH

Notes:

G - Guidance Value

U - Not detected

J - estimated

JH - estimated biased high

Results in mg/L

--- No criteria

Bold values above Class GA Groundwater Standard or Guidance

Table 4b: Compliance Sampling Results

Table 4b - Compliance Sampling Results
Floor Samples

	Sample Name		Commercial Standard	F2001	F2002	F2003	F2004	F2005	F2006	F2007	F2008	F2009	F2010	F2011	F2012	F2013	F2014	F2015	F2016	F2017	F2018	F2019	F2020	F2021
Metals	ALUMINUM	-		7830	6910	9270	13600	10900	10300	9920	11500	12000	14100	8910	4850	10200	11900	11100	13700	10600	12200	14500	13000	13200
	ANTIMONY	-		11.8													3.1	1.8	3.2					
	ARSENIC		16	15	33.8	16.1	16.9	15.2	15.4	13.4	11.7	12.1	19.9	21.5	8.5	14.3	25.9	12.6	11.8	31.8	12.6	14.2	11.5	9.9
	BARIUM		400	84.7	103	107	120	111	129	93.2	69.1	99.5	86.2	103	56.1	125	74.8	101	82.5	87.4	93.4	109	73.1	67.7
	BERYLLIUM		590	0.6	0.51	0.52	0.72	0.57	0.54	0.5	0.54	0.6	0.53	0.47	0.25	0.59	0.65	0.46	0.74	0.62	0.59	0.68	0.57	0.62
	CADMIUM		9.3	0.12	0.3	0.37	0.18	0.21	0.21	0.066		0.031		0.15	0.063	0.16	0.19		0.097	0.34	0.05			
	CALCIUM	-		2500	38100	19300	5870	24900	31500	17700	2360	7060	6830	11600	43000	10800	10500	1410	2390	11000	3340	2210	2790	2560
	CHROMIUM, TOTAL	-		16	11.6	14.6	19.9	24.6	15	15.3	17	19	21.3	15.6	8.7	15.3	31.5	16.6	18.7	20.4	23.8	22.7	17.6	18.2
	COBALT	-		9	6.2	7	10.5	8.3	7.7	7.4	8.9	9.4	10.1	7.6	3.7	8.7	12.3	6.4	12.4	9.1	9.7	10.1	9.2	9.4
	COPPER		270	237	62.3	54.6	37.6	42.2	55.4	40.7	21.8	51	34.4	41.9	42.8	104	79.4	49.3	69.5	232	116	86.5	18.5	21.6
	IRON	-		44100	21400	18300	25500	22400	21700	22100	25500	29700	36200	26800	17100	24000	44900	29800	27800	28500	31200	31000	26300	25400
	LEAD		1000	556	222	250	131	123	191	131	30.2	139	86.8	143	155	320	126	30.6	137	738	105	216	16	23.7
	MAGNESIUM		10000	2120	15500	4120	4210	5170	9560	4460	3790	4580	4680	3260	4930	4100	5570	3770	4180	4570	4150	4440	3750	4260
	MANGANESE	-		519	433	360	528	517	581	578	593	688	451	395	166	388	1060	245	683	473	722	471	454	456
	NICKEL		310	21.6	15.4	17.2	24	26.6	18.8	18.6	20.4	23.8	24.3	17.9	9.8	22.5	37	17.7	27	23.7	22.9	24.5	20.6	21.3
	POTASSIUM	-		1320	1530	2240	3220	2680	2460	2250	2380	2290	2130	2000	989	2100	2520	2750	3060	1950	1990	2790	2510	2880
	SELENIUM		1500			1.2	0.74												0.48					
	SILVER		1500	0.3								0.34	0.26											
	SODIUM	-		49.1	115	73.9	73.1	71	148	59.9	43.5	66.1	57.9	47.7	59	60	93.8	69.4	43.3	54.4	53.1	53.3	42.9	41.5
	THALLIUM	-																						
	VANADIUM	-		18.1	17.2	21.1	25.6	21.5	20.8	19.1	22	22.2	27.8	17.2	10.9	21.7	28.6	25.1	28.2	23	25.3	25.4	22.4	22.5
	ZINC		10000	134	73.5	166	135	91.3	114	76	67.6	87.9	92.4	89.9	49.8	116	190	60	134	215	132	103	62.9	68.6
	MERCURY		2.8	0.21	0.17	0.19	0.13	0.15	0.51	0.11	0.064	0.13	0.082	0.2	0.17	0.22	0.077	0.049	0.068	0.15	0.063	0.64	0.02	0.02
SVOCs	*ACENAPHTHENE*		*500000*																	*140*				
	ACENAPHTHYLENE		*500000*	*39*	*370*	*520*	*30*				*29*				*170*	*150*		*28*	*59*	*190*		*130*		
	ANTHRACENE		*500000*	*95*											*600*					*450*	*320*	*89*		
	BENZO(A)ANTHRACENE		*5600*	*500*	*1200*	*2200*	*110*	*280*	*290*	*360*	*110*	*290*	*290*	*390*	*2800*	*1000*	*450*	*120*	*160*	*1700*	*920*	*350*	*21*	*33*
	BENZO(A)PYRENE		*1000*	*510*	*1200*	*2200*	*120*	*290*	*350*	*360*	*120*	*270*	*310*	*450*	*2400*	*940*	*420*	*110*	*160*	*1700*	*860*	*350*		*34*
	BENZO(B)FLUORANTHENE		*5600*	*670*	*1900*	*2900*	*190*	*530*	*500*	*490*	*180*	*350*	*430*	*680*	*3100*	*1400*	*610*	*230*	*270*	*2100*	*1000*	*520*	*29*	*46*
	BENZO(G,H,I)PERYLENE		*500000*	*320*	*840*	*1400*	*89*	*180*	*210*	*210*	*64*	*130*	*250*	*250*	*980*	*460*	*180*	*42*	*71*	*970*	*520*	*300*	*19*	*29*
	BENZO(K)FLUORANTHENE		*5600*	*350*	*750*	*1200*	*68*		*260*	*280*	*63*	*190*	*260*	*230*	*1300*	*520*	*250*	*88*	*110*	*900*	*560*	*290*		
	CHRYSENE		*56000*	*610*	*1600*	*2500*	*170*	*350*	*450*	*480*	*140*	*340*	*400*	*600*	*2900*	*1200*	*520*	*210*	*190*	*2000*	*950*	*460*		
	DIBENZ(A,H)ANTHRACENE		*560*	*100*	*270*	*410*																		
	DIBENZOFURAN		*350000*	*26*																				
	FLUORANTHENE		*500000*	*810*	*2300*	*4800*	*250*	*600*	*640*	*790*	*230*	*580*	*720*	*900*	*6100*	*1900*	*1000*	*350*	*260*	*3700*	*1800*	*930*	*37*	*55*
	FLUORENE		*500000*	*30*																*160*	*120*	*30*		
	NAPHTHALENE		*500000*	*28*												*180*								
	PENTACHLOROPHENOL		*6700*																					
	PHENANTHRENE		*500000*	*540*	*920*	*2500*	*110*	*210*	*250*	*340*	*94*	*170*	*350*	*380*	*2300*	*830*	*410*	*56*	*69*	*2300*	*1300*	*460*		
	PHENOL		*500*																					
	PYRENE		*500000*	*830*	*1900*	*4100*	*210*	*470*	*490*	*650*	*180*	*520*	*570*	*660*	*4300*	*1500*	*670*	*250*	*210*	*3000*	*1400*	*730*	*34*	*54*
	Total PAH		*500000*	*5773*	*14280*	*26370*	*1436*	*3100*	*3670*	*4180*	*1280*	*2980*	*3820*	*4810*	*28200*	*10650*	*4710*	*1531*	*1636*	*20340*	*10370*	*4961*	*140*	*281*
	Sample Depth (ft)			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Italicized indicates parts per billion. Otherwise parts per million.

Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures

PAH only failures

PAH exceedance of 500 ppm

Metal and PAH failures

Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Floor Samples

	Sample Name		Commercial Standard	F2022	F2023	F2024	F2025	F2026	F2027	F2028	F2029	F2030	F2031	F2032	F2033	F2034	F2035	F2036	F2037	F2038	F2039	F2040	F2041	F2041B
Metals	ALUMINUM	-		8000	6800	6470	12300	11100	15800	16800	14600	14900	11300	5650	6820	7750	7230	3070	5830	11800	11600	9860	8190	10600
	ANTIMONY	-														3	25.9	0.54						
	ARSENIC		16	33.2	46.4	26	38.7	56.5	25.4	16.2	26	34.2	24.3	9.1	19.4	13.2	21.9	1.7	15.2	13.7	14.2	33	27.1	25.9
	BARIUM		400	135	80.4	155	98.7	102	103	100	103	106	312	84.8	368	91.3	408	18.8	66.6	78.4	91.4	109	104	119
	BERYLLIUM		590	0.46	0.48	0.46	0.59	0.68	0.76	0.85	0.87	0.8	0.58	0.32	0.52	0.44	0.62	0.2	0.64	0.69	0.71	0.81	0.87	0.9
	CADMIUM		9.3	0.42	0.16		0.094	0.35	0.21		0.069	0.13	0.25	0.08	0.55	0.14	1.1		0.045			0.036	0.4	0.3
	CALCIUM	-		13000	51100	6770	10700	6460	3440	1770	4040	6390	5390	29400	10400	24400	12300	20600	7330	12300	4350	2780	5010	5190
	CHROMIUM, TOTAL	-		32.2	12.5	109	21.7	26.3	24	22.6	24	25	21.9	12	16.3	13.9	22	3.5	10.8	18.6	37	18.5	16.2	18.5
	COBALT	-		10.6	6.5	18.1	11.2	10.2	11.5	13.9	12.7	11.7	10.8	4.4	8.8	6.3	9.5	2.3	6.7	11	11.4	9.1	9.4	11.3
	COPPER		270	1560	63.7	262	58.5	104	79.9	90.1	47.6	85.1	123	39	205	46.6	191	7	70.6	95.1	71.4	157	154	136
	IRON	-		131000	25800	204000	27800	34400	31400	37500	38800	36600	42400	15800	40700	24900	41300	7910	28200	31000	30200	27600	26800	30200
	LEAD		1000	804	154	600	191	875	292	51.4	67	151	575	148	674	143	1040	10.8	283	285	3040	425	361	312
	MAGNESIUM		10000	2490	7480	1820	3770	3460	5310	5200	3780	4690	3480	3330	4030	4620	3350	1370	2090	5250	3610	2530	2140	3090
	MANGANESE	-		693	488	1590	607	502	513	621	561	589	923	365	408	529	496	123	224	466	538	349	363	464
	NICKEL		310	24.7	15.8	49.9	25	26.5	29.3	30	28.1	28.2	25.5	9.8	20.8	17.1	26.1	4.5	16.2	25.4	35.3	20.7	22.2	26.3
	POTASSIUM	-		1660	1500	1220	2620	2360	2890	3210	3150	3130	1800	1290	1050	1720	1290	696	1130	2520	2560	2100	1560	2160
	SELENIUM		1500	1.3		0.55		0.68		0.54	1.1						1.1		1.2		0.72	3.6	1.7	1.4
	SILVER		1500	1.2											0.3		0.5						0.23	0.23
	SODIUM	-		176	82.5	120	92.1	66.1	51.1	48.6	65.5	80.5	44.1	112	65.5	94.9	83.5	79	105	73.1	81.5	124	72.9	74.8
	THALLIUM	-															2							
	VANADIUM	-		31.7	14.5	29.2	22.7	22.6	27.1	27.4	26.5	29.6	25.4	15.5	18.1	21.4	23.6	8.7	18.5	23	25.9	25.5	22.9	24.9
	ZINC		10000	456	71.2	271	99.9	166	168	101	87.7	127	235	93.5	316	123	467	20.9	83.8	92.5	93.9	91.9	198	175
	MERCURY		2.8	0.21	0.14	0.34	0.092	0.26	0.15	0.04	0.1	0.1	0.21	0.077	0.29	0.1	0.45		0.16	0.052	0.16	0.24	0.2	0.17
SVOCs	*ACENAPHTHENE*		*500000*				*330*	*720*	*230*				*2000*	*6000*	*1700*	*360*	*3800*		*1000*		*99*	*210*	*2900*	*2600*
	ACENAPHTHYLENE		*500000*	*460*	*660*	*280*	*540*	*900*	*360*		*330*	*400*	*1000*	*680*	*1300*	*200*	*1700*		*420*	*160*	*26*	*46*	*710*	
	ANTHRACENE		*500000*	*510*		*410*	*1000*	*2500*	*850*		*290*	*410*	*8800*	*14000*	*5600*	*1100*	*12000*		*2400*		*400*	*620*	*7200*	*6200*
	BENZO(A)ANTHRACENE		*5600*	*3000*	*1800*	*1900*	*3200*	*5400*	*1900*		*1000*	*1300*	*14000*	*20000*	*14000*	*2900*	*26000*	*67*	*7400*	*680*	*1400*	*1500*	*13000*	*12000*
	BENZO(A)PYRENE		*1000*	*3000*	*2000*	*1800*	*2800*	*4900*	*1900*		*1000*	*1200*	*13000*	*16000*	*12000*	*2500*	*22000*	*73*	*6700*	*660*	*1300*	*1300*	*12000*	*9500*
	BENZO(B)FLUORANTHENE		*5600*	*3700*	*3300*	*2400*	*3600*	*6500*	*2600*		*1400*	*1900*	*16000*	*19000*	*16000*	*3400*	*30000*	*93*	*8900*	*840*	*1600*	*2100*	*16000*	*12000*
	BENZO(G,H,I)PERYLENE		*500000*	*2000*	*1800*	*1400*	*1700*	*3400*	*1100*		*550*	*820*	*7300*	*7500*	*7900*	*1700*	*15000*	*54*	*4800*	*470*	*970*	*470*	*7700*	*6000*
	BENZO(K)FLUORANTHENE		*5600*	*1700*	*1800*	*960*	*1800*	*3200*	*1000*		*750*	*950*	*7100*	*7700*	*7000*	*1200*	*13000*	*42*	*3400*	*420*	*700*	*760*	*6300*	*5200*
	CHRYSENE		*56000*	*3400*	*2300*	*2200*	*3400*	*6200*	*2200*		*1300*	*1700*	*15000*	*19000*	*13000*	*2800*	*27000*	*74*	*8200*	*700*	*1700*	*1800*	*14000*	*12000*
	DIBENZ(A,H)ANTHRACENE		*560*		*610*		*610*		*370*		*240*		*2500*	*2500*										
	DIBENZOFURAN		*350000*				*240*	*760*	*260*				*3200*	*5300*	*1800*	*260*	*3300*		*540*		*92*	*260*	*2500*	*2100*
	FLUORANTHENE		*500000*	*5200*	*2500*	*3700*	*6700*	*12000*	*4000*		*1700*	*2900*	*34000*	*45000*	*31000*	*6100*	*56000*	*120*	*16000*	*1300*	*2500*	*3500*	*34000*	*29000*
	FLUORENE		*500000*			*130*	*350*	*790*	*330*				*3200*	*6800*	*2200*	*420*	*4500*		*950*		*120*	*270*	*3800*	*3000*
	NAPHTHALENE		*500000*						*250*				*3600*	*3600*	*870*	*220*	*2200*		*410*		*96*	*290*	*1700*	*2100*
	PENTACHLOROPHENOL		*6700*																					
	PHENANTHRENE		*500000*	*2600*	*1000*	*2100*	*4200*	*8600*	*3000*		*890*	*1600*	*33000*	*49000*	*25000*	*4400*	*43000*	*78*	*12000*	*790*	*2100*	*3400*	*32000*	*28000*
	PHENOL		*500*																					
	PYRENE		*500000*	*5000*	*2300*	*3300*	*5500*	*9900*	*3200*		*1400*	*2500*	*26000*	*35000*	*25000*	*5100*	*45000*	*120*	*15000*	*1100*	*2600*	*2800*	*27000*	*23000*
	Total PAH		*500000*	*32700*	*21770*	*22080*	*37580*	*68390*	*24510*	*0*	*11370*	*16400*	*195400*	*259780*	*171870*	*34180*	*318500*	*778*	*91880*	*7560*	*16472*	*19786*	*186110*	*157100*
	Sample Depth (ft)			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Italicized indicates parts per billion. Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Floor Samples

	Sample Name	Commercial Standard	F2043	F2044	F2045	F2045B	F2046	F2047	F2048	F2049	F2050	F2050B	F2051	F2052	F2053	F2054	F2055	F2056	F2057	F2058	F2059	F2060	F2061
Metals	ALUMINUM	-		7570	8450	12300	11300	9200	6180	3600	4620	7030		6970	5460	6860	15100	13400	14200	13500	7660	9910	4580	12900
	ANTIMONY	-													23	5.9								
	ARSENIC		16	34.1	17	13.6	13.7	11.9	11.9	11.3	79.8	49.2		33.2	25.7	19.6	18.2	12.4	18	14.6	13.1	13.4	10.2	41.6
	BARIUM		400	128	121	77.9	84.5	111	67.5	96	141	130		93.5	130	108	105	112	118	275	77.9	571	163	88.1
	BERYLLIUM		590	0.81	0.74	0.71	0.63	0.66	0.43	0.52	0.72	0.97		0.5	0.4	0.43	0.58	0.58	0.56	0.51	0.4	0.53	0.68	0.52
	CADMIUM		9.3	0.33	0.52		0.12	1.1	0.26	0.38	0.58	6.3		2	0.8	0.28	0.13	0.092	0.11	0.26	0.22	0.29	0.088	1.1
	CALCIUM	-		9800	10200	2640	8360	16600	36200	3210	6330	5480		3000	82600	27000	2400	1930	2210	2250	63000	32300	5500	6950
	CHROMIUM, TOTAL	-		16.9	14.7	18.3	19.6	36.8	25.1	11.5	19.5	22.8		26.1	45.7	15.6	18.6	16.8	18.6	15.3	16.8	22.1	7.6	188
	COBALT	-		9.1	7.4	14.6	9.1	11	6.2	7	9.3	10.7		10.9	9.5	6.5	10.4	7.8	8.8	9.2	6.6	8.5	5.6	11.4
	COPPER		270	209	182	48.4	70.9	651	94.4	62.8	129	886		668	433	90.2	31.8	26.4	30.5	25.7	51.1	43.6	66.3	308
	IRON	-		32900	26700	28900	31300	73400	32200	30700	78000	70600		150000	127000	37700	28600	24100	29300	26600	35600	37200	10500	112000
	LEAD		1000	511	260	42.4	127	2700	724	247	249	584		46.7	31500	471	71.6	35.6	79.4	94.1	366	351	45	1430
	MAGNESIUM		10000	2140	3200	4620	3640	2960	5430	757	1150	1340		1990	5990	2440	4070	3380	3500	2500	4010	6120	811	2900
	MANGANESE	-		325	338	498	384	703	441	223	302	397		846	1170	625	1140	1100	1290	4290	538	527	153	882
	NICKEL		310	20.1	16.9	27.7	20.5	31.6	22.7	17.1	21	22.6		36.7	40.9	15.4	23.5	18.2	19	15.5	17.6	23.4	14.7	65.2
	POTASSIUM	-		1450	1400	2500	2180	2030	1470	614	754	1020		1440	981	1050	1540	1930	1600	1400	1570	1900	824	1220
	SELENIUM		1500	1.6	1.6			0.57			4.5	4.3											0.96	
	SILVER		1500	0.26			0.29	0.63			0.8	0.31			1.6									0.87
	SODIUM	-		134	112	47.5	69.9	123	98.2	102	135	155		112	148	64.7	44.2	37.9	39.7	37	134	95.3	55.6	88.9
	THALLIUM	-										0.7												
	VANADIUM	-		22.4	19.4	23.7	24.9	27.1	16.9	12.5	31	24.5		23.4	18.9	17	26.3	24.2	26.7	26.8	20.1	28.4	12.2	20.7
	ZINC		10000	224	251	86.5	126	171	131	91.1	185	158		918	407	185	118	91	119	103	144	391	54.2	632
	MERCURY		2.8	0.25	0.23	0.041	0.73	0.23	0.59	0.08	0.51	1.4		0.067	0.3	0.16	0.075	0.043	0.073	0.067	0.071	0.27	0.036	0.53
SVOCs	*ACENAPHTHENE*	*500000*	*1200*	*2300*	*230*	*530*				*1100*	*13000*	*11000*		*410*	*1800*						*3000*		
	ACENAPHTHYLENE	*500000*	*990*	*1200*	*220*	*440*		*370*	*160*	*1600*	*2600*	*2000*	*25*	*900*	*1100*	*57*		*92*		*3300*	*1000*		
	ANTHRACENE	*500000*	*3500*	*6000*	*700*	*1400*		*540*		*4300*	*30000*	*27000*	*52*	*1800*	*6900*			*59*			*9900*		*2000*
	BENZO(A)ANTHRACENE	*5600*	*11000*	*16000*	*2000*	*3500*		*2000*	*610*	*16000*	*80000*	*71000*	*170*	*5400*	*20000*	*160*	*37*	*230*		*7400*	*17000*	*110*	*3100*
	BENZO(A)PYRENE	*1000*	*9800*	*13000*	*1800*	*3300*		*2100*	*630*	*15000*	*67000*	*59000*	*160*	*4600*	*16000*	*170*	*39*	*250*		*7600*	*14000*	*83*	*2800*
	BENZO(B)FLUORANTHENE	*5600*	*13000*	*16000*	*2100*	*3700*		*2600*	*830*	*22000*	*77000*	*74000*	*330*	*6000*	*22000*	*210*	*45*	*320*		*9200*	*16000*	*120*	*3900*
	BENZO(G,H,I)PERYLENE	*500000*	*3600*	*5100*	*790*	*1300*		*840*	*300*	*5800*	*21000*	*30000*	*69*	*2600*	*8100*	*130*	*30*	*180*		*4300*	*8100*	*76*	*2000*
	BENZO(K)FLUORANTHENE	*5600*	*5300*	*6000*	*1100*	*2100*		*1400*	*420*	*8900*	*37000*	*28000*		*3000*	*8500*	*110*		*170*		*4900*	*9900*	*31*	*1400*
	CHRYSENE	*56000*	*10000*	*15000*	*2100*	*3900*		*2400*	*850*	*19000*	*91000*	*83000*	*240*	*5300*	*19000*	*200*		*290*		*7900*	*15000*	*160*	*3100*
	DIBENZ(A,H)ANTHRACENE	*560*	*1400*		*320*	*500*				*2600*													
	DIBENZOFURAN	*350000*	*1100*	*1400*	*170*	*370*				*1100*	*6600*	*5900*		*510*	*1100*					*1300*	*3200*		
	FLUORANTHENE	*500000*	*21000*	*32000*	*4200*	*8200*		*4000*	*1000*	*28000*	*160000*	*140000*	*370*	*11000*	*44000*	*320*	*55*	*540*		*19000*	*38000*	*200*	*7800*
	FLUORENE	*500000*	*1500*	*2700*	*280*	*610*				*1600*	*14000*	*13000*		*810*	*2000*					*1700*	*4600*		
	NAPHTHALENE	*500000*	*1200*	*1300*	*130*	*340*				*1600*	*11000*	*10000*		*430*	*480*					*1900*	*3600*		
	PENTACHLOROPHENOL	*6700*																					
	PHENANTHRENE	*500000*	*16000*	*30000*	*3500*	*6900*		*2700*	*650*	*19000*	*170000*	*160000*	*250*	*7600*	*25000*	*180*	*33*	*300*		*15000*	*33000*	*250*	*7000*
	PHENOL	*500*																					
	PYRENE	*500000*	*17000*	*30000*	*3800*	*6800*		*3700*	*960*	*27000*	*160000*	*160000*	*240*	*8500*	*32000*	*320*	*65*	*500*		*13000*	*30000*	*250*	*5500*
	Total PAH	*500000*	*121390*	*181900*	*24150*	*44970*	*0*	*23740*	*6650*	*181300*	*956600*	*896000*	*2008*	*61440*	*215680*	*1977*	*336*	*3121*	*0*	*102700*	*212900*	*1280*	*38600*
	Sample Depth (ft)		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Italicized indicates parts per billion. Otherwise parts per million.

Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures

PAH only failures

PAH exceedance of 500 ppm

Metal and PAH failures

Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Floor Samples

	Sample Name	Commercial Standard	F2062	F2063	F2063B	F2064	F2065	F2066	F2067	F2068	F2069	F2070	F2071	F2072	F2073	F2074	F2075	F2076	F2077	F2078	F2079	F2080	F2081
Metals	ALUMINUM	-	11100	6690		3740	10000	5300	3170	5390	1330	3250	9210	11900	11700	8850	15800	12900	10900	10300	11800	11400	10100
	ANTIMONY	-		2.9							14.7	29.2	4.1							1.5			
	ARSENIC	16	51.2	13.8		42.4	23	34.5	14.4	71.9	15	26.5	45.4	14.3	21.9	20.2	15.5	19.7	24.6	11.9	34.6	16.3	20.8
	BARIUM	400	107	86.5		58.3	82.6	95	36	80.4	30	43.1	86.1	97	85	126	97.5	103	236	83	76.7	74.9	94.3
	BERYLLIUM	590	0.62	0.37		0.36	0.59	0.47	0.16	0.55	0.11	0.39	0.82	0.65	0.74	0.67	0.84	0.78	0.73	0.5	0.64	0.7	0.58
	CADMIUM	9.3	0.46	0.54			0.051						0.22	0.056	0.078			0.16	1.6	0.035			
	CALCIUM	-	6390	11400		2030	4720	11700	867	2190	476	1730	22800	10800	2800	4670	2000	4600	8670	17100	15000	2430	26400
	CHROMIUM, TOTAL	-	203	215		34.7	16.2	45.1	60.5	553	18.6	61	19.1	17.8	18.7	24.9	21.9	26.6	73.1	15.4	18.7	30.4	27.1
	COBALT	-	15.4	12.9		14.1	9.7	15.6	24.9	17.5	7.9	18.6	9.4	9.1	10.9	15.3	13.2	9.8	11.1	7.4	9.6	12.2	9.5
	COPPER	270	688	151		122	43	82.4	308	307	21.9	110	71.5	82.9	63.8	419	36.8	210	2750	82.3	45.1	47.5	95.8
	IRON	-	157000	237000		206000	38200	213000	427000	255000	155000	314000	47900	25800	32300	101000	34900	29400	67500	21900	41800	102000	75800
	LEAD	1000	1310	14600		237	94.4	157	212	248	500	101	123	1730	258	381	37.4	255	859	64.3	60	48.6	192
	MAGNESIUM	10000	2890	2110		781	3500	3660	257	911	268	589	3900	4090	3460	2430	5040	4460	3560	5630	4350	3830	9130
	MANGANESE	-	1050	2090		1310	579	1220	2070	1590	762	1640	491	544	450	743	626	476	757	591	523	828	648
	NICKEL	310	85.9	113		29.2	21.5	44.4	29.9	43.2	13.6	68.2	24.5	21.1	26.5	27.1	32.8	26.1	26.4	17.5	23.9	39.1	24.1
	POTASSIUM	-	1270	1490		764	2410	1290	453	841	437	699	1960	2370	2590	1970	3550	2860	2220	2130	2570	2530	2470
	SELENIUM	1500				0.97	0.69	1	1.1	9		1.5				2	0.93	0.45	1.7				0.45
	SILVER	1500	1.2	1.9		1.2		1.2	2.6	1.5				0.3		0.66			0.47			0.52	
	SODIUM	-	105	103		51.8	42.5	66.5	61.7	78.1		62.3	92.6	250	52	75.8	46.5	59.7	128	54.1	47.4	57.7	77.6
	THALLIUM	-																					
	VANADIUM	-	35.3	18		24.1	22.5	17.3	17.8	28.6	4.9	23.5	25.4	23.9	25.4	23.4	31.5	27.6	24.7	20.4	23.7	25.4	23.3
	ZINC	10000	604	148		114	98.8	137	284	221	23.4	73.5	163	90	92.9	154	83.5	154	1050	74.5	78.7	74.3	115
	MERCURY	2.8	0.76	0.067		0.14	0.11	0.095	0.083	0.25	0.23	0.055	0.11	0.05	0.1	0.19	0.094	0.38	0.21	0.088	0.047	0.086	0.082
SVOCs	*ACENAPHTHENE*	*500000*				*3200*							*730*			*560*	*350*	*550*	*1600*	*130*			*300*
	ACENAPHTHYLENE	*500000*				*340*	*430*		*26*	*300*			*1200*		*220*		*32*	*190*			*360*		*350*
	ANTHRACENE	*500000*	*690*			*8500*			*66*	*470*			*2800*		*210*	*1300*	*1200*	*1400*	*4300*	*360*			*1100*
	BENZO(A)ANTHRACENE	*5600*	*1700*	*340*		*15000*	*1800*	*600*	*240*	*1600*		*910*	*10000*	*1300*	*730*	*2700*	*2200*	*3200*	*8600*	*910*	*1000*	*760*	*4000*
	BENZO(A)PYRENE	*1000*	*1900*			*12000*	*1700*	*560*	*190*	*1300*		*770*	*10000*	*1100*	*720*	*2300*	*1800*	*2800*	*7200*	*750*	*960*	*660*	*3800*
	BENZO(B)FLUORANTHENE	*5600*	*2600*	*470*		*14000*	*2300*	*790*	*260*	*1700*		*900*	*14000*	*1300*	*1100*	*3000*	*2500*	*3800*	*10000*	*960*	*1500*	*800*	*4600*
	BENZO(G,H,I)PERYLENE	*500000*	*1300*	*300*		*6900*	*1100*	*480*	*160*	*810*		*620*	*6300*	*690*	*460*	*1300*	*1000*	*1600*	*3900*	*410*	*480*	*370*	*2000*
	BENZO(K)FLUORANTHENE	*5600*	*740*			*6400*	*1300*	*280*	*120*	*830*		*430*	*5200*	*750*	*500*	*1400*	*950*	*1700*	*3500*	*490*	*750*	*420*	*1800*
	CHRYSENE	*56000*	*2000*			*15000*	*2000*	*660*	*350*	*1600*		*960*	*11000*	*1300*	*870*	*2800*	*2100*	*3400*	*8600*	*940*	*1100*	*790*	*4200*
	DIBENZ(A,H)ANTHRACENE	*560*				*2300*																	
	DIBENZOFURAN	*350000*				*2500*									*31*	*450*	*300*	*460*	*1500*				*160*
	FLUORANTHENE	*500000*	*3900*	*700*		*33000*	*3600*	*1100*	*440*	*3400*		*1700*	*19000*	*2600*	*1300*	*6800*	*5400*	*8100*	*22000*	*2000*	*1500*	*1400*	*7800*
	FLUORENE	*500000*				*4500*				*150*					*33*	*530*	*280*	*540*	*1800*	*110*			*300*
	NAPHTHALENE	*500000*				*2300*										*430*	*100*	*450*	*1500*				
	PENTACHLOROPHENOL	*6700*																					
	PHENANTHRENE	*500000*	*3300*	*340*		*39000*	*660*	*590*	*350*	*2200*		*1200*	*9000*	*1700*	*400*	*5800*	*4800*	*6400*	*18000*	*1500*	*310*	*320*	*4900*
	PHENOL	*500*																					
	PYRENE	*500000*	*3400*	*720*		*30000*	*3200*	*1100*	*440*	*3000*		*1600*	*17000*	*2200*	*1200*	*5100*	*4100*	*6200*	*16000*	*1600*	*1400*	*1300*	*7900*
	Total PAH	*500000*	*21530*	*3190*	*0*	*198540*	*19070*	*6540*	*2800*	*18320*	*0*	*9570*	*111800*	*13710*	*8282*	*35430*	*27812*	*42160*	*111700*	*10600*	*9930*	*7190*	*45110*
	Sample Depth (ft)		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Italicized indicates parts per billion. Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Floor Samples

	Sample Name	Commercial Standard	F2082	F2083	F2083B	F2083R1	F2084	F2084B	F2085	F2086	F2087	F2088	F2089	F2090	F2091	F2092	F2093	F2094	F2095	F2096	F2097	F2098	F2099
Metals	ALUMINUM	-	8450	11400		14000	19400		7180	13000	11300	9430	11200	12900	2230	3520	6810	8380	6160	5700	7820	13100	13400
	ANTIMONY	-				3.1											38.7						
	ARSENIC		16	19	28.9		17.8	36.4		28.4	50	18.6	14.7	14.9	15.4	29.6	45.1	52.6	24.7	28.8	15.5	15	14.3	19.8
	BARIUM		400	76.1	178		75.9	713		63.3	118	151	107	115	119	40.8	35.7	80.1	84.5	126	75.3	70	117	98.7
	BERYLLIUM		590	0.46	0.72		0.73	1		0.57	0.69	0.7	0.57	0.64	0.67	0.14	0.36	0.53	0.58	0.68	0.43	0.58	0.81	0.75
	CADMIUM		9.3		0.098			0.7		1.8	0.23	0.14	0.2	0.27	0.075				2.1	0.14				
	CALCIUM	-		45300	22300		5750	21100		69000	44900	17000	31000	19500	25500	604	2120	20000	62100	18100	20700	2480	5560	2690
	CHROMIUM, TOTAL	-		24.3	28.5		20.3	62.6		26.2	19.1	18.5	23.3	16	20.6	46	33.7	53.6	16.9	18.7	49.4	11.2	19.3	20.5
	COBALT	-		8	12		9.7	9.2		9.8	8.9	10.6	7.2	8.4	8.8	20.1	14.6	14.2	6.7	8.2	17.8	8.2	12.8	12.7
	COPPER		270	79.6	56.6		34.2	82		84.7	49.5	69.6	45.8	46.9	34.8	308	167	215	84	131	208	57.3	205	37.6
	IRON	-		71700	57100		37700	69400		108000	26700	38800	24300	20700	28000	416000	261000	186000	26300	39700	117000	23900	34800	40900
	LEAD		1000	150	181		30.4	1950		76.7	118	261	201	170	82.6	215	756	332	830	468	2810	50.9	3780	99.2
	MAGNESIUM		10000	7190	10600		4670	5320		2080	7090	4240	7890	8040	5140	380	681	2190	6970	3320	4080	2740	4200	3970
	MANGANESE	-		608	1450		482	492		1260	586	743	517	504	491	2880	2030	1280	419	411	659	507	671	668
	NICKEL		310	19.3	27.2		25.8	20.6		21.9	22.4	24.8	25.8	20	22.1	37.9	27.2	45.5	18.7	21.8	88.4	18.9	31.2	28.9
	POTASSIUM	-		2130	2700		2130	2450		1770	3210	2870	2390	2640	2680	328	811	1440	1610	1340	1230	1750	2650	2580
	SELENIUM		1500				0.58	1.3								1.6		1.1				2		
	SILVER		1500							0.57						2.5	1.8							
	SODIUM	-		82.6	111		51.2	1710		93.8	116	97.4	87.1	68.8	257	37.3	80.2	87.4	525	113	88.4	62	55.2	43.9
	THALLIUM	-																						
	VANADIUM	-		20.3	26.2		27.1	34.4		17.6	26.3	25.6	21.3	23.6	26.1	27.1	25.4	23.2	22.4	22.7	16	17.3	28	28.1
	ZINC		10000	90.3	162		78.2	472		445	108	125	99.7	101	103	116	63	175	205	131	161	61.9	128	122
	MERCURY		2.8	0.13	0.2		0.026	1.2		0.21	0.17	0.21	0.28	0.19	0.078	0.09	0.11	0.27	0.085	0.28	0.1	0.12	0.064	0.059
SVOCs	*ACENAPHTHENE*	*500000*	*400*	*5400*	*5100*		*90000*	*89000*	*750*														
	ACENAPHTHYLENE	*500000*	*560*	*2400*	*1800*	*35*	*38000*	*31000*	*250*		*360*	*140*	*120*	*100*				*790*	*840*	*590*	*30*		
	ANTHRACENE	*500000*	*1400*	*17000*	*16000*	*71*	*220000*	*230000*	*2400*				*110*	*110*	*410*				*740*	*520*	*51*		
	BENZO(A)ANTHRACENE	*5600*	*4700*	*36000*	*44000*	*250*	*410000*	*520000*	*7500*	*430*	*1700*	*620*	*440*	*420*	*930*	*140*	*790*	*2400*	*2700*	*3100*	*210*	*330*	*94*
	BENZO(A)PYRENE	*1000*	*4300*	*30000*	*36000*	*250*	*340000*	*430000*	*6400*	*470*	*1700*	*620*	*460*	*410*	*760*	*110*	*730*	*2200*	*3200*	*3200*	*180*	*350*	*110*
	BENZO(B)FLUORANTHENE	*5600*	*5700*	*35000*	*41000*	*320*	*430000*	*540000*	*8300*	*720*	*2600*	*930*	*670*	*610*	*950*	*100*	*840*	*3100*	*4600*	*3800*	*300*	*440*	*150*
	BENZO(G,H,I)PERYLENE	*500000*	*2400*	*11000*	*23000*	*94*	*120000*	*290000*	*2300*	*230*	*990*	*370*	*360*	*310*	*510*	*140*	*490*	*1700*	*2700*	*2500*	*150*	*330*	*97*
	BENZO(K)FLUORANTHENE	*5600*	*2100*	*17000*	*20000*	*150*	*160000*	*190000*	*2900*	*240*	*910*	*330*	*260*	*230*	*270*		*490*	*1400*	*2500*	*2000*	*92*		*75*
	CHRYSENE	*56000*	*5200*	*36000*	*42000*	*270*	*360000*	*500000*	*7700*	*540*	*2200*	*770*	*550*	*480*	*960*	*200*	*940*	*2800*	*3200*	*3600*	*360*		*130*
	DIBENZ(A,H)ANTHRACENE	*560*		*5400*			*59000*	*100000*											*840*	*840*			
	DIBENZOFURAN	*350000*	*240*	*3200*	*3100*		*55000*	*56000*	*450*				*23*	*24*							*48*		
	FLUORANTHENE	*500000*	*9800*	*63000*	*87000*	*540*	*670000*	*1000000*	*16000*	*950*	*4500*	*1300*	*900*	*830*	*1900*	*160*	*1800*	*4100*	*3900*	*5500*	*510*	*520*	*170*
	FLUORENE	*500000*	*450*	*6100*	*5900*		*100000*	*100000*	*830*				*36*	*28*	*140*								
	NAPHTHALENE	*500000*	*160*	*3000*	*2900*		*57000*	*56000*	*340*				*26*										
	PENTACHLOROPHENOL	*6700*																					
	PHENANTHRENE	*500000*	*6500*	*53000*	*74000*	*280*	*600000*	*930000*	*11000*	*470*	*2700*	*520*	*500*	*420*	*1800*	*130*	*1400*	*1700*	*1700*	*2600*	*490*		*85*
	PHENOL	*500*																					
	PYRENE	*500000*	*9500*	*53000*	*86000*	*450*	*530000*	*970000*	*14000*	*760*	*3600*	*1100*	*900*	*710*	*2000*	*190*	*1600*	*4200*	*4100*	*5600*	*460*	*500*	*180*
	Total PAH	*500000*	*55610*	*384100*	*502700*	*2710*	*4288000*	*6201000*	*83130*	*5060*	*22670*	*7070*	*5726*	*5019*	*11210*	*1249*	*9560*	*25890*	*33820*	*36050*	*2986*	*2830*	*1175*
	Sample Depth (ft)		1	1	1	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Italicized indicates parts per billion. Otherwise parts per million.

Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures

PAH only failures

PAH exceedance of 500 ppm

Metal and PAH failures

Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Floor Samples

	Sample Name	Commercial Standard	F2100	F2101	F2102	F2103	F2104	F2105	F2106	F2107	F2108	F2109	F2110	F2111	F2112	F2113	F2114	F2115	F2116	F2117	F2118	F2119	F2120
Metals	ALUMINUM	-	7130	13700	12200	6060	7100	10700	5120	12000	11500	13400	4510	8530	5440	5740	8730	7250	6350	7260	11500	6420	7550
	ANTIMONY	-	1.2													0.99	0.45						
	ARSENIC	16	14.3	14.2	13.4	14.1	12.1	13.9	14.9	32.4	16.8	13	38.6	72.7	10.1	15.6	8.4	12.7	17.3	13.9	18.8	15.3	13.4
	BARIUM	400	106	119	114	66.5	110	112	97.9	106	94.3	97.9	52.5	118	52.6	87.8	247	104	80.5	111	96	106	97.8
	BERYLLIUM	590	0.6	0.79	0.73	0.52	0.51	1	0.55	0.81	0.73	0.73	0.41	0.69	0.5	0.7	0.51	0.79	0.56	0.6	0.71	0.61	0.57
	CADMIUM	9.3	0.25	0.073	0.19	0.22	0.13	0.057		0.68	0.23		0.28	0.12	0.04	0.16	0.93	0.15	0.11	1.2			0.12
	CALCIUM	-	7440	5280	7510	70300	110000	6960	5430	11000	10100	2630	128000	29200	3780	14900	37700	18300	26900	14800	4390	5700	6210
	CHROMIUM, TOTAL	-	24.9	20.7	21	16.7	10.2	16.6	10.9	21.1	19.1	19.6	11.8	27.8	10	46.2	30.5	11.4	11.1	22.9	15.8	10.9	16
	COBALT	-	7.6	11.4	10.9	7.3	6.6	10.1	6.3	11.4	11	12.9	5.5	9.6	5.2	8	4.6	7.9	7.8	8.7	10.1	7.6	9.8
	COPPER	270	171	73.3	100	82.6	65.9	71.1	147	65.6	43.8	31.7	31.8	481	43.5	92.7	3510	59.6	89.8	232	65.3	174	223
	IRON	-	32500	32100	31000	21600	15800	27000	29500	37000	28500	29100	22800	66800	20500	29800	24300	20800	24500	21400	35300	21700	39800
	LEAD	1000	2250	331	607	737	396	199	610	895	364	62.9	561	1120	339	4640	7270	261	1130	3260	88.4	270	290
	MAGNESIUM	10000	2590	5160	4670	37200	17100	4180	1260	5310	5620	4900	74800	4930	1680	1840	6570	3310	8360	3420	3950	2410	3400
	MANGANESE	-	349	549	540	628	432	497	208	508	676	597	1440	690	271	362	286	375	475	525	615	345	594
	NICKEL	310	25.3	27.7	28.1	16.6	16.1	24.4	15.1	30	27.7	31	14.4	32.6	101	22.2	20.6	18.9	18.9	25.1	29	17.9	28.1
	POTASSIUM	-	1410	2680	2260	1480	1410	2160	944	2210	2320	2420	1370	1820	1150	1110	1520	891	868	900	1740	850	920
	SELENIUM	1500	0.81		0.68	0.89			1.7						0.82							0.57	
	SILVER	1500	0.3											0.37		0.27	0.3						
	SODIUM	-	64.8	72.2	94.1	141	227	78.4	88.1	72.9	48.2	32.9	193	132	97.3	104	767	79.6	86	116	53.9	81.9	70.6
	THALLIUM	-																					
	VANADIUM	-	20.7	27.9	26.4	17.8	17.1	23.3	16.3	25.6	23.6	24.6	18.6	24.2	14.7	17.8	17.3	16.8	15.5	22.8	22.4	16.4	17.9
	ZINC	10000	224	137	175	79.4	56.6	77.8	63.4	423	118	83.4	286	181	52.9	80.9	235	130	86.9	567	90.1	80.1	172
	MERCURY	2.8	0.41	0.068	0.094	0.21	0.089	0.14	0.16	0.1	0.072	0.032	0.062	0.21	0.071	0.19	0.21	0.1	0.085	0.14	0.055	0.15	0.079
SVOCs	*ACENAPHTHENE*	*500000*	*350*	*47*	*140*	*48*	*45*	*44*	*62*						*160*				*51*	*1500*			
	ACENAPHTHYLENE	*500000*	*120*	*120*	*150*	*87*	*47*	*49*	*66*	*160*	*150*	*28*	*190*	*130*	*37*	*530*	*200*	*74*	*84*	*580*			*65*
	ANTHRACENE	*500000*	*820*	*180*	*490*	*160*	*110*	*140*	*180*				*130*	*300*	*450*	*290*		*110*	*160*	*3100*	*250*		*110*
	BENZO(A)ANTHRACENE	*5600*	*2300*	*510*	*1600*	*730*	*430*	*520*	*880*	*590*	*410*	*72*	*490*	*820*	*1400*	*1500*	*780*	*510*	*860*	*6900*	*630*	*78*	*490*
	BENZO(A)PYRENE	*1000*	*2000*	*500*	*1500*	*730*	*400*	*480*	*900*	*590*	*430*	*75*	*560*	*800*	*1200*	*1900*	*850*	*520*	*860*	*6000*	*640*	*84*	*440*
	BENZO(B)FLUORANTHENE	*5600*	*2600*	*660*	*1800*	*1100*	*560*	*740*	*1200*	*950*	*660*	*120*	*870*	*1200*	*1700*	*3100*	*1100*	*780*	*1200*	*8700*	*770*	*150*	*650*
	BENZO(G,H,I)PERYLENE	*500000*	*1400*	*320*	*990*	*510*	*250*	*310*	*490*	*400*	*250*	*49*	*340*	*510*	*530*	*880*	*410*	*300*	*460*	*2800*	*530*	*100*	*400*
	BENZO(K)FLUORANTHENE	*5600*	*1000*	*310*	*820*	*370*	*280*	*230*	*480*	*380*	*260*	*50*	*360*	*400*	*730*	*980*	*570*	*300*	*550*	*3600*	*370*	*41*	*280*
	CHRYSENE	*56000*	*2400*	*580*	*1800*	*880*	*490*	*650*	*1100*	*720*	*460*	*84*	*640*	*950*	*1400*	*1800*	*880*	*620*	*940*	*7100*	*690*	*140*	*570*
	DIBENZ(A,H)ANTHRACENE	*560*	*420*													*370*							
	DIBENZOFURAN	*350000*	*240*	*52*		*35*	*33*	*35*	*44*				*26*		*88*			*22*	*32*	*1400*			*25*
	FLUORANTHENE	*500000*	*5400*	*1300*	*3500*	*1400*	*910*	*1100*	*1800*	*1100*	*820*	*130*	*1000*	*1800*	*3100*	*2500*	*1600*	*980*	*1600*	*17000*	*1300*	*150*	*720*
	FLUORENE	*500000*	*340*	*69*	*160*	*50*	*38*	*38*	*51*				*34*		*170*			*26*	*43*	*1500*	*120*		*26*
	NAPHTHALENE	*500000*	*300*	*49*		*33*	*26*	*32*	*42*				*46*		*71*			*25*		*2800*			
	PENTACHLOROPHENOL	*6700*																					
	PHENANTHRENE	*500000*	*4300*	*990*	*2400*	*810*	*550*	*730*	*1000*	*480*	*320*	*60*	*450*	*1200*	*1900*	*760*	*910*	*430*	*750*	*16000*	*1400*	*120*	*410*
	PHENOL	*500*																					
	PYRENE	*500000*	*4600*	*1100*	*3400*	*1300*	*740*	*980*	*1600*	*890*	*660*	*120*	*870*	*1500*	*2400*	*2200*	*1300*	*810*	*1400*	*12000*	*1300*	*130*	*670*
	Total PAH	*500000*	*29630*	*7088*	*19730.00*	*8712*	*5127*	*6342*	*10357*	*6660*	*4690*	*840*	*6377*	*10190*	*15808*	*17770*	*9160*	*5821*	*9427*	*92680*	*8530*	*1067*	*5220*
	Sample Depth (ft)		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Italicized indicates parts per billion. Otherwise parts per million.

Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures

PAH only failures

PAH exceedance of 500 ppm

Metal and PAH failures

Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Floor Samples

	Sample Name	Commercial Standard	F2121	F2122	F2123	F2124	F2125	F2126	F2127	F2128	F2129	F2130	F2131	F2132	F2133	F2134	F2135	F2136	F2137	F2138	F2139	F2140	F2141
Metals	ALUMINUM	-	7330	10700	7420	4880	7710	12000	9440	7870	7340	11700	9410	9580	5780	8070	5100	6590	4180	4350	3790	6890	6420
	ANTIMONY	-					3.1	19.8	5	2.6	73.5	8.6	22	5	7.6	24.5	5.8		1.5	80.8	17.1		3.5
	ARSENIC	16	10.4	15.9	14.2	31.4	18.1	28	19.4	15.3	23.9	26.3	14.6	37.4	30.7	21	99.1	66.1	8.9	12.2	33	27.2	14.3
	BARIUM	400	78	107	69.8	80.3	74.8	109	110	332	70.8	200	285	121	97.4	105	81.2	86	119	92.8	69.9	87.2	77.6
	BERYLLIUM	590	0.46	0.69	0.5	0.45	0.67	0.81	0.86	0.68	0.45	0.82	0.66	0.76	0.63	0.62	0.9	0.61	0.26	0.3	0.52	0.71	0.56
	CADMIUM	9.3	0.12	0.087	0.084		0.45	0.68	0.35	0.34	0.048	0.5	0.094	0.18		0.21	0.29		0.38				0.33
	CALCIUM	-	7580	9610	33800	27400	21600	23000	7790	3770	84100	21500	23300	4410	6250	11400	5520	5460	117000	31300	3300	3060	3690
	CHROMIUM, TOTAL	-	13.8	22	22.3	40	21.3	25.9	18.4	12.4	13	27.7	30.5	18	23.2	14.2	11.1	17.5	9.2	22.4	17.9	16.9	12.4
	COBALT	-	13.1	9.4	6.1	7.1	7.7	10.5	10.2	11	9.3	11.8	7.2	10.3	9.6	7.2	10.8	10.1	4.3	5.9	11.1	10.8	7.8
	COPPER	270	121	144	53.9	202	81.7	97.6	84.6	65.1	206	121	126	79.7	593	141	94.8	279	24.6	125	196	242	145
	IRON	-	23700	34800	25700	91200	21900	33500	31700	24500	37300	48100	55700	43800	84400	35100	35400	72600	13000	70000	122000	69900	26700
	LEAD	1000	355	341	1540	3950	735	42600	1610	248	7580	5330	48800	476	291	718	178	209	84.2	54700	590	360	357
	MAGNESIUM	10000	3360	3540	4500	1900	6430	6450	2500	2320	3890	5050	1770	2380	1950	2120	982	2610	6760	2770	904	1660	1740
	MANGANESE	-	378	463	603	760	366	546	423	730	380	669	332	562	629	355	274	845	209	449	629	523	356
	NICKEL	310	22.3	28	32.8	30.4	21.4	35.9	27.1	23.8	16.9	42.9	154	25.1	31.6	18.4	22.3	23.8	12.9	66.7	24.1	36.4	17.6
	POTASSIUM	-	782	2400	1660	970	2080	2970	2010	1690	1490	3050	3290	2160	1350	1520	780	1170	1080	881	802	1240	1210
	SELENIUM	1500				1.1	1.5	1.1	1.3	1.9		1.8	1.3	1.8	2	1.4	1.8					1.7	0.72
	SILVER	1500						1.2			0.43		1.2							2.9			
	SODIUM	-	105	217	80.5	150	107	116	91	101	546	145	533	58.9	77.6	356	75.1	103	148	242	52	58	68
	THALLIUM	-								0.56		0.55					0.39						0.44
	VANADIUM	-	24.6	26.9	29.3	40.8	23	32.4	25.5	17	17.2	28.3	24.4	23	20.5	18.3	17.6	21.1	12.6	11.6	20.5	20.6	18.7
	ZINC	10000	126	131	86.5	77	124	146	117	133	124	212	62.7	140	187	117	144	112	137	58.9	124	128	196
	MERCURY	2.8	0.065	0.066	0.12	0.14	0.2	0.16	0.15	0.12	0.075	0.16	0.044	0.16	0.29	0.15	0.2	0.3	0.074	0.071	0.25	0.32	0.27
SVOCs	*ACENAPHTHENE*	*500000*		*50*		*330*					*330*					*950*		*43*			*8400*		
	ACENAPHTHYLENE	*500000*		*72*		*5600*	*2200*	*5600*	*9700*	*150*	*900*	*520*	*99*	*270*	*450*	*270*	*82*	*80*		*99*	*820*	*1200*	*210*
	ANTHRACENE	*500000*		*200*		*2300*	*1500*	*3800*	*7200*	*160*	*1600*	*480*	*80*	*250*	*610*	*2300*	*70*	*170*		*110*	*17000*	*640*	*160*
	BENZO(A)ANTHRACENE	*5600*	*600*	*500*	*440*	*7300*	*6000*	*14000*	*22000*	*690*	*4000*	*1800*	*270*	*1300*	*2700*	*4200*	*400*	*600*	*160*	*380*	*30000*	*3500*	*670*
	BENZO(A)PYRENE	*1000*	*580*	*480*	*380*	*10000*	*6200*	*19000*	*22000*	*700*	*3700*	*2100*	*270*	*1300*	*2700*	*3800*	*380*	*600*	*190*	*360*	*22000*	*3200*	*680*
	BENZO(B)FLUORANTHENE	*5600*	*840*	*720*	*550*	*13000*	*9500*	*29000*	*30000*	*990*	*4900*	*3600*	*380*	*2000*	*4300*	*5000*	*640*	*1000*	*330*	*470*	*28000*	*5300*	*1100*
	BENZO(G,H,I)PERYLENE	*500000*	*490*	*360*	*370*	*6400*	*4400*	*9300*	*11000*	*410*	*1900*	*1200*	*160*	*650*	*1200*	*1700*	*370*	*560*	*170*	*320*	*11000*	*2100*	*430*
	BENZO(K)FLUORANTHENE	*5600*	*280*	*270*	*190*	*5700*	*4800*	*11000*	*14000*	*390*	*2400*		*160*	*720*	*1600*	*2100*	*220*	*420*		*200*	*12000*	*2000*	*500*
	CHRYSENE	*56000*	*640*	*540*	*420*	*7500*	*6700*	*16000*	*21000*	*880*	*4500*	*2300*	*370*	*1500*	*3300*	*4800*	*560*	*740*		*440*	*31000*	*3600*	*880*
	DIBENZ(A,H)ANTHRACENE	*560*					*1600*	*3800*	*4400*	*150*	*730*	*430*		*260*		*640*							
	DIBENZOFURAN	*350000*		*50*						*42*	*320*		*27*		*110*	*950*	*58*	*48*		*24*	*4400*		*45*
	FLUORANTHENE	*500000*	*1100*	*1100*	*760*	*8600*	*8200*	*16000*	*26000*	*1200*	*7900*	*3500*	*410*	*1800*	*4400*	*10000*	*590*	*1100*	*270*	*680*	*73000*	*8000*	*1400*
	FLUORENE	*500000*		*78*		*400*		*340*	*590*	*34*	*430*	*150*			*180*	*1200*		*54*		*25*	*7900*		*28*
	NAPHTHALENE	*500000*		*55*		*600*		*500*	*240*	*53*	*400*	*190*	*56*			*920*	*130*	*87*			*2500*	*130*	*66*
	PENTACHLOROPHENOL	*6700*																					
	PHENANTHRENE	*500000*	*730*	*740*	*400*	*2300*	*1500*	*3000*	*3100*	*550*	*4000*	*1500*	*240*	*640*	*2100*	*9600*	*300*	*630*	*140*	*360*	*72000*	*1300*	*550*
	PHENOL	*500*																					
	PYRENE	*500000*	*980*	*920*	*640*	*7700*	*8300*	*18000*	*23000*	*1100*	*6300*	*3100*	*390*	*1700*	*3900*	*7900*	*550*	*900*	*240*	*630*	*54000*	*5900*	*1200*
	Total PAH	*500000*	*6660*	*6453*	*4470*	*84000*	*65440*	*160040*	*206070*	*7879*	*45900*	*22120*	*3015*	*13000*	*28920*	*57430*	*4687*	*7531*	*1660*	*4374*	*379120*	*39150*	*8392*
	Sample Depth (ft)		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Italicized indicates parts per billion. Otherwise parts per million.

Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures

PAH only failures

PAH exceedance of 500 ppm

Metal and PAH failures

Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Floor Samples

	Sample Name		Commercial Standard	F2142	F2143	F2144	F2145	F2146	F2147	F2148	F2149	F2150	F2151	F2152	F2153	F2154	F2155	F2156	F2157	F2158	F2159	F2160	F2161	F2162
Metals	ALUMINUM	-		7160	8940	7200	7620	9650	7180	8600	8010	9230	12700	10900	11300	8750	6740	9910	11200	11400	6240	4750	6980	7540
	ANTIMONY	-		3.4	5.8	8.3	15.2	2.8	11.4	3	6.9	6.1	6.7	2	3.2					1.2	53.2	12.9	21.8	
	ARSENIC		16	14.5	23.3	22.2	72.9	10.8	24.4	10.8	19.6	24.8	27.1	11.4	13.2	36.2	26	13.3	22.1	20.7	22.7	47.5	26.8	20.9
	BARIUM		400	85.7	96.5	118	57.6	76.1	61.5	59	140	87.5	78.4	64.8	74.8	82.4	87.1	78.8	124	190	350	67.9	106	79.1
	BERYLLIUM		590	0.63	0.78	0.79	0.61	0.61	0.51	0.57	0.64	0.8	0.77	0.6	0.66	0.61	0.6	0.59	0.73	0.72	0.57	0.86	0.61	0.67
	CADMIUM		9.3	0.65	0.33	0.14	0.39	0.11			0.29	0.14				0.1		0.035	0.38	0.48	0.74			
	CALCIUM	-		3980	3340	4870	16800	5940	3600	2130	6290	5980	2520	1750	1780	33900	23400	2180	6590	4100	6960	3010	6470	5270
	CHROMIUM, TOTAL	-		14	18.2	16.7	19.1	24.4	15.1	16.5	32.8	19.8	20.6	16.8	18.3	14.2	11.7	15.2	35.6	25.5	26.1	19.6	17.7	16.4
	COBALT	-		8	10.5	10.2	9.5	8.7	10.4	8	9.6	10.5	15.3	9.6	10.5	9.2	16.4	9.3	11.1	11	11.2	13.6	10.3	11.2
	COPPER		270	169	172	162	209	184	118	75	876	213	122	26	87	127	215	79.2	310	224	294	230	131	145
	IRON	-		26500	47600	51300	33600	23800	85700	27400	50000	53100	40700	26600	33500	27300	40300	24400	45600	31700	82700	107000	72100	66900
	LEAD		1000	341	288	939	3450	215	4290	118	460	450	520	15.6	174	267	527	230	670	485	3050	216	305	163
	MAGNESIUM		10000	1930	2280	1640	3910	3380	2020	2850	2560	2310	4880	4060	4440	4020	3680	3430	3530	3550	1480	680	2190	1950
	MANGANESE	-		377	587	427	396	315	689	381	633	562	501	485	622	399	428	537	593	599	640	630	613	491
	NICKEL		310	18.7	26.4	25	24.8	20.2	31.9	20.8	21.8	28.4	37.6	23.5	26.2	19.3	21.8	21.5	26.7	26.7	42	46.6	34.1	42.8
	POTASSIUM	-		1390	1850	1580	1780	2180	1030	1440	1710	1810	2160	2260	2190	1860	1160	1970	2270	2340	1160	650	1300	1430
	SELENIUM		1500	0.98	0.76	1.7	1	0.66		0.93	1.2	1.2	0.63						1.3	0.88	1	0.91	1.2	
	SILVER		1500													0.23	0.26		0.36					0.41
	SODIUM	-		68.9	63.1	80.6	62.6	51.3	37.3	37	57.1	73.8	44.8	35.1	36.8	58	62.9	36.8	58.2	46.9	66.5	96.3	69.5	76.1
	THALLIUM	-		0.9			0.57				5.9													
	VANADIUM	-		21.8	25.9	24.1	25.5	23.3	23.7	19	21.5	24.7	23.8	21.5	23.3	20.1	18.4	20.1	25.2	26.5	21.4	24.2	20.9	21.4
	ZINC		10000	291	221	151	196	143	120	139	1190	176	128	64.1	102	97.1	94.6	99	270	299	668	98.4	108	92.7
	MERCURY		2.8	0.27	0.33	0.36	0.18	0.18	0.16	0.17	0.18	0.2	0.18	0.025	0.063	0.42	0.73	0.32	0.57	0.29	5.1	0.22	0.5	0.22
SVOCs	*ACENAPHTHENE*		*500000*			*57*																		
	ACENAPHTHYLENE		*500000*	*280*	*450*	*400*	*1400*		*56*	*41*	*160*	*510*	*1600*		*1300*	*130*	*70*	*49*	*940*	*910*	*440*		*98*	*86*
	ANTHRACENE		*500000*	*180*	*260*	*360*	*850*					*480*	*590*		*590*	*120*	*96*	*67*	*730*	*800*	*430*		*69*	*75*
	BENZO(A)ANTHRACENE		*5600*	*810*	*1000*	*1300*	*3500*	*160*	*150*	*93*	*460*	*1500*	*3100*		*4300*	*540*	*390*	*200*	*3100*	*3100*	*1700*	*260*	*310*	*320*
	BENZO(A)PYRENE		*1000*	*780*	*1000*	*1300*	*3900*	*140*	*160*	*93*	*450*	*1400*	*3100*		*3600*	*580*	*360*	*170*	*3200*	*2800*	*1900*	*250*	*330*	*340*
	BENZO(B)FLUORANTHENE		*5600*	*1400*	*1800*	*2000*	*7300*	*230*	*280*	*160*	*820*	*2000*	*5900*	*31*	*5900*	*850*	*510*	*230*	*4800*	*4400*	*2800*	*410*	*510*	*540*
	BENZO(G,H,I)PERYLENE		*500000*	*490*	*620*	*680*	*1600*	*110*	*85*	*52*	*220*	*520*	*1200*		*1100*	*420*	*260*	*120*	*2100*	*1900*	*1200*	*230*	*250*	*250*
	BENZO(K)FLUORANTHENE		*5600*	*440*	*680*	*860*	*2800*	*120*	*92*	*79*	*260*	*1100*	*2100*		*2300*	*350*	*230*	*110*	*1800*	*1500*	*1200*	*150*	*180*	*180*
	CHRYSENE		*56000*	*1100*	*1300*	*1700*	*4500*	*200*	*230*	*140*	*580*	*1800*	*3800*		*4400*	*710*	*510*	*210*	*3600*	*3200*	*2000*	*390*	*400*	*440*
	DIBENZ(A,H)ANTHRACENE		*560*												*520*	*150*	*98*	*45*	*770*	*720*	*460*		*92*	*88*
	DIBENZOFURAN		*350000*	*48*	*63*	*75*						*120*				*31*	*25*						*25*	*29*
	FLUORANTHENE		*500000*	*2100*	*2200*	*3500*	*7700*	*330*	*310*	*160*	*1000*	*3700*	*6700*	*37*	*8000*	*1100*	*820*	*410*	*6300*	*7400*	*3100*	*450*	*560*	*640*
	FLUORENE		*500000*	*32*	*70*	*92*	*220*					*240*				*38*	*27*	*25*						
	NAPHTHALENE		*500000*	*65*	*82*	*84*	*290*									*31*	*26*						*32*	*38*
	PENTACHLOROPHENOL		*6700*																					
	PHENANTHRENE		*500000*	*500*	*890*	*1300*	*1600*	*150*	*160*	*61*	*390*	*2000*	*1600*		*580*	*570*	*460*	*280*	*2000*	*3200*	*1400*	*260*	*240*	*340*
	PHENOL		*500*																					
	PYRENE		*500000*	*1400*	*1800*	*2500*	*6000*	*270*	*250*	*150*	*750*	*2600*	*4900*	*29*	*6000*	*1000*	*680*	*320*	*5500*	*5600*	*2700*	*410*	*520*	*550*
	Total PAH		*500000*	*10139*	*12932*	*16996*	*43890*	*1830*	*1858*	*1084*	*5330*	*18670*	*36230*	*97*	*39890*	*7017*	*4804*	*2360*	*36900*	*37670*	*20630*	*2980*	*3845*	*4141*
	Sample Depth (ft)			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Italicized indicates parts per billion. Otherwise parts per million.

Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures

PAH only failures

PAH exceedance of 500 ppm

Metal and PAH failures

Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Floor Samples

	Sample Name		Commercial Standard	F2163	F2164	F2165	F2166	F2167	F2168	F2169	F2170	F2171	F2172	F2173	F2174	F2175	F2176	F2177	F2178	F2179	F2180	F2181	F2182	F2183
Metals	ALUMINUM	-		5720	11900	8150	6200	12900	9960	11300	11500	11200	8620	7880	10100	15400	11100	13300	12500	10500	12300	587	746	12000
	ANTIMONY	-				12.5			5	2.7	1.8	1.8	5.2	3.4	2.2	1.9	2.8	3.6	2	2.2				
	ARSENIC		16	19.5	31.3	13.2	19.7	11	12.2	21.5	12.2	6.7	30.6	30.8	12.8	13.8	18.6	17.6	15.5	13.7	15.9	9.6	9.7	15.1
	BARIUM		400	78.1	90.5	257	133	86.2	67.3	91.8	90.8	49.6	143	78.2	95.2	107	103	120	119	122	138	25.1	25.5	370
	BERYLLIUM		590	0.57	0.68	0.53	1.1	0.64	0.6	0.72	0.67	0.56	0.7	0.6	0.67	0.97	0.71	0.85	0.73	0.64	0.75	0.032	0.041	0.68
	CADMIUM		9.3	0.2	0.098	1.5				0.18			0.7	0.28	0.067	0.33	0.13	1.2	0.15	0.26	0.16			0.29
	CALCIUM	-		37400	15100	13700	3060	2310	6000	3480	2330	6270	17800	6670	6850	19200	13500	21300	17100	32300	13000	375	398	17700
	CHROMIUM, TOTAL	-		20.2	47.1	36.2	20.4	18.2	15.5	21.1	16.3	18	33.7	19.6	15	21.4	18.6	22.3	18.6	16.2	19.4	56.6	61.2	23.5
	COBALT	-		9.3	15.2	8.1	7.6	10.6	9.1	10.5	10.6	8.8	10.4	8.6	9.3	10.3	10.1	10.1	9.3	8.5	11.3	20.3	26.2	11.9
	COPPER		270	344	149	1800	30.5	33.5	27.2	47.1	23.5	19.6	914	275	73	611	116	177	44.1	54.8	64.4	82.2	87.8	96.2
	IRON	-		38600	35700	32100	45900	31100	61500	35200	28700	27500	40800	30200	25100	29400	29600	29000	25300	24000	31100	360000	434000	32700
	LEAD		1000	413	841	2880	26.4	45.3	29.6	159	25.6	17.7	691	417	115	167	374	350	119	257	394	65.7	77.6	174
	MAGNESIUM		10000	3410	3920	2590	461	4390	3610	3840	3970	5380	3920	3080	3210	6250	4520	4880	5010	6230	5900	136	159	4700
	MANGANESE	-		368	645	598	44.1	551	592	603	750	233	486	446	531	425	605	409	545	572	850	1970	2350	703
	NICKEL		310	26.9	37.7	57.1	18.6	23.3	23.2	25.8	24	22.7	26.2	21.8	20.6	27	24.3	24.2	22	20.2	25.6	101	108	25.6
	POTASSIUM	-		1330	2380	1450	438	2400	2170	2390	2210	2170	1900	1680	2300	3010	2390	2670	3090	2510	2540	118	135	3420
	SELENIUM		1500				1.2			0.46	0.53		1.5	1.1	0.77	0.86	0.91	1.1	0.87	0.73				
	SILVER		1500	0.23		0.51																	2.4	
	SODIUM	-		77.3	59.2	204	68.4	35.7	47.3	47.8	43.6	41	71.1	45.1	63.7	161	138	394	71	79.2	105	15.7	15.8	130
	THALLIUM	-											1.7	0.51		1.5		2.3						
	VANADIUM	-		18.4	24.1	29.9	35.6	24.5	23.5	28.3	23.9	24.1	24.2	19.8	23.5	26.3	25.6	30.2	25.8	23.4	25.1	34.3	38.7	34.8
	ZINC		10000	205	134	1200	23.1	89.9	73.6	144	91.7	68.3	438	190	85.5	419	143	541	94.7	107	109	17.5	19.2	326
	MERCURY		2.8	0.27	0.22	0.5	0.13	0.053	0.034	0.17	0.053	0.079	0.22	0.14	0.22	0.083	0.21	0.31	0.19	0.21	0.093	0.023	0.019	0.064
SVOCs	*ACENAPHTHENE*		*500000*									*30*	*440*		*220*	*2900*	*290*	*6100*						
	ACENAPHTHYLENE		*500000*					*130*		*650*			*4900*	*1400*		*190*	*200*	*2700*	*160*	*220*	*71*			
	ANTHRACENE		*500000*					*90*				*73*	*3700*	*1200*	*930*	*7500*	*780*	*18000*			*110*			
	BENZO(A)ANTHRACENE		*5600*	*1200*	*2000*	*3000*		*520*	*420*	*1700*	*22*	*470*	*16000*	*5200*	*2200*	*13000*	*1500*	*31000*	*400*	*580*	*510*		*43*	
	BENZO(A)PYRENE		*1000*		*1900*	*2800*		*520*	*500*	*2100*		*480*	*15000*	*5000*	*2000*	*12000*	*1400*	*26000*	*410*	*590*	*530*			
	BENZO(B)FLUORANTHENE		*5600*	*1700*	*2700*	*4000*		*800*	*630*	*2900*	*30*	*640*	*21000*	*8100*	*2600*	*15000*	*2100*	*35000*	*640*	*890*	*690*	*53*		
	BENZO(G,H,I)PERYLENE		*500000*	*1100*	*1400*	*2000*		*360*	*390*	*1600*	*25*	*320*	*9200*	*3600*	*690*	*3400*	*460*	*8000*	*240*	*370*	*380*	*54*	*53*	
	BENZO(K)FLUORANTHENE		*5600*			*1300*		*390*	*270*	*1200*		*290*	*12000*	*3800*	*1100*	*8000*	*750*	*20000*	*290*	*270*	*330*			
	CHRYSENE		*56000*		*2200*	*3000*		*570*	*490*	*2200*		*520*	*16000*	*5700*	*2200*	*13000*	*1600*	*30000*	*480*	*690*	*560*	*66*	*66*	
	DIBENZ(A,H)ANTHRACENE		*560*							*540*		*110*	*3500*	*1200*		*1300*								
	DIBENZOFURAN		*350000*										*420*	*220*	*250*	*2600*	*280*	*7500*			*37*			
	FLUORANTHENE		*500000*	*2200*	*3800*	*5100*		*830*	*650*	*3600*	*35*	*790*	*27000*	*10000*	*4500*	*33000*	*3600*	*72000*	*910*	*1300*	*750*	*39*	*35*	
	FLUORENE		*500000*										*700*	*300*	*330*	*2900*	*340*	*9900*			*39*			
	NAPHTHALENE		*500000*										*440*			*3000*	*300*	*9900*			*56*			
	PENTACHLOROPHENOL		*6700*																					
	PHENANTHRENE		*500000*			*1900*		*220*	*250*	*1400*		*270*	*8900*	*4000*	*3400*	*35000*	*3200*	*68000*	*480*	*540*	*460*	*46*	*40*	
	PHENOL		*500*																					
	PYRENE		*500000*	*1900*	*3200*	*4300*		*880*	*700*	*3300*	*34*	*650*	*23000*	*9300*	*3700*	*26000*	*2800*	*45000*	*660*	*920*	*820*	*67*	*52*	
	Total PAH		*500000*	*8100*	*18500*	*29300*	*0*	*5673*	*4300*	*22820*	*146*	*4941*	*171440*	*62530*	*24780*	*181090*	*19940*	*393300*	*4900*	*6690*	*5711*	*364*	*326*	*0*
	Sample Depth (ft)			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Italicized indicates parts per billion. Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Floor Samples

	Sample Name	Commercial Standard	F2184	F2185	F2186	F2187	F2188	F2189	F2190	F2191	F2192	F2193	F2194	F2195	F2196	F2197	F2198	F2199	F2200	F2201	F2202	F2203	F2204
Metals	ALUMINUM	-	5180	6820	7290	7560	11100	8350	12300	12000	9590	5230	9930	9820	11600	10700	10300	13300	14100	10800	9410	12700	12200
	ANTIMONY	-														2.2							
	ARSENIC	16	21.6	12.8	9.4	37.5	36.3	22	20.5	19.6	44.9	30	72.7	27.2	18.6	24.1	25.5	17.2	21.1	14	13.8	13.2	13.9
	BARIUM	400	164	154	75.4	144	120	105	68.7	109	151	57.4	116	131	100	166	145	107	113	89.8	88.5	87.6	88.6
	BERYLLIUM	590	0.47	0.46	0.48	0.6	0.55	0.5	0.7	0.64	0.94	0.32	0.54	0.62	0.64	0.75	1	0.81	0.91	0.68	1	0.67	0.76
	CADMIUM	9.3		0.81	0.052	0.76	0.19	0.048						0.54	0.3	0.32	0.41	0.092	0.16	0.045			
	CALCIUM	-	53600	69100	34400	16200	20700	39600	4000	2540	6800	8140	5670	5140	7340	4610	5470	2370	2950	6390	4400	5700	3860
	CHROMIUM, TOTAL	-	18.9	20.2	14.1	36.7	28.4	16	19.2	19.3	22.1	29	47.3	21.8	22.6	18.3	18.4	19.7	26.2	16.8	14.1	18.7	17.5
	COBALT	-	7.8	6.2	6.8	10.8	11.7	8.2	11.5	10.3	13.1	13	14	10.2	10.4	11.5	11.3	12.9	13.6	9.8	8.9	10.2	11.3
	COPPER	270	90.2	74.7	39.5	170	92.2	82.1	38.3	44.1	506	339	97.4	73.8	71.9	189	216	66.3	90	68.8	69.7	42.5	74.3
	IRON	-	63700	27000	26200	82600	56400	36200	30400	37500	74500	200000	74500	51300	46200	27300	28900	32100	31200	23700	23200	27100	29300
	LEAD	1000	382	772	269	409	152	113	52.1	78.5	430	265	301	295	269	693	367	123	214	107	106	90.9	85.5
	MAGNESIUM	10000	2860	7140	4710	2530	4050	3710	4480	4490	2800	1230	3510	3600	4760	3340	2690	4230	4030	3150	1820	4220	3910
	MANGANESE	-	422	489	405	765	758	507	316	713	710	1560	849	889	731	419	404	634	700	403	266	458	478
	NICKEL	310	28.7	18.5	18.1	28.3	40.8	19.1	25.6	23.5	33	22.5	40.2	26.8	28.1	22.8	26.9	28.6	29.2	22.1	17.6	24.7	29.2
	POTASSIUM	-	2850	1800	1660	1510	1720	1930	2730	2420	1780	1020	1760	2170	2540	2180	1780	2600	2940	2250	1570	2490	2660
	SELENIUM	1500				1.1					1.4					1.2	1.2				1.9		
	SILVER	1500	0.28			0.55	0.23				0.61	1.1											
	SODIUM	-	173	161	76.9	82.2	54.7	61.2	48.2	39.8	158	99.3	67.9	77.8	75.1	58.8	76.7	41	64.3	178	102	78.5	69.2
	THALLIUM	-																					
	VANADIUM	-	22.3	19.6	16.7	23.9	21.1	18.8	25.3	23.9	28.9	26.5	25.9	24.4	27	24.1	25	27.2	30.6	26.4	25.2	27.8	25
	ZINC	10000	125	220	67.1	304	155	102	85.4	126	117	95.8	195	245	209	163	225	140	220	80.1	59.4	92.5	82.7
	MERCURY	2.8	0.13	0.11	0.065	0.26	0.12	0.14	0.048	0.16	0.61	0.13	0.13	0.21	0.18	0.83	0.26	0.092	0.11	0.074	0.095	0.081	0.1
SVOCs	*ACENAPHTHENE*	*500000*			*76*										*430*	*1500*	*720*	*400*	*620*	*170*	*420*	*550*	
	ACENAPHTHYLENE	*500000*			*87*	*420*	*130*	*74*	*42*				*440*	*640*	*710*	*370*	*450*	*180*	*290*	*28*	*28*	*630*	
	ANTHRACENE	*500000*			*190*		*95*	*60*			*61*		*450*	*480*	*1300*	*4100*	*2100*	*1300*	*1700*	*470*	*940*	*1700*	*54*
	BENZO(A)ANTHRACENE	*5600*		*3100*	*640*	*1800*	*420*	*270*	*110*	*150*	*200*	*150*	*2000*	*1700*	*3100*	*7900*	*4400*	*2700*	*3800*	*1200*	*1900*	*5200*	*290*
	BENZO(A)PYRENE	*1000*		*2700*	*620*	*1800*	*470*	*320*	*130*	*140*	*180*	*120*	*2000*	*1900*	*3100*	*6600*	*3800*	*2300*	*3600*	*1100*	*1700*	*4700*	*280*
	BENZO(B)FLUORANTHENE	*5600*		*3500*	*750*	*2100*	*570*	*410*	*180*	*210*	*230*	*160*	*2200*	*2300*	*3600*	*7500*	*4100*	*2700*	*4400*	*1300*	*1800*	*5400*	*370*
	BENZO(G,H,I)PERYLENE	*500000*	*500*	*2800*	*340*	*1200*	*260*	*200*	*89*	*98*	*150*	*78*	*800*	*880*	*1300*	*2200*	*1400*	*770*	*1900*	*730*	*1100*	*2800*	*220*
	BENZO(K)FLUORANTHENE	*5600*			*280*	*1100*	*220*	*190*	*83*	*62*	*120*		*1300*	*820*	*1800*	*3600*	*2400*	*1400*	*1900*	*590*	*1000*	*2300*	*140*
	CHRYSENE	*56000*		*3000*	*610*	*2100*	*460*	*360*	*160*	*170*	*250*	*200*	*1900*	*1800*	*3600*	*7000*	*3900*	*2700*	*4100*	*1200*	*1900*	*5000*	*320*
	DIBENZ(A,H)ANTHRACENE	*560*			*120*														*660*				
	DIBENZOFURAN	*350000*			*59*										*300*	*1600*	*780*	*350*	*510*	*160*	*300*	*470*	
	FLUORANTHENE	*500000*		*4600*	*1100*	*4100*	*780*	*480*	*240*	*250*	*370*	*220*	*3800*	*3400*	*7300*	*16000*	*9400*	*5800*	*10000*	*2400*	*4300*	*9500*	*400*
	FLUORENE	*500000*			*93*		*31*							*140*	*530*	*2000*	*1100*	*550*	*710*	*190*	*420*	*700*	
	NAPHTHALENE	*500000*													*350*	*2000*	*770*	*250*	*440*	*160*	*180*	*280*	
	PENTACHLOROPHENOL	*6700*																					
	PHENANTHRENE	*500000*		*1800*	*950*	*2500*	*420*	*230*	*130*	*110*	*320*	*150*	*1800*	*2000*	*5800*	*15000*	*9100*	*5900*	*7600*	*2300*	*4300*	*7400*	*260*
	PHENOL	*500*																					
	PYRENE	*500000*		*4300*	*1100*	*3700*	*750*	*480*	*220*	*260*	*360*	*200*	*2900*	*3100*	*6100*	*12000*	*7200*	*4700*	*6900*	*2200*	*3700*	*9100*	*420*
	Total PAH	*500000*	*1050*	*28500*	*7299*	*22020*	*4905*	*3317*	*1480*	*1550*	*2399*	*1351*	*20770*	*20240*	*40490*	*90870*	*52720*	*32740*	*50720*	*14768*	*24688*	*57940*	*2954*
	Sample Depth (ft)		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Italicized indicates parts per billion. Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Floor Samples

	Sample Name	Commercial Standard	F2205	F2206	F2207	F2208	F2209	F2210	F2211	F2211B	F2212	F2213	F2214	F2215	F2216	F2217	F2218	F2219	F2220	F2221	F2222	F2223	F2224
Metals	ALUMINUM	-	11600	9000	5110	13800	7370	10000	8860		6580	7280	6530	6910	6140	5580	6100	3900	4760	8780	6040	7060	7540
	ANTIMONY	-							1.3		4.2	2.8	6.4	4.1	4.1	4.4	7.3	4.8	9.3	2.6	4.2		7.5
	ARSENIC	16	14.3	22.2	28.1	13.6	13.9	46.1	11.2		19.4	14.7	14.8	12.9	13.7	33.7	33.5	24.3	32.3	26.1	40.2	41.5	31.7
	BARIUM	400	131	68.5	99.5	105	90.5	127	61.1		113	145	85.6	70	67	102	181	65.1	141	106	170	104	1410
	BERYLLIUM	590	0.77	0.56	0.69	0.74	0.55	0.74	0.52		0.65	0.59	0.45	0.58	0.43	0.7	0.82	0.52	1	0.48	0.59	0.83	0.68
	CADMIUM	9.3		0.078	0.91	0.057	0.1	0.39	0.21		1.1	7.8	0.21	0.22	0.32	0.15	0.41	0.18	2.4	0.099	0.094		1.2
	CALCIUM	-	5960	2220	4260	3810	7900	21000	55700		16500	24700	59400	40500	66000	15000	5370	19300	3150	1980	8570	3250	32500
	CHROMIUM, TOTAL	-	35.6	16.8	16.5	20.9	17.2	36.3	19		16.9	17.3	48.4	31.5	22.4	14.2	24.7	9.9	13.9	12.6	11.2	17.6	15.5
	COBALT	-	11	7.5	7.2	12.7	8.5	10.2	7.7		8.7	8.4	8.6	8	7.1	8.9	14.5	8.1	18.4	11.6	10.1	15.8	11.9
	COPPER	270	292	76.7	217	62.8	97.2	194	58.9		111	93.2	150	99	88.8	96.9	208	104	179	41.5	74.3	229	254
	IRON	-	57000	25800	20100	34200	29900	43500	22100		33700	29500	54800	35900	33700	41400	82000	41200	105000	32800	43600	95900	64900
	LEAD	1000	105	185	326	102	406	14300	9450		548	391	1460	1300	1810	181	279	172	216	48.6	120	398	317
	MAGNESIUM	10000	4170	2940	1220	4730	2620	5470	12600		3300	3620	5340	4650	4450	7500	2260	9730	753	2390	1950	1190	2820
	MANGANESE	-	634	392	252	623	368	548	364		466	616	670	558	561	500	638	376	283	802	443	501	414
	NICKEL	310	37.5	19	16	30.2	22.4	47.3	24.4		24.7	24.8	45.1	35.4	27.4	18.9	32.1	16.7	29.3	18.1	18.5	30.4	22.8
	POTASSIUM	-	2330	1890	789	2900	1720	1800	2460		1320	1170	1440	1540	1490	1280	1080	927	712	1450	1250	884	1210
	SELENIUM	1500	0.54					0.67			0.75	0.84			0.51	3	3.5	2	3.5	2	3.3	4.4	2.6
	SILVER	1500						0.72	0.35														
	SODIUM	-	335	43.9	91.8	96.1	114	180	123		106	79.9	103	101	88.5	85.3	91.3	70.1	124	66	127	122	422
	THALLIUM	-										2					0.55						2.9
	VANADIUM	-	25	21.1	18.7	27.4	20.5	29.3	20.9		20.3	17.6	17.7	17.2	16.1	16.7	18	15	19.8	21.1	21.8	24.7	28.9
	ZINC	10000	190	126	239	115	173	354	99.9		187	465	145	120	120	107	224	98.1	256	117	127	144	686
	MERCURY	2.8	0.056	0.12	0.2	0.06	0.13	0.17	0.083		0.55	0.44	0.26	0.14	0.27	0.24	0.39	0.21	0.21	0.23	0.19	0.31	0.81
SVOCs	*ACENAPHTHENE*	*500000*	*220*	*2000*	*2200*	*38*		*700*	*350*	*310*				*320*		*340*			*880*		*620*	*140*	*340*
	ACENAPHTHYLENE	*500000*	*84*	*1500*	*1400*	*30*	*770*		*310*	*310*	*190*		*330*	*720*	*320*	*2600*	*990*	*3700*		*250*	*820*	*370*	*650*
	ANTHRACENE	*500000*	*650*	*5400*	*6300*	*100*		*1800*	*940*	*950*	*290*		*410*	*1200*		*1900*	*640*	*2100*	*1700*	*480*	*2300*	*680*	*1400*
	BENZO(A)ANTHRACENE	*5600*	*1800*	*16000*	*14000*	*290*	*3100*	*5300*	*2800*	*2600*	*1600*	*550*	*1800*	*3900*	*1100*	*10000*	*3600*	*12000*	*5700*	*1800*	*8600*	*2700*	*4800*
	BENZO(A)PYRENE	*1000*	*1600*	*15000*	*12000*	*260*	*3200*	*5200*	*2700*	*2600*	*1500*	*510*	*1900*	*4100*	*1300*	*9400*	*3300*	*10000*	*4500*	*1400*	*6500*	*2600*	*4700*
	BENZO(B)FLUORANTHENE	*5600*	*1800*	*17000*	*14000*	*320*	*4400*	*5800*	*3300*	*3300*	*2100*	*810*	*2500*	*5200*	*1700*	*15000*	*5800*	*15000*	*6900*	*2000*	*9300*	*3600*	*6300*
	BENZO(G,H,I)PERYLENE	*500000*	*1000*	*9100*	*7900*	*190*	*2300*	*3400*	*1200*	*2000*	*1100*	*490*	*1200*	*2700*	*970*	*6300*	*2500*	*6200*	*3000*	*810*	*4100*	*1900*	*3100*
	BENZO(K)FLUORANTHENE	*5600*	*960*	*7200*	*6000*	*140*	*1800*	*2400*	*1100*	*1600*	*1000*	*350*	*1200*	*2300*	*860*	*5800*	*2100*	*8700*	*3000*	*1000*	*4400*	*1700*	*2800*
	CHRYSENE	*56000*	*1800*	*16000*	*14000*	*300*	*3300*	*5300*	*2900*	*3100*	*1900*	*640*	*2000*	*3900*	*1300*	*11000*	*4100*	*12000*	*7600*	*2000*	*9000*	*3500*	*5700*
	DIBENZ(A,H)ANTHRACENE	*560*								*630*											*1600*	*720*	
	DIBENZOFURAN	*350000*	*140*	*1300*		*30*			*260*	*240*				*400*		*320*			*560*	*110*	*560*	*180*	*250*
	FLUORANTHENE	*500000*	*3600*	*30000*	*27000*	*520*	*5900*	*11000*	*5900*	*6300*	*2900*	*960*	*3100*	*7300*	*2000*	*16000*	*5900*	*21000*	*11000*	*3200*	*17000*	*4700*	*9200*
	FLUORENE	*500000*	*210*	*2300*	*2700*	*33*		*600*	*320*	*330*			*120*	*510*		*520*	*130*		*900*	*150*	*800*	*180*	*460*
	NAPHTHALENE	*500000*	*110*	*730*					*190*	*190*				*490*						*150*	*800*	*240*	*350*
	PENTACHLOROPHENOL	*6700*																					
	PHENANTHRENE	*500000*	*2900*	*28000*	*28000*	*460*	*4000*	*8600*	*4600*	*4400*	*1500*	*440*	*1700*	*5000*	*710*	*4600*	*1500*	*4200*	*9300*	*1900*	*12000*	*3200*	*6200*
	PHENOL	*500*																					
	PYRENE	*500000*	*3400*	*30000*	*26000*	*490*	*4600*	*10000*	*4800*	*5200*	*2700*	*830*	*2900*	*6400*	*2000*	*17000*	*6300*	*23000*	*8800*	*2900*	*15000*	*4600*	*8800*
	Total PAH	*500000*	*21184*	*188430*	*167800*	*3358*	*36280*	*63080*	*32920*	*35700*	*17910*	*6040*	*20420*	*46870*	*13280*	*107280*	*39620*	*125370*	*66600*	*19110*	*97030*	*32570*	*57980*
	Sample Depth (ft)		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Italicized indicates parts per billion. Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Floor Samples

	Sample Name	Commercial Standard	F2225	F2226	F2227	F2228	F2229	F2230	F2231	F2232	F2233	F2234	F2235	F2236	F2237	F2238	F2238R1	F2239	F2240	F2241	F2241R1	F2242	F2242B
Metals	ALUMINUM	-	4960	7540	8290	7220	1570	1880	2120	8610	9700	10200	10000	9580	6260	6730	11200	8010	8200	7380	14800	8640	
	ANTIMONY	-		6.4	5.7	8.1	4.7	7.3	8	3.8	5.1	2.3	3.5	3.1	5.4	10.6	2.3	4.9	4.1	14.6	2.3	6.9	
	ARSENIC	16	63.6	22.5	21.9	27.5	81	243	332	20.3	20.9	15.6	18.3	17.5	21.9	18.9	21.7	13.6	19.2	30.8	33	29.2	
	BARIUM	400	91.7	104	79.1	106	105	115	114	116	188	70	87.1	102	273	154	80.5	135	266	233	143	302	
	BERYLLIUM	590	0.54	0.73	0.61	0.67	0.67	0.48	0.41	0.46	0.76	0.55	0.58	0.58	0.69	0.61	0.6	0.49	0.56	0.56	0.72	0.73	
	CADMIUM	9.3	5	0.41	0.45	0.17					0.41	0.78	3.3	2.8	18.1	0.41	0.12	0.39	0.3	0.42	0.19	0.62	
	CALCIUM	-	3610	8230	6430	3770	1950	2380	3390	5780	10400	35200	14000	26400	5880	18200	3560	19700	8720	8820	2290	13300	
	CHROMIUM, TOTAL	-	19.2	15.4	13.4	16.6	7.9	7.1	6.8	13.2	15.4	13.7	20.3	14.8	11.8	20.9	16	17.8	15.8	22.9	19.1	19.6	
	COBALT	-	17.5	9.8	10.8	12.4	5.7	5.9	8.2	7.7	9.4	8.2	7.9	7.4	7.9	8.3	10	7.4	8.2	10.2	17.9	10.3	
	COPPER	270	614	141	203	206	44.3	62.7	96.7	92.1	190	60.7	107	82.8	660	106	61	93.6	153	162	107	199	
	IRON	-	185000	53500	43300	80000	45500	71800	82700	38700	39200	25600	35300	30400	50400	51000	24600	27300	29200	69400	32200	37600	
	LEAD	1000	278	202	255	214	161	264	304	120	158	69.5	265	181	291	535	93.6	622	501	519	134	639	
	MAGNESIUM	10000	689	3220	2720	1660	395	354	433	2640	2840	3970	4980	5090	1650	2450	3530	4610	2960	3300	4330	4590	
	MANGANESE	-	557	546	621	718	51.4	57.2	73.9	521	942	675	582	571	543	773	777	484	673	589	1330	618	
	NICKEL	310	31.5	23.6	22.5	27.6	12.6	13.8	15.2	14.4	21.6	18.4	21.7	18	18.6	20.5	22.4	18.8	19.1	31.4	29.2	25	
	POTASSIUM	-	649	1260	1370	1120	652	552	1290	1330	1560	2350	2150	2230	1070	1360	2200	1920	1690	1510	2740	1880	
	SELENIUM	1500	4	1.7	1.4	2.1	8.1	17.7	17.6	1.4	1.1		0.73	0.51	1.1	1	0.72	0.5	0.53	0.92		1.1	
	SILVER	1500													0.53				0.99				
	SODIUM	-	120	102	65.2	86.8	117	64.3	190	78.5	86.2	80.7	105	176	276	71.8	46.7	106	57.2	70.7	40.2	85	
	THALLIUM	-							1		0.49		2	1.9	5.7	0.66		0.49		0.56		1.1	
	VANADIUM	-	27.1	22.5	21.6	22.6	17.1	27.6	23.6	23.3	24.8	20.6	23.7	29.2	17.7	22.3	24.8	21	21	34.3	28.8	24.2	
	ZINC	10000	382	149	171	202	50.6	65.5	45.9	99.4	235	141	487	456	1110	294	182	190	186	296	239	303	
	MERCURY	2.8	0.39	0.41	0.48	1	0.61	0.45	0.25	0.28	0.2	0.15	0.7	0.26	0.37	0.25	0.075	0.19	0.21	0.26	0.18	0.37	
SVOCs	*ACENAPHTHENE*	*500000*	*1200*		*44*					*190*					*2900*	*20000*	*3000*	*3300*	*2100*	*2200*	*45*	*15000*	*16000*
	ACENAPHTHYLENE	*500000*	*850*	*2900*	*320*	*460*	*180*	*670*	*460*	*200*	*400*	*310*	*270*	*320*		*4900*	*400*	*730*	*2500*	*1800*	*83*	*2400*	*2100*
	ANTHRACENE	*500000*	*3200*	*1800*	*220*	*440*	*390*	*740*	*480*	*500*	*510*	*490*	*630*	*810*	*7100*	*51000*	*6400*	*7700*	*9200*	*8400*	*230*	*35000*	*37000*
	BENZO(A)ANTHRACENE	*5600*	*10000*	*11000*	*930*	*2200*	*1300*	*3400*	*2100*	*1900*	*2500*	*2200*	*3000*	*3300*	*15000*	*95000*	*12000*	*15000*	*23000*	*24000*	*860*	*65000*	*66000*
	BENZO(A)PYRENE	*1000*	*9100*	*9200*	*820*	*2000*	*1100*	*3300*	*2000*	*2000*	*2600*	*2400*	*3100*	*3200*	*13000*	*84000*	*9000*	*14000*	*20000*	*23000*	*740*	*55000*	*60000*
	BENZO(B)FLUORANTHENE	*5600*	*11000*	*16000*	*1200*	*2700*	*2100*	*4500*	*3100*	*2200*	*3800*	*3200*	*4100*	*3900*	*14000*	*88000*	*9400*	*16000*	*24000*	*27000*	*980*	*65000*	*71000*
	BENZO(G,H,I)PERYLENE	*500000*	*4300*	*5600*	*480*	*1200*	*550*	*2200*	*1400*	*1200*	*1400*	*1400*	*1900*	*2100*	*8100*	*42000*	*5600*	*7300*	*12000*	*14000*	*620*	*29000*	*34000*
	BENZO(K)FLUORANTHENE	*5600*	*4700*	*5600*	*630*	*1600*		*2400*	*940*	*1200*	*1100*	*1200*	*1400*	*1800*	*6500*	*43000*	*5200*	*6800*	*11000*	*12000*	*410*	*28000*	*35000*
	CHRYSENE	*56000*	*12000*	*11000*	*1100*	*2600*	*2300*	*5300*	*3700*	*2500*	*3100*	*2500*	*3600*	*3700*	*15000*	*90000*	*11000*	*14000*	*23000*	*24000*	*920*	*59000*	*63000*
	DIBENZ(A,H)ANTHRACENE	*560*		*910*								*480*	*680*							*4700*	*180*		
	DIBENZOFURAN	*350000*	*540*		*76*		*140*	*370*	*180*	*190*					*2000*	*16000*	*1800*	*2600*	*2700*	*2600*	*51*	*17000*	*18000*
	FLUORANTHENE	*500000*	*20000*	*17000*	*1700*	*4000*	*2400*	*7500*	*3500*	*4000*	*4900*	*4400*	*5500*	*6100*	*31000*	*210000*	*21000*	*33000*	*55000*	*57000*	*1500*	*160000*	*180000*
	FLUORENE	*500000*	*1400*	*260*	*52*			*360*	*140*	*210*		*140*		*230*	*3200*	*23000*	*2900*	*3100*	*2800*	*2600*	*66*	*17000*	*18000*
	NAPHTHALENE	*500000*	*1100*		*93*			*280*	*230*						*1200*	*15000*	*4000*	*1900*	*3400*	*2100*	*41*	*15000*	*16000*
	PENTACHLOROPHENOL	*6700*																					
	PHENANTHRENE	*500000*	*17000*	*2200*	*760*	*1500*	*1900*	*5500*	*2600*	*3300*	*2700*	*2200*	*2900*	*3700*	*29000*	*210000*	*21000*	*30000*	*31000*	*37000*	*990*	*160000*	*190000*
	PHENOL	*500*																					
	PYRENE	*500000*	*20000*	*18000*	*1600*	*3800*	*1900*	*6100*	*3200*	*3900*	*4600*	*3900*	*5200*	*5900*	*29000*	*190000*	*19000*	*27000*	*48000*	*46000*	*1500*	*130000*	*130000*
	Total PAH	*500000*	*119950*	*108030*	*10545*	*24010*	*14850*	*45020*	*25310*	*24440*	*29410*	*26380*	*34300*	*36980*	*181700*	*1204900*	*134900*	*186330*	*279500*	*301000*	*9810*	*872400*	*956100*
	Sample Depth (ft)		1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	2	1	1

Italicized indicates parts per billion. Otherwise parts per million.

Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures

PAH only failures

PAH exceedance of 500 ppm

Metal and PAH failures

Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Floor Samples

	Sample Name	Commercial Standard	F2242R1	F2243	F2244	F2245	F2246	F2246B	F2247	F2248	F2249	F2250	F2251	F2252	F2253	F2254	F2255	F2256	F2257	F2258	F2259	F2259R1	F2260
Metals	ALUMINUM	-	12800	10200	9970	4870	8270		9570	4000	8320	9310	12600	20400	11600	13700	8970	7400	11100	12900	8270	11700	10500
	ANTIMONY	-	23.7	3.2	4.1	16.2	5.6		4.7		6.5	8.2	2.6	3	2.5	2.1	2.8	4.4		2.7	4.9	2.1	52.3
	ARSENIC	16	18.8	10.4	13.1	16.5	17.3		13.6	14.5	14.2	15.4	12.8	35.5	17.8	16.7	14.4	9.9	11.9	11.6	20.5	13.1	15.8
	BARIUM	400	247	94.5	92.6	91.4	81		158	42.8	102	155	111	114	83.8	61.8	80.6	69.7	163	134	238	89.5	108
	BERYLLIUM	590	0.66	0.44	0.53	0.36	0.54		0.58	0.21	0.57	0.54	0.53	0.74	0.6	0.62	0.48	0.66	0.42	0.4	0.87	0.59	0.34
	CADMIUM	9.3	0.51	0.22	0.36		0.4		0.98		0.12	0.24	0.12	0.035	0.065	0.075		0.28	0.14	0.034	9	1.5	
	CALCIUM	-	5400	27400	29200	13100	24000		24800	56600	3180	5380	3360	1270	3190	1390	13400	52900	37700	3870	10100	7870	8610
	CHROMIUM, TOTAL	-	19.3	20.6	17.2	38.8	21.5		18.1	37.4	92.4	16.3	14.5	20.9	14.3	16.1	14.4	17.9	13.8	17.3	16.6	28.1	78.1
	COBALT	-	9.6	6.9	7.3	7.7	7.6		6.8	16.3	6.5	8.8	7.1	10.2	9.1	10.9	7.8	7.2	6.8	6.5	8.5	8.3	8.3
	COPPER	270	176	41.3	80.5	151	119		61.5	153	69.5	66.4	29.9	26.1	49.4	33.6	40	132	23.5	38.6	331	46	229
	IRON	-	29900	27300	27500	99700	39100		35300	269000	39800	43800	25600	40600	31000	29700	34600	28100	26300	28200	49400	25600	130000
	LEAD	1000	536	653	1770	14500	1650		405	1710	1030	287	219	43.3	98.6	18.4	62.7	870	147	123	408	435	36300
	MAGNESIUM	10000	3130	6660	4460	1620	6390		2780	2100	1480	2080	2700	4060	3170	4340	3380	9240	2940	2240	2650	4780	952
	MANGANESE	-	764	951	757	782	592		854	1580	685	1020	1160	1480	1050	956	739	422	1500	1100	819	420	972
	NICKEL	310	22.9	23.7	19.9	34.5	22.9		15.5	19.7	15.6	16.7	16	18.5	19.3	25.2	19.3	21.7	12.8	12.7	27	21.1	57.6
	POTASSIUM	-	2240	1830	1980	721	1820		1720	666	1260	1470	1940	2410	2100	2010	1830	1960	1460	1780	1410	2950	647
	SELENIUM	1500	1.1				0.84				1	0.73		0.8				0.54			1.2		2.4
	SILVER	1500				0.32															0.83		0.38
	SODIUM	-	62.9	83.6	69.7	179	112		92.6	149	85.3	65.8	61.3	48.5	54.9	35.9	58.9	101	79.3	262	430	74.7	134
	THALLIUM	-	1.3				0.81		0.9												4.1		
	VANADIUM	-	25.1	26.8	22.7	14.2	20.3		22.8	14.3	20.9	25.4	26.2	41.8	25.5	25	21.6	20	26	28.3	19.2	22.6	17.8
	ZINC	10000	343	109	127	117	231		283	130	123	160	110	122	96.9	94.8	77.3	99.8	125	101	855	157	192
	MERCURY	2.8	0.19	0.069	0.18	0.18	0.25		0.36	0.25	0.12	0.15	0.074	0.051	0.088	0.045	0.1	0.11	0.35	0.19	2.1	0.098	0.63
SVOCs	*ACENAPHTHENE*	*500000*		*720*			*5600*	*5900*	*1900*	*38*	*2000*									*110*	*6400*		
	ACENAPHTHYLENE	*500000*	*250*	*440*	*210*	*220*	*480*	*580*	*360*	*33*	*850*	*540*		*25*	*48*		*1300*	*350*	*24*	*71*	*6200*		*610*
	ANTHRACENE	*500000*	*400*	*2400*	*300*	*380*	*18000*	*18000*	*5400*	*110*	*7700*	*1400*					*790*			*280*	*21000*	*960*	*1200*
	BENZO(A)ANTHRACENE	*5600*	*1400*	*5300*	*1200*	*1500*	*29000*	*29000*	*12000*	*410*	*28000*	*4500*		*66*	*160*		*5900*	*1500*	*190*	*890*	*76000*	*5000*	*4900*
	BENZO(A)PYRENE	*1000*	*1200*	*4900*	*1200*	*1700*	*13000*	*14000*	*11000*	*370*	*25000*	*4100*		*75*	*170*		*6900*	*1600*	*180*	*890*	*69000*	*5400*	*5000*
	BENZO(B)FLUORANTHENE	*5600*	*1700*	*5100*	*1400*	*2000*	*19000*	*21000*	*14000*	*520*	*31000*	*5100*		*100*	*240*		*8600*	*2400*	*260*	*990*	*77000*	*6100*	*6500*
	BENZO(G,H,I)PERYLENE	*500000*	*1000*	*2200*	*590*	*1100*	*4400*	*2900*	*7400*	*170*	*14000*	*2100*		*49*	*110*		*2500*	*1000*	*130*	*490*	*44000*	*4800*	*3600*
	BENZO(K)FLUORANTHENE	*5600*	*660*	*2800*	*650*	*830*	*11000*	*12000*	*5900*	*200*	*15000*	*2300*		*39*	*91*		*4800*	*950*	*94*	*500*	*39000*	*2800*	*2800*
	CHRYSENE	*56000*	*1600*	*5000*	*1200*	*1700*	*25000*	*25000*	*11000*	*430*	*29000*	*4300*		*90*	*230*		*5600*	*1700*	*200*	*890*	*78000*	*5600*	*5200*
	DIBENZ(A,H)ANTHRACENE	*560*					*1800*		*920*		*6100*	*750*									*18000*		
	DIBENZOFURAN	*350000*		*660*			*2600*	*2600*	*1300*		*1600*	*290*								*55*	*4000*		
	FLUORANTHENE	*500000*	*2800*	*11000*	*2100*	*2900*	*96000*	*100000*	*23000*	*690*	*54000*	*9300*	*330*	*160*	*320*		*8900*	*2300*	*360*	*1700*	*130000*	*7000*	*8300*
	FLUORENE	*500000*		*960*		*130*	*5800*	*5900*	*2000*	*33*	*2200*	*440*								*88*	*7900*	*230*	*290*
	NAPHTHALENE	*500000*		*880*			*450*		*590*		*610*										*4200*		
	PENTACHLOROPHENOL	*6700*																					
	PHENANTHRENE	*500000*	*1700*	*8400*	*1200*	*1700*	*58000*	*60000*	*22000*	*480*	*36000*	*5800*		*100*	*210*		*1900*	*780*	*180*	*1300*	*91000*	*3900*	*3900*
	PHENOL	*500*																					
	PYRENE	*500000*	*2600*	*8400*	*2100*	*2600*	*68000*	*65000*	*21000*	*610*	*49000*	*7100*	*270*	*140*	*330*		*7300*	*2400*	*310*	*1600*	*120000*	*7700*	*7500*
	Total PAH	*500000*	*16470*	*61080*	*12890*	*17980*	*360330*	*362680*	*145370*	*4285*	*315660*	*50330*	*600*	*894*	*2009*	*0*	*56990*	*15890*	*2071*	*10289*	*832900*	*53580*	*53370*
	Sample Depth (ft)		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1

Italicized indicates parts per billion. Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Floor Samples

	Sample Name	Commercial Standard	F2261	F2262	F2263	F2264	F2265	F2266	F2267	F2268	F2269	F2270	F2271	F2272	F2273	F2274	F2275	F2276	F2277	F2278	F2279	F2280	F2281
Metals	ALUMINUM	-	5720	5780	5320	8940	12500	7550	10800	11900	10700	11100	12800	12800	12000	11700	4900	7050	6750	5640	3800	5680	5400
	ANTIMONY	-	41.5	82.9	7.9	6.6	3.2	47.4	1.9	87.5	2.7	3	4.5	6.4	3.9	4.7	5.4	19.6	1.2	5.1	2.9	2.3	4.1
	ARSENIC	16	16.5	17.1	17.8	21.5	17.6	15.6	28.7	15.9	12.4	13.2	25.5	16.3	16	17.1	19.1	21.5	16	92.1	99.1	89.1	19.9
	BARIUM	400	176	90.4	85	180	95.2	85.3	67	143	87.1	82.9	123	93.4	90.2	82.6	164	121	265	127	100	91.4	70.3
	BERYLLIUM	590	0.6	0.46	0.52	0.52	0.72	0.73	0.56	0.62	0.61	0.77	0.74	1.4	0.79	0.84	0.62	0.53	0.64	0.54	0.52	0.53	0.62
	CADMIUM	9.3	0.17	1.4	0.47	0.86	0.16			0.13	0.29	0.15	0.12	0.26	0.29	0.28	2.8	1.5	3.2	0.66		0.05	0.092
	CALCIUM	-	19900	21900	10100	36800	3240	7030	36800	5730	8600	2490	5580	3610	3810	3870	3450	28200	12100	5770	2700	3980	15800
	CHROMIUM, TOTAL	-	24.2	29.3	24	25.1	21.9	16	15.3	21.1	20.5	18	19.1	19.3	21.5	22.7	15.6	12.8	19.4	18.2	12.6	12	11.7
	COBALT	-	6.9	6.8	6.5	7.9	10.6	8.5	8.1	8.8	8.9	10	9.8	11.6	13.1	12	6	6.4	7.3	9	6.9	10.9	9.6
	COPPER	270	360	265	172	139	91.7	238	25.3	256	51.7	45	97.5	126	138	107	193	138	239	229	124	123	163
	IRON	-	54300	73200	32200	29900	27800	32200	23300	26000	28500	29700	31300	30300	32000	41000	26100	25800	36100	63100	50900	44500	33800
	LEAD	1000	47000	71200	4450	4230	490	293	28.2	2000	224	104	1320	471	266	160	239	753	374	419	257	185	245
	MAGNESIUM	10000	1270	929	1780	6340	3950	1940	4450	3380	4900	3240	4190	3640	3340	3100	807	5810	5650	1590	801	1730	3440
	MANGANESE	-	402	498	392	625	612	289	409	434	495	503	1030	538	585	538	187	385	316	279	180	304	415
	NICKEL	310	53.9	66	20.4	20.9	27.1	29.3	21.7	21.1	35.6	24	24.5	24.2	28.2	29.8	14.9	14.6	20.5	17.6	14.7	18.7	17
	POTASSIUM	-	1150	905	1070	1750	2630	1700	3080	2700	2710	2500	2870	2800	2820	2560	927	1340	1480	1230	1010	1330	1210
	SELENIUM	1500	1.3	2.2	0.9	0.61	0.81	0.66	0.53	1		0.86				0.62	1.8	0.6		5.1	6.5	8.7	0.52
	SILVER	1500	1.4	2																0.63	0.7	0.26	
	SODIUM	-	192	192	80.9	70.7	54	84.6	79.2	74.4	67.5	76.3	69.2	65.1	64.6	80.2	80.9	170	96.4	88.4	79.6	153	83.1
	THALLIUM	-				1.1									0.75	0.8	5.2						
	VANADIUM	-	14.1	13.6	17.1	20.4	25.9	24.7	30.6	23.1	59.9	24.4	27.2	28	26	25.9	23.5	26.4	16.1	22.4	22.9	24.3	17.5
	ZINC	10000	242	210	159	349	125	124	59.8	128	152	107	121	192	226	295	953	208	781	312	87.2	80.5	94.9
	MERCURY	2.8	0.2	0.45	0.29	0.23	0.12	0.085	0.042	0.18	0.17	0.51	0.43	0.18	0.2	0.16	0.18	0.27	0.16	0.61	0.3	0.21	0.19
SVOCs	*ACENAPHTHENE*	*500000*			*290*	*640*					*370*				*1300*	*2300*	*2200*					*970*	
	ACENAPHTHYLENE	*500000*	*530*	*400*	*1400*	*960*	*910*	*150*		*29*	*900*	*830*	*660*		*260*	*270*	*940*	*480*		*3700*	*2600*	*13000*	
	ANTHRACENE	*500000*	*380*		*1800*	*2700*	*640*	*510*			*1800*	*640*	*780*		*3200*	*6000*	*6300*			*2000*	*2100*	*13000*	
	BENZO(A)ANTHRACENE	*5600*	*1500*	*1300*	*7000*	*8500*	*3000*	*3000*		*200*	*4700*	*2900*	*3000*	*1400*	*8000*	*15000*	*14000*	*2700*	*560*	*12000*	*10000*	*52000*	*100*
	BENZO(A)PYRENE	*1000*	*1700*	*1600*	*7000*	*8100*	*2600*	*2700*		*200*	*4000*	*2900*	*2300*	*1100*	*6300*	*12000*	*10000*	*2400*	*520*	*9400*	*7600*	*35000*	*79*
	BENZO(B)FLUORANTHENE	*5600*	*2300*	*2300*	*9200*	*9100*	*4000*	*3200*		*260*	*4600*	*3900*	*3100*	*1700*	*7800*	*15000*	*11000*	*3200*	*690*	*16000*	*13000*	*54000*	*200*
	BENZO(G,H,I)PERYLENE	*500000*	*1400*	*1200*	*4900*	*4900*	*1800*	*1600*		*170*	*2600*	*2000*	*1600*	*790*	*4200*	*7900*	*6200*	*1800*	*460*	*4900*	*4600*	*11000*	*66*
	BENZO(K)FLUORANTHENE	*5600*	*1200*	*810*	*3900*	*5000*	*1800*	*1300*		*130*	*2300*	*1800*	*1700*	*570*	*3000*	*5700*	*5600*	*1400*	*290*	*6000*	*4800*	*24000*	*45*
	CHRYSENE	*56000*	*1800*	*1700*	*7300*	*9100*	*4100*	*3200*		*250*	*4700*	*3400*	*3000*	*1500*	*7700*	*15000*	*15000*	*3300*	*680*	*12000*	*11000*	*47000*	*270*
	DIBENZ(A,H)ANTHRACENE	*560*		*450*		*1700*				*41*							*2100*			*2400*		*7200*	
	DIBENZOFURAN	*350000*			*340*	*540*					*370*		*160*		*1200*	*2100*	*1900*					*780*	*30*
	FLUORANTHENE	*500000*	*2500*	*2400*	*13000*	*17000*	*6200*	*4300*		*370*	*9300*	*5400*	*5300*	*2300*	*17000*	*30000*	*25000*	*4800*	*960*	*24000*	*18000*	*89000*	*150*
	FLUORENE	*500000*			*540*	*880*	*130*				*680*	*190*	*230*		*1500*	*2800*	*3300*			*400*	*310*	*2000*	
	NAPHTHALENE	*500000*			*460*	*460*					*370*		*170*		*890*	*2200*	*2200*			*280*			
	PENTACHLOROPHENOL	*6700*																					
	PHENANTHRENE	*500000*	*1000*	*1200*	*6200*	*11000*	*2000*	*1900*		*190*	*7100*	*2200*	*2600*	*1200*	*16000*	*26000*	*30000*	*2100*	*610*	*5400*	*4100*	*19000*	*210*
	PHENOL	*500*																					
	PYRENE	*500000*	*2300*	*2200*	*12000*	*15000*	*6600*	*4700*		*370*	*8400*	*5600*	*5000*	*2300*	*15000*	*27000*	*29000*	*4500*	*920*	*20000*	*16000*	*73000*	*130*
	Total PAH	*500000*	*17980*	*16560*	*79900*	*100300*	*35800*	*28110*	*0*	*2375*	*54610*	*33980*	*31310*	*13580*	*96550*	*175570*	*168340*	*28620*	*6110*	*124680*	*99590*	*454900*	*1250*
	Sample Depth (ft)		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Italicized indicates parts per billion. Otherwise parts per million.

Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures

PAH only failures

PAH exceedance of 500 ppm

Metal and PAH failures

Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Floor Samples

	Sample Name		Commercial Standard	F2282	F2283	F2284	F2285	F2286	F2287	F2288	F2289	F2290	F2291	F2292	F2293	F2294	F2295	F2296	F2297	F2298	F2299	F2300	F2301	F2302
Metals	ALUMINUM	-		6710	11400	8410	10900	8220	8590	4590	6870	18800	16900	14900	10900	14200	6950	3400	17800	9880			8850	8740
	ANTIMONY	-		2.8	1.7	17.4	4.3	7	4.6	3.4	3.6	2.9	1.9	1.60	3.00	1.4	12.30	40.2	1.8	3.9			2.9	2.9
	ARSENIC		16	36.2	21.6	17.6	18.7	16.4	16	13	16.2	16.7	15.5	15.8	19.5	13.1	11.2	11.8	16.3	13			16.6	30.8
	BARIUM		400	142	82.4	103	106	910	96.1	134	323	118	120	68.9	94.1	152	103	38	104	78.4	0.85	0.56	173	125
	BERYLLIUM		590	0.71	0.57	0.58	0.58	0.79	0.49	0.68	0.87	0.63	0.62	0.53	0.48	0.47	0.46	0.16	0.66	0.47			0.96	0.87
	CADMIUM		9.3	0.2		0.57	0.11	0.31	0.73	0.069	0.25	0.12	0.21	0.1	0.87	0.14	0.21		0.19	0.78	0.016	0.00092		2.4
	CALCIUM	-		4300	4920	38600	7750	4480	105000	2640	7020	1900	1160	975	5100	2790	40000	2770	1880	30600			2760	4380
	CHROMIUM, TOTAL	-		17.1	17.5	32.3	16.3	21.1	16.9	15.6	15.6	24.4	19	16.9	21.7	15	25.7	51.8	20.9	16.7			16.2	12.8
	COBALT	-		11.5	10.9	8.1	8.3	10.3	6.6	6.1	7.8	9.5	8.5	7.3	9.8	6.6	7.1	19.1	10.2	6.2			8.9	10.3
	COPPER		270	223	60	213	64.4	200	81.4	150	122	34	25.8	25.6	60.4	24.2	244	223	31	64.8			108	2080
	IRON	-		64000	37400	35000	26000	40100	28900	23900	29600	38900	29300	25200	42000	23600	51500	346000	30600	44700			27600	20900
	LEAD		1000	405	139	18400	3470	3000	2090	407	770	105	65.8	30.2	122	57.2	15800	2030	50.4	851	91.4	0.035	104	592
	MAGNESIUM		10000	1300	3190	5300	3360	1690	4620	714	2080	3770	3590	3040	2650	2390	4840	1420	4180	4240			1690	1970
	MANGANESE	-		477	756	467	823	564	631	132	464	1300	1260	810	827	1510	488	1860	1200	440			163	475
	NICKEL		310	22.6	22.9	31.6	21.5	22.8	17.5	13.2	17.2	21.9	19.3	16.8	22.9	12.6	30.4	33.6	21.8	21.1			22.4	19.6
	POTASSIUM	-		1070	2250	2050	2540	1590	2140	976	1540	2460	2520	2230	2210	1960	1370	463	2680	1530			1790	1610
	SELENIUM		1500	2.7	0.64	1.1	0.55	1.2		1.4	1.2	0.98	0.89						0.71				1.7	2.9
	SILVER		1500	0.6		0.32											0.29							0.45
	SODIUM	-		133	44.4	103	57.5	99.4	104	55.9	63.1	40	38.7	36.8	61.5	32.5	139	56.6	38.9	149			105	122
	THALLIUM	-				1		0.97	0.5		0.45													4.8
	VANADIUM	-		21.3	24.5	26.9	24	24	19.8	17.4	20.8	36.6	31.2	26.5	32.3	26.7	16.6	23.2	33.4	20			28.5	23.1
	ZINC		10000	172	93	214	105	249	178	58.3	123	130	198	119	170	100	132	374	146	161			99.2	736
	MERCURY		2.8	1.4	0.11	0.32	0.11	1.1	0.2	0.077	0.18	0.078	0.069	0.049	0.11	0.064	0.2	1.2	0.059	0.3			0.11	0.8
SVOCs	*ACENAPHTHENE*		*500000*			*3600*		*180*																
	ACENAPHTHYLENE		*500000*	*290*	*48*	*3500*	*91*	*440*	*1200*	*360*	*710*	*61*	*39*		*290*		*150*		*42*	*310*				
	ANTHRACENE		*500000*	*320*	*68*	*9100*	*77*	*1400*	*1300*	*310*	*910*				*250*									
	BENZO(A)ANTHRACENE		*5600*	*1300*	*250*	*25000*	*390*	*3200*	*5100*	*1200*	*3200*	*280*	*210*	*83*	*1000*	*86*	*1500*	*200*	*170*	*2200*				
	BENZO(A)PYRENE		*1000*	*1100*	*210*	*20000*	*350*	*2300*	*4100*	*1000*	*2400*	*290*	*210*	*82*	*920*	*80*	*1100*		*180*	*2100*				
	BENZO(B)FLUORANTHENE		*5600*	*1800*	*320*	*27000*	*490*	*2900*	*5700*	*1400*	*3300*	*380*	*270*	*100*	*1100*	*110*	*1800*	*210*	*220*	*2600*				
	BENZO(G,H,I)PERYLENE		*500000*	*630*	*180*	*12000*	*260*	*1400*	*2500*	*690*	*1400*	*240*	*190*	*56*	*600*	*57*	*730*		*230*	*1300*				
	BENZO(K)FLUORANTHENE		*5600*	*850*	*120*	*9600*	*210*	*960*	*2200*	*640*	*1500*	*180*	*130*	*51*	*490*	*35*	*640*		*140*	*1100*				
	CHRYSENE		*56000*	*1600*	*350*	*25000*	*500*	*3000*	*5500*	*1400*	*3400*	*350*	*260*	*100*	*1100*	*98*	*1300*		*210*	*2400*				
	DIBENZ(A,H)ANTHRACENE		*560*				*94*				*530*													
	DIBENZOFURAN		*350000*			*3800*		*360*	*120*		*140*													
	FLUORANTHENE		*500000*	*2400*	*360*	*42000*	*650*	*6900*	*9300*	*2000*	*5400*	*560*	*410*	*160*	*2000*	*150*	*2100*	*190*	*310*	*3600*				
	FLUORENE		*500000*			*6000*		*530*	*230*		*310*													
	NAPHTHALENE		*500000*			*6900*			*240*															
	PENTACHLOROPHENOL		*6700*																					
	PHENANTHRENE		*500000*	*1300*	*200*	*39000*	*280*	*5600*	*3000*	*620*	*2900*	*250*	*200*	*99*	*1300*	*97*	*410*		*180*	*1800*				
	PHENOL		*500*																					
	PYRENE		*500000*	*1900*	*380*	*38000*	*640*	*5500*	*8300*	*1900*	*5300*	*550*	*420*	*190*	*2100*	*190*	*2200*	*250*	*310*	*3700*				
	Total PAH		*500000*	*13670*	*2665*	*280000*	*4327*	*36070*	*51640*	*12330*	*32840*	*3406*	*2499*	*964*	*11810*	*949*	*12620*	*850*	*2152*	*22540*	*0*	*0.00*	*0*	*0*
	Sample Depth (ft)			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	1	1

Italicized indicates parts per billion. Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Floor Samples

	Sample Name		Commercial Standard	F2303	F2304	F2304R1	F2304 R2	F2305	F2306	F2307	F2308	F2309	F2310	F2311	F2312	F2313	F2314	F2315	F2316	F2317	F2318	F2319	F2320	F2321
Metals	ALUMINUM	-		10600	3440	14000	15200	17600	6200	15700	8930	9060	2690	6240	16900	5180	6240	4140	7300	6350	14300	12700	16000	5420
	ANTIMONY	-		8.7	77.6	2.4	1.9	2		0.84	3.1	2.7		2.5		5.9	3.2	3.4	4.9	22.9	3.1	1.7	2.6	13.8
	ARSENIC		16	12.1		13.4	14	14.4	6	15.3	20.9	16	10.7	15.4	12.8	13.8	10.7	14.4	16.7	18.5	15.9	19.2	36.3	14
	BARIUM		400	121	234	139	94.6	135	72.4	126	328	862	43.8	56	106	150	64.5	167	416	105	235	94.7	73.3	73.4
	BERYLLIUM		590	0.65	0.2	0.82	0.79	0.93	0.32	0.83	0.89	0.47	0.37	0.36	0.91	0.62	0.42	0.71	0.54	0.43	0.6	0.44	0.58	0.56
	CADMIUM		9.3	0.37		0.2		0.08	0.37	0.19	11.4	1.2	0.16	0.44		0.12	0.073	0.17	0.27		0.19	0.11		0.37
	CALCIUM	-		49500	7770	2870	1890	1550	71000	5320	86300	70300	2760	158000	1510	3330	20500	2960	10200	13400	3330	1100	1590	2950
	CHROMIUM, TOTAL	-		21.8	130	20.9	21.4	23	12.5	21.7	17.1	19.6	5.8	17.8	22.2	11.3	9.5	10.9	20.1	47	19	14.4	22.4	11.9
	COBALT	-		7.3	14.4	15.1	12.8	15.4	3.7	11.7	7.6	9	3.7	5.9	13.4	6.1	6.3	5.2	9.9	13.7	8.5	5.9	10.8	11.5
	COPPER		270	97.3	810	48	25.2	30.2	42.6	37.1	101	90.6	29.7	86	150	164	46.5	123	152	225	41.8	22.5	41.5	361
	IRON	-		27500	193000	29200	32400	29900	12700	29700	50000	36500	12500	35200	28600	29700	22400	22600	29000	173000	30300	22500	47000	44400
	LEAD		1000	1990	72800	191	38.9	292	136	79.5	528	862	21.3	836	30.5	422	168	466	538	5640	160	47.3	41	836
	MAGNESIUM		10000	6080	1400	4190	4860	4540	6670	4660	16000	7560	542	5420	4280	1130	3170	544	3630	2320	2690	2390	3950	1360
	MANGANESE	-		429	1190	1100	628	861	312	684	476	793	172	368	681	298	487	129	393	1140	1790	965	1410	460
	NICKEL		310	23.5	140	32.1	28.8	29.2	10.3	25.2	22.5	20.9	9.5	23.6	27.4	14	12.7	10.9	21.8	70.8	17.4	11.4	24.9	16.8
	POTASSIUM	-		2420	651	2820	3440	4060	1730	3760	1810	2000	527	1490	4230	1100	1410	695	1700	1450	2000	1590	2000	621
	SELENIUM		1500	0.58						0.54						2		1.8	1.10	3.20			1.8	1.7
	SILVER		1500		1.6																			
	SODIUM	-		514	335	50.3	53.2	170	93.6	57.3	207	97.8	36.7	174	54.3	59.8	67.9	46.1	56.2	113	43.7	24.8	27.4	69.5
	THALLIUM	-									2.7	0.85		0.55										
	VANADIUM	-		31.9	34.3	26.9	30.4	34.9	16.1	30.7	22.2	21.3	11	15.8	33.4	15.2	16.1	16.1	19.3	28.6	30.9	24.5	34.6	16.9
	ZINC		10000	162	359	161	78.4	80.5	129	111	553	230	41.6	154	72.1	96.7	84.7	51.9	132	221	139	90.8	119	159
	MERCURY		2.8	0.37	0.15	0.12	0.026	0.048	0.36	0.16	0.18	0.5	0.24	0.19	0.041	0.29	0.066	0.25	0.38	0.25	0.38	0.071	0.052	0.24
SVOCs	*ACENAPHTHENE*		*500000*								*1700*		*77.00*			*570*	*1400*		*840.00*	*1100.00*				
	ACENAPHTHYLENE		*500000*			*460*				*48*		*500*	*55*			*490*	*510*	*78*	*1700*	*380.00*	*67*		*29*	*640*
	ANTHRACENE		*500000*			*550*					*4700*	*520*	*240.00*			*1800*	*3000*	*69*	*3300*	*2900.00*	*60*			*590*
	BENZO(A)ANTHRACENE		*5600*			*1700*				*200*	*20000*	*2400*	*890*	*5800*	*31*	*4800*	*7700*	*410*	*10000*	*6500*	*270*	*110*	*150*	*4300*
	BENZO(A)PYRENE		*1000*			*1600*	*35*			*200*	*15000*	*2200*	*770*	*5800*		*4100*	*6500*	*380*	*8200*	*5500*	*260*	*110*	*160*	*3700*
	BENZO(B)FLUORANTHENE		*5600*			*2000*				*280*	*16000*	*2700*	*980*	*7600*	*37*	*4900*	*7600*	*480*	*11000*	*7600*	*410*	*140*	*290*	*6600*
	BENZO(G,H,I)PERYLENE		*500000*			*1000*	*30*			*180*	*10000*	*1600*	*600*	*3800*	*23*	*2500*	*3300*	*240*	*4000*	*2800*	*160*	*76*	*100*	*2400*
	BENZO(K)FLUORANTHENE		*5600*			*890*				*120*	*9100*	*1300*	*330*	*3400*		*2200*	*2900*	*210*	*4500*			*54*		
	CHRYSENE		*56000*			*1800*				*250*	*21000*	*2700*	*970*	*6800*		*5200*	*7400*	*610*	*11000*	*7000*	*330*	*120*	*210*	*5100*
	DIBENZ(A,H)ANTHRACENE		*560*			*320*				*57*	*3500*	*520*	*200.00*			*930*	*1300*	*86*	*1400*	*970.00*	*57*		*43*	*690*
	DIBENZOFURAN		*350000*								*1000*	*110.00*	*59.00*			*490*	*920*	*33*	*710*	*1100.00*				*130*
	FLUORANTHENE		*500000*			*3000*	*45*			*390*	*32000*	*4000*	*1600*	*7400*	*45*	*10000*	*15000*	*820*	*20000*	*13000*	*540*	*230*	*290*	*7200*
	FLUORENE		*500000*			*200*					*2300*	*200.00*	*65.00*			*700*	*1500*		*1200*	*1500.00*	*24*			*170*
	NAPHTHALENE		*500000*								*1100*					*490*	*620*		*630.00*	*1900.00*				
	PENTACHLOROPHENOL		*6700*																					
	PHENANTHRENE		*500000*			*1900*	*36*			*190*	*27000*	*2100*	*1200*	*1600*		*7500*	*12000*	*450*	*11000*	*14000*	*330*	*120*	*140*	*3500*
	PHENOL		*500*																					
	PYRENE		*500000*			*2600*	*37*			*400*	*32000*	*3700*	*1600*	*7600*	*45*	*8800*	*14000*	*800*	*18000*	*13000*	*520*	*210*	*270*	*7300*
	Total PAH		*500000*	*0*	*0*	*19110*	*210*	*0*	*0*	*2465*	*205000*	*26180*	*10180*	*53700*	*181*	*57630*	*88030*	*4925*	*111930*	*80850*	*3216*	*1243*	*1802*	*45170*
	Sample Depth (ft)			1	1	2	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Italicized indicates parts per billion. Otherwise parts per million.

Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures

PAH only failures

PAH exceedance of 500 ppm

Metal and PAH failures

Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Floor Samples

	Sample Name		Commercial Standard	F2322	F2323	F2324	F2325	F2326	F2327	F2328	F2329	F2330	F2331	F2332	F2333	F2334	F2335	F2336	F2337	F2338	F2339	F2340	F2341	F2342
Metals	ALUMINUM	-		5050	6910	16300	13200	9510	13600	14000	12900	4490	13900	8890	10100	13100	13500	10300	16500	9610	7790	7500	6610	5210
	ANTIMONY	-		10.8	5.7	2.2	3.5	12.4	1.4	1.1	2.6	11.9	2.7	33.2	6.2	3.4	106	1.6			11.3	2.3	1.4	1.2
	ARSENIC		16	18.1	17.8	17.8	15.9	19.5	18.7	12	8.9	20.3	18.7	23.6	11.9	22.4	25.7	20.3	12.9	7.8	25.8	25.9	7.5	8.1
	BARIUM		400	75.1	92.1	68.1	90	219	76.2	46.2	69.1	62.6	126	662	58.7	105	277	154	105	317	212	116	69.2	59.1
	BERYLLIUM		590	0.48	0.52	0.71	0.59	0.71	0.58	0.73	0.56	0.52	0.62	0.57	0.62	0.75	0.78	0.56	0.81	0.45	0.75	0.68	0.34	0.28
	CADMIUM		9.3	0.17	0.18			0.12	0.06	0.051	0.14		0.51	0.62	0.048	0.071	0.83	1.2		3.2	136	6	0.25	0.23
	CALCIUM	-		2460	3220	1940	2400	3820	2500	1270	7480	28200	5130	49500	3010	2670	4720	9880	1490	78500	16300	14400	47500	67400
	CHROMIUM, TOTAL	-		12.4	13.6	19.4	19	16.7	16.3	17.5	16.3	12.1	24.1	132	17.3	29.2	83	26.6	21.3	28.9	55.4	14.4	11.8	11.6
	COBALT	-		8.4	8	10.3	13	11.3	9.2	8.1	7.5	10.7	9.8	15.7	13.9	11.2	11.1	8.4	12.7	4.9	10.8	7.3	3.2	3.2
	COPPER		270	303	170	59.8	54.8	145	40.1	32.6	72.9	269	87.7	924	4400	170	827	130	25.3	71.2	702	364	72.4	61.2
	IRON	-		44500	39200	38300	67300	37200	25400	24800	23900	60300	37500	180000	36400	45700	40900	32500	28400	28400	56100	23000	10200	10200
	LEAD		1000	771	565	124	120	821	48.6	26	164	344	138	12400	1000	431	3020	704	19.4	804	681	286	89.5	82.8
	MAGNESIUM		10000	1290	2040	3860	2640	2850	3230	3590	3230	6930	3560	3860	2350	3550	3710	3320	4370	4310	2520	3870	4000	4480
	MANGANESE	-		517	645	966	943	1010	812	525	551	514	1090	1880	928	551	515	469	656	293	436	499	188	186
	NICKEL		310	15.1	21.6	24.5	21.6	23	19.4	20.6	17.5	20.7	22.4	87	68.4	30.8	30.6	25.5	28.5	18.1	34.9	20	9.1	9.4
	POTASSIUM	-		845	1410	1920	2100	2140	2360	3120	2140	946	2770	2130	2370	2850	3440	2590	4000	1580	1390	1570	1620	1630
	SELENIUM		1500	1.4	1.4	0.75		1.5	0.99		0.83	1.8	0.87								2.7	0.81		
	SILVER		1500													0.23	0.29							
	SODIUM	-		47.6	43.5	36.6	110	89.8	44.2	40.2	42.6	94.4	107	238	84.4	57.5	114	123	52.3	834	181	97.7	461	187
	THALLIUM	-														0.5				0.69	4	3.2		0.58
	VANADIUM	-		17.1	21.7	32.3	28.2	25.1	28.8	27.4	25.9	18.1	29.6	26.3	21.8	28.4	27.9	24.4	31.3	38.5	25	21.2	15.8	15.3
	ZINC		10000	154	185	126	99.6	135	97.5	95.1	111	110	220	349	514	199	503	231	71	1310	829	577	110	104
	MERCURY		2.8	0.23	0.16	0.069	0.15	0.14	0.075	0.027	0.3	0.3	5.5	0.17	0.23	0.095	0.18	0.089	0.038	0.046	1.1	14.1	0.18	0.16
SVOCs	*ACENAPHTHENE*		*500000*										*800*		*3800*	*360*	*270*	*100*		*1400*	*540*		*640*	*830*
	ACENAPHTHYLENE		*500000*	*740*	*330*	*74*	*50*		*130*		*81*	*320*	*2700*	*540*	*530*	*250*	*300*	*100*		*1000*	*420*	*250*		
	ANTHRACENE		*500000*	*810*	*550*	*73*			*86*		*60*		*3900*	*650*	*9000*	*790*	*790*	*400*		*4300*	*2100*		*1900*	*2200*
	BENZO(A)ANTHRACENE		*5600*	*4800*	*3000*	*370*	*250*	*770*	*500*	*48*	*350*	*1400*	*16000*	*3000*	*17000*	*3100*	*2700*	*1200*		*9600*	*5800*	*1100*	*4500*	*5300*
	BENZO(A)PYRENE		*1000*	*4500*	*2300*	*330*	*240*	*730*	*490*	*41*	*340*	*1300*	*12000*	*2500*	*12000*	*2600*	*2200*	*850*		*7000*	*5100*	*1100*	*3800*	*4100*
	BENZO(B)FLUORANTHENE		*5600*	*7900*	*4000*	*500*	*330*	*1400*	*820*	*63*	*490*	*2100*	*17000*	*3100*	*12000*	*3700*	*2600*	*1200*		*9600*	*6200*	*1700*	*4700*	*4800*
	BENZO(G,H,I)PERYLENE		*500000*	*3100*	*1500*	*240*	*190*	*590*	*370*	*49*	*270*	*950*	*6500*	*1800*	*4600*	*1300*	*1100*	*400*		*3500*	*3300*	*740*	*2400*	*2400*
	BENZO(K)FLUORANTHENE		*5600*			*180*	*170*		*300*		*190*	*740*	*6500*	*1300*	*5100*		*950*	*530*		*4200*	*2400*	*580*	*1600*	*2400*
	CHRYSENE		*56000*	*6400*	*3200*	*470*	*300*	*1100*	*590*		*470*	*1600*	*16000*	*2900*	*17000*	*3400*	*2800*	*1200*		*11000*	*6000*	*1300*	*4300*	*4900*
	DIBENZ(A,H)ANTHRACENE		*560*	*1100*	*530*	*100*	*67*	*220*	*140*		*91*	*370*	*2700*	*730*	*1700*	*570*	*480*	*150*		*1300*	*1100*	*200*	*780*	*720*
	DIBENZOFURAN		*350000*								*27*				*2500*	*170*	*190*	*100*		*1900*	*500*		*530*	*660*
	FLUORANTHENE		*500000*	*9000*	*6000*	*670*	*430*	*1700*	*760*	*90*	*550*	*2000*	*28000*	*5000*	*30000*	*5600*	*4900*	*2200*		*23000*	*11000*	*1900*	*9700*	*11000*
	FLUORENE		*500000*										*1100*		*4600*	*420*	*330*	*160*		*2400*	*620*		*680*	*940*
	NAPHTHALENE		*500000*								*34*	*180*	*610*		*2500*	*160*	*200*	*58*		*2400*	*410*		*500*	*770*
	PENTACHLOROPHENOL		*6700*																					
	PHENANTHRENE		*500000*	*4600*	*2400*	*320*	*190*	*840*	*160*	*40*	*270*	*1000*	*12000*	*2600*	*39000*	*5300*	*4100*	*2000*		*28000*	*8400*	*610*	*8200*	*9100*
	PHENOL		*500*																					
	PYRENE		*500000*	*8600*	*5300*	*710*	*470*	*1500*	*890*	*88*	*580*	*2200*	*27000*	*4900*	*32000*	*6400*	*5000*	*1900*		*19000*	*10000*	*1700*	*8200*	*9100*
	Total PAH		*500000*	*55450*	*31030*	*4300*	*2875*	*9370*	*5618*	*460*	*4069*	*15170*	*160210*	*31040*	*193830*	*35090*	*29760*	*12998*	*0*	*132700*	*66820*	*12010*	*54180*	*60930*
	Sample Depth (ft)			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Italicized indicates parts per billion. Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Floor Samples

	Sample Name	Commercial Standard	F2343	F2344	F2345	F2346	F2347	F2348	F2349	F2350	F2351	F2352	F2352R1	F2353	F2354	F2355	F2356	F2357	F2358	F2359	F2360	F2361	F2361R1
Metals	ALUMINUM	-	9640	9360	8930	8240	11300	10500	16300	16800	16500	8550	13100	6600	4750	18200	11000	9810	13200	9660	8790	4680	11800
	ANTIMONY	-	1.6	9.1	1.2	1.3	9.6	2.7	2.8	1.7	2	10.9	2.8	71.3	12.5	1.7	1.4	2.2	1.5	1.8	1.3	9.3	1.5
	ARSENIC	16	14.7	24.7	14.1	12.3	23.4	16.5	12.9	12.6	15.3	11	13	12.8	13.6	12.5	15	15.6	16.2	14.8	11.5	17.1	8.4
	BARIUM	400	129	171	74.3	44.4	103	89.3	61.4	60	135	99	110	111	60.2	152	69.7	76.2	91	115	93.6	92.2	72.6
	BERYLLIUM	590	0.53	0.56	0.5	0.45	0.72	0.63	0.53	0.6	0.94	0.62	0.75	0.64	0.63	0.98	0.56	0.64	0.55	0.54	0.51	0.76	0.63
	CADMIUM	9.3	0.29	0.13	0.16	0.23	0.16	0.44	0.061	0.82	0.13				0.074	0.1	0.12	0.16	0.12	0.29	0.35		
	CALCIUM	-	81400	3240	509	562	1620	2460	3730	2250	3460	40100	3020	48000	7970	3210	3420	4530	3650	29300	8880	10900	2130
	CHROMIUM, TOTAL	-	15.7	15.8	11.6	14.3	17.2	15	17.5	22.8	23.8	46.2	20.9	43.5	17	24.1	15.1	16.9	15.1	15.1	15.6	25.2	17.6
	COBALT	-	7.1	9.3	5.6	9.5	11.8	10.3	10.1	9.6	14.9	11.8	12.2	10	7.8	14	8.4	8.1	9	7.4	6.2	6.4	12.2
	COPPER	270	45.1	210	17	26.3	306	56.1	58.1	30.2	42.4	129	55.8	394	386	28.4	49.7	67.5	38.4	55.1	47.7	211	28.6
	IRON	-	20400	52900	19400	20900	31600	27100	35000	28500	32700	80400	34300	78000	40400	30200	26400	27800	24900	21700	17700	42400	25600
	LEAD	1000	162	479	12.4	29.7	392	108	77.8	30	457	5760	252	16200	1870	33.7	58.7	87.7	35.9	235	158	3040	12.5
	MAGNESIUM	10000	10600	2410	2340	1940	2250	2590	3600	4040	4530	4380	4140	4560	883	4660	3140	3050	3150	5500	3310	1170	4760
	MANGANESE	-	547	967	470	537	731	676	660	701	888	1090	738	889	503	893	810	561	817	463	417	385	615
	NICKEL	310	17.7	21.6	13.6	16	19.9	21.8	21.7	23.8	31.7	48.8	28.1	56.8	25.1	27.5	19.3	19.3	15.7	17.9	15.2	24	26.6
	POTASSIUM	-	2870	1750	1540	1470	1450	1760	1410	2150	3280	1890	2650	1370	768	4380	2240	1880	2150	2410	2370	1050	2320
	SELENIUM	1500		0.78			1.6	0.83	0.56		0.91				1.7		0.67	0.56	0.9	0.99	0.86	1.7	0.57
	SILVER	1500																					
	SODIUM	-	105	44	28.5	26	61.5	48.9	39.9	48.7	49.5	127	68.3	157	136	62.1	44.5	57.2	45.9	72.9	55.4	196	106
	THALLIUM	-	0.6					0.42		1.1													
	VANADIUM	-	21.8	22.7	20	20.1	27.5	23	33	29.5	31.8	23.8	25.5	24.1	23.1	34.7	23.2	23.8	27.5	21.6	19	21.4	21.9
	ZINC	10000	236	176	70.5	124	99.7	165	114	328	96.9	122	91.9	303	235	97.8	92.9	101	101	112	103	78.9	78.5
	MERCURY	2.8	0.22	0.46	0.047	0.061	0.24	0.086	0.098	0.064	0.081	0.071	0.11	0.15	0.14	0.067	0.16	0.36	0.077	0.24	0.23	0.26	0.023
SVOCs	*ACENAPHTHENE*	*500000*																*310*					
	ACENAPHTHYLENE	*500000*	*200*	*480*			*63*	*65*	*34*		*62*	*310*		*4100*	*360*		*120*	*610*	*36*	*360*	*570*	*1300*	
	ANTHRACENE	*500000*		*390*				*50*			*69*			*1900*	*180*		*95*	*1000*		*330*	*420*	*580*	
	BENZO(A)ANTHRACENE	*5600*		*2400*	*48*	*34*	*350*	*290*	*160*	*97*	*300*	*650*		*8600*	*810*		*480*	*3500*	*180*	*1500*	*1800*	*3200*	
	BENZO(A)PYRENE	*1000*	*600*	*2000*	*37*	*33*	*290*	*270*	*150*	*84*	*300*	*710*	*120*	*10000*	*1000*		*400*	*3100*	*150*	*1400*	*1800*	*3700*	
	BENZO(B)FLUORANTHENE	*5600*	*820*	*3300*	*54*	*50*	*460*	*400*	*210*	*130*	*390*	*890*	*150*	*12000*	*1600*		*600*	*4000*	*230*	*1700*	*2100*	*4700*	
	BENZO(G,H,I)PERYLENE	*500000*	*460*	*1300*	*30*	*31*	*230*	*200*	*120*	*67*	*240*	*650*	*120*	*6900*	*750*		*250*	*1800*	*110*	*850*	*1000*	*2400*	
	BENZO(K)FLUORANTHENE	*5600*	*340*	*1200*		*31*	*160*	*190*	*100*	*59*	*160*	*360*	*45*	*5400*			*270*	*2000*	*96*	*790*	*1100*	*1700*	
	CHRYSENE	*56000*	*740*	*2900*	*59*		*410*	*380*	*210*	*110*	*340*	*770*		*8200*	*920*		*520*	*3900*	*210*	*1800*	*2300*	*3200*	
	DIBENZ(A,H)ANTHRACENE	*560*		*340*			*73*	*66*			*78*	*210*		*2800*	*300*		*110*	*680*	*44*	*320*	*360*	*920*	
	DIBENZOFURAN	*350000*																*250*					
	FLUORANTHENE	*500000*	*1200*	*4300*	*84*	*61*	*560*	*460*	*250*	*100*	*570*	*760*	*150*	*6600*	*750*		*850*	*7200*	*280*	*2600*	*3600*	*3500*	*28*
	FLUORENE	*500000*												*230*				*320*			*140*		
	NAPHTHALENE	*500000*						*30*						*240*	*36*			*200*				*180*	
	PENTACHLOROPHENOL	*6700*																					
	PHENANTHRENE	*500000*	*510*	*1200*	*59*		*260*	*180*	*90*		*290*	*320*	*84*	*1100*	*210*		*270*	*4100*	*92*	*1300*	*1800*	*1000*	*31*
	PHENOL	*500*																					
	PYRENE	*500000*	*1100*	*4100*	*90*	*55*	*570*	*460*	*260*	*140*	*540*	*940*	*170*	*8600*	*960*		*810*	*6600*	*320*	*2600*	*3500*	*3900*	
	Total PAH	*500000*	*6380*	*25390*	*489*	*324*	*3666*	*3257*	*1694*	*850*	*3587*	*7100*	*931*	*83540*	*8564*	*0*	*5079*	*41330*	*1846*	*16370*	*21700*	*32750*	*59*
	Sample Depth (ft)		1	1	1	1	1	1	1	1		2	3	4	4	3	1	1	1	1	1	2	1

Italicized indicates parts per billion. Otherwise parts per million.

Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures

PAH only failures

PAH exceedance of 500 ppm

Metal and PAH failures

Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Floor Samples

	Sample Name	Commercial Standard	F2362	F2362R1	F2363	F2363R1	F2364	F2364R1	F2365	F2365R1	F2366	F2367	F2368	F2369	F2370	F2371	F2372	F2372R1	F2372A	F2373	F2374	F2375	F2376
Metals	ALUMINUM	-	7520	15800	10900	14600	6490	13000	9600	12400	9940	9820	11000	5460	10500	15100	7200	12500	5230	4410	4030	6890	3220
	ANTIMONY	-	32.2	1.8	9.6	1.8	17.1	1.9	13.6	1.1	16.2	2.3	1.3	11.7	1.7	1.5	12.6	4.6	136	34.8	22.2	5.8	10.3
	ARSENIC	16	16.5	16.6	21.1	13.4	20.2	10.4	11.8	10.7	13.7	19.6	18	19.8	24.4	22.9	11.1	24.4	39.7	34.5	55.9	17.7	39.6
	BARIUM	400	105	136	112	120	54.8	86.4	261	98.5	103	58.1	73.5	92.9	69.6	58.2	169	145	471	153	178	109	83.6
	BERYLLIUM	590	0.87	0.92	0.86	0.82	0.63	0.74	0.67	0.68	0.83	0.6	0.6	0.66	0.61	0.69	0.75	0.65	0.51	0.42	0.48	0.6	0.94
	CADMIUM	9.3	0.83	0.18	0.54		0.88	0.12	0.46	0.081		0.047	0.057		0.14	0.15	6	0.17	4.8			0.042	
	CALCIUM	-	25200	1580	11200	1800	5910	2430	37700	2220	34900	8870	3900	6950	5120	2180	19100	3060	22300	2310	5190	4030	2310
	CHROMIUM, TOTAL	-	43.5	20.7	35.7	19	16.7	19	56.9	17.3	29.9	14.2	15.3	12.2	12.7	18.6	22	20.3	31.6	189	63.3	62.1	26
	COBALT	-	8.9	14.2	9.7	13.6	6.3	11.6	10.3	11.3	10.6	9.2	9.1	17.1	8.6	9.6	8.5	10.5	8.4	24	20.2	10.3	15.1
	COPPER	270	3690	46.1	832	26.3	8020	187	199	24.5	576	55.6	41.8	308	62	41.7	295	2080	137	1540	447	467	319
	IRON	-	63900	29400	39500	28000	28900	26900	68700	24000	46900	33500	29400	52600	26700	29800	45600	44600	58000	208000	266000	47700	115000
	LEAD	1000	19900	35.6	2420	18.7	7380	67.2	11600	21.1	7070	66.5	75.5	601	92.8	52.2	37500	432	3020	15900	830	4050	437
	MAGNESIUM	10000	2250	4580	2750	3550	1500	4720	4430	4070	3980	3100	3310	887	3110	4940	1240	3840	2010	1040	1270	1950	362
	MANGANESE	-	531	811	535	834	377	454	612	379	664	666	1160	299	940	916	390	946	522	1380	1730	536	587
	NICKEL	310	48.5	31.5	31.3	23.2	26	30.7	59.1	22.8	37.1	21.5	20.9	34.9	19.6	25	21.2	25.7	25.2	214	99.5	30.6	40.6
	POTASSIUM	-	1310	2980	2610	2410	1130	2320	3060	3320	2170	1710	2090	771	1950	2040	1030	2260	1080	724	590	1370	569
	SELENIUM	1500	1.8	0.54	2.5		1.9				0.88			1.7	0.72			0.72	0.55	3.9		2.1	2.9
	SILVER	1500	1.3				2.1				0.24			0.71			1						
	SODIUM	-	224	165	114	154	131	196	300	72.7	163	69.9	46.2	82.9	45.8	36.4	388	56.6	112	47.7	38.6	64.2	66.8
	THALLIUM	-	2.7		1.4		7.7				0.37		0.44			0.38	2.8	1.8					
	VANADIUM	-	21.8	29.7	27.3	27.8	19.9	25	23.6	23.5	25.6	23.2	24.5	17.7	22.9	24.6	15.2	27.4	25.9	27.8	19.6	21.8	33.3
	ZINC	10000	575	107	269	75.6	1360	108	189	98	164	107	200	129	124	157	548	431	959	1020	288	140	90.5
	MERCURY	2.8	0.23	0.053	0.17	0.045	4	0.034	0.2	0.053	0.14	0.054	0.24	0.23	0.085	0.15	0.1	0.086	0.15	3	0.27	0.55	0.16
SVOCs	*ACENAPHTHENE*	*500000*															*170*			*1400*	*1400*	*4600*	
	ACENAPHTHYLENE	*500000*	*5100*		*250*				*2500*		*1200*		*43*	*140*	*290*		*550*	*27*		*3000*	*620*		
	ANTHRACENE	*500000*	*2100*		*150*				*1200*		*590*				*570*		*710*	*60*		*6300*	*4000*	*10000*	
	BENZO(A)ANTHRACENE	*5600*	*11000*		*800*		*760*		*6400*		*2400*	*120*	*190*	*940*	*1000*	*160*	*2000*	*280*	*9400*	*17000*	*9800*	*34000*	*800*
	BENZO(A)PYRENE	*1000*	*13000*		*990*		*740*		*8300*		*2900*	*120*	*210*	*750*	*820*	*140*	*1900*	*270*	*8700*	*14000*	*8400*	*35000*	*850*
	BENZO(B)FLUORANTHENE	*5600*	*14000*		*1500*		*880*		*10000*		*3500*	*180*	*330*	*1100*	*1400*	*190*	*2300*	*310*	*9900*	*19000*	*10000*	*46000*	*1100*
	BENZO(G,H,I)PERYLENE	*500000*	*7500*		*690*		*500*		*4300*		*1700*	*84*	*140*	*560*	*540*	*91*	*1200*	*220*	*6000*	*9100*	*5400*	*24000*	*620*
	BENZO(K)FLUORANTHENE	*5600*	*8500*				*410*		*3600*		*1500*	*83*	*130*	*510*	*610*	*92*	*1000*	*140*		*8200*	*4500*	*16000*	*450*
	CHRYSENE	*56000*	*11000*		*920*		*860*		*7100*		*2200*	*150*	*250*	*1300*	*1300*	*200*	*1900*	*310*	*8500*	*19000*	*10000*	*34000*	*970*
	DIBENZ(A,H)ANTHRACENE	*560*	*3400*		*290*				*2100*		*520*	*36*	*49*	*220*	*220*	*39*		*73*		*3600*	*1800*		
	DIBENZOFURAN	*350000*	*120*		*25*												*170*			*1900*	*920*	*3100*	
	FLUORANTHENE	*500000*	*11000*		*750*		*1100*		*6800*		*2200*	*150*	*250*	*1400*	*1900*	*230*	*2900*	*380*	*20000*	*41000*	*22000*	*57000*	*1600*
	FLUORENE	*500000*	*270*														*280*			*2700*	*1800*	*4900*	
	NAPHTHALENE	*500000*	*310*		*34*				*450*								*340*	*27*		*1400*	*790*	*1800*	
	PENTACHLOROPHENOL	*6700*																					
	PHENANTHRENE	*500000*	*1800*		*310*		*690*		*1300*		*570*	*41*	*66*	*850*	*530*	*120*	*1700*	*290*	*18000*	*39000*	*20000*	*45000*	*910*
	PHENOL	*500*																					
	PYRENE	*500000*	*12000*		*1000*		*1100*		*8400*		*2500*	*240*	*350*	*1500*	*1700*	*280*	*2700*	*490*	*17000*	*34000*	*19000*	*46000*	*1600*
	Total PAH	*500000*	*109200*	*0*	*8395*	*0*	*7510*	*0*	*66850*	*0*	*23380*	*1289*	*2148*	*9730*	*11410*	*1631*	*20790*	*3083*	*102700*	*230300*	*124610*	*380200*	*8900*
	Sample Depth (ft)		2	3	2	5	2	3	1	2	4	1	1	1	1	1	1	2	1	1	1	1	1

Italicized indicates parts per billion. Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Floor Samples

	Sample Name	Commercial Standard	F2377	F2378	F2379	F2380	F2381	F2382	F2383	F2384	F2385	F2385R1	F2386	F2387	F2388	F2389	F2390	F2391	F2392	F2393	F2394	F2395	F2396
Metals	ALUMINUM	-	5790	13900	3600	11300	4480	4090	10200	3040	6810	18600	7840	6050	10900	8330	8210	13400	7470	11600	6530	9680	15400
	ANTIMONY	-	17.1	3.4	12	10.2	15.2	19.7	5.8		7.1		10.5			14.7	0.69		11.9	0.91	1.7	3.3	0.66
	ARSENIC	16	53	16.3	25.3	30	40	53.6	15.7	1.3	24.1	15.1	14.5	8.7	16.8	11.5	16	12	23.8	11.5	12.3	14.2	13.6
	BARIUM	400	96	138	70.4	117	177	140	106	16.3	93.6	134	88	45.2	93.9	103	90.6	105	224	118	62.8	95.4	155
	BERYLLIUM	590	0.55	0.83	0.5	0.86	0.88	0.78	0.89	0.26	0.72	0.97	0.66	0.36	0.53	0.45	0.53	0.73	0.58	0.47	0.4	0.57	0.84
	CADMIUM	9.3							0.12	0.075	0.23	0.17	0.55	0.17	0.85	0.67	0.46	0.2	1	0.25	0.35	0.25	0.45
	CALCIUM	-	5130	3690	2580	2890	4370	3230	2970	20800	31900	2480	69700	24800	9600	7750	18100	2730	7150	46800	71300	19000	4420
	CHROMIUM, TOTAL	-	116	21.2	34.5	29.1	37.9	55.2	51.1	4.2	23.6	27.2	23.3	9.1	15.8	103	16.5	17.9	41.1	13.4	16.7	15.9	22.5
	COBALT	-	15.7	13.8	12.9	17	13.3	16.6	15.9	2.2	7.2	17.6	7.1	4.5	12.5	11.8	9	11.5	11.6	7.5	6.2	8.8	13.3
	COPPER	270	353	42	503	227	224	349	204	9.1	305	45.3	127	30	60.1	1740	141	40.7	187	24.7	73.9	122	58.9
	IRON	-	196000	45100	121000	96600	149000	220000	60100	9350	37300	37800	33000	14900	33900	93100	27900	26400	157000	24500	31300	29100	29600
	LEAD	1000	930	41.3	450	358	527	452	19100	6	1800	24.8	13700	126	104	5760	297	46.6	683	60.8	398	5360	273
	MAGNESIUM	10000	950	4420	522	3180	1040	1270	2930	1690	2830	6500	4400	3190	4040	3130	3830	3870	1410	3750	6350	4330	4370
	MANGANESE	-	1180	1100	583	682	930	1440	524	126	637	754	451	369	856	921	590	655	1090	1800	483	748	796
	NICKEL	310	106	30.2	43.4	44.4	45.2	69.9	52.5	4.3	24.1	36.8	34.7	10.1	20.8	52.8	20.3	25	35.2	12.4	21.3	24.1	27.6
	POTASSIUM	-	677	2690	523	2090	673	571	2030	656	1430	3970	2030	1540	1930	1830	1430	2960	982	1700	1680	1810	3080
	SELENIUM	1500		0.64	4.4	2.5	2.8	4.5	1.1		1.6		0.63		0.79	1.8	0.48						0.75
	SILVER	1500							0.37				0.27									0.26	
	SODIUM	-	683	56.1	49.5	61.9	65.2	50.7	60.1	79.5	297	364	318	74.8	66.9	297	114	62.2	148	117	104	101	237
	THALLIUM	-									0.39												
	VANADIUM	-	17.4	27.5	15.4	29.5	21.1	20	24.7	10.9	28.7	34.2	23.4	15.4	24	28.7	23.3	25.5	31.2	22.1	17.7	23.9	30.4
	ZINC	10000	247	92.9	116	184	277	245	169	19.3	168	98.2	95.1	55.6	164	518	165	77.1	446	92.2	103	121	134
	MERCURY	2.8	0.4	0.096	0.32	0.18	0.31	0.27	0.055		0.19	0.028	0.12	0.03	0.076	0.11	0.44	0.21	0.17	0.091	0.072	0.15	0.53
SVOCs	*ACENAPHTHENE*	*500000*			*730*	*760*	*740*	*800*						*420*	*74*								
	ACENAPHTHYLENE	*500000*					*930*	*430*	*170*		*470*		*3000*	*170*	*28*	*410*	*590*			*27*		*1000*	*480*
	ANTHRACENE	*500000*			*1700*	*1200*	*2300*	*2100*			*560*		*2200*	*1100*	*220*		*280*			*69*		*1200*	*270*
	BENZO(A)ANTHRACENE	*5600*	*1400*	*70*	*4300*	*3300*	*8500*	*6500*	*640*	*110*	*2000*		*7900*	*1900*	*650*	*1300*	*930*		*1400*	*270*	*1100*	*3600*	*1400*
	BENZO(A)PYRENE	*1000*	*1300*	*64*	*3600*	*2700*	*7400*	*6000*	*750*	*100*	*2000*		*8700*	*1600*	*600*	*1300*	*1300*	*54*	*1300*	*270*	*1000*	*4000*	*1700*
	BENZO(B)FLUORANTHENE	*5600*	*1400*	*80*	*3700*	*3300*	*8000*	*6400*	*1100*	*110*	*2600*		*11000*	*1700*	*690*	*1500*	*1700*	*58*	*1500*	*370*	*1300*	*4500*	*2200*
	BENZO(G,H,I)PERYLENE	*500000*	*970*	*47*	*2500*	*1900*	*4900*	*4200*	*580*	*62*	*1700*		*5900*	*980*	*370*	*1200*	*1200*	*48*	*960*	*200*	*810*	*2500*	*1500*
	BENZO(K)FLUORANTHENE	*5600*	*500*		*1800*	*1400*	*3700*	*2900*	*280*	*47*	*1200*		*3900*	*990*	*290*	*910*	*620*		*660*	*130*	*730*	*2200*	*910*
	CHRYSENE	*56000*	*1400*	*79*	*4200*	*3100*	*8700*	*6300*	*960*	*100*	*1900*		*7500*	*1800*	*640*	*1500*	*1200*	*59*	*1300*	*300*	*1200*	*3700*	*2000*
	DIBENZ(A,H)ANTHRACENE	*560*			*660*	*480*	*1300*	*1400*			*520*		*2100*	*380*	*120*		*390*			*59*		*890*	*440*
	DIBENZOFURAN	*350000*			*530*	*510*	*460*	*490*	*140*				*630*	*330*	*51*							*240*	
	FLUORANTHENE	*500000*	*2400*	*110*	*8700*	*6900*	*16000*	*12000*	*2400*	*190*	*3400*		*11000*	*3500*	*1100*	*2600*	*1400*	*53*	*2800*	*490*	*2100*	*6400*	*3600*
	FLUORENE	*500000*			*820*	*630*	*1300*	*830*	*200*				*1000*	*430*	*100*							*330*	
	NAPHTHALENE	*500000*			*790*	*520*	*430*	*470*					*1000*	*170*	*27*							*250*	
	PENTACHLOROPHENOL	*6700*																					
	PHENANTHRENE	*500000*	*2000*	*90*	*10000*	*6800*	*15000*	*11000*	*2500*	*140*	*1600*		*6500*	*3700*	*1000*	*1300*	*530*	*39*	*1800*	*260*	*1500*	*3900*	*2500*
	PHENOL	*500*																					
	PYRENE	*500000*	*2500*	*130*	*8900*	*6000*	*17000*	*12000*	*2000*	*170*	*3300*		*11000*	*3400*	*1100*	*2300*	*1400*	*69*	*2200*	*450*	*1800*	*5900*	*3500*
	Total PAH	*500000*	*13870*	*670*	*54250*	*40480*	*100360*	*77100*	*12390*	*1029*	*22750*	*0*	*87900*	*23180*	*7315*	*15240*	*12640*	*417*	*14700*	*3107*	*12230*	*43070*	*21780*
	Sample Depth (ft)		1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1

Italicized indicates parts per billion. Otherwise parts per million.

Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures

PAH only failures

PAH exceedance of 500 ppm

Metal and PAH failures

Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Sidewall Samples

	Sample Name	Commercial Standard	S1001	S1002	S1003	S1004	S1005	S1006	S1007	S1008	S1009	S1010	S1012	S1013	S1014	S1015	S1016	S1017	S1018	S1019	S1020	S1021	S1022	S1023
Metals	ALUMINUM	-	7090	9050	7910	8320	13600	16200	11200	12500	11700	13100	13300	13800	7680	13300	12300	14100	11500	4300	7920	7150	7020	11600
	ANTIMONY	-																				10.5	9.4	1.5
	ARSENIC	16	20.6	10.5	6.8	11.6	25.3	15.4	14.8	17	16.2	16.3	16.3	15	34.1	10.2	12.7	23	14.4	5.1	13	44.4	61.6	81.2
	BARIUM	400	588	80.2	71.3	83.7	135	130	120	130	123	90.7	124	81.9	54.4	95.1	82	92.8	125	44	118	88.9	94.7	70.5
	BERYLLIUM	590	1	0.56	0.44	0.43	0.73	0.81	0.58	0.64	0.59	0.6	0.67	0.65	0.42	0.63	0.64	0.74	0.64	0.23	0.48	0.71	0.9	0.62
	CADMIUM	9.3		0.17	0.095	0.23	0.48	0.081	0.31	0.23	0.28	0.036	0.28	0.42	0.039			0.034	0.15	0.045	0.59			0.074
	CALCIUM	-	58100	69600	78200	46000	3210	2710	21200	27100	28900	6800	19600	4210	1340	1890	6030	2860	8910	83500	33300	6470	8410	36900
	CHROMIUM, TOTAL	-	30.2	14.6	12.9	12.7	20.4	21.6	16.3	18.4	18.5	23.9	20.2	22.8	18.3	17.5	18.5	21.2	16.5	6.5	15.9	39.7	40.3	18.8
	COBALT	-	10.1	6.9	5.7	5.8	11.4	12.9	7.5	8.8	8.2	10	9	11.6	6.5	9.9	10.8	11.7	9	2.7	5.9	12.2	12.3	11.7
	COPPER	270	430	37.5	29.6	40.4	40.7	29.1	45.1	45.8	53.5	36.6	66.2	33.4	30.1	47.2	41.2	33.6	37.9	20.5	48.7	202	141	39.3
	IRON	-	87200	20200	19400	19200	24400	27100	20400	25400	24400	31300	28600	30900	35300	27900	33700	33900	24300	10200	18200	111000	98000	25100
	LEAD	1000	205	6470	1460	160	265	48.1	170	159	202	98.9	205	77.7	67.3	16.4	47.8	56.6	105	88.2	202	697	515	42.3
	MAGNESIUM	10000	1600	380	20100	4770	3710	4470	4580	5810	5790	4650	5770	4260	2370	4530	4390	4750	3850	4210	4550	2000	1830	8530
	MANGANESE	-	411	29.4	420	328	623	677	461	556	505	571	634	602	481	915	511	345	838	194	428	911	777	578
	NICKEL	310	32.6	2510	22	14.6	23.3	27.5	18.3	21	20.4	24.8	22.3	25.9	19.2	25.4	27.9	25.9	20.2	7.8	18.2	30.1	31.3	29.2
	POTASSIUM	-	1950		1820	2080	3470	3990	2780	3070	2890	2580	3230	2560	1850	2510	2290	2980	2830	1010	2100	1380	1260	2880
	SELENIUM	1500		0.43			0.8								0.64			0.65				1.9	1.5	
	SILVER	1500	0.64	117											0.2									
	SODIUM	-	389		125	79.2	59.7	59.5	78	80.3	75.5	49	78.1	56.9	29.8	44.8	65.4	47.6	52	64.4	74.5	84.6	109	70.9
	VANADIUM	-	25.3	83.7	18.7	18	27.3	29.9	22.6	24.8	23.8	26.3	26.7	26.8	15.7	23.8	23.1	27.3	22.6	9	17.9	29	31.6	23.2
	ZINC	10000	190	18300	52	117	245	103	120	109	123	96.8	139	349	107	66.7	83	88.5	93.3	30.2	302	253	210	152
	MERCURY	2.8	0.046	0.024	0.014	0.16	0.51	0.21	0.2	0.22	0.21	0.093	0.15	0.054	0.13	0.02	0.042	0.04	0.35	0.025	0.22	0.16	0.66	0.03
SVOCs	*ACENAPHTHENE*	*500000*							*170*								*84*						*320*	
	ACENAPHTHYLENE	*500000*				*130*	*48*		*180*	*220*	*290*	*89*	*320*	*78*	*490*		*59*	*56*	*34*	*34*		*530*	*340*	
	ANTHRACENE	*500000*	*71*			*99*			*330*			*91*	*530*	*71*	*590*		*300*					*1100*	*870*	
	BENZO(A)ANTHRACENE	*5600*	*260*	*270*		*400*	*180*	*31*	*910*	*620*	*920*	*630*	*2400*	*340*	*2200*	*100*	*770*	*130*	*240*	*140*	*320*	*3500*	*2600*	*46*
	BENZO(A)PYRENE	*1000*	*230*	*280*		*440*	*190*	*33*	*940*	*680*	*930*	*580*	*2300*	*380*	*1800*	*77*	*740*	*150*	*230*	*130*	*370*	*3300*	*2300*	*51*
	BENZO(B)FLUORANTHENE	*5600*	*330*	*380*	*300*	*600*	*290*	*40*	*1300*	*980*	*1300*	*950*	*3200*	*530*	*2500*	*120*	*970*	*230*	*320*	*180*	*560*	*4700*	*3200*	*73*
	BENZO(G,H,I)PERYLENE	*500000*	*200*	*230*	*190*	*320*	*150*	*28*	*700*	*500*	*670*	*430*	*1600*	*290*	*990*	*47*	*460*	*110*	*170*	*78*	*240*	*2000*	*1300*	*33*
	BENZO(K)FLUORANTHENE	*5600*	*130*	*190*		*280*	*95*		*490*	*380*	*510*	*370*	*1400*	*250*	*1100*		*490*	*93*	*140*	*83*			*1200*	*26*
	CHRYSENE	*56000*	*300*	*310*		*490*	*210*		*1000*	*720*	*1100*	*710*	*2900*	*450*	*2200*	*98*	*860*	*170*	*300*	*160*	*420*	*4000*	*2900*	*53*
	DIBENZ(A,H)ANTHRACENE	*560*				*89*			*200*			*130*					*130*			*34*				
	FLUORANTHENE	*500000*	*460*	*540*	*390*	*910*	*420*	*66*	*2300*	*1400*	*2100*	*1200*	*6000*	*930*	*5300*	*200*	*1600*	*310*	*490*	*300*	*550*	*8900*	*6200*	*100*
	FLUORENE	*500000*				*35*							*200*	*33*	*260*		*89*						*310*	
	NAPHTHALENE	*500000*	*50*			*27*								*29*			*74*	*74*	*74*	*74*	*74*			
	PENTACHLOROPHENOL	*6700*																						
	PHENANTHRENE	*500000*	*410*	*270*	*280*	*430*	*220*	*43*	*1500*	*660*	*1200*	*400*	*3700*	*610*	*2800*	*130*	*1100*	*150*	*210*	*200*	*240*	*5600*	*3800*	*51*
	PHENOL	*500*																						
	PYRENE	*500000*	*440*	*460*	*310*	*790*	*360*	*58*	*1900*	*1100*	*1800*	*1200*	*5500*	*820*	*3700*	*140*	*1200*	*250*	*480*	*240*	*460*	*5900*	*4400*	*80*
	Total PAH	*500000*	*3102*	*3140*	*1470*	*5398*	*2329*	*328*	*12570*	*7740*	*11460*	*7256*	*31910*	*5142*	*25080*	*962*	*9472*	*1857*	*2838*	*1758*	*3484*	*42040*	*31190*	*545*
	Sample Depth (ft)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Italicized indicates parts per billion.
Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Sidewall Samples

	Sample Name	Commercial Standard	S1024	S1025	S1026	S1027	S1028	S1029	S1030	S1031	S1032	S1033	S1034	S1035	S1036	S1037	S1038	S1039	S1040	S1041	S1042	S1043	S1045	S1046
Metals	ALUMINUM	-	10000	6620	7340	6620	4850	6520	11900	17500	11200	13400	15900	12400	14200	11800	9700	8310	13400	11900	12200	4540	10300	9500
	ANTIMONY	-	3.2	11	7.7	7.4	13.2	9.4	8.3	2.4	7	3.3						5.5					10.2	5.9
	ARSENIC	16	66.5	31	19.8	21.9	21.6	16.8	13.2	15.1	22.7	13	18.3	11.9	14.8	12.7	26.6	41.6	19.2	18.7	18	15.3	22.4	31.4
	BARIUM	400	94.5	101	82.2	96.8	113	78.7	104	116	97.1	93.5	136	75	90.5	97.2	99.3	54.5	140	98.2	91.8	46.3	134	112
	BERYLLIUM	590	0.72	0.62	0.72	0.78	0.77	0.59	0.83	1	0.83	0.92	0.97	0.56	0.65	0.68	0.54	0.51	0.81	0.67	0.68	0.26	0.76	0.64
	CADMIUM	9.3	0.42		0.11	0.38	0.38	0.27			0.23		0.15		0.12	0.051	0.4	0.84	0.44	0.18	0.14	0.19		0.061
	CALCIUM	-	17300	10700	5310	3520	4340	5510	2910	2400	6620	2040	3860	2740	2630	6570	8450	42700	3750	3970	5060	189000	2530	9780
	CHROMIUM, TOTAL	-	31	35.7	16.7	14.9	15.3	14.4	19.8	23.4	20.4	20.2	23.1	17.8	23.2	19.7	25.3	14.7	30.2	19.8	21.6	15.9	45.2	30
	COBALT	-	13	13.3	10.2	8.5	9.8	7.7	10.9	17.9	12	12.3	13.3	9.2	11.3	9.7	8.3	8.8	12	10.5	11	3.7	17.2	10.4
	COPPER	270	94.4	107	230	383	236	222	69.3	50.2	130	44.1	114	45.6	243	123	123	103	881	69.7	68.7	103	152	155
	IRON	-	42600	131000	43500	37000	39400	28800	40600	32000	39000	39800	32600	28900	34100	30400	24300	23300	34300	32200	33700	19800	160000	70500
	LEAD	1000	238	326	421	346	713	437	191	57.1	402	57.3	245	110	265	178	502	9000	310	133	139	152	117	260
	MAGNESIUM	10000	4740	1940	1930	1040	813	1960	4180	4920	3250	4710	4470	3960	5600	4130	3450	5180	3900	3920	3970	5350	2840	3010
	MANGANESE	-	652	896	411	259	304	342	908	941	580	911	566	426	617	585	409	368	651	605	532	226	1290	722
	NICKEL	310	30.7	32.6	23.9	21.8	20.7	21	27.4	33.9	27.3	30.7	30.7	23.3	30.5	25.6	22.2	27.3	27.2	25.6	26	10.6	70.2	29.8
	POTASSIUM	-	2390	1410	1490	1220	892	1480	2360	3890	2680	2930	3340	2140	2380	2190	1960	2130	2820	2670	2860	1460	2100	2030
	SELENIUM	1500	0.62	2	1.2	2.2	2.8	1	0.7		1.6		0.61											0.65
	SILVER	1500																0.28						
	SODIUM	-	62.5	93.6	57	79.9	49.9	42.4	34.3	47.3	83.1	29.5	81.2	47.4	46.7	65.1	54.5	93.1	60.9	45.9	63.2	130	69.6	143
	VANADIUM	-	27.2	27	19.6	19.7	17.7	19	25.2	34	27.9	28.8	32.4	22	29.2	22.2	21.4	20.3	27.7	23.6	25.6	10	30.4	25.1
	ZINC	10000	197	195	326	209	168	155	114	113	163	99.8	160	71.8	156	109	135	359	454	122	117	96.9	772	188
	MERCURY	2.8	0.091	0.17	0.2	0.27	0.25	0.2	0.081	0.18	0.17	0.027	0.29	0.22	0.88	0.13	0.17	0.34	0.18	0.16	0.13	0.087	0.057	0.18
SVOCs	*ACENAPHTHENE*	*500000*		*310*								*28*							*300*			*250*	*950*	
	ACENAPHTHYLENE	*500000*	*1000*		*390*	*3500*	*3800*	*4100*	*260*		*3200*	*54*		*73*	*220*					*200*		*280*	*540*	
	ANTHRACENE	*500000*	*920*	*750*	*570*	*1800*	*2500*	*1700*	*400*		*1200*	*89*	*76*	*61*	*220*	*310*			*730*		*250*	*1000*	*2800*	
	BENZO(A)ANTHRACENE	*5600*	*2600*	*2300*	*1500*	*11000*	*14000*	*14000*	*1800*		*7300*	*320*	*230*	*270*	*830*	*820*	*1300*		*2000*	*700*	*790*	*2400*	*7600*	*610*
	BENZO(A)PYRENE	*1000*	*2700*	*2000*	*1300*	*9000*	*12000*	*11000*	*1200*		*6900*	*310*	*210*	*260*	*710*	*630*	*1100*	*280*	*1700*	*620*	*720*	*2200*	*6400*	*600*
	BENZO(B)FLUORANTHENE	*5600*	*3500*	*2500*	*1900*	*18000*	*20000*	*18000*	*1900*		*12000*	*470*	*360*	*410*	*1000*	*1000*	*1600*	*460*	*2100*	*860*	*1000*	*2800*	*8000*	*760*
	BENZO(G,H,I)PERYLENE	*500000*	*1400*	*880*	*600*	*4100*	*4500*	*4600*	*420*		*2800*	*140*	*190*	*210*	*580*	*470*	*780*	*230*	*1200*	*470*	*570*	*1300*	*4300*	*390*
	BENZO(K)FLUORANTHENE	*5600*	*1600*	*960*	*750*	*6600*	*8900*	*9400*	*840*		*6300*	*200*	*110*	*160*	*510*	*380*	*690*	*160*	*1200*	*470*	*370*	*1200*	*3700*	*300*
	CHRYSENE	*56000*	*2700*	*2500*	*1700*	*14000*	*15000*	*14000*	*1900*		*8100*	*340*	*340*	*320*	*830*	*940*	*1300*		*2100*	*780*	*960*	*2800*	*7900*	*690*
	DIBENZ(A,H)ANTHRACENE	*560*	*540*			*1600*		*2000*																
	FLUORANTHENE	*500000*	*6700*	*5300*	*3700*	*24000*	*28000*	*27000*	*3800*		*11000*	*610*	*460*	*570*	*1900*	*1700*	*2700*	*590*	*4600*	*1200*	*1500*	*4700*	*14000*	*1100*
	FLUORENE	*500000*	*450*	*320*	*180*	*280*	*700*					*45*	*31*			*130*			*300*			*370*	*950*	
	NAPHTHALENE	*500000*					*460*					*58*							*340*			*310*	*650*	
	PENTACHLOROPHENOL	*6700*																						
	PHENANTHRENE	*500000*	*4100*	*3700*	*2000*	*3400*	*5900*	*4600*	*1000*		*1700*	*390*	*460*	*220*	*1100*	*1500*	*1700*		*4000*	*530*	*1100*	*3600*	*12000*	*580*
	PHENOL	*500*																						
	PYRENE	*500000*	*4100*	*4100*	*2200*	*19000*	*20000*	*20000*	*2500*		*8300*	*410*	*360*	*480*	*1400*	*1400*	*2200*	*440*	*3500*	*1100*	*1500*	*4300*	*14000*	*840*
	Total PAH	*500000*	*34510*	*26490*	*17630*	*121790*	*141640*	*136590*	*16600*	*0*	*72510*	*3628*	*3035*	*3214*	*9930*	*9870*	*14060*	*2370*	*25250*	*7370*	*9220*	*28770*	*87640*	*6330*
	Sample Depth (ft)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Italicized indicates parts per billion.
Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Sidewall Samples

	Sample Name	Commercial Standard	S1047	S1048	S1049	S1050	S1051	S1052	S1054	S1055	S1056	S1057	S1058	S1058B	S1059	S1059B	S1060	S1060B	S1061	S1062	S1063	S1064	S1065	S1066
Metals	ALUMINUM	-	11400	12000	5810	6560	9300	9950	15000	10900	10800	12900	10800		12600		11700		12000	5740	5710	4490	5370	6210
	ANTIMONY	-																			2.9			
	ARSENIC	16	15.3	15.6	7.6	9.4	13.3	22	24.7	15.1	15.9	43.7	22.2		20		21.1		23.7	8	7.6	5.1	6	10.5
	BARIUM	400	102	112	37.4	45.8	107	111	113	95.2	97.9	121	107		119		128		200	42.3	41.3	34.7	38.6	49.2
	BERYLLIUM	590	0.6	0.62	0.3	0.34	0.48	0.51	0.7	0.61	0.58	0.66	0.6		0.71		0.66		0.71	0.41	0.3	0.25	0.33	0.33
	CADMIUM	9.3	0.24	0.25	0.13	0.13	0.18	0.12	0.099	0.76	0.17	0.36	0.26		0.36		0.39		0.69	0.043	0.046	0.071	0.049	0.065
	CALCIUM	-	45300	33300	153000	135000	45600	32000	11200	21000	13400	38100	15200		7290		24700		17100	12700	16000	22100	16700	26100
	CHROMIUM, TOTAL	-	19	23	14.9	13.3	15	17.9	23.1	81.7	22.6	21.7	21.1		28.7		29.8		36.5	8.5	8.5	5.9	7.9	8.8
	COBALT	-	8.2	9.9	3.8	4.5	6.7	8	11.4	11.4	8.1	8.8	7.7		10.4		9.6		8.8	4.2	3.9	2.8	3.6	5.1
	COPPER	270	66.6	67.2	20.1	26.6	41.3	70.3	66.2	836	76.7	136	140		189		678		865	29.5	36.6	18.7	24.7	30.9
	IRON	-	24400	33400	17000	16000	21900	39500	39800	70100	23500	29500	28200		32400		31900		30800	15000	14000	10700	12500	17500
	LEAD	1000	123	145	37.2	56	121	277	120	1610	133	473	676		565		832		506	141	150	79.5	107	128
	MAGNESIUM	10000	6060	5110	13300	6810	6630	5820	4190	4070	4870	5720	4020		3940		7400		5880	2990	2920	2450	2780	3370
	MANGANESE	-	486	525	234	260	461	520	561	699	760	453	410		532		540		508	347	348	244	306	341
	NICKEL	310	20.1	23.7	10.8	12.3	16.7	19.8	29.3	67.7	18.2	21.9	19		25.9		23.2		21	10	8.7	6.1	8.5	10.7
	POTASSIUM	-	2690	2910	1980	1840	2170	1990	2410	1770	2350	2490	2470		2680		2520		2330	1360	1320	1000	1230	1310
	SELENIUM	1500							0.74				0.68											
	SILVER	1500																						
	SODIUM	-	101	102	145	137	82.6	85.9	78.7	75.5	92.2	226	253		105		164		203	65.8	59.8	62.6	67.7	74.6
	VANADIUM	-	24.8	25.3	11.9	13.2	18.7	20.3	23.6	25.8	23.9	24.2	21.3		25.6		23.6		28.8	12.9	11.4	9.4	11.8	11.9
	ZINC	10000	129	153	45.6	55.3	83.6	110	112	410	179	233	156		191		299		440	63.8	59.9	46.6	55	70.5
	MERCURY	2.8	0.16	0.22	0.045	0.061	0.13	0.22	0.11	0.23	0.069	0.14	0.16		0.25		0.33		0.22	0.042	0.037	0.031	0.032	0.067
SVOCs	*ACENAPHTHENE*	*500000*	*1500*						*460*	*21000*	*2500*	*280*	*3500*	*3600*	*6300*	*6200*	*2900*	*2800*	*4000*	*190*	*3400*	*610*	*180*	*600*
	ACENAPHTHYLENE	*500000*							*320*	*1500*		*940*	*1100*	*990*	*720*	*630*	*730*	*600*	*1600*	*270*	*230*	*220*	*180*	
	ANTHRACENE	*500000*	*3500*						*1200*	*44000*	*6300*	*1200*	*9200*	*9300*	*14000*	*14000*	*8000*	*7900*	*11000*	*700*	*8200*	*2000*	*560*	*2200*
	BENZO(A)ANTHRACENE	*5600*	*6800*			*480*	*1200*	*320*	*3200*	*81000*	*11000*	*4200*	*18000*	*18000*	*20000*	*22000*	*15000*	*15000*	*23000*	*2100*	*11000*	*4000*	*1600*	*4200*
	BENZO(A)PYRENE	*1000*	*5900*	*310*	*1600*	*430*	*1200*	*370*	*2900*	*69000*	*9500*	*3900*	*14000*	*15000*	*17000*	*18000*	*11000*	*12000*	*20000*	*2000*	*8700*	*3400*	*1500*	*2300*
	BENZO(B)FLUORANTHENE	*5600*	*7500*	*380*	*2200*	*810*	*1800*	*560*	*3800*	*88000*	*12000*	*5800*	*19000*	*19000*	*21000*	*25000*	*14000*	*15000*	*27000*	*2800*	*12000*	*4800*	*1800*	*4300*
	BENZO(G,H,I)PERYLENE	*500000*	*3700*		*1100*	*410*	*860*	*240*	*2200*	*44000*	*6500*	*2900*	*8200*	*10000*	*8000*	*13000*	*5600*	*8500*	*10000*	*1200*	*4400*	*2200*	*940*	*2300*
	BENZO(K)FLUORANTHENE	*5600*	*3400*		*1000*		*570*		*1900*	*40000*	*6000*	*2600*	*9600*	*11000*	*11000*	*10000*	*7900*	*8300*	*12000*	*980*	*4200*	*1700*	*980*	*2400*
	CHRYSENE	*56000*	*7400*			*560*	*1400*	*420*	*3500*	*81000*	*11000*	*4400*	*18000*	*18000*	*20000*	*22000*	*14000*	*14000*	*24000*	*2200*	*11000*	*4100*	*1700*	*4100*
	DIBENZ(A,H)ANTHRACENE	*560*								*14000*									*3900*	*390*				
	FLUORANTHENE	*500000*	*16000*	*570*	*4200*	*770*	*2800*	*550*	*7500*	*210000*	*30000*	*9200*	*38000*	*43000*	*44000*	*52000*	*31000*	*35000*	*52000*	*5000*	*27000*	*9300*	*3300*	*9500*
	FLUORENE	*500000*	*1800*						*450*	*20000*	*2300*	*340*	*3600*	*3600*	*6700*	*7000*	*3000*	*2900*	*4500*	*230*	*3900*	*960*	*270*	*850*
	NAPHTHALENE	*500000*	*1400*					*74*		*22000*	*2400*	*190*	*3100*	*3100*	*9800*	*10000*	*2700*	*2600*	*4000*		*1400*	*780*		
	PENTACHLOROPHENOL	*6700*																						
	PHENANTHRENE	*500000*	*17000*	*440*	*3400*		*1900*	*240*	*5600*	*200000*	*28000*	*4700*	*32000*	*36000*	*43000*	*52000*	*28000*	*31000*	*45000*	*2800*	*27000*	*9000*	*2300*	*8700*
	PHENOL	*500*													*220*									
	PYRENE	*500000*	*14000*	*520*	*3200*	*630*	*2300*	*460*	*6300*	*160000*	*22000*	*7100*	*29000*	*34000*	*33000*	*42000*	*23000*	*28000*	*40000*	*3700*	*20000*	*7100*	*2700*	*7800*
	Total PAH	*500000*	*94100*	*2220*	*17700*	*4360*	*14670*	*3484*	*41500*	*1144500*	*156700*	*50830*	*216200*	*235490*	*264120*	*307030*	*173930*	*192600*	*294900*	*25760*	*146630*	*52760*	*18930*	*51660*
	Sample Depth (ft)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Italicized indicates parts per billion.
Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Sidewall Samples

	Sample Name	Commercial Standard	S1067	S1068	S1069	S1070	S1071	S1072	S1073	S1074	S1075	S1076	S1077	S1078	S1079	S1080	S1081	S1081B	S1082	S1083	S1084	S1085	S1086	S1087
Metals	ALUMINUM	-	9650	6210	10900	10800	10700	8330	7260	3670	9430	6260	6250	6660	4510	7700	9570	12100	7060	3320	8070	8320	9660	7480
	ANTIMONY	-					0.69	14.3						3.7										
	ARSENIC	16	10.4	6.2	14.8	33.8	16.1	15	11.9	11	17.3	11.7	9	13.4	5.7	14	47.3	43.4	11.5	19.7	14.7	21.7	20.1	25
	BARIUM	400	90.6	53.2	1270	111	135	129	85.7	43.9	141	84.7	50.6	70.9	42	88.9	118	125	72.3	73.4	82.8	131	108	320
	BERYLLIUM	590	0.46	0.33	0.53	0.48	0.54	0.49	0.4	0.39	0.59	0.38	0.36	0.45	0.28	0.55	0.83	0.95	0.48	0.57	0.71	0.8	0.71	0.78
	CADMIUM	9.3	0.26	0.084	0.39	0.24	0.39	0.41	0.2	0.055	0.45	0.28	0.11	0.33	0.11	1.2	0.95	1.1	0.12	0.079	0.097	2.1	0.4	0.92
	CALCIUM	-	23800	24000	12800	10500	14100	19900	72900	42800	31700	80600	60600	83600	83600	41700	12200	25000	2780	2360	1800	11600	4180	7360
	CHROMIUM, TOTAL	-	21.2	9.4	18	20.6	22.7	20.5	29.7	10.7	40.6	32.3	15.8	18.5	11.7	18.8	28.3	30.6	14.6	8.4	13.3	16.7	19.5	24
	COBALT	-	6.9	4	7.9	9.9	9.5	7.6	6.1	5.1	11.3	6.2	4.3	5.3	3.6	7.3	11.1	7.9	6.8	4.4	8.9	7.9	10.7	8.1
	COPPER	270	54	26.5	62.5	63.5	123	106	144	95.1	248	158	61.3	75.1	42.9	104	377	344	61.7	107	111	558	171	617
	IRON	-	21400	14500	24900	40700	41900	31900	29700	24100	60900	34400	18300	22600	13400	25700	41400	30300	19000	13600	20800	27700	34800	33700
	LEAD	1000	149	96.8	342	270	513	400	2500	1660	1150	1550	522	33700	356	774	649	679	680	210	168	647	401	758
	MAGNESIUM	10000	4640	3570	5670	3340	4470	3890	20100	11800	8490	16500	6040	471	9780	14400	3220	4560	2160	490	1770	2910	2910	1770
	MANGANESE	-	433	297	707	780	525	534	571	299	680	522	265	22.6	300	440	463	392	315	56.2	252	376	501	325
	NICKEL	310	17.9	9.2	19.9	28.1	24.3	20.6	26	13.3	44	25	13.1	1910	11	27.4	29.4	22.1	17.1	8.9	19.1	23.2	24	18.7
	POTASSIUM	-	1840	1220	1740	1830	2080	1770	1540	846	2260	1680	1570		1380	1950	1620	1610	1700	568	1660	1470	2300	1590
	SELENIUM	1500												0.38			2.2	0.53	1.2	4.8	1.8	1.4	0.63	0.83
	SILVER	1500					0.28	0.24			0.41	0.25		180			0.24							0.62
	SODIUM	-	62.9	134	62.9	48.6	65.8	69.7	420	99.4	227	248	227		145	109	125	511	76.2	102	74.3	97.9	57.3	108
	VANADIUM	-	18.4	12.7	19.6	20.8	20.9	18.1	18	11.9	25.2	19.3	15.7	119	12.9	20	28.2	30.4	18.9	14.6	22.4	18.4	22.6	23.5
	ZINC	10000	114	71.8	238	174	219	194	178	55	497	274	72.1	13000	62.9	366	451	480	111	22.3	76.4	1530	231	335
	MERCURY	2.8	0.078	0.07	0.14	0.12	0.19	0.21	0.062	0.14	0.14	0.12	0.054	0.095	0.046	0.14	0.29	0.27	0.069	0.13	0.43	0.31	0.48	0.39
SVOCs	*ACENAPHTHENE*	*500000*	*230*	*500*	*4500*	*560*	*810*	*25000*	*420*			*480*	*140*		*230*		*10000*	*5600*	*150*			*2600*	*2500*	*8300*
	ACENAPHTHYLENE	*500000*	*290*	*310*	*1100*	*660*	*830*	*1500*	*270*			*410*	*240*	*1100*	*200*	*460*	*5400*	*6000*				*790*	*680*	*2600*
	ANTHRACENE	*500000*	*840*	*2000*	*11000*	*2500*	*3100*	*45000*	*1000*	*360*		*1600*	*450*	*650*	*650*	*410*	*32000*	*19000*	*340*		*50*	*6700*	*6700*	*24000*
	BENZO(A)ANTHRACENE	*5600*	*2900*	*5500*	*21000*	*7000*	*8600*	*74000*	*2700*	*1200*	*1600*	*3400*	*1200*	*2300*	*1400*	*1300*	*73000*	*48000*	*900*	*43*	*240*	*16000*	*13000*	*62000*
	BENZO(A)PYRENE	*1000*	*2600*	*4900*	*17000*	*6500*	*7400*	*55000*	*2400*	*1100*	*1500*	*3100*	*1200*	*2600*	*1300*	*1400*	*56000*	*42000*	*840*		*210*	*15000*	*11000*	*50000*
	BENZO(B)FLUORANTHENE	*5600*	*3200*	*5600*	*21000*	*7700*	*11000*	*74000*	*3300*	*1200*	*1900*	*4300*	*1700*	*3800*	*1900*	*2700*	*75000*	*49000*	*1100*	*140*	*350*	*19000*	*16000*	*68000*
	BENZO(G,H,I)PERYLENE	*500000*	*1800*	*3000*	*11000*	*4400*	*5200*	*29000*	*1700*	*770*	*1100*	*1700*	*730*	*1600*	*780*	*1000*	*24000*	*21000*	*520*	*51*	*90*	*4300*	*7700*	*32000*
	BENZO(K)FLUORANTHENE	*5600*	*1700*	*3000*	*9600*	*4100*	*4100*	*26000*	*1700*	*660*	*970*	*1700*	*560*	*1200*	*600*	*930*	*29000*	*27000*	*530*	*37*	*120*	*11000*	*6300*	*30000*
	CHRYSENE	*56000*	*2800*	*5400*	*21000*	*7000*	*9100*	*67000*	*2800*	*1300*	*1800*	*3700*	*1200*	*2600*	*1500*	*1900*	*69000*	*50000*	*1000*	*130*	*330*	*17000*	*13000*	*59000*
	DIBENZ(A,H)ANTHRACENE	*560*					*1800*	*9600*		*250*														
	FLUORANTHENE	*500000*	*5300*	*12000*	*46000*	*15000*	*18000*	*150000*	*5900*	*2500*	*2800*	*8200*	*2600*	*4200*	*3300*	*2700*	*160000*	*110000*	*1900*	*110*	*470*	*36000*	*29000*	*130000*
	FLUORENE	*500000*	*280*	*590*	*5600*	*860*	*890*	*24000*	*360*	*110*		*580*	*130*		*220*		*15000*	*7700*	*160*			*2900*	*3000*	*10000*
	NAPHTHALENE	*500000*		*260*	*3300*	*500*		*63000*	*270*			*460*			*210*		*7500*		*130*		*98*	*2000*	*2400*	*7400*
	PENTACHLOROPHENOL	*6700*																						
	PHENANTHRENE	*500000*	*3400*	*7200*	*49000*	*11000*	*12000*	*150000*	*4200*	*1800*	*1800*	*6400*	*1700*	*1600*	*2600*	*1200*	*150000*	*89000*	*1600*	*96*	*300*	*31000*	*26000*	*100000*
	PHENOL	*500*						*2300*																
	PYRENE	*500000*	*4500*	*9500*	*37000*	*12000*	*15000*	*120000*	*4900*	*2400*	*2500*	*6300*	*2100*	*3600*	*2600*	*2200*	*140000*	*93000*	*1700*	*70*	*380*	*28000*	*23000*	*110000*
	Total PAH	*500000*	*31600*	*62580*	*268500*	*84220*	*103120*	*943100*	*33610*	*14470*	*17070*	*44360*	*14740*	*26850*	*18330*	*17440*	*874900*	*591500*	*11350*	*718*	*2725*	*198190*	*168680*	*726000*
	Sample Depth (ft)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Italicized indicates parts per billion.
Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Sidewall Samples

	Sample Name	Commercial Standard	S1088	S1089	S1090	S1091	S1092	S1093	S1094	S1095	S1096	S1097	S1098	S1099	S1100	S1102	S1103	S1104	S1105	S1106	S1107	S1108	S1109	S1110
Metals	ALUMINUM	-	8140	5610	3180	9260	7190	8420	8220	5170	6150	6270	6300	6110	5210	5270	3970	9710	6380	3430	6660	7480	5620	7590
	ANTIMONY	-																		26.1	3.6	7.5	1.6	0.51
	ARSENIC	16	13.3	13.6	13.3	13.9	17	13.6	16.3	6.9	9.2	16.9	5.9	6.5	54.1	10.6	5.8	25.1	18.3	9.4	89.1	32.2	9.4	15.9
	BARIUM	400	86	117	98.2	83.6	71.6	102	83.3	749	2330	1370	314	713	189	105	82.1	120	102	124	347	824	77.7	140
	BERYLLIUM	590	0.5	0.46	0.68	0.53	0.49	0.61	0.52	0.29	0.3	0.4	0.33	0.34	0.67	0.41	0.28	0.57	0.42	0.21	0.5	0.51	0.36	0.45
	CADMIUM	9.3	0.42		0.15	0.34	0.43	0.93	0.18	0.5	0.51	1.3	0.4	0.75	1.6	3.6	1.7	4.2	2.8		0.93	5.2	1.4	0.54
	CALCIUM	-	34400	23300	11200	50400	51300	35400	9940	54000	54000	74700	90600	83600	19500	74000	178000	15700	19000	84500	67600	43100	60100	15400
	CHROMIUM, TOTAL	-	16.2	64.4	58.8	22.9	38.8	25.2	19.9	13.4	14	9.4	8.3	8	32	30.8	13.9	18	23.9	72	53.7	85.7	46.9	19.7
	COBALT	-	6.2	8.6	9.7	7.8	7.9	7.7	9.1	3.9	4.3	5.1	3.7	3.8	8.3	6.4	4.4	10.2	6	10.3	11	14.3	4.8	6.5
	COPPER	270	93.1	206	608	68.7	178	91.3	171	21.1	18.1	59	23.1	15.1	166	193	77	147	97.1	208	204	577	250	92.1
	IRON	-	20100	153000	106000	28300	44600	32200	41600	10200	11400	13000	11100	9450	57400	33900	21200	54900	27500	141000	122000	98600	31300	35400
	LEAD	1000	225	440	1880	849	1300	729	316	30.7	57	61.4	46.5	102	397	355	178	335	232	73100	5970	7710	5510	557
	MAGNESIUM	10000	3520	2250	718	6550	3230	5540	2590	3620	4400	5760	6200	6190	2350	4810	5410	5130	4230	4160	6040	4280	6830	3250
	MANGANESE	-	341	1020	522	556	571	433	547	244	262	277	251	250	332	341	292	1080	449	1190	817	974	306	678
	NICKEL	310	15	56	41.1	23.8	38.3	25.2	34.8	12	12.9	14.1	11.5	10.2	31.9	20.8	13.5	26.2	19	56.8	54.2	102	19.9	17.3
	POTASSIUM	-	2020	1120	637	2230	1320	1500	1360	1510	1510	1580	1500	1490	1030	1160	936	1720	1580	778	1500	1390	1330	1160
	SELENIUM	1500		1.1	1.5				0.61						2.1						1.2	0.67		
	SILVER	1500			1.5		0.31		0.31						0.34					3.2	0.81	1.1	0.31	
	SODIUM	-	139	158	89.5	109	97.1	162	87.2	225	359	398	485	444	157	108	117	74.6	111	136	494	197	116	72
	VANADIUM	-	19.1	28.7	18.7	21.4	19.1	19.2	23.3	26.3	30.9	40.3	20.3	34.5	29.2	13.9	10	21.7	19.3	11.7	22.4	29.4	15.4	21
	ZINC	10000	195	163	216	149	141	134	136	500	1160	1170	242	513	283	571	256	593	478	212	372	926	212	240
	MERCURY	2.8	0.15	0.14	0.11	0.2	0.31	0.2	0.27	1.1	0.71	1.4	1	1.7	1.6	0.26	0.3	0.45	0.57	0.2	0.26	0.74	0.14	0.16
SVOCs	*ACENAPHTHENE*	*500000*	*890*												*4300*									*2100*
	ACENAPHTHYLENE	*500000*	*1400*			*290*	*1300*		*250*						*1600*	*42*			*390*			*680*	*390*	*1000*
	ANTHRACENE	*500000*	*3600*				*860*		*250*						*13000*	*69*	*490*	*520*	*690*			*1700*		*6400*
	BENZO(A)ANTHRACENE	*5600*	*9900*	*570*		*810*	*3800*	*1700*	*1000*	*40000*	*15000*	*4600*	*1400*	*770*	*34000*	*180*	*840*	*2400*	*2900*	*2100*	*880*	*8700*	*1900*	*14000*
	BENZO(A)PYRENE	*1000*	*8400*	*620*		*830*	*4000*	*1500*	*1100*	*34000*	*10000*	*4700*	*1200*	*640*	*28000*	*200*	*840*	*2200*	*2700*	*2700*	*870*	*7800*	*1800*	*12000*
	BENZO(B)FLUORANTHENE	*5600*	*11000*	*900*		*1200*	*6000*	*2100*	*1600*	*56000*	*17000*	*6700*	*1400*	*840*	*36000*	*320*	*1000*	*2800*	*3500*	*3900*	*1200*	*9700*	*2500*	*15000*
	BENZO(G,H,I)PERYLENE	*500000*	*5100*	*400*		*450*	*2700*	*960*	*790*	*23000*	*6000*	*3800*	*810*	*510*	*13000*	*120*	*640*	*1700*	*1900*	*2100*	*750*	*5000*	*1400*	*8100*
	BENZO(K)FLUORANTHENE	*5600*	*5100*	*440*		*580*	*3200*	*620*	*620*	*19000*	*5800*	*3200*	*710*	*420*	*15000*		*440*	*1200*	*1300*	*1500*	*580*	*4600*	*820*	*6000*
	CHRYSENE	*56000*	*9800*	*610*		*950*	*4800*		*1400*	*47000*	*14000*	*6100*	*1600*	*840*	*38000*	*250*	*930*	*2800*	*3200*	*2500*	*810*	*9900*	*2100*	*14000*
	DIBENZ(A,H)ANTHRACENE	*560*	*1600*												*5200*									
	FLUORANTHENE	*500000*	*20000*	*920*		*1600*	*6400*	*2400*	*1800*	*80000*	*26000*	*9900*	*2500*	*1400*	*66000*	*380*	*2100*	*4200*	*4900*	*3300*	*1100*	*13000*	*3400*	*31000*
	FLUORENE	*500000*	*1500*												*6500*							*550*		*2700*
	NAPHTHALENE	*500000*	*1400*												*10000*									*940*
	PENTACHLOROPHENOL	*6700*																						
	PHENANTHRENE	*500000*	*13000*	*460*		*820*	*1600*	*1300*	*910*	*60000*	*19000*	*7100*	*2100*	*1100*	*66000*	*240*	*1900*	*2500*	*2800*	*1100*		*6700*	*1700*	*25000*
	PHENOL	*500*																						
	PYRENE	*500000*	*15000*	*750*		*1300*	*6500*	*2400*	*1600*	*77000*	*23000*	*9200*	*2600*	*1300*	*63000*	*280*	*1900*	*4000*	*4800*	*3200*	*1100*	*13000*	*3100*	*26000*
	Total PAH	*500000*	*113200*	*5670*	*0*	*8830*	*41500*	*12980*	*11320*	*444800*	*135800*	*55300*	*14320*	*7820*	*416400*	*2237*	*11610*	*25620*	*30580*	*24200*	*7830*	*86540*	*19110*	*172540*
	Sample Depth (ft)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Italicized indicates parts per billion.
Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Sidewall Samples

	Sample Name	Commercial Standard	S1111	S1112	S1113	S1114	S1115	S1116	S1118	S1119	S1120	S1121	S1122	S1123	S1124	S1125	S1126	S1127	S1128	S1129	S1130	S1131	S1132	S1133
Metals	ALUMINUM	-	1740	2200	8280	16700	13300	11200	11300	13200	6870	7990	7860	4020	4510	4530	6030	8680	3780	5200	6860	2990	8990	12100
	ANTIMONY	-																		2.2			2.6	2.3
	ARSENIC	16	2.9	4	18.8	19.1	15.5	19.9	18.2	16	16.4	12.2	10.8	8.9	42.6	43.3	32.8	45.2	6.5	5.5	5.4	3.2	10.5	12.7
	BARIUM	400	14.1	16.8	128	136	114	83.2	70.5	150	196	88.2	59.4	114	62.4	72.5	81.5	131	48	131	71.2	18.4	63.5	76.4
	BERYLLIUM	590	0.13	0.16	0.52	0.76	0.5	0.51	0.51	0.51	0.38	0.52	0.5	0.3	0.37	0.47	0.52	0.4	0.24	0.35	0.4	0.16	0.62	0.65
	CADMIUM	9.3	0.087	0.083	0.39	0.16	0.19	0.18	0.09	0.2		0.39	0.19	0.35			0.34			1.4	0.11	0.14	0.29	
	CALCIUM	-	306000	181000	35600	1750	2950	7100	4030	3290	9700	53300	67600	102000	5310	5760	13900	22500	138000	146000	100000	225000	30000	2410
	CHROMIUM, TOTAL	-	4.7	7.1	23.2	18.8	17.3	17.5	14.6	16.6	32.9	22	14.4	237	113	83.7	58.4	215	44.2	43.5	36.3	17.8	18.4	18.9
	COBALT	-	1	2	7.5	12.2	7.9	8.1	7.8	8.6	11.7	7.6	5.9	3.8	13.1	12.1	11.7	17.8	4.8	4.6	6.7	2.5	9.2	9.6
	COPPER	270	6.5	16.4	111	31.2	52.6	39.2	32.9	29.1	67	93.4	47.5	31.6	274	199	272	424	77.1	92.2	67.4	24.2	198	38.2
	IRON	-	4450	10300	54100	39000	26000	24500	25700	27300	167000	52600	27200	23000	193000	163000	138000	227000	55400	46000	35700	18500	24800	29800
	LEAD	1000	80.4	165	847	68.9	117	193	174	141	405	5310	758	2420	1250	1080	1440	1750	10500	11400	2480	489	125	39.7
	MAGNESIUM	10000	8030	7560	3440	4350	3970	5470	3270	2770	2030	3790	13300	40500	1330	1940	1710	1870	5770	7090	7660	8240	5140	4170
	MANGANESE	-	86.9	183	832	2310	1110	818	863	1620	1390	644	517	504	1170	1120	956	1750	508	371	432	225	412	578
	NICKEL	310	3.8	6	19.8	22.8	19.1	17.8	17.4	15.6	27.6	25.5	18.2	11.5	96.9	82.2	60.4	121	48.1	55.7	30	14.4	27.3	24.6
	POTASSIUM	-	785	644	1350	1660	1510	1560	1750	1500	1030	1450	1320	921	672	893	1120	932	1110	2490	2090	999	2500	2940
	SELENIUM	1500																					0.75	
	SILVER	1500										0.44			1.2			1.3	0.5	0.54				
	SODIUM	-	166	144	87.9	35.5	43.3	52	52.1	98.7	91.8	97.8	90.8	141	60.4	67.9	74.2	131	148	274	218	149	92.9	43.8
	VANADIUM	-	4.3	6.4	22.2	31.8	25.6	22.1	22.3	27.7	25.3	21.1	16.5	13.5	12	18.1	22	18	11.5	13.3	17.7	8.1	23.6	25.1
	ZINC	10000	18	28	219	173	132	117	105	105	257	252	112	111	175	215	429	551	49.4	245	73.9	26.1	135	78.6
	MERCURY	2.8	0.012	0.01	0.16	0.075	0.093	0.11	0.069	0.071	0.18	0.078	0.043	0.031	0.17	0.11	0.27	0.63	0.035	0.03	0.034	0.023	0.061	0.04
SVOCs	*ACENAPHTHENE*	*500000*			*5400*								*960*	*2200*										*170*
	ACENAPHTHYLENE	*500000*			*890*	*100*	*200*					*970*		*1500*				*660*			*260*	*120*	*420*	
	ANTHRACENE	*500000*			*13000*	*69*						*850*	*2900*	*7900*			*1800*	*1000*						*440*
	BENZO(A)ANTHRACENE	*5600*	*60*	*130*	*26000*	*270*	*610*	*300*	*91*	*55*	*23000*	*2800*	*5200*	*13000*	*490*	*3800*	*5000*	*2500*	*300*		*450*	*260*	*1600*	*780*
	BENZO(A)PYRENE	*1000*	*61*	*140*	*21000*	*290*	*590*	*320*	*100*	*61*	*23000*	*3000*	*4500*	*12000*	*620*	*3300*	*4600*	*2200*	*290*		*570*	*250*	*1500*	*720*
	BENZO(B)FLUORANTHENE	*5600*	*86*	*200*	*29000*	*420*	*790*	*380*	*140*	*87*	*30000*	*4900*	*5300*	*14000*	*850*	*5100*	*5500*	*2700*	*440*	*380*	*810*	*430*	*2400*	*950*
	BENZO(G,H,I)PERYLENE	*500000*	*50*	*100*	*13000*	*160*	*320*	*180*	*58*	*43*	*12000*	*1500*	*2900*	*7900*	*560*	*2300*	*3300*	*1400*	*300*	*500*	*560*	*290*	*1100*	*400*
	BENZO(K)FLUORANTHENE	*5600*	*38*	*69*	*10000*	*150*		*200*	*47*	*43*		*2200*	*3000*	*7900*	*290*	*2500*	*2200*	*1400*	*240*		*390*	*230*	*840*	*420*
	CHRYSENE	*56000*	*69*	*160*	*26000*	*340*	*720*	*370*	*110*	*70*	*26000*	*3100*	*5100*	*13000*	*760*	*4100*	*6100*	*3400*	*390*		*580*	*310*	*1800*	*760*
	DIBENZ(A,H)ANTHRACENE	*560*				*59*						*600*	*950*										*390*	*170*
	FLUORANTHENE	*500000*	*99*	*200*	*58000*	*640*	*1200*	*610*	*160*	*110*	*54000*	*3600*	*11000*	*32000*	*1200*	*5800*	*9800*	*5500*	*380*	*350*	*700*	*280*	*3300*	*1600*
	FLUORENE	*500000*			*5400*	*24*						*150*	*1200*	*3300*			*860*	*550*						*240*
	NAPHTHALENE	*500000*			*1100*								*1000*	*4500*										*280*
	PENTACHLOROPHENOL	*6700*																						
	PHENANTHRENE	*500000*	*62*	*80*	*51000*	*340*	*520*	*330*	*83*	*56*	*36000*	*1200*	*9400*	*28000*	*590*	*3000*	*8600*	*5400*	*210*		*230*		*1600*	*1600*
	PHENOL	*500*																						
	PYRENE	*500000*	*96*	*210*	*46000*	*530*	*960*	*530*	*150*	*93*	*38000*	*3600*	*9100*	*23000*	*940*	*5000*	*9300*	*5000*	*360*	*340*	*660*	*250*	*3000*	*1400*
	Total PAH	*500000*	*621*	*1289*	*318590*	*3579*	*6280*	*3420*	*995*	*662*	*261100*	*30440*	*65550*	*179600*	*6300*	*34900*	*59460*	*33010*	*3190*	*1940*	*5720*	*2720*	*18900*	*10320*
	Sample Depth (ft)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Italicized indicates parts per billion.
Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Sidewall Samples

	Sample Name	Commercial Standard	S1134	S1135	S1136	S1137	S1138	S1139	S1140	S1141	S1142	S1143	S1144	S1145	S1146	S1147	S1148	S1149	S1150	S1151	S1152	S1153	S1154	S1155
Metals	ALUMINUM	-	10700	12000	14100	11100	10500	12500	13500	7580	11600	12100	10600	12300	9500	10400	7180	14700	9840	11700	8810	12400	12500	7050
	ANTIMONY	-	1.8	1.5	2.2	2.2	2.4	3.4	3.9	4														
	ARSENIC	16	10.3	17.9	14.4	10.1	17.4	14	18.7	13.9	16.4	18.6	12.7	17.8	15.4	16.7	19.6	25.3	13.7	27.4	36	27.7	14.6	22.9
	BARIUM	400	53	57	106	79.8	83.4	205	74.2	81.9	110	125	331	123	89.2	121	141	153	140	118	116	208	106	76.2
	BERYLLIUM	590	0.55	0.54	0.8	0.47	0.78	0.67	0.64	0.64	0.64	0.71	0.54	0.66	0.48	0.61	0.39	0.81	0.53	0.66	0.57	0.71	0.7	0.42
	CADMIUM	9.3	0.042		0.22	0.13		0.18			0.25	0.34	0.25	0.3	0.14	0.32	0.32	0.2	0.18	0.37	1.2	0.37	0.17	0.31
	CALCIUM	-	32100	70900	3670	5750	5310	43500	2350	6060	20600	26100	29300	12200	22100	52400	41700	10100	20500	4240	4980	19400	19700	67000
	CHROMIUM, TOTAL	-	14.8	18.4	20.6	15.6	20.5	20.4	21.1	13.2	21.7	20.7	16.4	18.4	13.4	18.4	34.4	40.9	19.7	25.6	42.8	24.4	19.3	25.2
	COBALT	-	8.9	7.9	11.5	7.7	9	8.5	13.6	7.5	9.4	10.6	7.5	9.7	7.1	8	5.9	12.3	7.4	10.7	13.2	10.1	9.6	8.1
	COPPER	270	25.8	27.3	120	27.4	40.9	1240	64	130	62.7	73	46.2	45.8	31.3	55.8	45.2	64.9	51.1	60.7	146	106	66.8	105
	IRON	-	26400	21300	34600	29500	31100	37800	47200	33200	36400	31500	24800	24200	24400	27500	34200	42400	28900	44500	158000	38700	25200	77800
	LEAD	1000	38.7	36.8	96.1	86.5	196	1340	56.9	187	134	142	142	177	114	164	122	264	117	239	716	320	241	111
	MAGNESIUM	10000	7830	24900	4140	3880	3130	6730	4060	2220	5300	5520	4860	4450	3960	6160	3730	5010	4210	4340	2710	4590	4560	3610
	MANGANESE	-	400	590	574	615	421	403	475	381	476	608	437	544	575	520	378	669	397	741	1370	534	503	604
	NICKEL	310	23.9	24.6	27.7	21.7	22	23.2	32.3	19.4	24	26.6	17.6	21.2	17.6	19.7	23.8	29.2	22	25.8	32.5	24.4	21.9	21.5
	POTASSIUM	-	2340	3590	3240	2050	2470	2230	2420	1450	2600	2910	2280	2900	1860	2360	1570	2980	2190	2680	1850	2940	2980	1680
	SELENIUM	1500			0.93		0.49		0.52										0.57		0.69	0.56		
	SILVER	1500						1.4												0.23	1.3			
	SODIUM	-	114	115	60.6	46.5	66.8	301	39.9	74.9	67.2	79.9	181	61.6	62.3	88.9	252	82.2	299	60.3	58.5	135	117	96.2
	VANADIUM	-	26.7	22.5	30.3	21.3	26.5	34.3	27.4	21.8	23.9	26.1	27.9	26.3	20.3	22.1	22.5	33.8	24.7	26	25	31.4	26.3	17.9
	ZINC	10000	65.4	85.2	374	87.2	93.2	272	79.6	84.5	145	183	169	119	96.3	116	155	153	137	209	411	243	131	120
	MERCURY	2.8	0.024	0.026	0.18	0.092	0.066	0.13	0.059	0.22	0.17	0.14	0.28	0.23	0.14	0.21	0.13	0.11	0.17	0.17	0.32	0.11	0.16	0.095
SVOCs	*ACENAPHTHENE*	*500000*						*970*	*58*												*990*		*140*	*160*
	ACENAPHTHYLENE	*500000*			*230*	*260*		*350*			*150*		*320*	*200*	*130*	*170*	*360*	*160*		*750*	*610*		*150*	
	ANTHRACENE	*500000*			*360*			*2700*	*160*	*68*					*120*	*180*				*460*	*2300*		*440*	*320*
	BENZO(A)ANTHRACENE	*5600*	*760*	*250*	*1200*	*860*	*450*	*6500*	*370*	*240*	*880*	*700*	*990*	*610*	*490*	*670*	*1500*	*670*	*2400*	*1700*	*5500*	*850*	*1200*	*780*
	BENZO(A)PYRENE	*1000*	*820*		*1100*	*960*	*380*	*5800*	*350*	*230*	*920*	*700*	*1000*	*620*	*470*	*630*	*1400*	*660*	*2400*	*1900*	*4700*	*810*	*1200*	*660*
	BENZO(B)FLUORANTHENE	*5600*	*1100*	*340*	*1500*	*1300*	*500*	*7200*	*470*	*350*	*1300*	*900*	*1600*	*840*	*700*	*980*	*2300*	*920*	*3200*	*2400*	*6000*	*1100*	*1400*	*770*
	BENZO(G,H,I)PERYLENE	*500000*	*560*	*210*	*710*	*720*	*290*	*3900*	*250*	*190*	*720*	*490*	*740*	*440*	*280*	*440*	*1100*	*450*	*1600*	*1200*	*2600*	*630*	*630*	*370*
	BENZO(K)FLUORANTHENE	*5600*	*510*		*530*	*580*	*190*	*3500*	*200*	*120*	*410*	*450*	*470*	*420*	*280*	*400*	*690*	*430*	*1400*	*1100*	*2200*	*420*	*740*	*380*
	CHRYSENE	*56000*	*930*		*1200*	*1200*	*490*	*6400*	*400*	*330*	*970*	*780*	*1100*	*720*	*600*	*800*	*1700*	*760*	*2700*	*2000*	*6100*	*960*	*1300*	*820*
	DIBENZ(A,H)ANTHRACENE	*560*														*120*					*760*			
	FLUORANTHENE	*500000*	*1200*	*360*	*2700*	*1800*	*820*	*14000*	*900*	*420*	*1800*	*1500*	*1800*	*1300*	*1100*	*1400*	*3600*	*1400*	*5800*	*4000*	*12000*	*1900*	*2700*	*1800*
	FLUORENE	*500000*						*1000*	*59*							*45*				*130*	*1000*		*160*	*160*
	NAPHTHALENE	*500000*						*900*	*47*	*28*						*41*					*230*			
	PENTACHLOROPHENOL	*6700*																						
	PHENANTHRENE	*500000*	*370*		*1700*	*850*	*580*	*11000*	*720*	*370*	*940*	*910*	*690*	*600*	*420*	*680*	*2000*	*880*	*5100*	*1900*	*12000*	*1500*	*1900*	*2000*
	PHENOL	*500*																						
	PYRENE	*500000*	*1000*	*320*	*2500*	*1700*	*880*	*12000*	*750*	*490*	*1600*	*1300*	*1500*	*1200*	*880*	*1300*	*2800*	*1200*	*4600*	*3600*	*12000*	*1700*	*2200*	*1700*
	Total PAH	*500000*	*7740*	*1480*	*14490*	*10860*	*4830*	*79850*	*4954*	*3014*	*10480*	*8200*	*10960*	*7350*	*5825*	*8376*	*18550*	*8120*	*31340*	*22570*	*71150*	*10460*	*14890*	*10250*
	Sample Depth (ft)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Italicized indicates parts per billion.
Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Sidewall Samples

	Sample Name	Commercial Standard	S1156	S1157	S1158	S1159	S1160	S1161	S1162	S1163	S1164	S1165	S1166	S1167	S1168	S1169	S1170	S1171	S1172	S1173	S1174	S1175	S1176	S1177
Metals	ALUMINUM	-	10900	7660	4360	9190	9640	6190	8570	5180	10000	6550	5000	7630	6750	7950	3060	6240	3860	8920	8720	8930	10500	3870
	ANTIMONY	-																1.4						2
	ARSENIC	16	13.8	11.9	16.4	18.3	11.6	12	14.1	42.1	17.9	6.5	12.3	14.7	46.6	12.7	4.6	12.1	8.1	12.1	10.8	8	12.6	4.8
	BARIUM	400	140	102	72.7	104	150	139	442	57.3	113	114	128	100	79.4	92.4	28.2	55.7	39.6	70.2	88.5	68.8	61	43.9
	BERYLLIUM	590	0.56	0.59	0.68	0.59	0.81	0.48	0.73	0.41	0.68	0.36	0.51	0.59	0.99	0.47	0.26	0.46	0.32	0.44	0.53	0.55	0.5	0.24
	CADMIUM	9.3	0.16	0.32		0.34	0.46	0.63	0.42	0.26	0.51	0.36	1.1	0.18	0.15	0.17	0.15	0.16	0.16	0.066		0.041		0.075
	CALCIUM	-	60100	63200	5140	43500	33200	11700	39100	83100	8660	20800	23800	6490	19200	36700	120000	83100	146000	35200	28600	20800	13000	39300
	CHROMIUM, TOTAL	-	17.9	25.6	13.8	21.8	17.5	21.1	23.7	11.9	23.9	54.4	33.3	13.5	12.5	16.4	6.7	12.2	21.7	14.4	84.5	38.6	13.6	7.9
	COBALT	-	6.1	7.4	8.1	8.1	8.9	6	7.3	6.1	11.2	8.8	8.2	9.2	8.6	5.8	2.4	5.7	4.5	6.7	10.6	9.7	7.4	3
	COPPER	270	43.1	138	85.2	169	83	78.9	99.4	51.9	192	286	2090	145	87.7	74.3	31.8	48	104	39	199	108	32	26.3
	IRON	-	31900	37600	48000	27800	23100	28800	28200	17500	45600	42100	32400	24900	23400	25700	9880	20900	26300	20200	80100	53500	21900	14300
	LEAD	1000	147	966	157	654	1850	1400	297	544	321	943	1640	349	133	555	320	2660	3820	346	6560	6100	119	143
	MAGNESIUM	10000	5110	5450	869	13300	4670	2070	4260	23000	3950	4370	3810	3240	2560	6580	65400	6830	11200	4100	4700	5880	3830	2790
	MANGANESE	-	435	509	313	596	384	490	486	589	578	670	632	513	266	393	624	528	284	527	755	579	641	201
	NICKEL	310	16.5	25.1	20.1	22.4	27.9	17.3	22.9	16.2	31.3	54	44.7	21.2	25	17.6	7.6	17.3	23.2	16.7	53	39.6	18.3	9.4
	POTASSIUM	-	2160	1760	866	2130	2300	1270	4310	699	2180	903	911	1040	1270	2460	810	1560	1060	1780	2260	2360	1730	1170
	SELENIUM	1500			1.1										0.61									
	SILVER	1500											0.55									0.28		
	SODIUM	-	826	217	90.2	207	105	168	188	107	170	219	219	132	219	291	146	105	174	61.7	138	99.9	40.6	70.4
	VANADIUM	-	25.6	25.5	17.1	28.8	29.4	16.3	24.7	13.5	24.2	22.9	21.6	19.7	23	21.5	11.1	14.7	11.1	18.5	23.8	22.8	21.3	9.2
	ZINC	10000	129	408	44.7	220	138	214	232	78.2	198	256	491	128	87	112	40.7	76.3	71.7	84.9	121	89.6	73.4	50.4
	MERCURY	2.8	0.095	0.11	0.17	0.11	0.062	0.04	0.14	0.091	0.14	0.082	0.19	0.098	0.17	0.11	0.045	0.035	0.058	0.14	0.12	0.11	0.066	0.088
SVOCs	*ACENAPHTHENE*	*500000*			*47*	*1700*					*320*	*49*		*36*	*2500*		*270*							
	ACENAPHTHYLENE	*500000*			*29*		*310*	*420*		*1100*		*71*	*97*	*50*				*670*	*190*					
	ANTHRACENE	*500000*			*140*	*4000*		*750*		*690*	*820*	*180*	*89*	*140*	*7000*		*770*		*290*					
	BENZO(A)ANTHRACENE	*5600*	*1500*	*1100*	*550*	*9200*	*810*	*2600*	*810*	*2300*	*2700*	*670*	*430*	*480*	*11000*	*1400*	*1700*	*860*	*970*		*1100*	*420*		*490*
	BENZO(A)PYRENE	*1000*	*1500*	*1100*	*500*	*8600*	*910*	*2500*	*780*	*2600*	*2600*	*600*	*460*	*450*	*9800*	*1400*	*1600*	*1200*	*990*		*1100*	*450*		*450*
	BENZO(B)FLUORANTHENE	*5600*	*1700*	*1400*	*670*	*11000*	*1300*	*3100*	*1100*	*4500*	*3100*	*890*	*680*	*700*	*12000*	*2200*	*2400*	*1500*	*1500*		*1900*	*620*		*610*
	BENZO(G,H,I)PERYLENE	*500000*	*760*	*1100*	*370*	*6300*	*980*	*1600*	*670*	*1400*	*1700*	*450*	*450*	*370*	*6500*	*1100*	*1200*	*960*	*760*		*830*	*370*		*370*
	BENZO(K)FLUORANTHENE	*5600*	*830*	*570*	*220*	*5200*	*580*	*1500*	*420*	*1800*	*1500*	*330*	*300*	*230*	*5200*		*810*	*520*	*520*		*620*			*200*
	CHRYSENE	*56000*	*1600*	*1200*	*620*	*9900*	*1100*	*2800*	*820*	*2800*	*2600*	*740*	*540*	*570*	*10000*	*1700*	*1800*	*900*	*1100*		*1400*			*500*
	DIBENZ(A,H)ANTHRACENE	*560*																						
	FLUORANTHENE	*500000*	*3500*	*1600*	*960*	*21000*	*1400*	*5600*	*1500*	*3700*	*5300*	*1300*	*690*	*920*	*24000*	*3400*	*4100*	*1500*	*2000*		*2500*	*680*		*1000*
	FLUORENE	*500000*			*45*	*1600*		*270*			*330*	*55*	*23*	*47*	*2900*		*250*							
	NAPHTHALENE	*500000*				*1300*						*65*	*160*	*47*	*1600*									
	PENTACHLOROPHENOL	*6700*																						
	PHENANTHRENE	*500000*	*2400*	*1100*	*790*	*19000*	*730*	*3300*	*1000*	*570*	*4300*	*790*	*400*	*640*	*28000*	*2200*	*3000*	*510*	*1100*		*1100*			*630*
	PHENOL	*500*																						
	PYRENE	*500000*	*2700*	*1900*	*1100*	*19000*	*1400*	*4800*	*1300*	*3300*	*4800*	*1200*	*690*	*860*	*21000*	*2600*	*3200*	*1200*	*1700*		*1800*	*570*		*850*
	Total PAH	*500000*	*17320*	*11980*	*6358*	*123900*	*10280*	*30640*	*9000*	*26450*	*31830*	*7811*	*5417*	*5877*	*147800*	*17100*	*22290*	*10680*	*11960*	*0*	*13290*	*3490*	*0*	*5100*
	Sample Depth (ft)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Italicized indicates parts per billion.
Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Sidewall Samples

	Sample Name	Commercial Standard	S1178	S1179	S1180	S1181	S1182	S1183	S1184	S1185	S1186	S1187	S1188	S1189	S1190	S1191	S1192	S1193	S1194	S1195	S1196	S1197	S1198	S1199
Metals	ALUMINUM	-	5290	7080	7070	7500	4240	3040	7000	8320	8900	5460	6950	8340	5770	8190	8680	6510	9860	10200	7310	8530	3780	13100
	ANTIMONY	-	2.2	1.7	1.9	1.5	1.7	1.3	1.3	1.2	7.9	27.2	11.5	11.6		1.7	11.5	30.9	3	2.7	17.6	2	2.7	4
	ARSENIC	16	8.4	8.3	14.8	8.8	11.1	5.9	15.1	5.9	19.4	30.8	19.3	20	18.7	5.6	25.5	23.7	36.5	10.7	23	7.7	14.9	16
	BARIUM	400	88.1	158	351	157	32.4	18.7	35	51.5	196	92.8	92	54.8	160	45.6	113	83.4	103	75.8	103	88.7	107	666
	BERYLLIUM	590	0.29	0.43	0.42	0.42	0.22	0.14	0.33	0.49	0.66	0.72	1.1	0.57	0.58	0.45	0.82	0.79	0.61	0.58	0.79	0.6	0.43	0.59
	CADMIUM	9.3	0.15	0.29	0.34	0.43	0.061		0.11	0.31	1.7	1	0.6	0.11	0.32	0.066	0.49	0.11	0.45	0.045	0.23	0.4	0.41	4.8
	CALCIUM	-	66500	57900	42400	73600	204000	255000	148000	59000	14100	4230	19000	88400	4960	29800	5940	2970	45400	1750	5180	46000	23400	12700
	CHROMIUM, TOTAL	-	13.3	14.2	16.2	15.7	15.5	8.1	11.9	12.8	31	20.4	134	19.1	24.3	11.1	20	13.3	23.8	15.5	16.1	14.3	10.2	37.9
	COBALT	-	4.5	4.5	6.5	4.8	3.5	1.9	5	7.3	9.9	9.9	34.1	7.3	9.8	8.3	9.7	8.4	8.1	10	12.3	9.1	5.2	9.7
	COPPER	270	52.5	68.2	119	52.2	28.5	9.5	28.9	158	162	208	144	91.7	171	22.8	386	265	306	46.8	177	40.4	38.9	133
	IRON	-	20900	16800	18400	14900	14600	9700	14900	18600	35500	56400	38900	31100	65300	23000	39300	34600	26200	27100	47300	22100	22500	25400
	LEAD	1000	225	235	186	176	396	158	203	173	2510	747	649	323	6420	15.8	779	1170	380	114	907	333	261	1170
	MAGNESIUM	10000	5990	5330	5770	5940	7830	9600	23600	8190	3570	963	4880	16800	2310	5960	2380	1710	19900	3940	1920	6840	1800	4270
	MANGANESE	-	302	318	376	322	240	171	346	399	478	439	452	352	541	548	540	354	613	590	491	563	177	538
	NICKEL	310	14	13.6	17.1	12.6	13.8	7.5	14.1	21.8	32.6	25.9	25.5	20.2	23.9	25.9	25.4	19.1	21.6	23.3	23.6	26.3	12.4	24.3
	POTASSIUM	-	1590	1690	1770	1730	1570	1390	2210	2410	1860	1030	1680	2420	1440	1830	1940	1210	2500	2070	1550	2310	941	2260
	SELENIUM	1500									1.1	2.2	1.4				1.8	2.3	0.9		2.2		3.1	0.88
	SILVER	1500									0.3				0.49			0.26						0.38
	SODIUM	-	133	382	163	392	141	169	163	96.2	75	73.5	86.5	144	70.5	80.6	65.3	63.1	123	37	66.7	75.8	64	130
	VANADIUM	-	17.9	22.7	26	24.5	11.8	9	17.1	20.3	23.1	24.6	22.2	20.5	18.9	20.8	23.7	19.7	25.3	20.6	20.7	19.3	14.1	24.7
	ZINC	10000	95.5	174	249	195	44	24	50.2	98.1	546	534	444	88.7	275	54.2	221	125	226	86.5	200	151	168	1020
	MERCURY	2.8	0.1	0.62	0.21	0.38	0.03	0.031	0.069	0.069	0.94	0.2	0.24	0.085	0.32	0.026	0.69	0.35	0.19	0.12	0.57	0.21	0.26	0.32
SVOCs	*ACENAPHTHENE*	*500000*		*520*	*540*	*980*											*460*	*230*	*4600*					*740*
	ACENAPHTHYLENE	*500000*		*150*	*270*		*290*	*300*	*2500*	*220*	*1100*	*3100*	*6400*	*1400*	*2200*		*870*	*400*		*450*	*230*	*300*		*3300*
	ANTHRACENE	*500000*		*1400*	*1500*	*3000*	*170*		*1300*			*1100*	*3700*	*1000*	*1500*		*1300*	*770*	*13000*	*350*				*3300*
	BENZO(A)ANTHRACENE	*5600*		*3000*	*3500*	*6600*	*560*	*680*	*4400*	*620*	*5900*	*7000*	*21000*	*2800*	*6900*		*5200*	*2400*	*27000*	*1200*	*730*	*900*	*760*	*12000*
	BENZO(A)PYRENE	*1000*	*690*	*2400*	*3000*	*5500*	*650*	*640*	*4700*	*620*	*6000*	*6900*	*18000*	*2800*	*6700*		*4800*	*2200*	*24000*	*1100*	*760*	*970*	*740*	*13000*
	BENZO(B)FLUORANTHENE	*5600*	*1200*	*3500*	*4000*	*7600*	*860*	*870*	*7500*	*1000*	*9300*	*11000*	*29000*	*5200*	*11000*		*6900*	*3300*	*32000*	*1700*	*1200*	*1200*	*1200*	*15000*
	BENZO(G,H,I)PERYLENE	*500000*	*690*	*1800*	*2000*	*3700*	*410*	*380*	*3100*	*300*	*3800*	*3600*	*5800*	*1800*	*3900*		*2100*	*1000*	*17000*	*780*	*580*	*680*	*550*	*7200*
	BENZO(K)FLUORANTHENE	*5600*		*1200*	*1500*	*2600*	*400*	*320*	*2900*	*320*	*3300*	*5600*	*14000*	*1800*	*3900*		*2600*	*1300*	*12000*	*810*	*420*	*690*	*390*	*8700*
	CHRYSENE	*56000*		*2800*	*3200*	*6600*	*600*	*620*	*4500*	*650*	*6500*	*8100*	*20000*	*3700*	*7900*		*5600*	*2900*	*29000*	*1400*	*970*	*1100*	*940*	*14000*
	DIBENZ(A,H)ANTHRACENE	*560*												*700*	*1400*				*5600*	*310*		*240*		*2600*
	FLUORANTHENE	*500000*	*1400*	*7200*	*8100*	*16000*	*860*	*1100*	*6400*	*1700*	*11000*	*15000*	*34000*	*5600*	*13000*	*110*	*12000*	*4900*	*64000*	*2600*	*1400*	*2100*	*1500*	*26000*
	FLUORENE	*500000*		*550*	*670*	*760*	*47*					*280*	*380*		*360*		*590*	*340*	*4700*					*1200*
	NAPHTHALENE	*500000*		*380*	*620*		*83*					*310*	*310*		*410*		*380*	*250*	*3300*					
	PENTACHLOROPHENOL	*6700*																						
	PHENANTHRENE	*500000*	*1100*	*5700*	*6700*	*13000*	*330*	*360*	*1100*	*240*	*3200*	*4300*	*3400*	*1300*	*4600*		*7500*	*3800*	*55000*	*840*	*810*	*910*	*730*	*14000*
	PHENOL	*500*																						
	PYRENE	*500000*	*1200*	*5200*	*5900*	*12000*	*710*	*780*	*6500*	*1000*	*9900*	*11000*	*30000*	*4900*	*11000*	*100*	*9300*	*4400*	*54000*	*2100*	*1200*	*1800*	*1300*	*23000*
	Total PAH	*500000*	*6280*	*37660*	*43680*	*81760*	*6428*	*6050*	*45190*	*6670*	*60500*	*81970*	*193720*	*34900*	*79410*	*210*	*62220*	*29420*	*361100*	*14510*	*8830*	*11500*	*8600*	*151100*
	Sample Depth (ft)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Italicized indicates parts per billion.
Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Sidewall Samples

	Sample Name	Commercial Standard	S1200	S1201	S1202	S1203	S1204	S1205	S1206	S1207	S1208	S1209	S1210	S1211	S1212	S1213	S1214	S1215	S1216	S1217	S1218	S1219	S1220	S1221
Metals	ALUMINUM	-	7500	6830	7770	6940	9110	7850	7970	8640	10800	9590	8760	9600	14000	10200		6430	14600	9720	10400	8100	5750	8940
	ANTIMONY	-	1.5	2.1	2	1.7	1.7	1.7	1.3	1.9	2.7	3.4	1.8	2.1	2	2.2		8.4	2.7	16.3				
	ARSENIC	16	10.3	11.1	13.6	11.1	8	7.4	6.8	11.3	15	14.9	13	10.4	17.3	16.9		24.6	16.9	21.6	16	12.1	10.8	12.7
	BARIUM	400	62.2	61.2	41	37.4	46.8	51.2	40	80.1	139	110	115	89.1	132	116		209	160	275	113	79.1	71.7	78.8
	BERYLLIUM	590	0.44	0.47	0.39	0.38	0.51	0.51	0.49	0.54	0.61	0.69	0.5	0.55	0.84	0.64		0.65	0.6	0.55	0.56	0.51	0.34	0.52
	CADMIUM	9.3	0.12	0.21	0.24	0.12	0.11	0.15	0.13	0.087	0.12	0.26	0.17	0.24	0.34	0.35		26.6	0.21		0.22	0.17	0.18	0.33
	CALCIUM	-	73500	45000	82100	105000	31600	19900	32600	32500	28900	2860	53700	60400	6320	18900		12100	3720	25300	49600	11000	19900	9870
	CHROMIUM, TOTAL	-	13.2	12.4	12.6	12.7	16.7	13.4	12.3	13.4	17.5	16.7	13.5	17.1	19.4	16.4		51.7	19.2	35	15.1	14.1	10.4	16.9
	COBALT	-	7.1	7.2	7.7	6	9.3	8.6	8.3	8.4	7.8	9.1	6.5	7.6	11.4	8.4		14.1	8.4	13.3	7.5	6.4	4.6	8.4
	COPPER	270	51.7	32.6	60	68.7	40.7	98	31.2	55	106	193	37	39.7	42.3	57.4		247	30.2	71.3	52.6	48.8	47.5	52.2
	IRON	-	19300	21500	24100	19800	25300	23100	18400	24800	26000	36100	20700	22900	28100	24900		67400	29000	140000	26900	20800	16500	30300
	LEAD	1000	82.9	60	66.4	63.4	43.5	60.5	18.1	79.3	276	155	118	487	147	266		1040	154	176	168	165	533	201
	MAGNESIUM	10000	9820	16400	8880	7880	5190	5200	5160	10100	5600	2940	7530	6410	4380	4660		2780	3010	4150	7690	3640	3440	4240
	MANGANESE	-	491	460	310	290	382	883	311	820	509	758	465	488	674	505		557	1710	1240	498	318	297	516
	NICKEL	310	17.7	22.5	19.6	17.4	28.1	24.7	23.6	23.2	20.4	24.6	16.4	20	28.8	21.1		47.6	17.4	41.2	18.8	15.8	13.2	21.7
	POTASSIUM	-	1930	2030	1720	1930	2060	2120	2220	2060	2350	1910	2170	2640	3410	2540		1380	2230	2550	2420	1850	1370	2080
	SELENIUM	1500	0.63	0.52	0.6						0.71	1.1	0.66			0.79		1.1	0.58					
	SILVER	1500																						
	SODIUM	-	85.6	91.4	96.8	104	74.2	65.5	76.6	62.3	349	49	90.6	109	63.8	70.6		136	49.3	118	280	67.5	57.3	52.6
	VANADIUM	-	22.5	17.6	18.2	21.4	20.5	26.1	21.6	26.8	27	22.2	19.5	25.8	28.7	23.3		22.7	29.6	25	22.5	17.7	13.1	20.5
	ZINC	10000	84.7	83.1	77	78.2	73	82.8	62	76.8	149	209	83	97.5	132	152		762	136	107	94.6	93.2	74.5	156
	MERCURY	2.8	0.1	0.1	0.026	0.034	0.038	0.039	0.035	0.067	0.11	0.27	0.13	0.13	0.21	0.29		1.4	0.094	0.14	0.14	0.092	0.076	0.12
SVOCs	*ACENAPHTHENE*	*500000*	*1200*								*210*	*65*												
	ACENAPHTHYLENE	*500000*		*120*			*90*			*510*	*270*	*240*	*130*	*120*	*280*	*390*								*610*
	ANTHRACENE	*500000*	*2200*				*66*				*610*	*250*		*76*										*690*
	BENZO(A)ANTHRACENE	*5600*	*5100*	*520*	*640*	*1200*	*280*			*1100*	*1400*	*1300*	*320*	*390*	*720*	*1300*		*4000*	*380*	*300*	*430*	*310*	*250*	*2000*
	BENZO(A)PYRENE	*1000*	*4100*	*590*	*620*	*1000*	*270*			*1100*	*1500*	*1200*	*330*	*450*	*960*	*1100*		*3600*	*430*	*300*	*420*	*330*	*290*	*2200*
	BENZO(B)FLUORANTHENE	*5600*	*4400*	*750*	*800*	*1600*	*420*	*740*		*1700*	*2100*	*1800*	*780*	*800*	*1400*	*2500*		*5200*	*610*	*440*	*540*	*440*	*370*	*2700*
	BENZO(G,H,I)PERYLENE	*500000*	*2300*	*430*	*460*	*560*	*160*			*610*	*710*	*460*	*190*	*200*	*430*	*1000*		*2000*	*220*	*320*	*380*	*290*	*270*	*1600*
	BENZO(K)FLUORANTHENE	*5600*	*2000*	*350*		*540*	*210*			*800*	*1000*	*780*		*280*	*650*	*340*		*2200*	*290*	*150*	*300*	*210*	*210*	*1200*
	CHRYSENE	*56000*	*6100*	*650*		*1300*	*350*			*1300*	*1500*	*1300*	*400*	*520*	*1000*	*1600*		*4500*	*460*	*360*	*470*	*410*	*370*	*2300*
	DIBENZ(A,H)ANTHRACENE	*560*	*860*													*340*								*500*
	FLUORANTHENE	*500000*	*11000*	*940*	*1200*	*3100*	*570*	*830*		*2000*	*3100*	*2500*	*610*	*890*	*2100*	*2700*		*7400*	*790*	*530*	*710*	*650*	*530*	*4800*
	FLUORENE	*500000*	*920*								*210*	*77*		*25*										
	NAPHTHALENE	*500000*									*210*	*71*												
	PENTACHLOROPHENOL	*6700*																						
	PHENANTHRENE	*500000*	*13000*	*330*		*2100*	*290*				*2400*	*1200*	*270*	*460*	*1300*	*1300*		*4800*	*380*	*230*	*300*	*350*	*290*	*2600*
	PHENOL	*500*																						
	PYRENE	*500000*	*13000*	*870*	*1000*	*2300*	*510*	*600*		*1500*	*2400*	*1700*	*470*	*640*	*1500*	*2500*		*5700*	*630*	*450*	*620*	*560*	*430*	*3900*
	Total PAH	*500000*	*66880*	*5880*	*4720*	*14200*	*3419*	*2170*	*0*	*11300*	*18430*	*13498*	*3710*	*5103*	*10910*	*16200*	*0*	*41700*	*4420*	*3360*	*4480*	*3780*	*3220*	*26710*
	Sample Depth (ft)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

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Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Sidewall Samples

	Sample Name	Commercial Standard	S1222	S1223	S1224	S1225	S1226	S1227	S1228	S1229	S1230		S1231	S1232	S1233	S1234	S1235	S1236	S1237	S1237B	S1238	S1239	S1240	S1241
Metals	ALUMINUM	-	11000	10200	8580	8810	9670	8680	12100	13100	16000		18700	11800	8170	7360	5260	8650	7630		12300	7190	7720	6650
	ANTIMONY	-						0.58											7.6		2.4	2.7	6.6	7.8
	ARSENIC	16	17.3	15.5	21.6	16.8	17.1	17.1	15.7	34.6	16.8		18.1	13.8	12.1	10.4	18	8.7	21.7		16.6	10.6	14.7	13.1
	BARIUM	400	111	109	123	81.5	102	85.6	104	107	110		129	623	124	72.8	41.1	280	88.3		85.6	75.5	144	72.6
	BERYLLIUM	590	0.61	0.58	0.54	0.55	0.65	0.66	0.82	0.84	0.94		1	0.63	0.53	0.89	0.34	0.4	0.78		0.64	0.5	0.67	0.47
	CADMIUM	9.3	0.39	0.47	0.59	0.15	0.25	0.24	0.19	0.15				0.21	0.3		0.13	0.67	0.51		0.25	0.092	0.18	0.21
	CALCIUM	-	7290	7220	15300	5300	3460	2850	2850	3300	2540		2930	25000	23100	3900	157000	59200	8010		2850	7590	44600	39700
	CHROMIUM, TOTAL	-	24.2	23.2	29.2	14.6	20.8	15	17.8	19.3	22.1		27	21.7	13.9	19.7	10.6	20.5	21.3		21.4	12.1	24.3	54.1
	COBALT	-	11.2	9.5	7.8	9.2	11.2	9.5	13.3	12.6	17.1		16.3	8.9	7.2	11.4	5.2	4.8	10.4		10.2	5.6	8.3	9
	COPPER	270	89.7	87.4	623	100	151	135	65.4	73.3	39.2		44.7	78	98.3	98.5	23.1	314	228		37.2	69	86	146
	IRON	-	47100	47700	34200	22300	34400	23900	27100	31400	32800		39500	29600	20500	46800	15400	21200	48600		29600	24600	54500	57700
	LEAD	1000	2660	482	777	562	271	298	121	146	41.9		48	140	215	68.5	268	277	521		128	519	1310	8710
	MAGNESIUM	10000	4530	4030	5420	3240	3410	2560	3800	3910	4780		6270	5100	4800	1200	23100	8230	2650		4160	2170	5620	4700
	MANGANESE	-	846	896	491	436	728	443	595	594	784		764	474	408	341	602	318	521		536	332	657	645
	NICKEL	310	32.3	27.6	21.8	19.9	27.4	20.1	28.6	27.1	32.7		37.1	23.4	17.7	40.8	13.2	17.5	27.4		26.2	13.3	183	56.7
	POTASSIUM	-	2310	2260	1960	2020	2050	1930	2630	2790	3060		3680	2440	1880	1400	1560	1590	1470		2020	1370	1550	1860
	SELENIUM	1500					0.72	0.56								0.54			1.3		0.48	1.5		0.82
	SILVER	1500	0.3	0.25																			0.5	
	SODIUM	-	57.9	50.5	112	56	37	39.5	42	52.1	48.9		54.1	428	172	137	132	611	59.5		41.4	103	146	97.2
	VANADIUM	-	25.4	26.2	22.3	18.7	20.9	19.8	25	27.2	31.1		36.2	32	21.1	21.8	14.3	32.2	21		23.9	21.4	17.6	17.3
	ZINC	10000	209	229	341	116	184	137	130	150	90.8		112	260	166	57.9	60.7	427	350		166	99.6	115	129
	MERCURY	2.8	0.24	0.24	2.2	0.28	0.37	0.49	0.084	0.076	0.09		0.071	0.062	0.11	0.11	0.081	0.061	0.32		0.096	0.34	0.17	0.29
SVOCs	*ACENAPHTHENE*	*500000*	*860*	*970*	*3100*	*810*	*3100*	*1900*	*270*	*1300*	*1200*	*1200*	*73*	*53*	*1300*	*120*		*890*	*6500*	*6700*				
	ACENAPHTHYLENE	*500000*	*2000*	*1900*	*1500*	*850*	*1700*	*850*	*280*	*300*	*37*			*120*	*370*	*31*	*1500*		*1200*		*210*	*49*	*890*	*360*
	ANTHRACENE	*500000*	*3400*	*3500*	*9000*	*2500*	*8100*	*4700*	*930*	*3400*	*2300*	*2400*	*210*	*270*	*2700*	*290*	*1100*	*1900*	*16000*	*16000*	*270*		*580*	
	BENZO(A)ANTHRACENE	*5600*	*7600*	*7800*	*17000*	*6300*	*14000*	*10000*	*2400*	*6000*	*3500*	*3800*	*370*	*1200*	*5400*	*610*	*2000*	*3400*	*34000*	*36000*	*1100*	*260*	*3500*	*1800*
	BENZO(A)PYRENE	*1000*	*7800*	*7600*	*15000*	*5400*	*12000*	*9300*	*2100*	*5200*	*2900*	*3200*	*320*	*1100*	*4600*	*510*	*2500*	*3000*	*31000*	*34000*	*1000*	*280*	*3500*	*1700*
	BENZO(B)FLUORANTHENE	*5600*	*9500*	*8700*	*20000*	*7400*	*17000*	*12000*	*2700*	*6300*	*3400*	*3600*	*370*	*1500*	*6000*	*660*	*3200*	*3800*	*35000*	*40000*	*1900*	*350*	*4800*	*2600*
	BENZO(G,H,I)PERYLENE	*500000*	*4800*	*4300*	*7500*	*2900*	*6300*	*4800*	*1100*	*2500*	*1400*	*1700*	*180*	*610*	*3100*	*260*	*1400*	*2100*	*14000*	*23000*	*830*	*220*	*2500*	*1300*
	BENZO(K)FLUORANTHENE	*5600*	*4500*	*4900*	*6900*	*2700*	*6200*	*5200*	*1400*	*3000*	*1500*	*2000*	*180*	*480*	*2200*	*250*	*1600*	*1400*	*13000*	*21000*	*900*	*170*	*2500*	*1100*
	CHRYSENE	*56000*	*9100*	*8000*	*16000*	*6200*	*15000*	*11000*	*2500*	*5700*	*3500*	*3800*	*370*	*1200*	*5500*	*650*	*2200*	*3100*	*33000*	*37000*	*1400*	*310*	*4300*	*1900*
	DIBENZ(A,H)ANTHRACENE	*560*	*1700*	*1500*	*2800*		*2300*	*1800*	*440*	*990*	*540*	*620*		*230*	*1000*	*110*	*540*		*5900*	*6700*				
	FLUORANTHENE	*500000*	*20000*	*18000*	*41000*	*13000*	*37000*	*26000*	*4500*	*15000*	*7800*	*9900*	*740*	*2000*	*11000*	*1300*	*2900*	*7500*	*63000*	*88000*	*1800*	*480*	*7000*	*2800*
	FLUORENE	*500000*	*990*	*1300*	*3300*	*980*	*3200*	*2200*	*300*	*1700*	*1200*	*1400*	*88*	*60*	*1300*	*120*		*1000*	*7100*	*7500*			*140*	
	NAPHTHALENE	*500000*	*560*	*860*	*3400*	*830*	*3500*	*2500*	*270*	*1300*	*640*	*640*	*120*	*52*	*920*	*72*		*710*	*3500*	*3900*				
	PENTACHLOROPHENOL	*6700*																						
	PHENANTHRENE	*500000*	*13000*	*12000*	*33000*	*9800*	*32000*	*22000*	*3300*	*14000*	*8700*	*11000*	*790*	*1000*	*11000*	*1200*	*440*	*8000*	*64000*	*74000*	*950*	*210*	*2200*	*1000*
	PHENOL	*500*																						
	PYRENE	*500000*	*14000*	*13000*	*27000*	*10000*	*25000*	*19000*	*3600*	*11000*	*5900*	*7600*	*590*	*1500*	*9100*	*940*	*2100*	*6600*	*55000*	*74000*	*1700*	*460*	*5800*	*2800*
	Total PAH	*500000*	*104750*	*98860*	*215000*	*72960*	*193400*	*138950*	*27290*	*80590*	*45717*	*54460*	*4560*	*11988*	*67990*	*7363*	*22780*	*45440*	*399400*	*488400*	*12960*	*3013*	*40490*	*18660*
	Sample Depth (ft)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Italicized indicates parts per billion.
Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Sidewall Samples

	Sample Name	Commercial Standard	S1242	S1243	S1244	S1245	S1246	S1247	S1248	S1249	S1250	S1251	S1252	S1253	S1254	S1255	S1256	S1257	S1258	S1259	S1260	S1261	S1262	S1263
Metals	ALUMINUM	-	7300	7380	5870	7070	5950	10400	8050	7880	8430	7810	6950	5450	7260	5730	4610	3150	6070	6850	5670	9200	9260	9490
	ANTIMONY	-	6.3	6.4	13.9	2.4	1.5	1.4	10.5	5.3	3	6.4	8.4	9.1	16.1	27.2	11.9	6.4	2.9	6.6	4.5	13.7	0.81	4.2
	ARSENIC	16	13.9	14.4	16.1	10.1	8.8	8.8	33.8	30.4	20.7	26.6	27.4	40.5	31.2	31.3	21.8	81.1	36.5	96.5	30.5	29.6	5.1	17.5
	BARIUM	400	76.8	70.1	86.6	368	87.1	71.1	117	116	153	113	107	77	80.7	87.4	79.3	353	455	520	1480	68.7	259	85.3
	BERYLLIUM	590	0.54	0.58	0.55	0.45	0.43	0.62	0.57	0.61	0.62	0.68	0.69	0.64	0.58	0.63	0.65	0.59	0.48	0.59	0.51	0.56	0.43	0.51
	CADMIUM	9.3	0.28	0.22	0.14	0.36	0.15	0.18	0.13	0.79	0.25	0.49	0.47		0.093		0.17	0.078	0.39	0.51	0.39		0.33	2.4
	CALCIUM	-	29300	49700	52700	50800	238000	20600	4180	7100	10500	6190	6240	1650	4050	3960	7940	14900	60900	38700	40400	1310	97300	21700
	CHROMIUM, TOTAL	-	33.1	34.6	39.7	15.5	11.9	15.6	42.5	26	13.9	20.5	18	14.6	24.4	22.5	11.9	16.3	12.3	14	18.9	24.1	9.7	19
	COBALT	-	8.7	8.5	9.1	4.7	3.1	10	13.8	9.2	8.2	10.1	10.5	10.4	12.4	15.3	10.8	5.9	4.4	5.7	15.3	12.5	2.7	9
	COPPER	270	126	135	180	86.4	89.1	30.3	112	310	63.4	128	139	208	234	407	219	77.8	36.1	675	89.6	281	10.9	104
	IRON	-	46700	46800	67400	19200	12500	21200	134000	37200	27600	41200	43800	73100	143000	197000	52400	51300	25100	30600	34600	133000	8930	39900
	LEAD	1000	5900	3230	4330	223	138	22.9	396	1640	94.3	349	360	287	293	328	346	197	127	293	423	227	52	198
	MAGNESIUM	10000	4810	4490	8930	5470	7380	6820	2920	3210	5910	2980	2300	943	1400	1220	1860	2510	4300	3460	3920	1200	5980	4550
	MANGANESE	-	608	561	601	315	224	421	1130	559	994	634	560	486	838	1920	516	195	222	240	249	873	223	566
	NICKEL	310	41	43.3	58	15.2	10.4	24.1	43.1	25	38.5	24.7	24.6	15.2	29.6	42.1	25.6	17.1	11.6	15	20	27.8	7.2	22.7
	POTASSIUM	-	1910	1610	1590	1860	1690	2540	1810	1860	1980	1680	1250	1010	1370	906	904	725	1410	1600	1180	1120	1570	2060
	SELENIUM	1500	0.77		1.2					1.2	0.76	1.7	1.2	2.7	2.9		1.5	8.4	2.8	6.9	3.1	1.5		
	SILVER	1500																						
	SODIUM	-	95.6	104	105	322	444	80.9	58.4	59.7	60.3	68.1	81.2	76.7	137	163	70	175	600	656	352	152	991	149
	VANADIUM	-	18.6	17.4	18.1	26.8	16	23.9	26.5	21.7	19.9	22.4	19.9	19.4	25.9	27.7	15.8	44.7	30.4	33.5	34.2	26.3	24.2	26.6
	ZINC	10000	143	139	127	313	116	70.4	236	313	113	176	238	81.4	202	147	135	180	351	378	259	159	234	500
	MERCURY	2.8	0.27	0.24	0.23	0.32	0.23	0.064	0.27	0.26	0.091	0.26	0.21	0.28	0.71	0.2	0.22	0.46	0.47	0.33	0.38	1.2	1.4	0.66
SVOCs	*ACENAPHTHENE*	*500000*				*780*	*380*		*460*	*450*			*650*	*140*	*42*			*780*	*3800*			*230*		*720*
	ACENAPHTHYLENE	*500000*	*460*	*400*	*520*	*450*	*350*	*25*	*880*	*2200*	*600*	*4000*	*8400*			*1300*	*2900*	*2000*	*2300*			*250*		*270*
	ANTHRACENE	*500000*		*340*	*440*	*1900*	*1400*		*1300*	*1900*	*310*	*2200*	*7700*	*620*	*200*	*780*	*1400*	*2400*	*9700*			*610*		*2600*
	BENZO(A)ANTHRACENE	*5600*	*1800*	*1600*	*2400*	*5000*	*3500*	*130*	*4100*	*8000*	*2000*	*12000*	*25000*	*2400*	*1100*	*4100*	*7300*	*9400*	*33000*	*22000*	*9400*	*2200*	*3300*	*10000*
	BENZO(A)PYRENE	*1000*	*1800*	*1700*	*2500*	*4800*	*3100*	*130*	*4000*	*7900*	*2100*	*12000*	*21000*	*2100*	*1000*	*3700*	*6700*	*8900*	*28000*	*22000*	*8400*	*1800*	*2100*	*8200*
	BENZO(B)FLUORANTHENE	*5600*	*2700*	*2300*	*3400*	*5800*	*3700*	*160*	*4800*	*14000*	*3000*	*17000*	*28000*	*2700*	*1700*	*6400*	*11000*	*12000*	*44000*	*28000*	*9200*	*2400*	*3100*	*9900*
	BENZO(G,H,I)PERYLENE	*500000*	*1400*	*1200*	*1700*	*3200*	*2000*	*100*	*2600*	*4800*	*1300*	*7000*	*9600*	*1300*	*630*	*2100*	*4200*	*6900*	*17000*	*16000*	*6000*	*640*	*1900*	*4300*
	BENZO(K)FLUORANTHENE	*5600*	*1200*	*1100*	*1600*	*2700*	*1600*	*67*	*2100*		*1500*	*9000*	*11000*	*1400*	*530*	*2300*	*5100*	*5700*	*14000*	*17000*	*6000*	*1100*		*3800*
	CHRYSENE	*56000*	*2000*	*2000*	*2700*	*4900*	*3400*	*130*	*4600*	*8700*	*2300*	*14000*	*25000*	*2800*	*1300*	*4900*	*8200*	*11000*	*39000*	*30000*	*11000*	*2500*	*3400*	*10000*
	DIBENZ(A,H)ANTHRACENE	*560*															*2000*							*1700*
	FLUORANTHENE	*500000*	*3200*	*2800*	*3800*	*10000*	*7500*	*220*	*9100*	*15000*	*3200*	*22000*	*48000*	*4400*	*1700*	*7300*	*13000*	*20000*	*76000*	*55000*	*19000*	*4100*	*5800*	*16000*
	FLUORENE	*500000*			*130*	*670*	*490*		*750*	*520*			*2900*	*140*	*47*	*130*	*210*	*1100*	*4500*			*240*		*810*
	NAPHTHALENE	*500000*			*160*	*480*			*340*				*550*	*320*	*160*	*380*	*290*	*790*	*3200*			*190*		*200*
	PENTACHLOROPHENOL	*6700*																						
	PHENANTHRENE	*500000*	*1100*	*1200*	*1500*	*8500*	*6900*	*150*	*7500*	*6000*	*670*	*3900*	*26000*	*3400*	*840*	*2000*	*2700*	*16000*	*66000*	*39000*	*17000*	*3100*	*5200*	*12000*
	PHENOL	*500*																						
	PYRENE	*500000*	*2700*	*2700*	*3800*	*9100*	*6500*	*230*	*8200*	*14000*	*3300*	*22000*	*37000*	*4100*	*1500*	*6400*	*12000*	*18000*	*66000*	*42000*	*19000*	*4000*	*5500*	*15000*
	Total PAH	*500000*	*19660*	*18620*	*26480*	*61700*	*43250*	*1430*	*53460*	*88470*	*21810*	*133610*	*263250*	*27080*	*11457*	*44280*	*82400*	*123390*	*425800*	*290200*	*111100*	*24070*	*32300*	*99540*
	Sample Depth (ft)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

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Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Sidewall Samples

	Sample Name	Commercial Standard	S1264	S1265	S1266	S1267	S1268	S1268R1	S1269	S1270	S1271	S1272	S1273	S1274	S1275	S1276	S1277	S1278	S1279	S1280	S1281	S1282	S1283	S1284
Metals	ALUMINUM	-	10400	4910	12600	7680	6040	6080	7490	9990	14600	11100	3570	1600	11100	8420	11000	15800	16200	14900	10600	11000	11100	11500
	ANTIMONY	-	3	0.69	1.6	4.3	7.6	6.2	7.6	2.8	3.6	4.1	2	1	2.8	2.9	2.3	2.7	3.1	3.9	2.7	2	2.3	3
	ARSENIC	16	23.6	2.9	9.5	19.8	13.1	6.9	15.1	8.8	15.4	12	3.9	2.5	17.2	12.9	13.1	18.9	18	15.5	21.1	25.4	17.3	12.7
	BARIUM	400	88.4	37.4	71.9	263	116	64.9	114	45.6	109	104	26.4	10.3	79.9	79.4	84	149	129	125	82.6	85.2	76.8	96.9
	BERYLLIUM	590	0.62	0.33	0.62	0.56	0.44	0.38	0.51	0.44	0.71	0.51	0.22	0.088	0.56	0.46	0.57	0.65	0.68	0.61	0.57	0.57	0.55	0.43
	CADMIUM	9.3	3	0.18	0.82	4.2	0.29	0.13	0.26	0.054	0.7	0.21		0.052	0.28	0.45	0.24	0.31	0.26	0.049	0.22	0.035		0.45
	CALCIUM	-	8730	39900	40700	23300	22900	27500	9000	299000	36000	2580	214000	290000	8340	64000	39000	3070	1920	2300	3370	2140	1790	2600
	CHROMIUM, TOTAL	-	17.6	3.9	12.6	13	17.2	14.3	18.6	19.5	26.1	17	8.3	5	18.2	14.6	14.5	18.5	18.6	16.5	15.5	14.5	14.2	15.8
	COBALT	-	8.3	1.9	4.4	10.2	5.6	4.8	6.9	6.1	9.2	7.1	3	1.1	8.6	6.5	7.2	9.1	9.6	8.7	8	10.2	11.7	7.3
	COPPER	270	105	12.3	46.1	127	68.8	56.4	72.7	94.9	149	47.9	20.5	8.6	51.2	78.3	45.5	35.9	50	31.7	44.3	36.9	34.8	39.1
	IRON	-	31800	8730	16200	45400	32900	29000	51000	23100	28300	31500	11800	6290	30300	24500	23600	32100	32500	49000	31000	27800	26700	28300
	LEAD	1000	230	13.6	145	238	380	234	468	756	1140	151	171	150	400	946	777	164	139	126	294	40.7	29.9	91
	MAGNESIUM	10000	4720	7430	5840	6770	2490	3750	1950	18100	5530	1790	9360	9640	3580	6250	15600	3080	3450	2730	2900	3280	3600	2140
	MANGANESE	-	612	178	313	639	494	347	719	315	954	1040	337	103	760	857	936	1750	1590	1510	874	1190	1020	1560
	NICKEL	310	21.5	3.8	11.1	20.5	16.5	13.2	18.7	18.9	24	15.9	11.8	4.1	21.8	16.3	17.9	17.1	17.9	15.1	18.1	22.8	22.8	13.7
	POTASSIUM	-	2500	941	1800	1900	1370	1510	1290	3570	3900	1530	1180	747	2260	1670	2040	2400	2510	2050	1840	1910	1610	1390
	SELENIUM	1500	0.55			0.72			0.99		0.66	0.72						0.87		0.63			0.91	
	SILVER	1500																						
	SODIUM	-	79.5	339	1220	93.1	79.3		71.9	135	104	47.9	155	188	68.7	113	294	53.5	47.6	48.5	47.4	30.7	27	36.7
	VANADIUM	-	23.7	16.4	30.6	24.5	17.5	16.6	21.9	18.4	32.7	28	9.8	4.4	23.7	20	20.5	32.3	32.3	30.4	24.4	22.5	21.7	29
	ZINC	10000	434	39.2	146	581	211	125	202	67.2	212	123	32.8	20.9	134	123	104	151	152	156	132	102	127	133
	MERCURY	2.8	0.48		0.11	0.41	0.11	0.04	0.15	0.071	0.14	0.11	0.024	0.015	0.12	0.085	0.064	0.093	0.089	0.095	0.13	0.041	0.052	0.071
SVOCs	*ACENAPHTHENE*	*500000*	*290*				*35000*	*3000*	*5600*		*40*													
	ACENAPHTHYLENE	*500000*	*490*			*320*	*4600*	*540*	*1800*		*220*	*290*	*87*		*230*			*170*	*180*	*160*	*210*			
	ANTHRACENE	*500000*	*900*			*900*	*82000*	*7600*	*16000*		*190*	*330*	*110*								*120*			
	BENZO(A)ANTHRACENE	*5600*	*4400*	*32*	*1200*	*3400*	*150000*	*17000*	*38000*	*90*	*770*	*1600*	*550*	*160*	*640*	*650*	*380*	*580*	*550*	*350*	*650*			
	BENZO(A)PYRENE	*1000*	*4400*		*1000*	*3400*	*120000*	*14000*	*34000*	*87*	*850*	*1800*		*170*	*730*	*700*	*400*	*650*	*540*	*390*	*690*			
	BENZO(B)FLUORANTHENE	*5600*	*5200*	*43*	*1300*	*4000*	*120000*	*16000*	*40000*	*140*	*1200*	*2100*	*720*	*240*	*820*	*1100*	*550*	*810*	*750*	*550*	*870*			
	BENZO(G,H,I)PERYLENE	*500000*	*2600*	*31*	*630*	*2100*	*54000*	*9400*	*17000*	*80*	*380*	*790*	*330*	*130*	*440*	*420*	*270*	*340*	*320*	*220*	*300*			
	BENZO(K)FLUORANTHENE	*5600*	*2600*		*540*	*1700*	*73000*	*8000*	*18000*		*370*	*1100*	*290*	*88*	*540*	*340*	*240*	*350*	*340*	*240*	*450*			
	CHRYSENE	*56000*	*5000*		*1200*	*3700*	*130000*	*17000*	*35000*	*100*	*960*	*1800*	*590*	*180*	*820*	*740*	*460*	*640*	*600*	*480*	*780*			
	DIBENZ(A,H)ANTHRACENE	*560*						*2500*																
	FLUORANTHENE	*500000*	*7900*	*59*	*2000*	*6800*	*300000*	*31000*	*85000*	*150*	*1600*	*3900*	*1000*	*250*	*1200*	*1400*	*810*	*1300*	*1200*	*890*	*1300*			
	FLUORENE	*500000*	*320*			*260*	*36000*	*3000*	*6600*		*69*	*140*	*32*								*53*			
	NAPHTHALENE	*500000*					*28000*	*1900*	*2400*	*39*	*74*													
	PENTACHLOROPHENOL	*6700*																						
	PHENANTHRENE	*500000*	*4600*		*1200*	*4400*	*320000*	*27000*	*67000*	*85*	*860*	*2100*	*580*	*140*	*620*	*800*	*380*	*640*	*720*	*490*	*740*			
	PHENOL	*500*																						
	PYRENE	*500000*	*7300*	*46*	*1900*	*5800*	*270000*	*28000*	*64000*	*140*	*1300*	*3000*	*900*	*290*	*1200*	*1100*	*640*	*1100*	*1000*	*700*	*1200*			
	Total PAH	*500000*	*48550*	*242*	*11730*	*39290*	*1771600*	*194740*	*448400*	*988*	*9353*	*20050*	*5582*	*1768*	*7670*	*7690*	*4400*	*6920*	*6520*	*4710*	*7744*	*0*	*0*	*0*
	Sample Depth (ft)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Italicized indicates parts per billion.
Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Sidewall Samples

	Sample Name	Commercial Standard	S1285	S1286	S1287	S1288	S1289	S1290	S1291	S1292	S1293	S1294	S1295	S1296	S1297	S1298	S1299	S1300	S1301	S1302	S1303	S1304	S1305	S1306
Metals	ALUMINUM	-	12400	9090	9700	6940	8390	5700	3980	3000	5160	12100	2740	4130	9970	2350	10900	5820	2880	10700	10400	4890	6150	8900
	ANTIMONY	-	2.5	2	2.1	1.1	2.3	5.6	1.6	0.81	2.6					0.57	4	3	5.7	2.3	3.8			
	ARSENIC	16	19.7	14.5	28.4	9	15.2	15.3	5.9	3.6	8.3	17.1	4.1	7	13.5	2.9	12.6	10.4	5.1	16.8	9.2	9.1	25	24.4
	BARIUM	400	84.9	105	101	45.5	102	64.2	30.8	11.2	44.7	144	28.8	47.7	172	20	136	84.6	34.3	87.5	139	43.5	455	97.9
	BERYLLIUM	590	0.6	0.53	0.54	0.45	0.45	0.58	0.24	0.13	0.36	0.47	0.17	0.22	0.46	0.15	0.45	0.34	0.23	0.56	0.49	0.33	0.59	0.57
	CADMIUM	9.3	0.037	0.23	0.6	0.15	0.3	0.081	0.1		0.26	0.11	0.15	0.2	0.29	0.08	0.15	0.19	0.4	1.5	0.67	0.23	0.84	0.2
	CALCIUM	-	1490	26200	38000	50800	100000	95800	223000	292000	164000	31900	170000	218000	20300	288000	48600	74000	206000	33100	50300	72400	12400	10100
	CHROMIUM, TOTAL	-	15	13.5	17.3	10.1	14.5	12.8	9.1	7.9	12.3	16	8.3	9.9	17	6.2	14.8	12.4	10	16.2	13.7	18.9	16.5	15.1
	COBALT	-	10.9	6.4	7.6	5.5	6.5	6.6	2.7	1.5	4.1	7	2.1	3	7	1.3	6.7	4.6	2.5	8.4	5.6	3.9	8.9	7.8
	COPPER	270	35.6	40.7	45.4	17.3	38.8	85.6	20	5.5	64	37.6	27.7	34.9	54.9	11.1	52.8	48.8	43.4	73.3	44.8	81.8	378	119
	IRON	-	31900	20300	22000	14700	23200	37100	11400	6950	18500	33700	11600	18500	32600	7930	26400	26800	18500	28400	23900	22600	56200	34600
	LEAD	1000	35.9	128	222	96.1	152	765	543	178	665	147	112	135	318	47.2	163	184	135	168	19700	2180	1760	247
	MAGNESIUM	10000	3430	4280	6100	14900	4910	28100	33500	13600	27300	3720	7830	6330	3360	8160	3320	3760	7980	5300	4660	6170	4370	3100
	MANGANESE	-	1240	397	497	274	440	463	326	103	419	1150	263	412	1030	118	950	392	198	668	348	267	584	766
	NICKEL	310	19.3	15.9	18.8	15.3	16.5	18.1	9.8	6	13.3	15.5	6.8	8.9	17.7	4.5	14.1	13	8.1	20.6	18.8	14.1	20.9	19.9
	POTASSIUM	-	1840	2260	2500	1800	2210	1410	1520	1400	1600	1990	798	1080	1870	988	1960	1170	866	1920	1700	1380	1370	1980
	SELENIUM	1500			0.66			0.97																1.2
	SILVER	1500																			0.57		0.29	
	SODIUM	-	27.8	72.8	82.4	137	149	150	181	183	168	77.3	134	150	78.8	252	365	426	283	238	775	92	153	56.9
	VANADIUM	-	25.5	19.8	21.8	21.2	17.4	16.2	18.8	8.5	19.3	25.6	9.5	11.2	24.7	6.6	24.7	19.2	12	32.9	31.3	14	19.4	23.8
	ZINC	10000	106	92.8	228	54.7	114	73.7	33.9	15.9	60.8	143	46.3	66.2	174	22.8	116	79.5	42.5	308	182	103	492	193
	MERCURY	2.8	0.06	0.12	0.18	0.059	0.17	0.061	0.025	0.012	0.024	0.16	0.016	0.06	0.16	0.017	0.15	0.037	0.016	0.21	0.19	0.12	0.46	0.18
SVOCs	*ACENAPHTHENE*	*500000*										*30*			*280*		*85*		*33*				*1200*	*1100*
	ACENAPHTHYLENE	*500000*		*240*	*520*	*1400*	*520*		*290*			*48*			*260*	*30*	*90*	*180*	*160*	*270*		*270*	*1300*	*650*
	ANTHRACENE	*500000*				*880*						*83*			*690*	*56*	*240*	*230*	*150*	*650*		*370*	*5000*	*3500*
	BENZO(A)ANTHRACENE	*5600*		*910*	*2000*	*8200*	*1900*	*290*	*970*	*180*	*290*	*450*	*390*	*760*	*2600*	*290*	*1100*	*1400*	*950*	*2700*	*2000*	*1400*	*12000*	*9900*
	BENZO(A)PYRENE	*1000*		*1100*	*2000*	*9700*	*2300*	*300*	*1100*		*330*	*490*	*390*	*770*	*2700*	*300*	*1200*	*1500*	*1100*	*2500*	*2000*	*1400*	*12000*	*9200*
	BENZO(B)FLUORANTHENE	*5600*		*1600*	*2800*	*14000*	*3200*	*490*	*1700*	*330*	*500*	*580*	*520*	*1100*	*3300*	*360*	*1300*	*1900*	*1400*	*2800*	*2400*	*2000*	*14000*	*12000*
	BENZO(G,H,I)PERYLENE	*500000*		*510*	*770*	*3000*	*860*	*200*	*470*		*210*	*360*	*350*	*580*	*1800*	*230*	*750*	*970*	*670*	*1600*	*1400*	*940*	*7300*	*5900*
	BENZO(K)FLUORANTHENE	*5600*		*690*	*1200*	*4900*	*1400*		*740*		*240*	*280*	*250*	*460*	*1500*	*160*	*760*	*910*	*480*	*1600*	*1300*	*850*	*5500*	*5200*
	CHRYSENE	*56000*		*1100*	*2200*	*8200*	*2000*		*1100*		*430*	*480*	*380*	*840*	*2800*	*300*	*1200*	*1500*	*1000*	*2800*	*2000*	*1700*	*13000*	*10000*
	DIBENZ(A,H)ANTHRACENE	*560*																				*270*	*2200*	
	FLUORANTHENE	*500000*		*1700*	*4300*	*12000*	*3500*	*480*	*1900*	*350*	*630*	*820*	*630*	*1300*	*5500*	*510*	*2100*	*2500*	*1700*	*4600*	*3800*	*3300*	*27000*	*22000*
	FLUORENE	*500000*				*260*						*26*			*230*		*72*		*29*				*1800*	*1400*
	NAPHTHALENE	*500000*																					*2400*	*910*
	PENTACHLOROPHENOL	*6700*																						
	PHENANTHRENE	*500000*		*660*	*2200*	*2200*	*1100*		*460*		*330*	*420*	*300*	*590*	*3300*	*280*	*1100*	*1100*	*600*	*2800*	*2200*	*1500*	*21000*	*17000*
	PHENOL	*500*																						
	PYRENE	*500000*		*1400*	*3300*	*10000*	*2700*	*360*	*1400*	*250*	*450*	*790*	*560*	*1100*	*4700*	*500*	*1900*	*2200*	*1500*	*4400*	*2900*	*2800*	*23000*	*18000*
	Total PAH	*500000*	*0*	*10430*	*22140*	*78140*	*20380*	*2350*	*10620*	*1110*	*3620*	*5216*	*4090*	*8050*	*31500*	*3263*	*12702*	*15410*	*10494*	*28520*	*21700*	*17890*	*156900*	*123060*
	Sample Depth (ft)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Italicized indicates parts per billion.
Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Sidewall Samples

	Sample Name	Commercial Standard	S1307	S1308	S1309	S1310	S1311	S1312	S1313	S1314	S1315	S1316	S1317	S1318	S1319	S1320	S1321	S1322	S1323	S1324	S1325	S1326	S1327	S1328
Metals	ALUMINUM	-	15100	3590	8210	3320	1970	3850	8820	5980	6150	15100	14200	17300	14300	15000	3270	11000	10200	8180	6590	11100	7780	7680
	ANTIMONY	-	2.1	1.4	5.7	1.4	0.68	2	1.3	2.4	4.9	1.7	1.9	1.9	4.2	3.5	1.1	2.8	4.1	6.1	7	2.5	2.5	16.5
	ARSENIC	16	14.9	3.6	29.2	6.4	3.4	5.9	19.4	12.5	11.2	10.6	18.2	21.5	31	13.5	5.4	7.9	10.6	17	22.7	17.9	10.6	25.3
	BARIUM	400	134	29	84.5	33.6	7.1	35.1	54.4	96.2	61.3	133	139	146	112	110	15.7	94.3	96	207	92.4	112	86.8	120
	BERYLLIUM	590	0.57	0.13	0.59	0.23	0.056	0.23	0.44	0.31	0.44	0.46	0.55	0.67	0.65	0.49	0.13	0.66	0.57	0.52	0.76	0.58	0.38	0.77
	CADMIUM	9.3	0.26		1.8	0.24		0.31		0.16	0.23	0.13	0.31	0.48	0.15	0.045		0.71	0.86	1.7	1.8	0.4	0.2	0.85
	CALCIUM	-	2660	298000	8750	210000	340000	90500	91800	130000	48300	2510	4080	2260	3170	2090	292000	28900	19200	28300	5380	46800	150000	8930
	CHROMIUM, TOTAL	-	19.2	8.2	25.4	9.9	6.4	11.1	13	14.9	16.8	19.9	17.8	22.8	21.5	21.7	10.1	39.6	28.9	28.5	13.7	19.9	17.7	29.8
	COBALT	-	8	1.8	10.1	2.8	0.75	3.1	6.7	4.9	5.7	6.9	9.1	9.7	15.9	8.6	1.5	9.2	9.9	8.8	11.1	7.1	6.4	8.2
	COPPER	270	30.5	22.8	78.4	51	3.7	37.1	22.2	63.8	89.2	26.9	34	39.3	74.5	29.7	6.2	81.5	96.8	121	245	60	174	387
	IRON	-	29500	9840	83400	10800	3650	14700	26100	21100	31100	32800	29300	31800	50500	36100	6550	26900	43000	52600	32400	22200	20400	52300
	LEAD	1000	117	628	596	334	8.7	733	202	831	2830	164	179	171	143	98.2	51.5	324	424	996	849	207	189	842
	MAGNESIUM	10000	2900	5270	2830	7270	7160	6330	12200	6260	7490	3120	3140	3360	3980	3550	8140	5120	5170	7830	1730	7380	5410	1900
	MANGANESE	-	1640	226	1060	246	59.5	270	791	300	395	1190	1610	1510	1360	949	97.9	510	626	485	314	504	259	510
	NICKEL	310	16.4	6.8	27	9.2	3.6	10	19	14.2	18.7	18.6	16.4	18.3	34	21.8	6.5	24.4	26	23.2	22.7	19.9	16.2	28.3
	POTASSIUM	-	2160	867	1560	1090	992	1120	2640	1800	1540	1720	2080	2870	2230	1550	1560	3040	2760	2130	1380	3300	2120	2120
	SELENIUM	1500	0.54		1.1							0.51	0.63	1.2	1.3	0.91		0.54	0.7	1	2.5			2.2
	SILVER	1500																					0.99	
	SODIUM	-	40.9	397	95	168	190	97.7	130	135	124	55.3	41.2	45.7	93.5	34.2	201	127	85.3	117	86.2	113	218	79.5
	VANADIUM	-	30.4	14.9	24.5	9	5.4	10.3	23	14.3	15	29.9	29.2	34.1	29.7	30.8	8.7	26.2	25.3	22.1	19.6	25.5	22.6	23.2
	ZINC	10000	129	37.4	276	68.5	8.9	79.2	70.2	83.7	116	97.2	137	207	186	140	17.4	302	349	538	954	153	153	359
	MERCURY	2.8	0.099	0.077	3.7	0.17	0.01	0.053	0.02	0.076	0.053	0.081	0.09	0.11	0.13	0.082	0.011	0.21	0.2	0.38	0.85	0.19	0.21	0.46
SVOCs	*ACENAPHTHENE*	*500000*	*200*													*160*		*1900*					*4500*	*7500*
	ACENAPHTHYLENE	*500000*										*59*	*430*	*290*	*850*	*83*		*620*	*920*	*2800*			*580*	*2300*
	ANTHRACENE	*500000*	*590*		*300*							*58*	*690*		*430*	*540*		*5200*	*1500*	*5500*			*12000*	*17000*
	BENZO(A)ANTHRACENE	*5600*	*1400*	*670*	*1600*	*540*	*59*	*570*		*410*	*290*	*250*	*1800*	*820*	*2600*	*1600*	*59*	*9700*	*4700*	*19000*	*530*	*2100*	*26000*	*37000*
	BENZO(A)PYRENE	*1000*	*1300*	*760*	*1600*	*520*	*60*	*540*		*420*	*360*	*260*	*1800*	*860*	*2200*	*1300*	*49*	*7600*	*4200*	*18000*	*420*	*1800*	*20000*	*28000*
	BENZO(B)FLUORANTHENE	*5600*	*1600*	*1100*	*2300*	*760*	*85*	*720*		*670*	*510*	*320*	*1900*	*1100*	*2700*	*1500*	*75*	*10000*	*5100*	*23000*	*660*	*2400*	*23000*	*32000*
	BENZO(G,H,I)PERYLENE	*500000*	*900*	*480*	*1000*	*360*	*37*	*370*		*300*	*230*	*190*	*1200*	*560*	*1500*	*960*	*37*	*5100*	*3100*	*11000*	*430*	*1300*	*14000*	*18000*
	BENZO(K)FLUORANTHENE	*5600*	*890*	*380*	*700*	*310*	*37*	*300*		*220*	*200*	*150*	*960*	*480*	*1500*	*650*	*24*	*3300*	*2500*	*9500*	*240*	*930*	*12000*	*14000*
	CHRYSENE	*56000*	*1500*	*750*	*2000*	*580*	*68*	*580*		*510*	*370*	*280*	*1900*	*1000*	*2700*	*1500*	*62*	*9600*	*5000*	*21000*	*770*	*2300*	*25000*	*39000*
	DIBENZ(A,H)ANTHRACENE	*560*			*370*										*640*	*320*				*4300*			*4900*	
	FLUORANTHENE	*500000*	*3200*	*1300*	*2700*	*920*	*94*	*960*	*120*	*640*	*470*	*520*	*4400*	*1700*	*3900*	*2900*	*78*	*23000*	*11000*	*36000*	*870*	*4300*	*48000*	*77000*
	FLUORENE	*500000*	*240*		*120*								*260*		*98*	*190*		*2100*	*610*	*2500*			*4700*	*8900*
	NAPHTHALENE	*500000*													*28*	*58*		*1700*			*140*		*3400*	*4200*
	PENTACHLOROPHENOL	*6700*																						
	PHENANTHRENE	*500000*	*2700*	*920*	*1500*	*480*	*54*	*580*		*240*	*200*	*280*	*2800*	*960*	*1200*	*2300*	*39*	*22000*	*7700*	*23000*	*710*	*3200*	*44000*	*89000*
	PHENOL	*500*																						
	PYRENE	*500000*	*2600*	*1100*	*2400*	*910*	*93*	*920*		*620*	*450*	*480*	*3700*	*1600*	*3700*	*2700*	*82*	*20000*	*9600*	*33000*	*870*	*4000*	*46000*	*82000*
							93																	
	Total PAH	*500000*	*18100*	*7810*	*17730*	*5660*	*616*	*5830*	*120*	*4260*	*3250*	*3042*	*23010*	*9820*	*25686*	*17701*	*535*	*126820*	*59620*	*220700*	*5960*	*23830*	*302680*	*472000*
	Sample Depth (ft)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Italicized indicates parts per billion.
Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Sidewall Samples

	Sample Name	Commercial Standard	S1329	S1330	S1331	S1332	S1333	S1334	S1335	S1336	S1337	S1338	S1339	S1340	S1341	S1342	S1343	S1344	S1345	S1346	S1347	S1348	S1349	S1350
Metals	ALUMINUM	-	10800	13400	11500	12100	9860	10700	6460	5860	6160	15100	4340	9370	9680	10200	11700	9530	3650	4930	12900	7470	5660	10800
	ANTIMONY	-	2	2.7	2.9	2.8	2	2	3.8	1.8	1.1	2.2	2	4.3	6.3	4.1	6.3	4.9	11.9	1.7	1.3	2.3	22.4	3.7
	ARSENIC	16	14.3	16.9	17.2	14.6	12.4	12.2	31.6	8.8	8.6	14.7	35.9	21.8	30.3	35.5	44.6	18.5	23.7	6	15.2	11.2	21.9	19.9
	BARIUM	400	97.4	136	129	117	105	112	98.7	54.7	52.1	322	461	117	129	158	196	99.6	85.5	34.4	86.8	162	167	113
	BERYLLIUM	590	0.77	0.69	0.65	0.64	0.49	0.54	0.56	0.4	0.33	1.1	0.75	0.61	0.67	0.66	0.7	0.63	0.42	0.23	0.51	0.37	0.5	0.56
	CADMIUM	9.3	0.051	0.46	0.51	0.41	0.22	0.26	18	1.5	1.2	5.1	13.7	2.1	0.45	0.31	0.3	0.27		0.24	0.18	0.96		0.2
	CALCIUM	-	3650	11600	15800	13800	40500	30900	41200	34100	64300	33100	16000	4590	6330	5720	6970	3510	3530	170000	4240	12700	15800	5000
	CHROMIUM, TOTAL	-	16.8	20.8	19.1	19	15	16	36.4	10.1	8.3	16.1	400	31.7	25.4	16.9	20.4	15.8	16.8	16.1	17.1	13	21.1	15.9
	COBALT	-	8.6	9	8.6	8.5	6.3	6.9	5	3.6	3.3	7.7	17.8	9.4	9.7	8.3	9.5	13.8	11.9	3.8	9.2	5.7	11.1	7.9
	COPPER	270	56.8	54.3	68.6	53.7	38.2	43.9	88	44.7	29.6	94.3	833	581	214	115	126	106	172	37.1	36	40.8	182	57.5
	IRON	-	25300	25000	24400	23700	18300	20000	34400	15100	12800	21800	127000	41100	42400	32600	48500	48100	129000	14100	26200	17900	92800	25600
	LEAD	1000	115	234	312	240	135	135	316	478	113	495	1170	635	470	262	316	176	268	418	54.2	367	698	387
	MAGNESIUM	10000	3050	4100	5360	4370	5640	5340	4650	3880	6100	7020	1120	2670	3060	2570	2980	3070	1120	10300	3310	2700	2030	3240
	MANGANESE	-	431	578	487	482	444	477	434	281	277	529	837	559	611	740	972	1470	839	304	796	850	1010	913
	NICKEL	310	20.4	21.7	21.3	21	15.9	17.2	16.1	10.6	8.2	21.1	120	32.6	22.8	20.1	22.9	26	23.1	12.4	23.1	16.5	21.5	18.4
	POTASSIUM	-	2700	3640	2800	3310	2700	2860	1160	1380	1340	2310	803	2350	2040	2220	2820	1550	649	1510	2610	2110	1290	2860
	SELENIUM	1500	1.3										3	1.2	0.63	1.1		0.58	0.61	0.53	0.61	0.89	1.6	
	SILVER	1500												0.34										
	SODIUM	-	61.5	66.4	74.1	78.1	83	81.5	234	186	184	230	103	114	75.8	65.5	87.5	53.9	87.4	139	51.5	45.8	74.6	47.2
	VANADIUM	-	25.8	28.5	25.9	27.1	20.8	22.9	28.2	18.8	25.4	24.1	74.9	28.3	25.9	25.3	30.9	22.8	18.9	14	26.7	17.1	21.7	24.4
	ZINC	10000	59.5	161	167	155	89.5	98.2	283	175	134	1710	1590	737	234	136	171	153	101	77.8	100	192	154	112
	MERCURY	2.8	0.1	0.23	0.21	0.26	0.09	0.11	0.22	0.11	0.13	0.28	2.9	0.35	0.14	0.19	0.31	0.89	1.2	0.069	0.067	0.11	0.33	0.12
SVOCs	*ACENAPHTHENE*	*500000*							*850*		*6000*													
	ACENAPHTHYLENE	*500000*		*470*	*850*	*780*			*2000*	*660*	*370*	*270*		*1000*	*4400*	*750*	*1300*	*2500*	*1700*				*1500*	
	ANTHRACENE	*500000*	*110*		*610*	*560*			*4200*	*1100*	*12000*	*450*			*2100*		*780*	*1800*	*680*				*880*	
	BENZO(A)ANTHRACENE	*5600*	*450*	*1400*	*2300*	*2100*	*880*	*650*	*19000*	*4400*	*16000*	*2300*	*1700*	*2800*	*12000*	*2200*	*3200*	*6100*	*5300*	*540*	*270*	*220*	*3700*	*490*
	BENZO(A)PYRENE	*1000*	*340*	*1500*	*2300*	*2100*	*810*	*720*	*15000*	*3800*	*12000*	*2000*	*1700*	*2400*	*11000*	*2000*	*3000*	*5100*	*4700*	*510*	*250*		*3400*	*460*
	BENZO(B)FLUORANTHENE	*5600*	*460*	*1900*	*3100*	*2600*	*1100*	*800*	*17000*	*4500*	*15000*	*2500*	*2100*	*3700*	*18000*	*3400*	*5100*	*6700*	*6700*	*790*	*340*	*280*	*5900*	*680*
	BENZO(G,H,I)PERYLENE	*500000*	*290*	*1000*	*1700*	*1600*	*600*	*470*	*8500*	*2200*	*6700*	*1200*	*1200*	*1300*	*4800*	*1200*	*1400*	*2100*	*2000*	*400*	*170*		*3100*	*340*
	BENZO(K)FLUORANTHENE	*5600*	*150*	*680*	*1100*	*1300*	*450*	*400*	*9800*	*2500*	*5000*	*1100*	*1000*	*1800*	*6700*	*1600*	*2900*	*3800*	*3600*	*280*	*180*		*2100*	*290*
	CHRYSENE	*56000*	*580*	*1900*	*2900*	*2500*	*1100*	*740*	*19000*	*4800*	*16000*	*2500*	*2000*	*3200*	*12000*	*2900*	*4500*	*6800*	*5300*	*670*	*370*		*4600*	*630*
	DIBENZ(A,H)ANTHRACENE	*560*			*560*						*2300*												*1100*	
	FLUORANTHENE	*500000*	*690*	*3000*	*4700*	*4200*	*1400*	*930*	*28000*	*7600*	*36000*	*3600*	*3300*	*6000*	*20000*	*4500*	*6400*	*12000*	*9600*	*910*	*490*	*310*	*5400*	*930*
	FLUORENE	*500000*	*41*		*190*				*1100*	*350*	*5700*	*130*						*700*						
	NAPHTHALENE	*500000*	*30*						*370*		*4400*							*390*	*370*					
	PENTACHLOROPHENOL	*6700*																						
	PHENANTHRENE	*500000*	*690*	*1600*	*2300*	*2000*	*710*		*16000*	*4500*	*43000*	*1900*	*2000*	*1500*	*3000*	*1400*	*1400*	*6200*	*1200*	*440*	*220*		*2000*	*390*
	PHENOL	*500*																						
	PYRENE	*500000*	*920*	*2800*	*4700*	*4300*	*1500*	*910*	*29000*	*7600*	*33000*	*3700*	*2600*	*4600*	*17000*	*3600*	*4800*	*8500*	*6700*	*930*	*470*	*310*	*4900*	*850*
	Total PAH	*500000*	*5024*	*17110*	*29030*	*25340*	*9080*	*6020*	*179270*	*46530*	*219170*	*22980*	*18960*	*29980*	*117420*	*24850*	*36760*	*65710*	*50360*	*5800*	*2910*	*1120*	*42030*	*5350*
	Sample Depth (ft)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Italicized indicates parts per billion.
Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Sidewall Samples

	Sample Name	Commercial Standard	S1351	S1352	S1353	S1354	S1355	S1356	S1357	S1358	S1359	S1360	S1361	S1362	S1363	S1364	S1365	S1366	S1367	S1368	S1369	S1370	S1371	S1372
Metals	ALUMINUM	-	13700	6690	12600	10500	7870	12200	5000	11300	19000	14900	11300	13300	4650	16700	11800	11800	2760	3130	8560	3200	2490	2640
	ANTIMONY	-	3.1	3.8	2	7.3	14.4	2.2	0.56	7.6	2.6	3	5	3.8	3.1	2	2	1.9	2.1	1.1	2.7	2.3	3.6	2.2
	ARSENIC	16	25.4	13.3	16.9	16.1	17	15.1	3.9	23.9	20.4	17.2	14.7	14.1	6.3	15.3	12.2	10.4	3.5	4.3	7.5	6.3	5.7	4
	BARIUM	400	141	163	82.9	131	157	96.4	24.1	108	145	154	125	162	53.2	94.8	91.6	86.2	24	17.4	74	21.5	31.8	18.5
	BERYLLIUM	590	0.65	0.95	0.55	0.5	0.49	0.68	0.45	0.66	0.66	0.56	0.53	0.61	0.26	0.62	0.48	0.64	0.12	0.15	0.4	0.15	0.14	0.12
	CADMIUM	9.3	0.24	0.12		1	0.33	0.18	0.077	0.53	0.24	0.23	0.38	0.35	0.097	0.14	0.19	0.5	0.092		0.35		0.18	0.052
	CALCIUM	-	4640	8430	5930	59800	25700	2510	51500	4880	2470	2810	6760	8010	227000	1140	2200	20700	126000	244000	71300	266000	190000	287000
	CHROMIUM, TOTAL	-	20	23.7	17.7	20	26.7	17.1	6	19.2	23.1	19.3	18.6	20.1	10.4	19.2	16.4	28.5	9.3	9.1	19.3	9.3	17.2	8.8
	COBALT	-	10.3	7.9	7.3	7.8	8.9	9.8	2.4	9.4	9.9	8.9	7.3	7.9	3.4	9.4	6.8	9.2	2.9	1.9	6.8	2.3	4.3	1.6
	COPPER	270	62.7	57.3	34.2	79.1	135	56.3	13.9	217	33.4	39.9	78.3	49.2	33.3	34.8	36.6	80.6	26	14.7	68.3	33.1	43.7	86.9
	IRON	-	34600	36000	31900	38800	64000	23800	9620	32100	32400	33300	37500	33400	15400	27900	26500	27600	14800	8470	24200	16100	24400	10600
	LEAD	1000	215	354	45.8	481	597	122	45.9	406	79	151	331	276	185	51.4	148	128	368	196	960	458	1400	1800
	MAGNESIUM	10000	3760	1220	4970	4270	4210	2620	2380	2940	3500	2800	2710	3340	4940	3390	2500	6280	11900	9240	6720	7610	13400	6670
	MANGANESE	-	1360	351	675	851	685	848	258	693	1860	1570	958	1120	368	1170	852	606	247	148	532	197	332	160
	NICKEL	310	24.1	19.5	20.2	18.8	27.4	19.6	5.3	21.5	18.5	17.8	18.7	18.9	11	17.4	18.9	27.3	11.6	7.6	19.3	8.6	18	6.5
	POTASSIUM	-	3410	1200	2140	2190	1810	2240	1280	2790	2940	2120	2250	2560	1160	2320	2080	3320	881	1190	2270	1230	787	985
	SELENIUM	1500		1.8		2.7	1.3	0.9		1.2		0.65	0.86	1				0.79						
	SILVER	1500																						
	SODIUM	-	57.1	74	51	93.1	88.6	45.9	129	80.3	42.6	42.7	55.5	51	146	43.5	49.1	85	121	141	104	197	137	158
	VANADIUM	-	31.1	39.2	27.6	24.9	23.8	25	12.6	25.3	37.2	30.8	25.6	28.5	12	31.6	26.7	30.8	8.6	8.3	19.1	9.6	8.7	6.6
	ZINC	10000	145	104	121	208	297	105	31.6	286	159	177	255	217	85.3	142	126	143	38.1	28.5	98.5	41	79.8	41.6
	MERCURY	2.8	0.087	0.17	0.055	0.23	0.15	0.12	0.012	0.23	0.093	0.16	0.19	0.33	0.09	0.048	0.12	0.48	0.025	0.013	0.091	0.14	0.024	0.023
SVOCs	*ACENAPHTHENE*	*500000*			*55*	*550*	*3000*		*140*	*1600*			*1000*	*190*	*760*									
	ACENAPHTHYLENE	*500000*	*190*	*300*	*51*	*400*	*1000*	*150*	*43*	*1300*	*53*		*710*	*230*	*1200*	*35*	*280*	*310*			*150*			
	ANTHRACENE	*500000*			*180*	*1600*	*8600*	*380*	*480*	*4800*	*77*		*3400*	*660*	*4200*						*320*			
	BENZO(A)ANTHRACENE	*5600*	*700*	*1200*	*620*	*5100*	*19000*	*1300*	*1200*	*14000*	*400*	*810*	*10000*	*2300*	*14000*	*160*	*740*	*1000*	*210*	*69*	*1200*	*180*	*170*	*260*
	BENZO(A)PYRENE	*1000*	*640*	*1200*	*560*	*4800*	*17000*	*1100*	*960*	*11000*	*390*	*720*	*8400*	*2100*	*11000*	*35*	*790*	*1000*	*190*	*60*	*1000*		*150*	*190*
	BENZO(B)FLUORANTHENE	*5600*	*910*	*1500*	*730*	*5800*	*18000*	*1400*	*1100*	*14000*	*510*	*890*	*11000*	*2500*	*14000*	*270*	*960*	*1200*	*260*	*99*	*1500*	*220*	*260*	*360*
	BENZO(G,H,I)PERYLENE	*500000*	*500*	*840*	*420*	*3500*	*12000*	*850*	*680*	*7900*	*300*	*530*	*5400*	*1500*	*6400*	*140*	*580*	*830*	*150*	*64*	*820*	*140*	*170*	*200*
	BENZO(K)FLUORANTHENE	*5600*	*360*	*550*	*270*	*2400*	*9300*	*810*	*500*	*5800*	*180*	*430*	*4000*	*1100*	*4900*	*35*	*430*	*630*	*140*	*51*	*510*	*120*	*140*	
	CHRYSENE	*56000*	*850*	*1600*	*690*	*5600*	*19000*	*1500*	*1100*	*13000*	*470*	*900*	*9800*	*2400*	*12000*	*210*	*1000*	*1300*	*240*	*83*	*1300*	*210*	*220*	*300*
	DIBENZ(A,H)ANTHRACENE	*560*			*120*	*1000*	*3400*		*210*		*85*		*2100*											
	FLUORANTHENE	*500000*	*1200*	*2300*	*1200*	*10000*	*37000*	*2800*	*2000*	*25000*	*790*	*1500*	*20000*	*4500*	*29000*	*290*	*1500*	*1900*	*320*	*110*	*2000*	*270*	*200*	*400*
	FLUORENE	*500000*			*59*	*530*	*3500*	*120*	*170*	*1900*			*1300*	*190*	*1200*									
	NAPHTHALENE	*500000*			*44*	*220*	*2900*		*44*	*1500*														
	PENTACHLOROPHENOL	*6700*																						
	PHENANTHRENE	*500000*	*560*	*1100*	*800*	*6700*	*33000*	*1700*	*1900*	*20000*	*370*	*1100*	*14000*	*2800*	*16000*	*200*	*900*	*1200*	*140*	*45*	*1300*	*130*		*160*
	PHENOL	*500*																						
	PYRENE	*500000*	*1200*	*2200*	*1200*	*9100*	*32000*	*2400*	*2100*	*23000*	*740*	*1400*	*18000*	*4100*	*25000*	*340*	*1600*	*1900*	*330*	*100*	*1900*	*260*	*210*	*390*
	Total PAH	*500000*	*7540*	*13560*	*7404*	*60690*	*230100*	*15480*	*13327*	*152900*	*4693*	*8790*	*114510*	*26040*	*145950*	*1835*	*9340*	*11990*	*2120*	*737*	*12900*	*1660*	*1680*	*2410*
	Sample Depth (ft)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Italicized indicates parts per billion.
Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Sidewall Samples

	Sample Name	Commercial Standard	S1373	S1374	S1375	S1376	S1377	S1378	S1379	S1380	S1381	S1382	S1383	S1384	S1385	S1386	S1387	S1388	S1389	S1390	S1391	S1392	S1393	S1394
Metals	ALUMINUM	-	17100	7750	4410	9850	6230	8180	8900	14200	15100	15400	11700	12700	4080	10400	9470	11400	6610	8130	10700	16900	16600	5550
	ANTIMONY	-	2.3	17.5	2.1	10.4	9.3	5.9	8.9	2.2	2.1	2.7	2.5	2.9	0.76	1.3	14.1	1.9	2.3	2	0.77	1.8	1.7	17.5
	ARSENIC	16	20.9	44.8	5.4	21.2	18	30.9	19.4	25.8	45.3	15.4	15.3	16.6	4.3	16.7	14.5	18.8	10.3	16	16.9	20.3	17.7	10.6
	BARIUM	400	164	90	45.6	96.2	79.7	103	84.8	143	176	130	121	114	34.2	116	76.9	120	73.1	75.3	115	166	178	66.8
	BERYLLIUM	590	0.67	0.61	0.33	0.98	0.65	0.75	0.75	0.76	0.82	0.84	0.64	0.68	0.15	0.55	0.65	0.56	0.41	0.44	0.55	0.59	0.65	0.35
	CADMIUM	9.3	0.34	0.66	0.54	0.62	0.44	0.25	0.38	0.47	0.81	0.26	0.33	0.15	0.034	0.3	0.12	0.57	0.16	0.13	0.18	0.32	0.28	0.42
	CALCIUM	-	2680	4480	38900	12100	6630	7980	6160	7070	5830	10600	15900	17000	308000	23700	3090	6970	19400	19500	6160	1810	2580	54200
	CHROMIUM, TOTAL	-	21.7	43.4	12.5	17.4	11.4	23.4	22.5	22.7	24.1	23.3	18.9	19	7.8	16.4	18.6	20.4	11.7	13.6	15.4	23.1	21.9	129
	COBALT	-	9.1	13.6	4.2	11.4	7.9	12.5	9.4	9.8	11	10.8	8.1	9.1	1.9	8	9.5	8.1	5.5	6.6	7.5	8.7	8.7	7.1
	COPPER	270	42.9	101	38.4	177	143	7330	417	46.8	46.7	51.9	52.1	46	33.1	66.9	1110	70.9	63.3	77.2	42.3	49.5	38.8	249
	IRON	-	31800	190000	17300	36300	27900	55700	51300	24400	25200	31100	24700	29000	10300	24500	41200	40900	26100	30800	25600	36500	30200	51600
	LEAD	1000	184	828	184	501	545	604	521	220	237	166	194	163	43.8	180	506	108	291	267	83.8	192	141	31800
	MAGNESIUM	10000	3170	2090	2510	3140	2200	2550	2950	4410	4050	6170	5280	5800	10200	4890	1990	3850	3730	4150	3160	2970	3250	7740
	MANGANESE	-	1690	1250	223	489	268	474	1470	611	639	709	546	596	163	551	708	1040	555	653	865	1470	1620	461
	NICKEL	310	18.1	37.3	10.9	24.1	20.1	25.5	28.6	22.8	25.2	26.7	21.4	22.5	5.7	18.9	34.9	19.4	12.4	15.4	17.5	17.4	17.4	33.5
	POTASSIUM	-	2750	1400	993	2520	1280	2020	1860	4190	4360	3560	3330	3340	1190	2680	1640	2350	1470	1940	2670	2000	2550	1450
	SELENIUM	1500	1.3			1.8	0.94	1.6	1.6	1.1	1.8	0.69	0.71	0.94	0.54		0.55							
	SILVER	1500						0.5	0.26															0.66
	SODIUM	-	53.8	64.7	103	91.9	92.8	96.2	88.3	71.8	69.4	68.5	76.3	80.2	350	71.2	101	60	59.9	55.5	37.3	40.1	41	106
	VANADIUM	-	36	31.6	17.3	25.7	18.4	27.9	30.7	29.9	30.7	29.9	25.5	27.4	9.5	23	24	27.1	16.4	20.5	23	34.5	34.3	13.5
	ZINC	10000	156	277	98	481	316	751	361	213	416	129	130	113	50.7	129	229	239	110	118	112	205	164	119
	MERCURY	2.8	0.11	0.55	0.12	0.17	0.16	0.25	0.33	0.2	0.52	0.18	0.15	0.17	0.1	0.22	0.3	4.8	0.07	0.087	0.075	0.13	0.27	0.049
SVOCs	*ACENAPHTHENE*	*500000*				*2100*	*1500*	*920*	*380*						*1500*		*150*	*670*	*1100*	*2400*	*170*	*540*		*71*
	ACENAPHTHYLENE	*500000*				*1200*	*290*	*420*	*250*							*180*	*79*	*1100*	*620*	*1700*		*130*	*98*	*52*
	ANTHRACENE	*500000*				*5600*	*3300*	*2700*	*960*						*3300*		*410*	*2900*	*3300*	*6100*	*500*	*1200*	*78*	*280*
	BENZO(A)ANTHRACENE	*5600*	*510*	*270*	*430*	*14000*	*8200*	*7700*	*3500*						*6600*	*670*	*1600*	*9000*	*9900*	*15000*	*1400*	*2200*	*360*	*770*
	BENZO(A)PYRENE	*1000*	*510*	*230*	*420*	*12000*	*6600*	*6500*	*3000*						*5800*	*650*	*1400*	*7600*	*8300*	*12000*	*1200*	*1900*	*380*	*720*
	BENZO(B)FLUORANTHENE	*5600*	*740*	*310*	*560*	*14000*	*8200*	*10000*	*3500*						*6500*	*1100*	*1400*	*8800*	*8600*	*14000*	*1500*	*2400*	*460*	*780*
	BENZO(G,H,I)PERYLENE	*500000*	*410*	*120*	*250*	*8500*	*4600*	*4900*	*2200*						*4000*	*550*	*1100*	*4800*	*5400*	*8100*	*930*	*1300*	*310*	*500*
	BENZO(K)FLUORANTHENE	*5600*	*240*	*140*	*210*	*7200*	*4100*		*1700*						*3200*		*860*	*4300*	*5000*	*7800*	*650*	*900*	*220*	*410*
	CHRYSENE	*56000*	*590*	*290*	*500*	*14000*	*8200*	*7700*	*3700*						*6700*	*880*	*1700*	*9600*	*9500*	*14000*	*1500*	*2200*	*510*	*800*
	DIBENZ(A,H)ANTHRACENE	*560*				*2500*	*1400*	*1300*	*620*						*1300*		*320*	*1500*	*1600*	*2200*	*310*	*400*	*94*	*150*
	FLUORANTHENE	*500000*	*1000*	*420*	*700*	*31000*	*19000*	*15000*	*6700*						*15000*	*1300*	*2700*	*16000*	*19000*	*27000*	*3200*	*4700*	*740*	*1400*
	FLUORENE	*500000*				*3300*	*2000*	*1200*	*420*						*1500*	*140*	*140*	*1000*	*1200*	*2600*	*200*	*640*		*85*
	NAPHTHALENE	*500000*				*3500*	*2500*	*1200*	*280*						*1000*	*360*	*96*	*940*		*1200*		*270*		*38*
	PENTACHLOROPHENOL	*6700*																						
	PHENANTHRENE	*500000*	*580*	*250*	*310*	*28000*	*18000*	*13000*	*5400*						*15000*	*790*	*2200*	*11000*	*13000*	*22000*	*2300*	*4800*	*400*	*950*
	PHENOL	*500*																						
	PYRENE	*500000*	*990*	*400*	*700*	*24000*	*16000*	*13000*	*6900*						*13000*	*1200*	*3100*	*15000*	*18000*	*25000*	*2700*	*4300*	*720*	*1300*
	Total PAH	*500000*	*5880*	*2430*	*4290*	*179600*	*108990*	*90620*	*41540*	*0*	*0*	*0*	*0*	*0*	*88000*	*8300*	*18135*	*99340*	*109820*	*168600*	*17460*	*29200*	*4684*	*8799*
	Sample Depth (ft)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Italicized indicates parts per billion.
Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Sidewall Samples

	Sample Name	Commercial Standard	S1395	S1396	S1397	S1398	S1399	S1400	S1401	S1402	S1403	S1404	S1405	S1406	S1407	S1408	S1409	S1410	S1411	S1412	S1413	S1414	S1415	S1416
Metals	ALUMINUM	-	10600	3580	6700	4710	9970	2440	3570	4900	4660	12300	7030	16800	12900	12200	10100	4910	6350	10400	11400	7460	9550	9390
	ANTIMONY	-	2.1	2.1	8.9	40.3	14.3	1.3	1.1	1.1		0.7	14.3				4.2	3.8	5.3	10.7	2.8	5.6	3.8	6.4
	ARSENIC	16	25.1	15.2	50	18.3	23.7	4.4	28.2	6.2	3.1	22.3	35.5	16.9	17.8	26.9	21.2	14.1	17.2	22.4	31.5	210	81.8	189
	BARIUM	400	114	395	173	129	136	18.7	16.8	98.3	54.5	187	228	197	180	145	169	260	174	163	90.4	75.4	70.3	86.1
	BERYLLIUM	590	0.63	0.61	0.66	0.79	0.63	0.091	0.16	0.32	0.3	0.67	0.45	0.62	0.56	0.52	0.64	0.48	0.67	0.67	0.63	0.64	0.62	0.89
	CADMIUM	9.3	0.29		0.42	0.19	0.2			0.52	0.38	2.7	2.4	0.1	0.21	0.23	0.24	0.58	0.48	0.25	0.13	0.46	0.16	0.45
	CALCIUM	-	19700	1930	11600	6310	2340	274000	279000	56700	52200	10800	20400	2200	2490	2860	7030	19000	5680	5020	14500	28100	26500	31500
	CHROMIUM, TOTAL	-	18.6	11	15	11.2	15.3	7.7	9.4	19.4	8.9	38.2	126	27.8	20.2	18.5	20.6	33.9	29.6	19.5	15.3	12.8	13.6	16.6
	COBALT	-	9.4	5.1	8.9	9.4	8	1.8	2.3	4.5	3.3	9.7	14.4	9.3	8.2	7.7	9	5.2	7.1	9.9	9.2	7.8	8.3	8.9
	COPPER	270	141	75.1	395	239	194	30.3	8.1	68.8	30.7	234	587	20.3	44.2	48.6	78.8	90.7	99	178	55.2	76.7	61.7	71.2
	IRON	-	29100	36400	41000	31200	30300	10200	11700	23900	14200	31900	123000	40900	31300	27300	27900	19300	37300	36700	25200	24600	24100	30800
	LEAD	1000	434	265	472	1390	669	336	16.5	904	116	1000	14000	94.5	181	211	275	422	320	801	92.4	141	102	182
	MAGNESIUM	10000	4900	518	1910	848	2470	8290	10200	3210	2690	3570	2360	3250	2450	2620	2920	2090	1040	2520	4270	6120	4670	9790
	MANGANESE	-	660	146	606	280	749	139	155	281	241	552	1080	1490	1160	991	807	533	396	844	731	417	615	504
	NICKEL	310	21.8	11.5	20.6	15.7	17.8	7	11.1	21.3	9.5	27.8	136	18.1	19.8	16.9	21.9	18.4	19.6	23.2	21.5	20.2	20.3	23.2
	POTASSIUM	-	2600	671	1660	837	1720	959	1520	1300	1230	3010	1710	2380	2150	2340	2310	1620	1320	2110	2410	1850	2200	2250
	SELENIUM	1500	0.73	1.4	11	2	1.1					1.6			0.82		1.4	2	1.3	1.2		0.64	0.52	0.62
	SILVER	1500										0.51		0.35	0.28	0.27	0.34		0.41	0.34				
	SODIUM	-	60.7	38.5	55.1	65.7	36.1	154	194	121	112	157	128	41.5	40.4	42.6	53.9	57.3	56.8	55.2	54.6	55.3	76.5	70.2
	VANADIUM	-	25.3	18.1	24.3	20.1	24.5	6.3	8.4	16.6	14.4	26.7	21.9	34	28.7	26	25.4	23.7	30.1	26.8	23.3	17.7	21.5	22.4
	ZINC	10000	150	46.7	208	98	157	28.9	18.4	269	110	446	596	178	143	166	136	142	103	177	87.7	110	74.4	127
	MERCURY	2.8	0.23	0.27	0.23	0.18	0.12	0.02	0.036	0.11	0.046	0.6	0.79	0.094	0.17	0.07	0.22	0.23	0.19	0.24	0.087	0.16	0.071	0.21
SVOCs	*ACENAPHTHENE*	*500000*													*60*		*300*							
	ACENAPHTHYLENE	*500000*	*2000*	*110*	*410*		*200*						*170*	*71*	*160*	*180*	*280*			*840*	*500*	*1200*	*310*	*2900*
	ANTHRACENE	*500000*	*1300*	*95*	*330*		*470*			*290*	*290*				*270*	*320*	*930*			*670*	*280*	*650*	*160*	*1900*
	BENZO(A)ANTHRACENE	*5600*	*6000*	*490*	*1500*	*530*	*1400*	*130*	*96*	*800*	*910*	*370*	*750*	*280*	*1000*	*910*	*3300*	*930*	*900*	*3600*	*1300*	*3400*	*890*	*13000*
	BENZO(A)PYRENE	*1000*	*5300*	*500*	*1600*	*410*	*1000*	*140*	*92*	*720*	*870*	*360*	*680*	*200*	*880*	*920*	*2900*	*840*	*820*	*3700*	*1300*	*3500*	*910*	*12000*
	BENZO(B)FLUORANTHENE	*5600*	*8300*	*760*	*1900*	*570*	*1600*	*210*	*120*	*870*	*1100*	*490*	*950*	*260*	*980*	*1300*	*3600*	*1100*	*1400*	*5000*	*2100*	*6000*	*1600*	*19000*
	BENZO(G,H,I)PERYLENE	*500000*	*3900*	*420*	*1400*	*370*	*620*	*110*	*59*	*570*	*660*	*280*	*590*	*200*	*530*	*610*	*1800*	*740*	*640*	*2600*	*790*	*1800*	*490*	*5000*
	BENZO(K)FLUORANTHENE	*5600*	*3000*	*240*	*900*	*230*	*910*	*68*	*66*	*530*	*470*	*150*	*340*	*160*	*560*		*1400*	*420*		*2300*	*880*	*2000*	*640*	*8000*
	CHRYSENE	*56000*	*6800*	*980*	*2100*	*730*	*1700*	*160*	*100*	*940*	*1000*	*430*	*900*	*350*	*1200*	*1000*	*3400*	*1200*	*1100*	*4600*	*1600*	*4500*	*1400*	*15000*
	DIBENZ(A,H)ANTHRACENE	*560*	*1300*	*150*	*590*		*200*	*35*			*180*			*84*	*200*	*260*	*630*			*750*	*360*	*770*	*230*	*2300*
	FLUORANTHENE	*500000*	*10000*	*1300*	*3100*	*750*	*2600*	*180*	*140*	*1800*	*2100*	*630*	*1400*	*580*	*2100*	*2000*	*6600*	*1600*	*1700*	*8100*	*2100*	*5700*	*1800*	*15000*
	FLUORENE	*500000*	*140*	*40*			*150*								*100*		*330*			*200*			*32*	
	NAPHTHALENE	*500000*															*280*					*290*	*40*	
	PENTACHLOROPHENOL	*6700*																						
	PHENANTHRENE	*500000*	*1500*	*860*	*1200*	*470*	*1700*	*71*	*54*	*1300*	*1600*	*350*	*870*	*290*	*1400*	*1200*	*4200*	*850*	*850*	*3400*	*420*	*1400*	*510*	*2900*
	PHENOL	*500*																						
	PYRENE	*500000*	*11000*	*1100*	*2500*	*710*	*2500*	*190*	*150*	*1600*	*1900*	*580*	*1300*	*570*	*2000*	*2000*	*6100*	*1600*	*1700*	*7100*	*2300*	*5800*	*1800*	*27000*
	Total PAH	*500000*	*64820*	*7545*	*18920*	*5120*	*15920*	*1389*	*932*	*10040*	*11800*	*3910*	*8430*	*3267*	*12020*	*11270*	*38050*	*9910*	*9660*	*46000*	*14920*	*39360*	*11492*	*130450*
	Sample Depth (ft)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

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Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Sidewall Samples

	Sample Name	Commercial Standard	S1417	S1418	S1419	S1420	S1421	S1422	S1423	S1424	S1425	S1426	S1427	S1428	S1429	S1430	S1431	S1432	S1433	S1434	S1435	S1436	S1437	S1438
Metals	ALUMINUM	-	6460	8740	18000	7960	10300	8510	6050	2030	7140	10800	12400	10300	7270	10100	10900	10100	7230	6040	9780	6970	11600	15000
	ANTIMONY	-	9.6	4	2.6	10.4	1.5	5.5	20.4	0.93	6.8	1.6	2.8	1.5	44.4	14.7	13.3	19.3	8.8	3.9	33.8	1.6	12.8	
	ARSENIC	16	290	79.7	20	21.8	15.4	14.2	21.2	3.5	17.3	12.5	22.8	51.9	17.6	12.9	17.4	11	11.7	17.3	30.8	18.5	25.1	12.4
	BARIUM	400	102	66	73.9	108	82.9	81.6	199	12.5	155	135	110	123	290	290	121	113	70.3	85	131	94.5	153	103
	BERYLLIUM	590	0.84	0.6	0.74	0.72	0.55	0.56	0.43	0.068	0.57	0.51	0.79	0.72	0.38	0.36	0.57	0.45	0.52	0.51	0.9	0.57	0.59	0.72
	CADMIUM	9.3	0.67	0.24	0.07	0.13	0.45	0.42	0.047		0.41	0.46	0.91	0.19		0.9	0.1		0.062	2.4	0.94	0.28		
	CALCIUM	-	25700	16400	820	2200	39600	39800	7040	258000	12900	12000	3390	2670	14500	4270	5250	8440	2550	6770	6100	6670	6030	2900
	CHROMIUM, TOTAL	-	15.2	16.6	22.6	15.6	18.7	18.1	41.9	7.2	18.2	15.4	19.3	13.7	173	678	54.1	98.4	21.5	18.8	32.1	35.6	157	23.6
	COBALT	-	8.6	7.7	14	7.5	8.6	7.6	12.8	1.4	7.3	8.2	10.7	11.9	20.2	17	11.5	11.9	7.1	7	12.5	9.8	14.1	10.6
	COPPER	270	71	63.9	79.2	100	57.2	137	304	12.6	140	53.5	120	75.5	1070	578	265	492	857	370	655	566	1150	90.1
	IRON	-	30000	27900	33100	31800	26200	27700	186000	8980	36400	25600	37900	34300	275000	108000	89700	137000	48000	35900	59400	41700	129000	32200
	LEAD	1000	219	157	31.4	377	264	427	2940	152	546	95.5	136	75.6	16500	3500	4290	8430	422	476	913	558	2350	118
	MAGNESIUM	10000	8270	7200	3970	1420	5160	4240	1730	6510	2890	2950	3770	2630	2110	1990	2450	3260	1370	2890	1930	1850	3000	4030
	MANGANESE	-	306	629	1440	383	797	532	1300	121	535	533	1510	2200	2050	947	1090	1280	437	407	495	502	1020	520
	NICKEL	310	23.5	21	24.7	16.7	21.6	18	48.8	5	26.5	19	26.3	21.7	105	57.4	39	61.9	29.2	22.8	35.6	26.1	71.2	29.3
	POTASSIUM	-	1760	2000	2520	1380	2510	2110	1220	917	1830	1840	2370	1720	1420	1590	2470	2300	1300	1570	2050	1630	2390	3370
	SELENIUM	1500	1.5	0.7	0.49	1.8		0.69			1.1	0.6	0.59	0.88		6.4								
	SILVER	1500																	0.32					
	SODIUM	-	71.9	48.8	32.5	47.9	61.9	98.6	94.4	154	75.6	144	50.7	26.8	113	74.9	64.6	54.7	111	72.5	92.8	76	69	45.8
	VANADIUM	-	17.3	20.9	34.8	26.4	22.7	20.9	26	6.3	23.3	32.9	30.3	25.8	23	159	28.5	26.5	36.8	16.1	30.9	20.4	29.6	34.3
	ZINC	10000	131	92.6	121	82.1	149	145	349	24.3	186	178	203	130	356	438	181	216	242	633	328	322	811	95.6
	MERCURY	2.8	0.21	0.2	0.074	0.23	0.17	0.28	0.36	0.014	0.22	2.1	4.9	0.54	0.088	0.089	0.62	0.11	0.33	0.3	0.22	0.41	0.26	0.088
SVOCs	*ACENAPHTHENE*	*500000*									*3200*	*3500*	*5000*				*200*		*150*	*240*		*12000*	*32000*	*150*
	ACENAPHTHYLENE	*500000*	*1800*	*3300*	*32*	*210*	*150*	*410*	*1900*		*3800*	*960*	*1200*	*480*	*720*	*520*	*750*	*560*	*310*	*530*	*980*	*12000*	*24000*	*640*
	ANTHRACENE	*500000*	*1300*	*1900*				*260*	*1200*		*12000*	*9200*	*13000*	*520*			*980*		*350*	*760*		*45000*	*120000*	*700*
	BENZO(A)ANTHRACENE	*5600*	*5700*	*8600*	*150*	*960*	*660*	*1700*	*5700*		*26000*	*17000*	*26000*	*2100*	*2000*	*1300*	*4900*	*1800*	*1600*	*3000*	*3400*	*91000*	*250000*	*4200*
	BENZO(A)PYRENE	*1000*	*5900*	*8600*	*140*	*970*	*610*	*1600*	*5200*		*22000*	*14000*	*22000*	*1700*	*1900*	*1400*	*4100*	*1200*	*1500*	*2600*	*3100*	*60000*	*160000*	*3500*
	BENZO(B)FLUORANTHENE	*5600*	*10000*	*14000*	*220*	*1700*	*980*	*2400*	*6200*		*27000*	*17000*	*26000*	*2400*	*2500*	*2200*	*5200*	*2600*	*1700*	*3400*	*5700*	*78000*	*220000*	*3700*
	BENZO(G,H,I)PERYLENE	*500000*	*2800*	*3900*	*74*	*560*	*530*	*1200*	*3700*		*14000*	*8900*	*13000*	*1100*	*1600*	*1200*	*2700*	*1400*	*930*	*1800*	*2400*	*35000*	*95000*	*1500*
	BENZO(K)FLUORANTHENE	*5600*	*4200*	*5000*	*100*		*330*	*910*	*2500*		*12000*	*6900*	*11000*	*940*	*950*		*2300*		*890*	*1300*		*39000*	*88000*	*2200*
	CHRYSENE	*56000*	*8900*	*10000*	*230*	*1300*	*760*	*2000*	*6700*		*27000*	*17000*	*26000*	*2300*	*2400*	*1700*	*5300*	*2100*	*1800*	*3200*	*4100*	*91000*	*250000*	*5000*
	DIBENZ(A,H)ANTHRACENE	*560*	*1200*	*1800*			*190*	*370*	*1500*		*4600*	*3000*	*5200*	*460*	*520*	*420*	*1100*	*560*	*350*	*550*	*940*	*15000*	*34000*	*670*
	FLUORANTHENE	*500000*	*15000*	*15000*	*250*	*1700*	*1000*	*2500*	*10000*		*51000*	*38000*	*55000*	*3700*	*3300*	*2400*	*8000*	*2700*	*3100*	*5700*	*6100*	*190000*	*540000*	*6800*
	FLUORENE	*500000*	*260*						*630*		*4200*	*3600*	*5700*	*160*			*400*		*170*	*330*		*28000*	*66000*	*370*
	NAPHTHALENE	*500000*	*410*								*2700*	*2700*	*4900*				*250*		*97*	*160*		*24000*	*60000*	*76*
	PENTACHLOROPHENOL	*6700*																						
	PHENANTHRENE	*500000*	*4800*	*3400*	*87*	*840*	*390*	*1000*	*7300*		*37000*	*37000*	*58000*	*1900*	*1700*	*1100*	*4700*	*1300*	*2000*	*3700*	*3200*	*230000*	*660000*	*5200*
	PHENOL	*500*																						
	PYRENE	*500000*	*13000*	*14000*	*210*	*1500*	*1100*	*2500*	*11000*		*52000*	*36000*	*54000*	*3600*	*3900*	*2700*	*7800*	*3200*	*3000*	*5600*	*6100*	*170000*	*460000*	*7400*
	Total PAH	*500000*	*79870*	*94550*	*1590*	*10260*	*7160*	*18150*	*67660*	*0*	*312000*	*224060*	*340100*	*22710*	*22690*	*15910*	*51450*	*18520*	*18917*	*34630*	*38220*	*1168000*	*3191000*	*43906*
	Sample Depth (ft)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Italicized indicates parts per billion.
Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Sidewall Samples

	Sample Name	Commercial Standard		S1439	S1440	S1441	S1442	S1443	S1444	S1445	S1446	S1447	S1448	S1449	S1450	S1451	S1452	S1453	S1454	S1455	S1456	S1457	S1458	S1459
Metals	ALUMINUM	-		4370	16800	8840	19100	7170	6090	5760	7150	6800	4740	7810	12000	10300	12100	9940	9220	12400	12700	6200	9200	5100
	ANTIMONY	-		35.9		19.4	20.2	17.6	44.6	19.7	8.3	6.2	2.9	1.9	3.2	2.1	3.1	5.1	3.6	1.8	1.7	5.2	2.9	4.9
	ARSENIC		16	71.1	14.2	38.9	49.3	339	47.7	65.2	26	29	9.9	17.2	16.4	15.4	24	18.7	13.9	19.7	18	140	43.9	38.2
	BARIUM		400	111	131	130	60.7	91.3	281	102	263	167	55	85.5	115	107	182	195	188	117	109	73.8	90.6	109
	BERYLLIUM		590	0.41	0.84	0.72	0.24	0.55	0.85	0.62	0.74	0.81	0.66	0.53	0.66	0.59	0.73	0.6	0.56	0.59	0.55	0.53	0.63	0.58
	CADMIUM		9.3		0.22			3			10.3	10.3	1.8	2.9	0.3	0.39	1.5	0.26	0.053	0.13		0.39	0.3	0.35
	CALCIUM	-		2610	4530	6970	1940	8180	2290	2650	24700	22800	45300	4030	18500	61100	15100	3180	2630	2440	7620	84400	6660	7340
	CHROMIUM, TOTAL	-		72.8	24.8	159	347	83.9	47.8	81.5	50.4	36.6	15.6	13.3	21.7	16.7	24.5	16.9	13.2	16.4	22.8	13.5	14.7	12
	COBALT	-		31.5	12.9	23.1	25.3	16.6	15.1	21.8	12.4	11.2	9.6	7.2	9.5	7.7	9.4	8	8.6	10.5	8.5	6.8	8.5	7.9
	COPPER		270	268	56.9	456	279	293	269	482	307	232	71.3	75.5	57.9	62.8	83	96.5	48.6	39.3	28.8	80.7	67.9	103
	IRON	-		396000	30600	240000	221000	132000	134000	206000	77400	52700	23900	24500	27700	21100	25600	32500	28300	27300	28500	27200	25200	34800
	LEAD		1000	202	181	828	1740	5570	844	1080	466	526	237	135	778	240	641	288	106	52.2	26.8	168	136	219
	MAGNESIUM		10000	1340	4520	891	542	2240	1510	1070	3420	2760	3310	3190	5390	7500	5160	2460	2040	3500	4110	29000	3500	1520
	MANGANESE	-		3200	834	1460	1400	1270	900	1220	606	423	268	619	545	436	537	635	608	1140	828	404	692	339
	NICKEL		310	82.5	29.4	221	145	97.5	65	86.1	42.4	30.9	20.3	17.7	25.6	20.2	25.3	19	17.3	21.4	21.5	17.4	20.2	18
	POTASSIUM	-		812	4320	732	316	1730	1040	1030	1530	1530	1160	1840	2830	2690	2880	1910	1700	2420	2050	1890	1810	1100
	SELENIUM		1500						1.2			1.1		0.59	0.69		2.4	1						1.5
	SILVER		1500														0.47							
	SODIUM	-		51.1	71	93.8	209	56.9	59.6	61.4	176	135	71.3	61.7	78.6	128	97.6	50.6	41.7	44.8	38.8	117	54.3	56.4
	VANADIUM	-		23.4	31.8	27.7	12.3	22.7	19.5	21	25	22.4	15.2	17.7	26.2	23.6	31.6	23.7	21.8	26.8	26.6	16.7	21.3	17.2
	ZINC		10000	264	142	280	457	660	267	398	3020	879	297	280	135	127	407	150	102	130	92.7	234	129	167
	MERCURY		2.8	0.18	0.12	0.46	0.13	0.38	0.25	0.28	1.3	0.81	0.62	0.63	0.17	0.35	0.53	0.38	0.1	0.075	0.053	0.21	0.26	0.23
SVOCs	*ACENAPHTHENE*	*500000*	*160*			*210*				*520*	*150*	*410*	*200*	*170*										
	ACENAPHTHYLENE	*500000*	*510*	*2800*	*53*		*160*	*1100*	*600*	*610*	*340*	*340*	*1600*	*500*	*220*	*550*	*7200*	*560*	*140*	*68*	*52*	*2400*	*820*	*1500*
	ANTHRACENE	*500000*	*590*	*1600*	*67*	*600*			*740*	*1500*	*600*	*1400*	*1100*	*860*		*390*	*4900*	*880*	*150*			*1600*	*520*	*930*
	BENZO(A)ANTHRACENE	*5600*	*4000*	*11000*	*240*	*2000*	*660*	*2400*	*2500*	*4000*	*2200*	*3900*	*4000*	*4200*	*780*	*1500*	*19000*	*3500*	*810*	*320*	*170*	*6600*	*2400*	*4300*
	BENZO(A)PYRENE	*1000*	*3600*	*8900*	*220*	*1700*	*580*	*2500*	*2200*	*3300*	*2100*	*3500*	*3900*	*4000*	*720*	*1700*	*20000*	*3400*	*720*	*270*	*170*	*5900*	*2200*	*4100*
	BENZO(B)FLUORANTHENE	*5600*	*4200*	*11000*	*280*	*2000*	*750*	*4200*	*2900*	*4600*	*3000*	*4300*	*6400*	*4800*	*920*	*2000*	*24000*	*4600*	*910*	*380*	*310*	*9500*	*3500*	*6400*
	BENZO(G,H,I)PERYLENE	*500000*	*1900*	*4500*	*140*	*1200*	*450*	*2200*	*1900*	*2200*	*1500*	*2400*	*2700*	*2500*	*490*	*1100*	*14000*	*2300*	*470*	*180*	*130*	*4200*	*1600*	*2700*
	BENZO(K)FLUORANTHENE	*5600*	*2100*	*4900*	*110*	*740*	*330*	*1500*	*1400*	*1500*	*1100*	*1800*	*2500*	*2100*	*420*	*920*	*11000*	*1900*	*460*	*190*	*100*	*5700*	*2100*	*3400*
	CHRYSENE	*56000*	*5100*	*11000*	*260*	*2300*	*800*	*3100*	*2900*	*4000*	*2400*	*3900*	*4700*	*4400*	*900*	*1900*	*22000*	*4000*	*950*	*330*	*220*	*8500*	*2900*	*5000*
	DIBENZ(A,H)ANTHRACENE	*560*	*670*	*1600*	*50*	*280*		*710*	*560*	*700*	*510*	*690*	*890*	*740*		*360*	*3700*	*740*	*160*	*61*	*46*	*1400*	*560*	
	FLUORANTHENE	*500000*	*7300*	*17000*	*450*	*3700*	*1200*	*4100*	*5200*	*8700*	*4300*	*7900*	*7600*	*6500*	*1400*	*3100*	*42000*	*7200*	*1500*	*490*	*280*	*15000*	*4000*	*6900*
	FLUORENE	*500000*	*370*	*270*	*27*	*230*				*710*	*190*	*420*	*360*	*170*			*2200*		*36*			*270*		
	NAPHTHALENE	*500000*			*42*					*380*		*350*	*2100*											
	PENTACHLOROPHENOL	*6700*																						
	PHENANTHRENE	*500000*	*5400*	*4600*	*290*	*3100*	*730*	*1900*	*3500*	*7300*	*2700*	*5900*	*2400*	*3200*	*540*	*1500*	*23000*	*4000*	*700*	*150*	*78*	*4100*	*1000*	*1500*
	PHENOL	*500*																						
	PYRENE	*500000*	*8300*	*16000*	*420*	*4100*	*1300*	*3900*	*4900*	*7100*	*4200*	*6900*	*6800*	*6300*	*1300*	*3000*	*40000*	*6400*	*1300*	*520*	*320*	*13000*	*4100*	*7400*
	Total PAH	*500000*		*99670*	*2815*	*22140*	*6960*	*27960*	*29710*	*49510*	*26800*	*46630*	*50310*	*42980*	*8130*	*19210*	*246500*	*42120*	*8896*	*3139*	*1996*	*83270*	*27560*	*47290*
	Sample Depth (ft)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Italicized indicates parts per billion.
Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Sidewall Samples

	Sample Name	Commercial Standard	S1460	S1461	S1462	S1463	S1464	S1465	S1466	S1467	S1468	S1469	S1470	S1471	S1472	S1473	S1474	S1475	S1476	S1477	S1478	S1479	S1480	S1481
Metals	ALUMINUM	-	9290	15100	8230	9640	12900	6060	4800	11200	6290	5410	5740	13400	9780	3640	3530	4510	5580	4200	4940	13100	14600	12700
	ANTIMONY	-	3.9	2.1	9.1	7.4	2.8	2.5	1.5	2.1	3.5	2.4	5.8	2.2	2.4	1.7	1.4	3.9	6.8	3.5	19.3	2.1	1.2	1.5
	ARSENIC	16	32.3	14.9	18.6	16.7	11.9	10.6	6.3	18	17.5	14.4	72.5	21.2	19.1	4.1	3.4	7.7	11.3	7.8	13	18.7	15.1	15
	BARIUM	400	94.9	72.4	191	159	76.4	62.5	41.4	75.5	79.6	76	72.5	149	118	32.4	34.9	56.5	71.6	41	58.7	130	182	133
	BERYLLIUM	590	0.59	0.52	0.55	0.57	0.48	0.33	0.36	0.62	0.63	0.5	0.6	0.76	0.61	0.29	0.24	0.32	0.31	0.24	0.28	0.55	0.77	0.47
	CADMIUM	9.3	0.25	0.048	2.2	1.7	0.2	1.7	1	0.17	1.4	0.11	0.26	0.47	0.28	0.14	0.12	0.23	0.41	0.19	0.25	0.47	0.3	0.36
	CALCIUM	-	9370	2240	5290	4370	5060	89300	136000	5200	68600	5630	11900	17000	28200	17700	20900	23000	90600	131000	140000	4780	10900	1580
	CHROMIUM, TOTAL	-	18.7	19.1	48.4	34.4	21	17.9	10.4	17.2	12.5	8.9	13	22.4	16.4	6.1	5	11.1	18.2	9.2	10	19	16.5	15.3
	COBALT	-	9.8	9.3	10	9.1	9.4	5.6	6.1	9.2	9.4	6.7	7.8	9.8	7.9	2.7	2.5	4.1	5.1	3.6	4	7.9	9.1	7.2
	COPPER	270	110	37.7	255	192	55.5	67.2	43.4	50.7	96.4	78.5	88	66.6	75.3	31.5	19.5	60.7	137	34.6	29.8	40.2	35.7	25.6
	IRON	-	37400	33400	65600	50900	29000	18400	14600	30100	34800	22700	35800	28900	25000	13100	10300	20900	34000	17800	16500	26500	29000	23500
	LEAD	1000	215	51.5	536	555	203	300	169	106	136	132	206	248	332	108	87.1	386	2360	149	24500	196	163	117
	MAGNESIUM	10000	3210	3310	1960	2340	3000	5340	4950	4070	2760	1790	3960	5980	5820	2190	1960	2130	5960	5190	7600	3210	2520	2290
	MANGANESE	-	689	537	776	592	722	390	288	769	530	330	369	724	419	160	165	255	381	265	407	1020	1310	1360
	NICKEL	310	22.1	22.2	36.1	31.3	20.3	16.3	17	21.1	24.8	14.7	19.7	25.6	20.1	6.7	5.8	10.5	17.1	10.5	18.7	17.8	20.9	13.1
	POTASSIUM	-	1640	1620	1890	1510	1330	1900	1570	2200	1440	1220	1150	3430	2230	897	779	1080	1300	840	993	2290	2430	1600
	SELENIUM	1500	0.96		1.5	1.1	1.3			0.62	0.67	1	1.5	1.2	1							0.79		
	SILVER	1500																	0.25		0.83			0.23
	SODIUM	-	85.6	43.4	74	83.7	47.5	104	142	47.8	84.1	55.8	67.4	73.9	85.3	113	82.8	83.2	112	114	122	47.3	124	36.9
	VANADIUM	-	23.9	31.2	24.1	26.6	26.3	18	15.1	24.6	18.4	15.8	19.4	29.3	23.4	9.2	10.6	13.8	15.1	11.5	12.5	28.3	22.6	25.9
	ZINC	10000	146	90	535	417	116	184	326	116	85.4	52.1	93.4	180	123	52.6	36.4	89.5	135	63.7	70.9	186	141	135
	MERCURY	2.8	0.17	0.077	0.35	0.39	0.25	0.37	0.18	0.17	0.12	0.14	0.28	0.28	0.22	0.013	0.037	0.036	0.1	0.047	0.028	0.22	0.41	0.13
SVOCs	*ACENAPHTHENE*	*500000*				*180*										*560*	*150*	*590*						
	ACENAPHTHYLENE	*500000*	*970*		*200*	*270*	*120*	*340*	*240*	*190*	*93*	*250*	*2000*	*500*	*320*			*570*					*41*	
	ANTHRACENE	*500000*	*590*		*360*	*500*	*110*	*280*		*140*	*65*	*180*	*1200*			*1300*	*530*	*3000*	*320*					
	BENZO(A)ANTHRACENE	*5600*	*3200*	*83*	*1600*	*2200*	*460*	*1800*	*1300*	*800*	*310*	*830*	*6000*	*1500*	*1400*	*2700*	*1200*	*12000*	*1000*	*770*	*460*	*770*	*230*	*300*
	BENZO(A)PYRENE	*1000*	*2900*	*90*	*1700*	*2100*	*450*	*1800*	*1200*	*810*	*310*	*780*	*5800*	*1500*	*1300*	*2200*	*970*	*11000*	*810*	*640*	*450*	*650*	*230*	*270*
	BENZO(B)FLUORANTHENE	*5600*	*4500*	*140*	*2300*	*3000*	*620*	*2800*	*1800*	*1500*	*520*	*1600*	*9700*	*2000*	*1700*	*2400*	*1100*	*12000*	*1100*	*900*	*540*	*790*	*260*	*370*
	BENZO(G,H,I)PERYLENE	*500000*	*1800*	*72*	*1200*	*1400*	*350*	*1200*	*810*	*470*	*240*	*500*	*3600*	*1100*	*1000*	*1300*	*510*	*6600*	*530*	*490*	*320*	*420*	*170*	*210*
	BENZO(K)FLUORANTHENE	*5600*	*2500*	*43*	*950*	*980*	*260*	*1200*	*610*		*230*		*3800*	*870*	*720*	*1300*	*520*	*4900*	*430*	*290*	*270*	*400*	*140*	
	CHRYSENE	*56000*	*3500*	*130*	*1800*	*2700*	*570*	*2000*	*1400*	*940*	*480*	*1000*	*7200*	*2000*	*1700*	*2500*	*1200*	*10000*	*1100*	*710*	*510*	*810*	*260*	*310*
	DIBENZ(A,H)ANTHRACENE	*560*	*640*		*370*	*470*	*120*	*350*	*270*	*180*	*110*	*210*	*1300*	*450*	*390*	*310*		*1800*	*170*				*47*	
	FLUORANTHENE	*500000*	*5200*	*150*	*2700*	*4700*	*800*	*2300*	*1800*	*1100*	*500*	*1400*	*9900*	*3000*	*2600*	*5900*	*2400*	*19000*	*2000*	*1400*	*720*	*1400*	*410*	*530*
	FLUORENE	*500000*				*190*						*41*				*590*	*220*	*680*	*110*					
	NAPHTHALENE	*500000*			*260*	*210*				*33*		*43*				*210*	*280*	*440*						
	PENTACHLOROPHENOL	*6700*																						
	PHENANTHRENE	*500000*	*920*	*82*	*1500*	*2600*	*290*	*660*	*570*	*300*	*190*	*410*	*1500*	*1500*	*1300*	*5300*	*2000*	*10000*	*1400*	*910*	*290*	*940*	*260*	*350*
	PHENOL	*500*																						
	PYRENE	*500000*	*5300*	*150*	*2500*	*4000*	*840*	*3000*	*1900*	*1400*	*510*	*1500*	*11000*	*2900*	*2400*	*5100*	*2100*	*18000*	*1800*	*1300*	*700*	*1400*	*490*	*540*
	Total PAH	*500000*	*34090*	*1003*	*18810*	*26980*	*5328*	*18950*	*12630*	*8403*	*3821*	*9338*	*63530*	*17520*	*14980*	*33030*	*13730*	*117190*	*11400*	*7830*	*4570*	*7960*	*2708*	*3060*
	Sample Depth (ft)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Italicized indicates parts per billion.
Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Sidewall Samples

	Sample Name	Commercial Standard	S1482	S1483	S1484	S1485	S1486	S1487	S1488	S1489	S1490	S1491	S1492	S1493	S1494	S1495	S1496	S1497	S1498	S1499	S1500	S1501	S1502	S1503
Metals	ALUMINUM	-	12600	15400	3790	3440	8140	7120	4670	7560	2990	8120	7560	12000	13600	11900	5360	8270	5840	4160	8320	8240	8310	7770
	ANTIMONY	-	1.5	1.1	9.5	8.7	2.5	3.9	8.8	10.1		4.4	1	4.3	1.7	1.9	2.6	19.6	2.8	7.9	12.5	12.5	15.3	7.7
	ARSENIC	16	15.5	15	9.2	8.9	7.2	59.3	180	196	2.2	10.9	5.6	20.2	17.1	14.3	8.5	44.7	8.8	24.7	34.3	45	53.2	25.3
	BARIUM	400	112	120	61.5	57.9	111	76.7	66.5	93.2	18.5	70.2	43.3	152	149	117	59.7	193	45.6	131	91.5	116	101	107
	BERYLLIUM	590	0.46	0.55	0.24	0.22	0.37	0.6	0.73	0.71	0.21	0.48	0.42	0.5	0.57	0.61	0.3	0.63	0.35	0.57	0.64	0.8	0.67	0.74
	CADMIUM	9.3	0.24	0.24		0.05	0.43	0.18	0.37	0.46	0.067	0.6	0.22	0.5	0.49	0.64	0.35		0.48		0.23	2.8		0.13
	CALCIUM	-	1410	1280	194000	132000	122000	10600	43300	40200	25600	155000	78300	7100	6140	10300	28500	4690	37400	3610	4020	4130	2560	3210
	CHROMIUM, TOTAL	-	15.4	18.1	10.6	13	10.1	12.9	15.6	18.8	3.3	21.5	12	24.4	18.4	25.1	14.3	127	124	22.1	88	71.7	83.5	28.9
	COBALT	-	7.5	7.6	3.5	3.5	4.2	11.3	8.9	9.2	1.9	6.1	6	9.9	8.4	8.8	5.8	18.1	7.8	10.2	13.9	16.7	17.2	11.6
	COPPER	270	34.8	25	54.2	50.5	414	92	104	102	5.4	83.4	24.3	61.7	43.4	80.8	97	2490	71.5	787	227	316	293	269
	IRON	-	29100	27200	25700	35400	12700	32600	41400	44800	7370	19800	17100	43800	28700	27700	24400	198000	27100	74400	137000	119000	157000	68900
	LEAD	1000	69.3	54.8	190	207	69	175	219	279	124	629	310	252	197	185	278	3050	1450	827	1760	929	1840	425
	MAGNESIUM	10000	2390	2900	5600	5590	4750	3840	17600	17700	1570	8650	8280	2880	3120	4250	6560	3160	3730	900	2190	2440	2440	1620
	MANGANESE	-	1110	1220	348	365	381	461	399	551	138	431	421	1240	1340	889	420	1450	388	559	933	1040	1300	498
	NICKEL	310	14.4	15	11.4	11.1	10.1	20.9	25.3	24.7	3.8	17.7	17.2	27.7	17.1	22.9	15.8	81.3	34.3	26.5	90.6	99.7	85.1	40.1
	POTASSIUM	-	1720	2000	960	817	1410	1280	1250	1580	658	2230	2010	1790	2450	2590	1330	1420	1260	1070	1200	1470	1720	1320
	SELENIUM	1500	1.2	1.4	0.47			1.4		2.5								3.4	0.51	1.1	2.3	2.8	2.8	2.2
	SILVER	1500	0.25																					
	SODIUM	-	34.4	37.4	274	179	740	91.1	92.2	273	54.3	137	88.3	52	46.7	71.9	104	46	67.5	58.4	64.7	52.7	47.6	62.4
	VANADIUM	-	26.1	30.6	15.2	19.4	15.6	21.3	16.4	27	8	22.3	17.7	23.9	28.3	28.3	14	32.1	23.2	17.3	20	24.3	24	22.5
	ZINC	10000	108	113	70	71.3	69.7	86.2	122	174	19.9	138	57	201	200	226	204	924	133	169	190	1150	357	208
	MERCURY	2.8	0.057	0.053	0.0095	0.035	0.097	0.37	0.16	0.2		0.11	0.029	0.28	0.21	0.14	0.046	0.26	0.033	0.092	0.25	0.27	0.19	0.15
SVOCs	*ACENAPHTHENE*	*500000*					*2800*							*280*				*360*						
	ACENAPHTHYLENE	*500000*	*47*	*36*			*380*	*2400*	*5800*	*5800*			*24*	*240*	*180*	*210*	*280*	*1500*				*750*	*480*	*350*
	ANTHRACENE	*500000*					*5500*	*1200*	*3000*	*3400*			*52*	*730*		*440*		*3400*		*280*		*1200*		
	BENZO(A)ANTHRACENE	*5600*	*190*	*150*	*150*	*570*	*17000*	*6300*	*14000*	*13000*	*43*	*1500*	*230*	*2600*	*1100*	*1400*		*12000*	*200*	*1000*	*540*	*3300*	*1900*	*1500*
	BENZO(A)PYRENE	*1000*	*180*	*130*	*140*	*510*	*15000*	*6100*	*13000*	*14000*	*43*	*1600*	*230*	*2500*	*1100*	*1400*	*960*	*11000*	*240*	*900*	*620*	*3300*	*1700*	*1500*
	BENZO(B)FLUORANTHENE	*5600*	*260*	*190*	*180*	*650*	*17000*	*10000*	*23000*	*24000*	*62*	*2200*	*340*	*3200*	*1700*	*1900*	*1400*	*15000*	*340*	*1200*	*650*	*4200*	*2200*	*2100*
	BENZO(G,H,I)PERYLENE	*500000*	*150*	*100*	*95*	*390*	*8700*	*4500*	*9800*	*9600*	*38*	*1300*	*200*	*1700*	*820*	*1000*	*820*	*8300*	*290*	*770*	*650*	*2500*	*1500*	*1200*
	BENZO(K)FLUORANTHENE	*5600*	*100*	*61*		*260*	*9000*	*4000*	*9700*	*9700*	*23*	*680*	*98*	*1000*		*590*	*510*	*6500*		*400*	*410*	*1800*	*1100*	*880*
	CHRYSENE	*56000*	*240*	*180*		*570*	*16000*	*6900*	*15000*	*17000*	*49*	*1700*	*250*	*2700*	*1100*	*1500*		*12000*	*250*	*1100*	*680*	*4100*	*2000*	*1800*
	DIBENZ(A,H)ANTHRACENE	*560*						*1800*	*3900*	*3300*		*420*	*51*	*580*	*270*	*360*	*270*	*2500*		*190*		*780*		
	FLUORANTHENE	*500000*	*360*	*260*	*250*	*930*	*40000*	*9300*	*19000*	*21000*	*66*	*2900*	*400*	*5500*	*2100*	*3000*	*1700*	*27000*	*370*	*1900*	*930*	*7300*	*3600*	*3000*
	FLUORENE	*500000*					*2100*							*280*		*180*		*1600*				*480*		
	NAPHTHALENE	*500000*					*680*		*350*															
	PENTACHLOROPHENOL	*6700*																						
	PHENANTHRENE	*500000*	*230*	*180*	*160*	*410*	*35000*	*1400*	*2300*	*2600*		*1500*	*210*	*3400*	*1200*	*2100*	*810*	*16000*	*190*	*1500*	*510*	*5700*	*2100*	*2100*
	PHENOL	*500*																						
	PYRENE	*500000*	*390*	*290*	*220*	*890*	*31000*	*10000*	*21000*	*25000*	*63*	*2500*	*370*	*4500*	*1800*	*2600*	*1700*	*24000*	*360*	*1900*	*950*	*6900*	*3300*	*3000*
	Total PAH	*500000*	*2277*	*1665*	*1195*	*5500*	*210860*	*68530*	*151550*	*159800*	*421*	*17400*	*2654*	*30850*	*12200*	*17880*	*9160*	*148700*	*2500*	*11950*	*6570*	*44900*	*21080*	*18530*
	Sample Depth (ft)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Italicized indicates parts per billion.
Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Sidewall Samples

	Sample Name	Commercial Standard	S1504	S1505	S1506	S1507	S1508	S1509	S1510	S1511	S1512	S1513	S1514	S1515	S1516	S1517	S1518	S1519	S1520	S1521	S1522	S1523	S1524	S1525
Metals	ALUMINUM	-	3910	4630	5410	5660	4340	6690	5440	6760	7240	6550	10000	8500	6840	8260	8840	6770	10600	11700	9960	9340	1740	13800
	ANTIMONY	-	72.9	19.3	34.5	74.6	34.1	1.4	0.67	3	1.4	1.7	2.3	2.3	2				2.2	1.6	10	11.1		
	ARSENIC	16	85.7	44.9	65.8	30.3	35.2	13.7	7.2	15.1	11	6.3	11.6	9.3	7.7	5.9	12	9.5	11	10.7	12	11.1	2.4	12.6
	BARIUM	400	49.7	86.1	92.5	196	113	60.5	41.1	66.4	45	51.1	94.7	59.1	52.2	53.1	114	32.6	172	89.2	104	102	11.2	127
	BERYLLIUM	590	0.33	0.61	0.48	0.43	0.37	0.34	0.33	0.42	0.44	0.32	0.52	0.51	0.41	0.37	0.44	0.28	0.55	0.46	0.44	0.37	0.066	0.55
	CADMIUM	9.3			0.27			0.21	0.21	0.26	0.21	0.097	0.43	0.21	0.086	0.24	0.63	0.13	0.79	0.28	0.76	0.91	0.031	0.27
	CALCIUM	-	2690	2650	4340	6660	4240	42400	20900	32500	22100	20300	23900	20700	25300	51700	36300	144000	21500	2200	12700	4890	266000	10200
	CHROMIUM, TOTAL	-	154	126	214	456	186	10	11.5	15.7	12.1	8.7	23.1	19.5	11.5	14.9	19.7	13.4	30.7	26.5	59.4	76.3	4.9	16.6
	COBALT	-	14.4	16	29	36.5	28.9	5	4.7	6.9	5.7	5.1	7.4	6.7	5	6.2	6.7	4.9	8.1	9	10.3	8.9	0.83	7.1
	COPPER	270	271	350	466	2040	996	31.3	30.1	63.2	42.3	23.1	70.1	60.3	32.9	26.8	60.7	72.5	222	257	152	382	3	26.2
	IRON	-	210000	169000	215000	218000	205000	16100	14300	41400	22300	19800	24900	26900	21900	16400	19900	12400	34600	47400	105000	111000	3310	26500
	LEAD	1000	73300	383	10800	10900	15800	106	140	246	209	119	751	155	118	75.8	255	73.1	1220	4720	5110	6400	9	58.3
	MAGNESIUM	10000	810	957	1560	1580	1250	3630	4500	4270	4210	4640	4590	5430	5040	18200	4080	14900	3550	3280	2810	1750	8960	3010
	MANGANESE	-	1130	1120	1370	1320	1370	444	405	528	420	310	563	434	410	271	474	337	564	727	959	1040	53.6	1360
	NICKEL	310	79	147	160	345	211	12.6	11.1	18.2	14.4	11.3	19.5	19	13.3	15	16.2	12.4	22.6	28.9	50.5	48.2	3.6	14.1
	POTASSIUM	-	528	719	830	1910	726	1540	1470	1570	1550	1120	2590	2330	2020	2060	2230	2130	2020	1810	1690	1410	932	2130
	SELENIUM	1500		2.8	2.8	5	4.1																	
	SILVER	1500	0.87			0.87																		
	SODIUM	-	48.4	67	69.9	142	74	53	65.7	82.2	79.2	69.5	77.4	83.5	85.8	92.2	95.8	90.2	92	44.2	86.5	74	163	278
	VANADIUM	-	14.3	23.4	27.7	116	27.4	14.5	13.4	21.7	18	16.8	23.1	19.9	15.8	16.3	20.5	15.4	23.1	20.8	25.4	28.3	4.3	27.5
	ZINC	10000	233	362	519	502	413	86.2	61.2	97.3	75.9	73.4	141	98.5	73	73	132	38.7	150	208	125	201	18.3	102
	MERCURY	2.8	0.096	0.32	0.19	0.13	0.22	0.069	0.04	0.068	0.052	0.031	0.092	0.063	0.051	0.03	0.076	0.033	0.24	0.087	0.11	0.1	0.0081	0.1
SVOCs	*ACENAPHTHENE*	*500000*			*1400*			*680*	*360*	*71*	*34*	*790*	*2700*	*210*	*66*		*810*	*44*						
	ACENAPHTHYLENE	*500000*		*310*	*420*	*370*		*230*	*120*	*91*	*89*	*200*	*620*	*170*	*200*		*400*	*110*	*970*	*77*	*660*	*780*		*55*
	ANTHRACENE	*500000*			*3200*			*1800*	*940*	*250*	*120*	*1700*	*5600*	*530*	*260*	*380*	*2400*	*230*	*550*	*84*	*640*	*690*		*100*
	BENZO(A)ANTHRACENE	*5600*	*1500*	*970*	*9000*	*1500*	*690*	*3600*	*2200*	*870*	*480*	*3800*	*9000*	*1400*	*1000*	*1200*	*4800*	*820*	*2300*	*360*	*2700*	*2400*		*570*
	BENZO(A)PYRENE	*1000*	*1500*	*1100*	*5900*	*1500*	*710*	*3200*	*2000*	*810*	*460*	*3300*	*7800*	*1200*	*940*	*1200*	*4300*	*710*	*2500*	*360*	*2800*	*2500*		*560*
	BENZO(B)FLUORANTHENE	*5600*	*1900*	*1500*	*7500*	*2400*	*1200*	*3500*	*2600*	*970*	*620*	*3900*	*8300*	*1400*	*1200*	*1400*	*5000*	*880*	*3800*	*460*	*4300*	*3000*	*32*	*670*
	BENZO(G,H,I)PERYLENE	*500000*	*1200*	*980*	*3400*	*1400*	*800*	*2100*	*1300*	*570*	*320*	*2100*	*4700*	*890*	*710*	*760*	*2700*	*460*	*2100*	*290*	*2100*	*2000*		*450*
	BENZO(K)FLUORANTHENE	*5600*	*590*	*560*	*4300*	*810*	*370*	*1900*	*1000*	*500*	*260*	*1800*	*4600*	*810*	*580*	*540*	*2300*	*440*		*190*		*1200*		*360*
	CHRYSENE	*56000*	*1700*	*1200*	*8400*	*1600*	*890*	*3600*	*2300*	*870*	*510*	*3800*	*8800*	*1300*	*990*	*1100*	*4500*	*820*	*2800*	*400*	*3100*	*2800*		*580*
	DIBENZ(A,H)ANTHRACENE	*560*		*280*	*1200*			*790*	*360*	*200*	*120*	*630*	*1500*	*290*	*240*	*170*	*810*	*150*	*560*	*87*	*650*	*580*		*140*
	FLUORANTHENE	*500000*	*2900*	*2100*	*19000*	*2500*	*1400*	*8400*	*4900*	*1600*	*850*	*7900*	*20000*	*2500*	*1700*	*2200*	*9800*	*1400*	*4000*	*690*	*5000*	*4600*		*1000*
	FLUORENE	*500000*			*790*			*700*	*360*	*70*	*36*	*760*	*2800*	*190*	*71*	*130*	*960*	*78*		*39*	*240*			*33*
	NAPHTHALENE	*500000*						*290*	*160*		*49*	*360*	*730*	*120*			*870*							
	PENTACHLOROPHENOL	*6700*																						
	PHENANTHRENE	*500000*	*2300*	*1300*	*13000*	*870*	*820*	*7400*	*4100*	*1000*	*440*	*7500*	*19000*	*2000*	*800*	*1500*	*9500*	*830*	*2100*	*450*	*2700*	*2400*		*510*
	PHENOL	*500*																						
	PYRENE	*500000*	*3100*	*2100*	*15000*	*2400*	*1200*	*5600*	*4100*	*1400*	*760*	*7200*	*18000*	*2400*	*1700*	*2000*	*9100*	*1400*	*4300*	*590*	*4600*	*4700*		*960*
												93												
	Total PAH	*500000*	*17790*	*13350*	*97210*	*16550*	*8730*	*46090*	*28090*	*9871*	*5481*	*47740*	*117750*	*16180*	*11131*	*13420*	*60700*	*8828*	*27860*	*4401*	*31620*	*29250*	*32*	*6458*
	Sample Depth (ft)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Italicized indicates parts per billion.
Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Sidewall Samples

	Sample Name	Commercial Standard	S1526	S1527	S1528	S1529	S1530	S1531	S1532	S1533	S1534	S1535	S1536	S1537	S1538	S1539	S1540	S1541	S1542	S1543	S1544	S1545	S1546	S1547
Metals	ALUMINUM	-	10600	8500	8920	18000	19700	7270	8670	53700	5110	8250	1810	7350	7880	5880	7080	5890	7820	14300	5900	5740	9800	6690
	ANTIMONY	-	2.3		2.9			9.4	2.3		4.4		1	0.57		3.4	1.2	4.1	3.6	1.2				4.9
	ARSENIC	16	12.8	14.8	13.9	14.6	16.2	11.7	13	44.5	7.2	19.9	3.8	8.2	16.9	17.3	17.7	6.9	8.7	14.2	4.6	8.6	12.7	5.5
	BARIUM	400	127	88.8	66.3	139	147	126	97.2	258	250	85	23	118	162	136	84.3	63.8	99.4	130	28.2	49	65.2	61.7
	BERYLLIUM	590	0.45	0.51	0.5	0.95	1	0.36	0.46	2.7	0.34	0.5	0.19	0.43	0.49	0.85	0.51	0.34	0.4	0.77	0.27	0.26	0.37	0.37
	CADMIUM	9.3	0.92	0.35	0.43	0.26	0.31	1	1.5	1.9	0.69	0.35	0.22	0.3	0.74	0.46	0.65	0.67	0.79	0.73	0.25	0.089	0.24	0.39
	CALCIUM	-	53900	37200	47600	2840	2700	6350	19300	47300	50100	23500	98100	86200	17300	10200	43900	59600	41400	4980	36500	153000	13700	44200
	CHROMIUM, TOTAL	-	15.7	15.6	16.1	24.1	26.4	67.9	56.5	85.3	16.4	12.5	11.7	15.5	20.7	19.9	29	10.5	14.1	22	8.9	7.3	10.4	11.9
	COBALT	-	6.1	7.1	6.8	15.8	17	10.1	9.3	40	4.6	7.4	2.7	5.5	8	7.9	10.3	4	5.5	10.7	4.1	4.2	10.7	4.5
	COPPER	270	42.6	49.5	71.1	29.5	32.7	414	146	212	65.3	78	32.1	39.4	71.4	66	88	73.5	85.2	88.7	17	19.9	743	44.1
	IRON	-	21400	20900	28300	31400	35500	87800	44100	132000	12700	23600	18400	17100	27100	44800	91700	12300	21400	27600	11600	11300	8390	13300
	LEAD	1000	202	149	3060	25.8	23	6050	2210	5190	2210	2260	1880	90.9	601	307	439	2090	1890	502	60.9	16.8	5.8	1160
	MAGNESIUM	10000	3560	4380	19900	4880	5540	2400	3590	20700	6370	4220	58500	13400	4730	2090	6480	4260	4030	4030	4760	9570	3080	5230
	MANGANESE	-	1010	525	477	927	926	900	755	3890	283	699	445	301	547	437	775	314	436	706	379	435	299	301
	NICKEL	310	14	17.6	25.6	32.5	36	44.2	29.6	99.9	29.9	18.7	15.9	15.6	20.9	24	28.5	12.9	15.4	25.1	10.2	12.4	9	13.4
	POTASSIUM	-	1870	2070	2230	4010	4160	1780	2300	12900	1300	1590	594	2140	1830	1300	1690	1680	2070	4380	1730	1330	1170	1960
	SELENIUM	1500					0.7	1.8								0.8				1.7				
	SILVER	1500																						
	SODIUM	-	174	82.5	114	58.9	72.8	230	344	2930	135	114	136	141	78.1	121	108	136	197	517	132	321	175	91.2
	VANADIUM	-	23.1	20.4	20.2	35.3	38.3	25.4	26.4	127	28.1	20.1	21.2	16.7	17.6	23.9	23.5	23.4	30.3	30.2	16.7	11	15	22.5
	ZINC	10000	626	110	145	91.5	97.1	274	267	444	116	131	28.5	85.8	204	219	183	116	141	256	119	43.4	127	100
	MERCURY	2.8	0.077	0.071	0.072	0.7	0.068	0.17	0.2	0.035	0.39	0.11	0.58	0.064	0.098	0.16	0.1	7	0.78	0.67	0.02		0.064	1.5
SVOCs	*ACENAPHTHENE*	*500000*	*44*		*810*									*160*	*400*	*170*	*710*							*260*
	ACENAPHTHYLENE	*500000*	*47*	*200*	*240*			*850*	*870*		*1200*	*290*	*11000*		*620*	*250*	*390*	*440*	*880*	*620*			*13000*	*2200*
	ANTHRACENE	*500000*	*130*	*420*	*1900*				*940*		*540*		*5400*	*600*	*1200*	*480*	*2200*						*6800*	*1300*
	BENZO(A)ANTHRACENE	*5600*	*570*	*1300*	*4300*			*2300*	*4200*	*400*	*4200*	*870*	*23000*	*1600*	*5400*	*1900*	*4800*	*1000*	*2000*	*1800*		*48*	*26000*	*6100*
	BENZO(A)PYRENE	*1000*	*590*	*1200*	*3700*	*37*		*2500*	*4300*	*440*	*6000*	*970*	*27000*	*1600*	*5400*	*1900*	*4400*	*1400*	*3000*	*2000*	*570*	*54*	*30000*	*5900*
	BENZO(B)FLUORANTHENE	*5600*	*790*	*1400*	*4700*	*42*		*3400*	*5300*	*840*	*7300*	*1000*	*30000*	*1900*	*6000*	*2300*	*4500*	*1800*	*3700*	*2600*	*730*	*68*	*33000*	*7400*
	BENZO(G,H,I)PERYLENE	*500000*	*500*	*990*	*2400*	*32*		*2300*	*3600*	*430*	*7000*	*770*	*20000*	*1100*	*3400*	*1300*	*2600*	*1700*	*3200*	*1800*	*600*	*42*	*19000*	*4100*
	BENZO(K)FLUORANTHENE	*5600*	*280*	*780*	*1900*			*1200*	*2700*		*3000*	*610*	*17000*	*840*	*3300*	*960*	*2300*	*740*	*1400*	*1000*			*20000*	*3600*
	CHRYSENE	*56000*	*610*	*1300*	*4300*			*3000*	*4700*	*490*	*5700*	*910*	*21000*	*1700*	*4800*	*2000*	*4500*	*1300*	*2700*	*2300*	*660*	*48*	*25000*	*7000*
	DIBENZ(A,H)ANTHRACENE	*560*	*130*	*300*	*660*			*480*	*1000*		*1500*	*210*	*6800*	*310*	*1100*	*440*	*840*	*490*	*890*	*710*			*7900*	*1500*
	FLUORANTHENE	*500000*	*1100*	*2300*	*9200*	*56*		*4800*	*8100*	*710*	*12000*	*1400*	*28000*	*3400*	*8800*	*3400*	*9600*	*2400*	*4300*	*3700*	*1000*	*63*	*30000*	*19000*
	FLUORENE	*500000*	*35*	*150*	*960*				*300*				*870*	*200*	*410*		*790*						*810*	*1300*
	NAPHTHALENE	*500000*			*980*										*130*		*560*						*510*	*1700*
	PENTACHLOROPHENOL	*6700*																						
	PHENANTHRENE	*500000*	*610*	*1600*	*8300*	*43*		*2800*	*4100*	*250*	*6000*	*540*	*9200*	*2300*	*4500*	*2200*	*7000*	*890*	*1800*	*2100*			*6600*	*19000*
	PHENOL	*500*																						
	PYRENE	*500000*	*1100*	*2300*	*7400*	*64*		*4700*	*7500*	*640*	*11000*	*1400*	*29000*	*3000*	*8500*	*3000*	*8200*	*2300*	*4200*	*3600*	*830*	*57*	*32000*	*15000*
	Total PAH	*500000*	*7009*	*15220*	*54240*	*274*	*0*	*30380*	*50950*	*4550*	*70900*	*9620*	*250170*	*19870*	*57460*	*21700*	*55970*	*15560*	*30170*	*23630*	*4830*	*417*	*270620*	*99500*
	Sample Depth (ft)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Italicized indicates parts per billion.
Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 4b - Compliance Sampling Results
Sidewall Samples

	Sample Name	Commercial Standard	S1548	S1549	S1550	S1551	S1552	S1553	S1554	S1555
Metals	ALUMINUM	-	6270	7250	9580	8710	13600	4080	4050	8740
	ANTIMONY	-	13.5			0.87		2		
	ARSENIC	16	6.7	4.2	4.8	7.2	7.6	10.2	1.1	7.9
	BARIUM	400	76.8	38.2	53	87.4	82.2	71.7	14.5	59.7
	BERYLLIUM	590	0.34	0.41	0.52	0.46	0.74	0.29	0.27	0.5
	CADMIUM	9.3	0.76	0.16	0.2	1.3	0.53	0.42	0.077	0.28
	CALCIUM	-	65500	144000	55200	39600	35800	61900	23600	58400
	CHROMIUM, TOTAL	-	11.2	10.6	13.7	31	32.1	9.7	4.7	14.8
	COBALT	-	4.3	5.9	8.1	6.6	11.3	4.3	2.8	6.7
	COPPER	270	2630	22.1	27.7	54.4	90.5	39.8	6	41.8
	IRON	-	13900	13800	19000	19400	23200	22700	10000	22000
	LEAD	1000	2970	126	130	160	72.3	196	3.3	228
	MAGNESIUM	10000	4130	7730	10900	5320	8850	4210	2000	21300
	MANGANESE	-	325	329	471	497	494	248	217	446
	NICKEL	310	15.5	16.9	22.2	17.7	29.9	10.9	5.2	17.6
	POTASSIUM	-	1640	2240	2890	2190	3410	1030	725	2450
	SELENIUM	1500								
	SILVER	1500	1.1			0.41				
	SODIUM	-	117	114	88.4	70.7	94.3	100	85.5	106
	VANADIUM	-	24.1	15.2	20.9	20	28.9	12.5	13.2	21.3
	ZINC	10000	184	42.1	58.6	146	111	102	20.9	68.8
	MERCURY	2.8	1.6	0.021	0.041	0.099	0.11	0.44	0.0097	0.32
SVOCs	*ACENAPHTHENE*	*500000*						*2200*		
	ACENAPHTHYLENE	*500000*	*1600*	*180*		*200*				
	ANTHRACENE	*500000*	*780*			*280*		*4600*		
	BENZO(A)ANTHRACENE	*5600*	*3500*	*370*	*300*	*1000*	*350*	*8300*		*890*
	BENZO(A)PYRENE	*1000*	*3500*	*480*	*330*	*1000*	*400*	*6400*		*1100*
	BENZO(B)FLUORANTHENE	*5600*	*4400*	*600*	*400*	*1200*	*440*	*8700*		*1400*
	BENZO(G,H,I)PERYLENE	*500000*	*2900*	*310*	*250*	*730*	*270*	*4100*		*980*
	BENZO(K)FLUORANTHENE	*5600*	*1800*	*230*	*160*	*540*	*220*	*3300*		*510*
	CHRYSENE	*56000*	*4100*	*490*		*1100*	*390*	*8000*		*1000*
	DIBENZ(A,H)ANTHRACENE	*560*	*900*			*240*		*1500*		
	FLUORANTHENE	*500000*	*6000*	*800*	*330*	*1900*	*600*	*19000*		*1500*
	FLUORENE	*500000*						*2200*		
	NAPHTHALENE	*500000*						*460*		
	PENTACHLOROPHENOL	*6700*								
	PHENANTHRENE	*500000*	*2800*	*280*		*1200*	*270*	*20000*		*520*
	PHENOL	*500*								
	PYRENE	*500000*	*6500*	*610*	*340*	*1800*	*570*	*15000*		*1500*
	Total PAH	*500000*	*40980*	*4620*	*2300*	*11960*	*3730*	*107660*	*0*	*10170*
	Sample Depth (ft)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Italicized indicates parts per billion.
Otherwise parts per million.
Bold indicates PAHs as defined by the National Center for Biotechnology Information

Metals only failures
PAH only failures
PAH exceedance of 500 ppm
Metal and PAH failures
Does not meet Commercial Standards

Table 5: Backfill Quantities & Sources

Table 5 – Backfill Quantities and Sources
Construction Completion Report
Union Fork and Hoe
Frankfort, NY

Fill type	Source	Quantity
Common Fill	Weakley Sand & Gravel Co.	34,626 tons
Topsoil	Route 5 Sand and Gravel	17,232 tons
# 2 Crushed Stone	Material Sand and Gravel Co.	848 tons

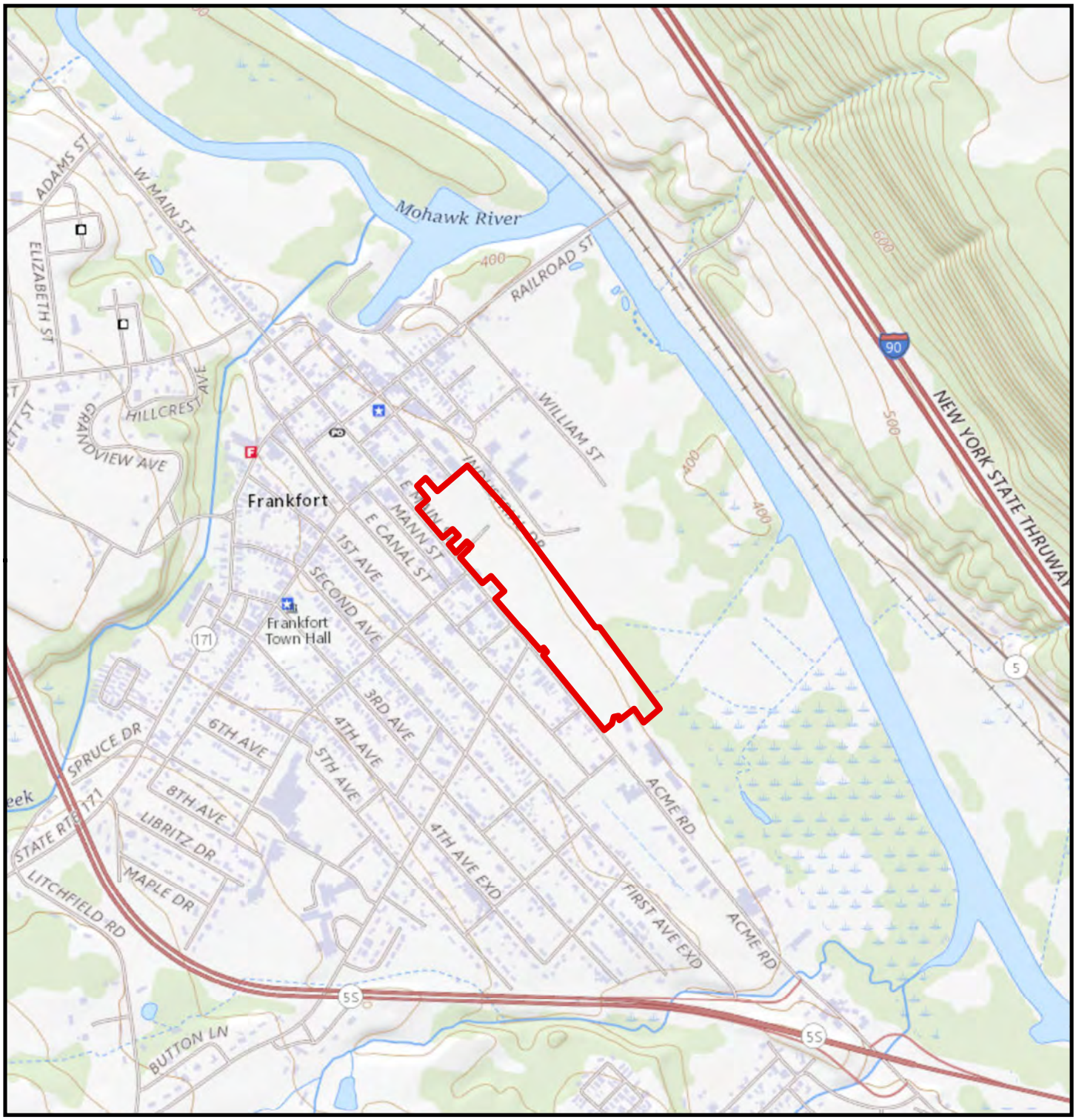
Weakley Sand and Gravel Co.
8968 North Main Street
Poland, NY 13431

Route 5 Sand and Gravel
5967 State Route 5
Herkimer, NY 13350

Material Sand and Gravel Co.
172 Hinckley Road
Poland, NY 13413

Figures:

FIGURE 1 – SITE LOCATION MAP



Legend

Property Boundary

*All locations are approximate

TETRA TECH

Figure 1
Site Location Map

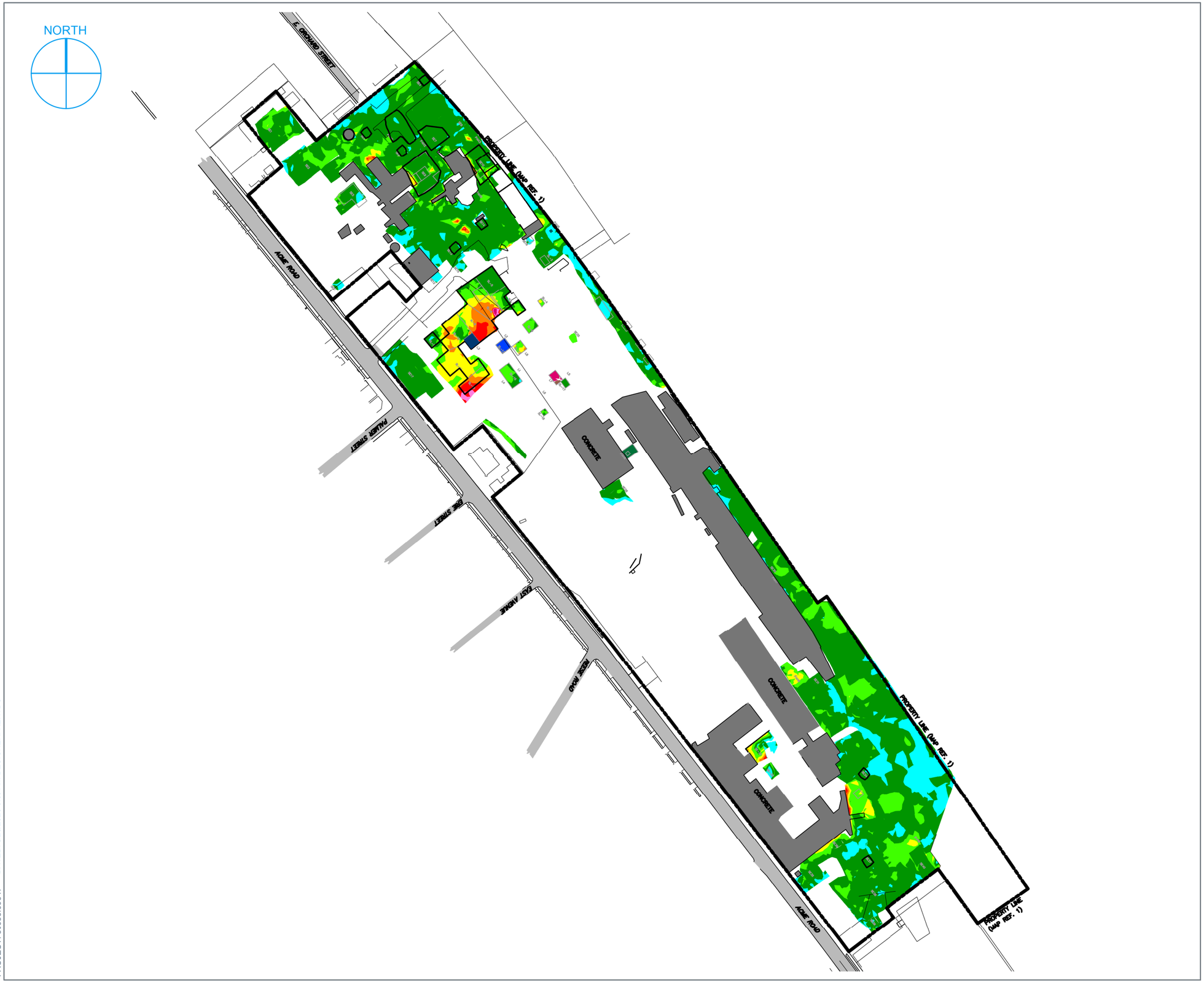
Approximate scale:

0 600 1,200 2,400 3,600 Feet

Union Fork & Hoe
253 Main Street
Frankfort, NY

Service Layer Credits: USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data; Natural Earth Data; U.S. Department of State Humanitarian Information Unit; and NOAA National Centers for Environmental Information, U.S. Coastal Relief Model. Data refreshed June, 2020.

FIGURE 2 – CONTOUR MAP OF CUT THICKNESS



LEGEND

- 0-1' CUT
- 1-2' CUT
- 2-3' CUT
- 3-4' CUT
- 4-5' CUT
- 5-6' CUT
- 6-7' CUT
- 7-8' CUT
- 8-9' CUT
- 10-11' CUT
- 11-12' CUT
- 12-13' CUT
- 13-14' CUT
- PROPERTY LINE

250' 0 250'

CONTOUR MAP OF CUT THICKNESS

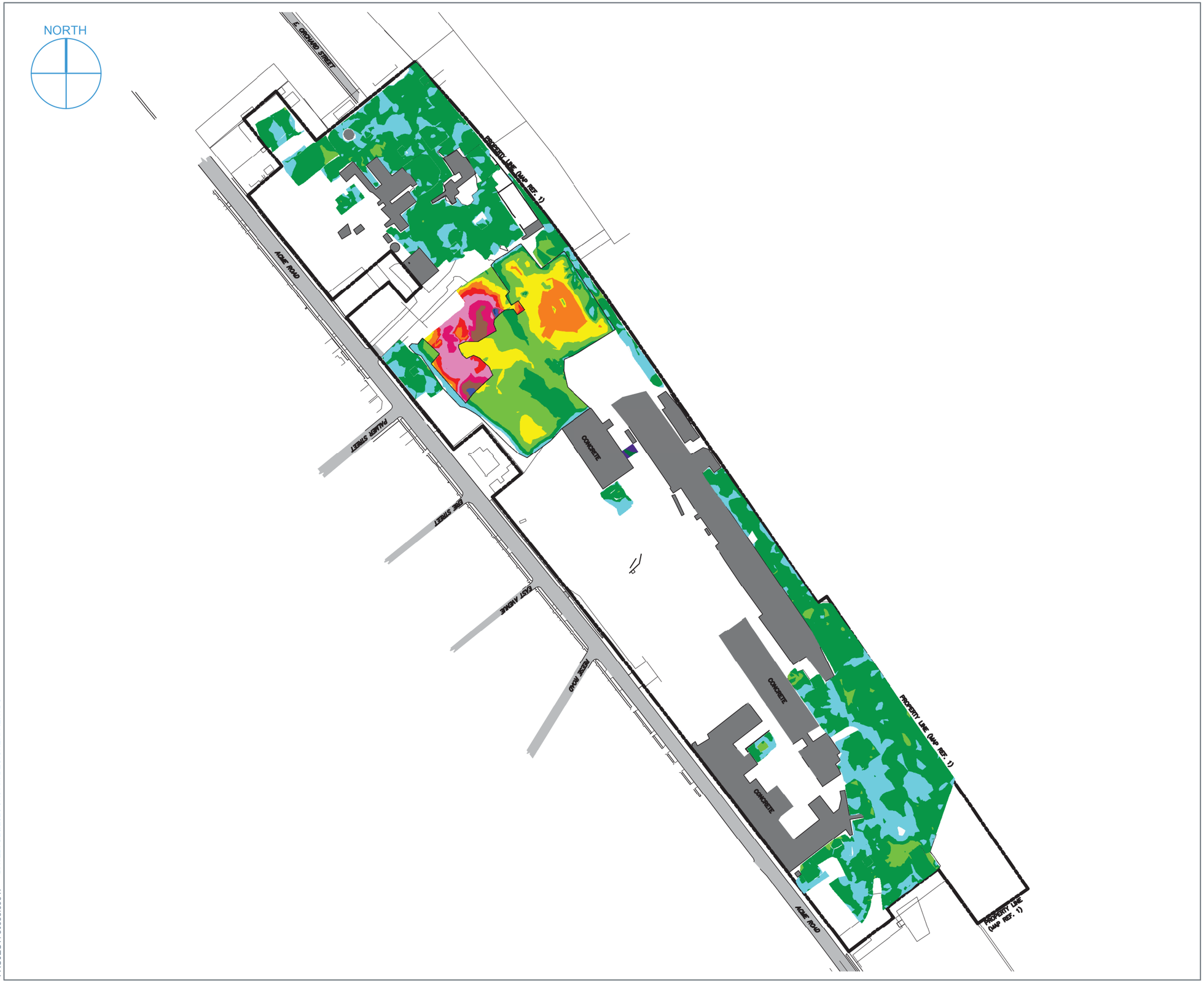
UNION FORK & HOE
FRANKFORT
HERKIMER COUNTY, NY
AUGUST 2020

FIGURE 2

O'BRIEN & GERE ENGINEERS
A RAMBOLL COMPANY

RAMBOLL

FIGURE 3 – CONTOUR MAP OF FILL THICKNESS



LEGEND

- 0-1' FILL
- 1-2' FILL
- 2-3' FILL
- 3-4' FILL
- 4-5' FILL
- 5-6' FILL
- 6-7' FILL
- 7-8' FILL
- 8-9' FILL
- 9-10' FILL
- 10-11' FILL
- 11-12' FILL
- 12-13' FILL
- PROPERTY LINE

250' 0 250'

CONTOUR MAP OF FILL THICKNESS

UNION FORK & HOE
FRANKFORT
HERKIMER COUNTY, NY
AUGUST 2020

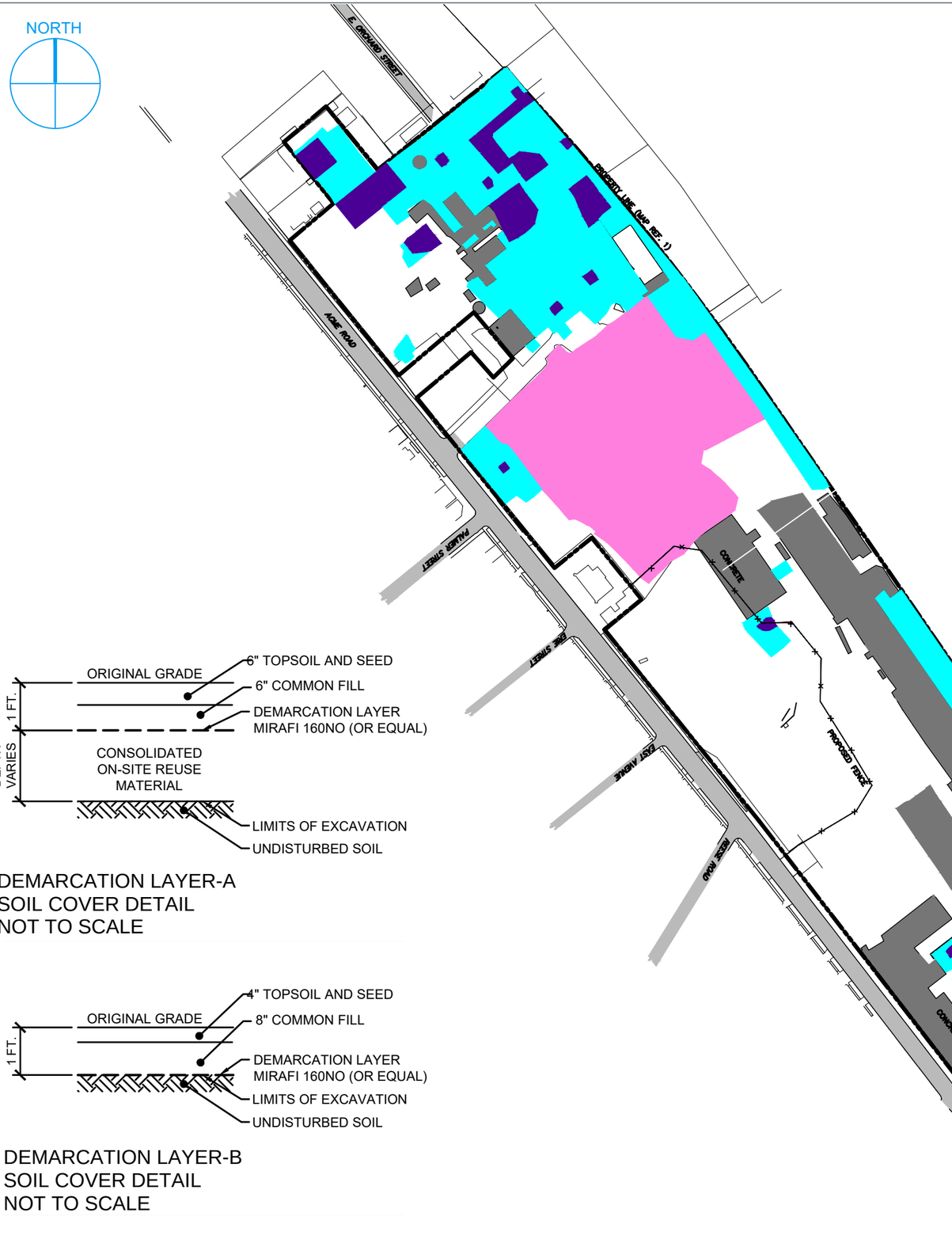
FIGURE 3

O'BRIEN & GERE ENGINEERS
A RAMBOLL COMPANY

RAMBOLL

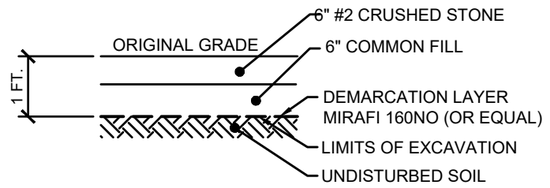
I:\Griffon.3368\69547.Union-Fork-And\Docs\DWG\Sheets\Record Drawings\69547.Fig3-FillDepth.dwg
PROJECT: 33683.69547 DATED: 8/26/2020 8:46 AM DESIGNER: KENTDO

FIGURE 4 - BACKFILL PLACEMENT LOCATIONS

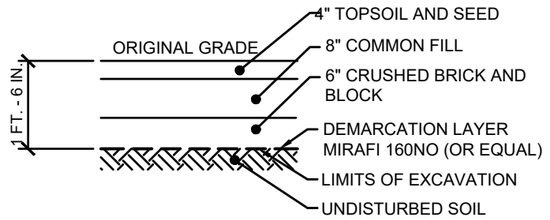


DEMARCATION LAYER-A
SOIL COVER DETAIL
NOT TO SCALE

DEMARCATION LAYER-B
SOIL COVER DETAIL
NOT TO SCALE



DEMARCATION LAYER-C
SOIL COVER DETAIL
NOT TO SCALE



DEMARCATION LAYER-D
SOIL COVER DETAIL
NOT TO SCALE

LEGEND

- CONSOLIDATION MATERIAL DEMARCATION LAYER-A, 6" COMMON FILL, 6" TOPSOIL
- DEMARCATION LAYER-B, 8" COMMON FILL, 4" TOPSOIL
- DEMARCATION LAYER-C, 6" COMMON FILL, 6" #2 CRUSHED STONE
- DEMARCATION LAYER-D, 6" BRICK & BLOCK, 8" COMMON FILL, 4" TOPSOIL
- PROPERTY LINE

250' 0 250'

BACKFILL PLACEMENT LOCATIONS

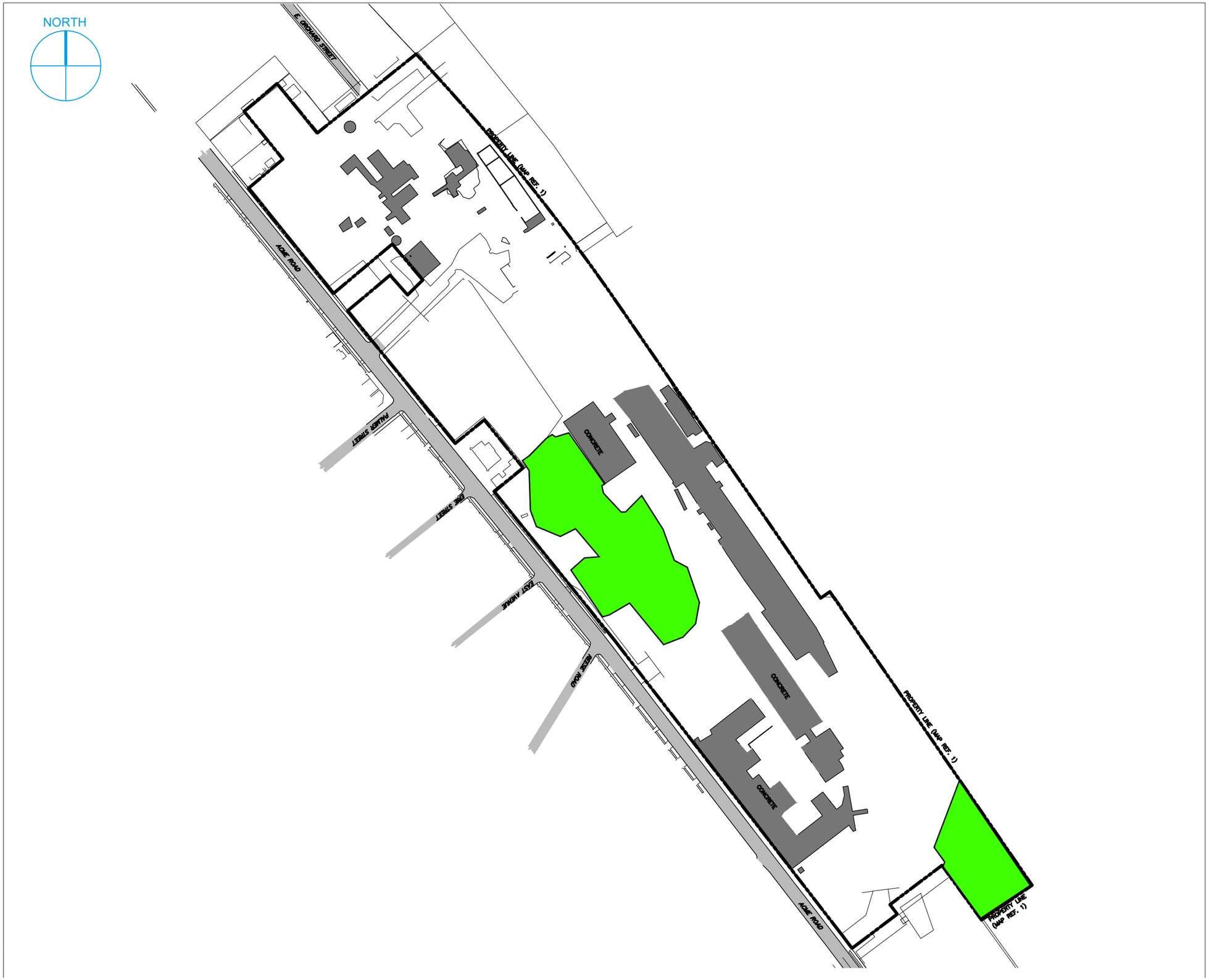
UNION FORK & HOE
FRANKFORT
HERKIMER COUNTY, NY
AUGUST 2020

FIGURE 4

O'BRIEN & GERE ENGINEERS
A RAMBOLL COMPANY

RAMBOLL

FIGURE 5 - UNREMEDIATED WOODED AREAS



LEGEND

UNREMEDIATED WOODED AREA*

PROPERTY LINE

*Wooded areas are fenced restricted access areas and are maintained in accordance with the site's approved Interim Site Management Plan

250' 0 250'

UNREMEDIATED WOODED AREAS

UNION FORK & HOE
FRANKFORT
HERKIMER COUNTY, NY
AUGUST 2020

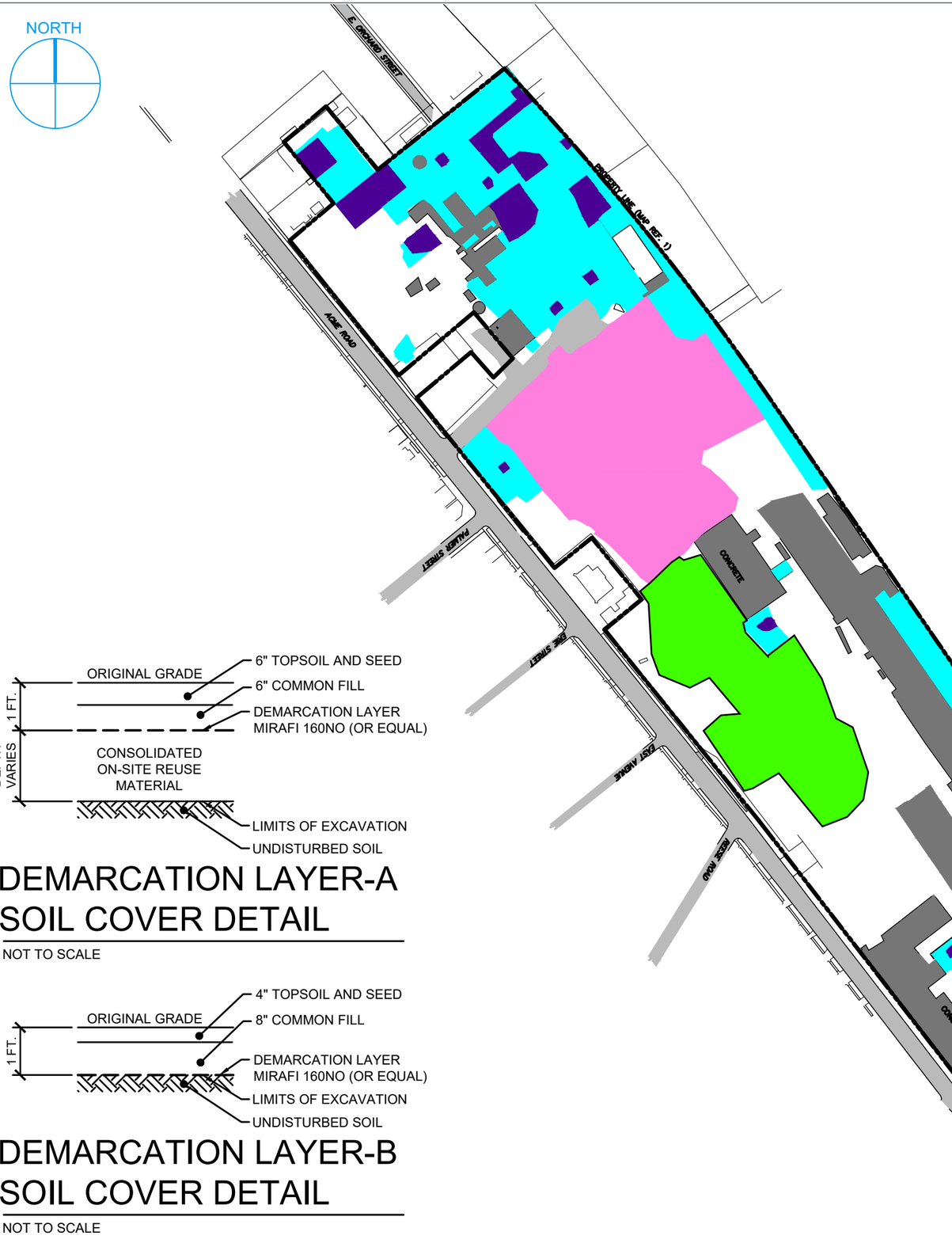
FIGURE 5

O'BRIEN & GERE ENGINEERS
A RAMBOLL COMPANY

RAMBOLL

I:\Griffon.336\83\69547.Union-Fork-And\Docs\DWG\Sheets\Record Drawings\69547.Fig6-UnremediatedWoodedArea.dwg
PROJECT: 33683.69547 DATED: 8/26/2020 8:50 AM DESIGNER: KENTDO

FIGURE 6 - SITE WIDE COVER SYSTEM PLAN

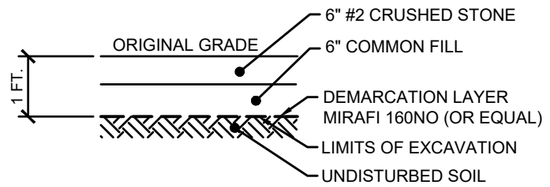


DEMARCATION LAYER-A SOIL COVER DETAIL

NOT TO SCALE

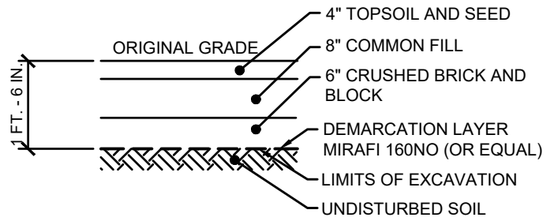
DEMARCATION LAYER-B SOIL COVER DETAIL

NOT TO SCALE



DEMARCATION LAYER-C SOIL COVER DETAIL

NOT TO SCALE



DEMARCATION LAYER-D SOIL COVER DETAIL

NOT TO SCALE

LEGEND *

- CONSOLIDATION MATERIAL DEMARCATION LAYER-A, 6" COMMON FILL, 6" TOPSOIL
- DEMARCATION LAYER-B, 8" COMMON FILL, 4" TOPSOIL
- DEMARCATION LAYER-C, 6" COMMON FILL, 6" #2 CRUSHED STONE
- DEMARCATION LAYER-D, 6" BRICK & BLOCK, 8" COMMON FILL, 4" TOPSOIL
- CONCRETE
- ASPHALT
- PROPERTY LINE
- UNREMEDIATED WOODED AREA

250' 0 250'

SITE WIDE COVER SYSTEM PLAN

*Since the site has a site-wide cover system, all areas within the site boundary that are not indicated in the legend had analytical results that indicated existing soil met the commercial use SCOs (i.e., no excavation and backfill were required as part of the site's remedial actions) and meet the "1 foot of soil meeting commercial use SCOs" site cover requirement.

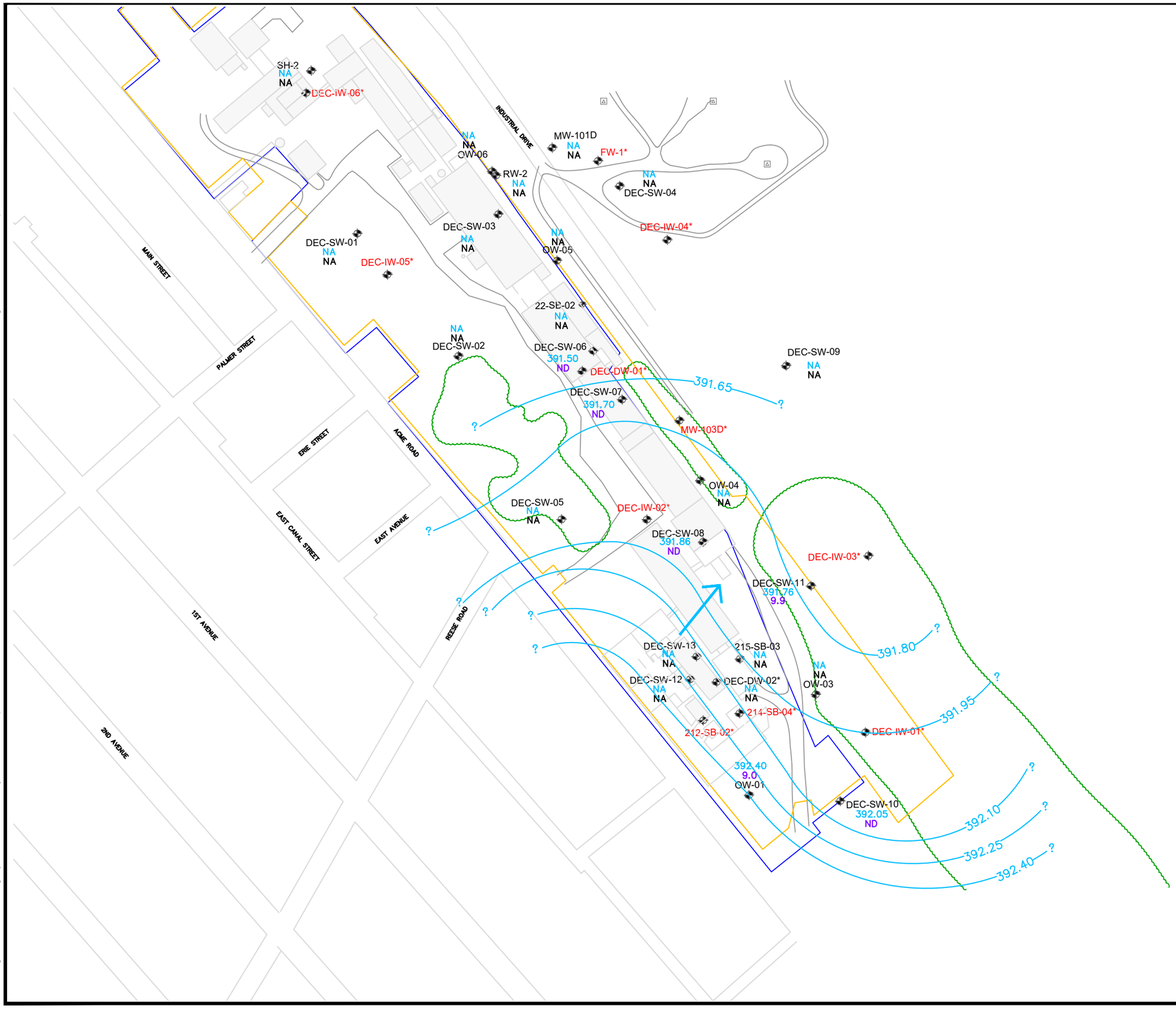
UNION FORK & HOE
FRANKFORT
HERKIMER COUNTY, NY
APRIL 2021

FIGURE 6

O'BRIEN & GERE ENGINEERS
A RAMBOLL COMPANY

RAMBOLL

Figures 7a-7b: Groundwater Contour Maps



LEGEND

- PROPERTY BOUNDARY
- FENCE LINE
- TREE LINE
- MUNICIPAL WELL
- EXISTING CONCRETE PAD
- DEC-SW-10 (393.29) — GROUNDWATER SAMPLE LOCATION WITH GROUNDWATER ELEVATION (JW, 2022)
- 363.0 — GROUNDWATER ELEVATION CONTOUR (FEET AMSL; DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION
- 2.0 — PCE CONCENTRATION IN µg/L (JW, 2022)
- DEC–IW–1* — DENOTES MONITORING WELL NOT USED IN DEVELOPMENT OF SHALLOW CONTOURS AND DEPICTION OF PCE CONCENTRATIONS
- AMSL — ABOVE MEAN SEA LEVEL
- µg/L — MICROGRAMS PER LITER
- NA — NOT APPLICABLEOR NOT ANALYZED
- ND — NOT DETECTED
- PCE — TETRACHLOROETHENE

N

APPROXIMATE SCALE IN FEET

250 500

NOTES:
1. ALL LOCATIONS ARE APPROXIMATE.
2. DATE AND CONTOURS FROM 2013 SAMPLING EVENT (JW, 2022).
3. ONLY SHALLOW ZONE MONITORING WELLS USED FOR DEVELOPMENT OF GROUNDWATER CONTOURS (JW, 2022).

SOURCES:
1. BASE MAP FROM BRADBURNE, BRILLER & JOHNSON, LLC (2011).
2. SITE BOUNDARY FROM "REAL PROPERTY TAX MAP", PREPARED FOR COUNTY OF HERKIMER UNDER SUPERVISION OF ASSESSMENT AND REAL PROPERTY TAX SERVICE, JAMES SPANFELNER, DIRECTOR. PREPARED BY L. ROBERT KIMBALL, CONSULTING ENGINEERS, EBENSBURG, PA.

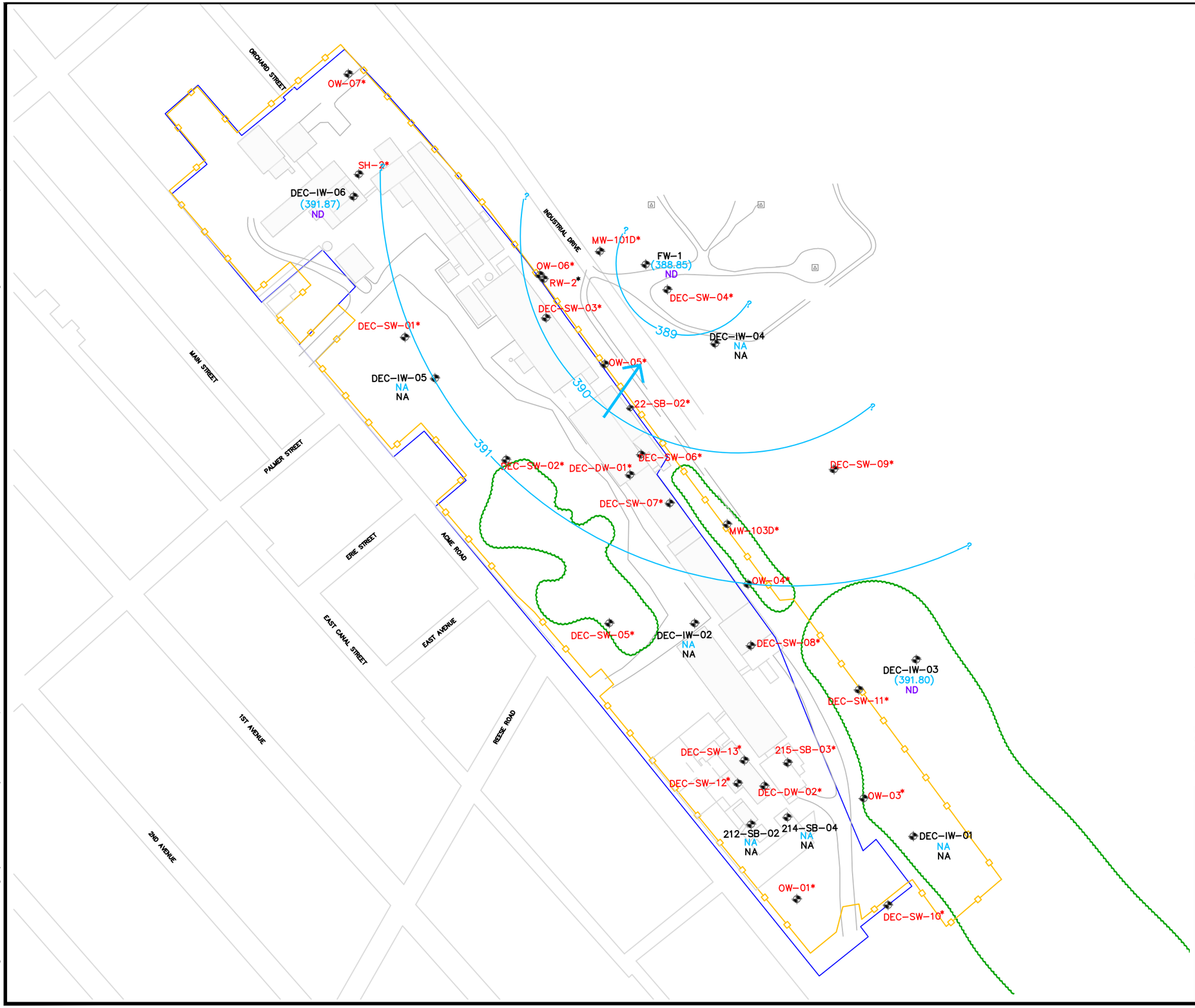
FORMER UNION FORK AND HOE FACILITY

POTENTIOMETRIC MAP SHALLOW GROUNDWATER WITH PCE CONCENTRATIONS

253 EAST MAIN STREET FRANKFORT, NEW YORK

PREPARED BY:
TETRA TECH, INC.

PROJECT NUMBER	APPROVED BY	DRAWN BY	DATE	FIGURE
194-1197-0002		BCA	JAN 2023	7a



LEGEND

- PROPERTY BOUNDARY
- FENCE LINE
- TREE LINE
- MUNICIPAL WELL
- EXISTING CONCRETE PAD
- DEC-1W-4 (390.14) — GROUNDWATER SAMPLE LOCATION WITH GROUNDWATER ELEVATION (JW, 2022)
- 363 — GROUNDWATER ELEVATION CONTOUR (FEET AMSL; DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION
- 2.0 — PCE CONCENTRATION IN µg/L (JW, 2022)
- DEC-SW-10* — DENOTES MONITORING WELL NOT USED IN DEVELOPMENT OF INTERMEDIATE CONTOURS AND DEPICTION OF PCE CONCENTRATIONS
- AMSL — ABOVE MEAN SEA LEVEL
- µg/L — MICROGRAMS PER LITER
- NA — NOT APPLICABLE OR NOT ANALYZED
- ND — NOT DETECTED
- PCE — TETRACHLOROETHENE

N

APPROXIMATE SCALE IN FEET

250 500

NOTES:
1. ALL LOCATIONS ARE APPROXIMATE.
2. DATE AND CONTOURS FROM 2022 SAMPLING EVENT (JW, 2022).
3. ONLY INTERMEDIATE ZONE MONITORING WELLS USED FOR DEVELOPMENT OF GROUNDWATER CONTOURS (JW, 2022).

SOURCES:
1. BASE MAP FROM BRADBURNE, BRILLER & JOHNSON, LLC (2011).
2. SITE BOUNDARY FROM "REAL PROPERTY TAX MAP", PREPARED FOR COUNTY OF HERKIMER UNDER SUPERVISION OF ASSESSMENT AND REAL PROPERTY TAX SERVICE, JAMES SPANFELNER, DIRECTOR. PREPARED BY L. ROBERT KIMBALL, CONSULTING ENGINEERS, EBENSBURG, PA.

FORMER UNION FORK AND HOE FACILITY

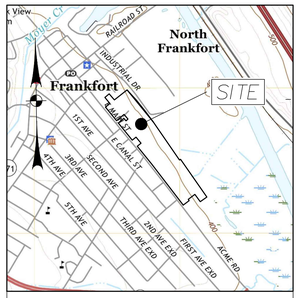
POTENTIOMETRIC MAP INTERMEDIATE GROUNDWATER WITH PCE CONCENTRATIONS

253 EAST MAIN STREET — FRANKFORT, NEW YORK

PREPARED BY:
TETRA TECH, INC.

PROJECT NUMBER	APPROVED BY	DRAWN BY	DATE	FIGURE
194-1197-0002		BCA	JAN 2023	7b

Appendix A: Metes and Bounds Survey



LOCATION MAP
NOT TO SCALE

LEGEND

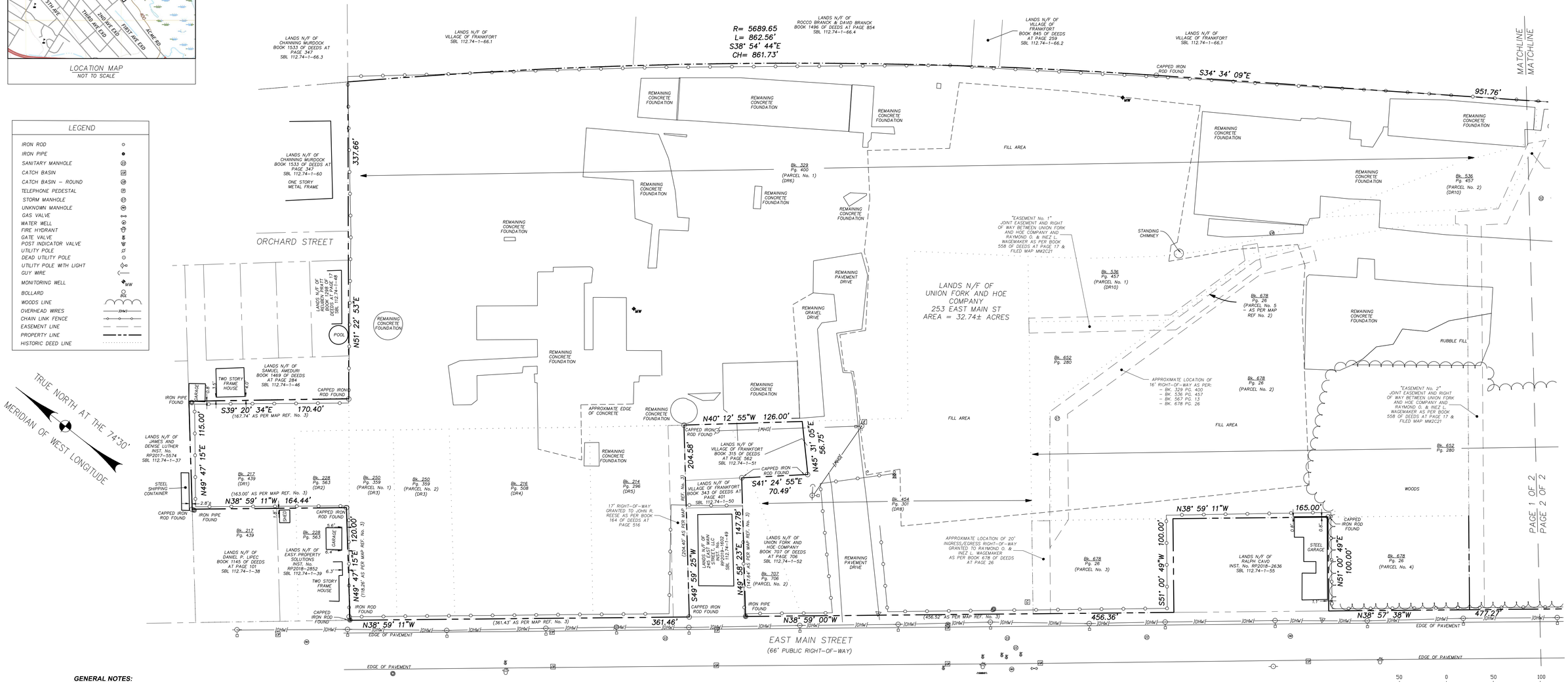
- IRON ROD
- IRON PIPE
- SANITARY MANHOLE
- CATCH BASIN
- CATCH BASIN – ROUND
- TELEPHONE PEDESTAL
- STORM MANHOLE
- UNKNOWN MANHOLE
- GAS VALVE
- WATER WELL
- FIRE HYDRANT
- GATE VALVE
- POST INDICATOR VALVE
- UTILITY POLE
- DEAD UTILITY POLE
- UTILITY POLE WITH LIGHT
- GUY WIRE
- MONITORING WELL (MW)
- BOLLARD (BX)
- WOODS LINE
- OVERHEAD WIRES (OHW)
- CHAIN LINK FENCE
- EASEMENT LINE
- PROPERTY LINE
- HISTORIC DEED LINE

DEED REFERENCE:

1. A PORTION OF A PARCEL OF LAND CONVEYED BY MYRON K. ELLSWORTH AND MARY E. ELLSWORTH TO THE UNION FORK AND HOE COMPANY BY DEED DATED SEPTEMBER 20, 1913 AND RECORDED IN THE HERKIMER COUNTY CLERK'S OFFICE ON OCTOBER 6, 1913 IN LIBER 217 OF DEEDS AT PAGE 439.
2. A PORTION OF A PARCEL OF LAND CONVEYED BY ELIZABETH SHEAF TO THE UNION FORK AND HOE COMPANY BY DEED DATED APRIL 22, 1916 AND RECORDED IN THE HERKIMER COUNTY CLERK'S OFFICE ON APRIL 19, 1916 IN LIBER 228 OF DEEDS AT PAGE 563.
3. A PARCEL OF LAND CONVEYED BY FRANK A. SCHMIDT TO UNION FORK & HOE CO. BY DEED DATED AUGUST 25, 1920 AND RECORDED IN THE HERKIMER COUNTY CLERK'S OFFICE ON SEPTEMBER 8, 1920 IN LIBER 250 OF DEEDS AT PAGE 359.
4. A PARCEL OF LAND CONVEYED BY MARGARET FARRELL TO THE UNION FORK AND HOE COMPANY BY DEED DATED JULY 9, 1913 AND RECORDED IN THE HERKIMER COUNTY CLERK'S OFFICE ON JULY 11. 1913 IN LIBER 216 OF DEEDS AT PAGE 508.
5. A PARCEL OF LAND CONVEYED BY JOHN R. LEWIS AND JULIA C. LEWIS TO THE UNION FORK AND HOE COMPANY BY DEED DATED NOVEMBER 2, 1912 AND RECORDED IN THE HERKIMER COUNTY CLERK'S OFFICE ON NOVEMBER 15. 1912 IN LIBER 214 OF DEEDS AT PAGE 296.
6. A PARCEL OF LAND CONVEYED BY WEST SHORE RAILROAD COMPANY AND THE NEW YORK CENTRAL RAILROAD COMPANY TO THE UNION FORK AND HOE COMPANY BY DEED DATED AUGUST 16, 1938 AND RECORDED IN THE HERKIMER COUNTY CLERK'S OFFICE ON AUGUST 18, 1938 IN LIBER 329 OF DEEDS AT PAGE 400.
7. A PARCEL OF LAND CONVEYED BY NORSTAR BANK OF UPSTATE NY TO UNION FORK 8. HOE COMPANY BY DEED DATED JUNE 1986 AND RECORDED IN THE HERKIMER COUNTY CLERK'S OFFICE ON JUNE 17, 1986 IN DEED 707 OF DEEDS AT PAGE 706.
8. A PARCEL OF LAND CONVEYED BY WEST SHORE RAILROAD COMPANY AND THE NEW YORK CENTRAL RAILROAD COMPANY TO THE UNION FORK AND HOE COMPANY BY DEED DATED JULY 18, 1951 AND RECORDED IN THE HERKIMER COUNTY CLERK'S OFFICE ON APRIL 14, 1952 IN LIBER 454 OF DEEDS AT PAGE 301.
9. A PARCEL OF LAND CONVEYED BY THE TOWN OF FRANKFORT TO UNION FORK AND HOE COMPANY BY DEED DATED JULY 14, 1981 AND RECORDED IN THE HERKIMER COUNTY CLERK'S OFFICE ON JULY 17, 1981 IN LIBER 678 OF DEEDS AT PAGE 26.
10. A PARCEL OF LAND CONVEYED BY THE NEW YORK CENTRAL RAILROAD COMPANY TO THE UNION FORK AND HOE COMPANY BY DEED DATED AUGUST 25, 1959 AND RECORDED IN THE HERKIMER COUNTY CLERK'S OFFICE ON NOVEMBER 4, 1959 IN LIBER 536 OF DEEDS AT PAGE 457.
11. A PORTION OF A PARCEL OF LAND CONVEYED BY THE HERKIMER COUNTY INDUSTRIAL DEVELOPMENT AGENCY TO THE UNION FORK AND HOE COMPANY BY DEED DATED FEBRUARY 26, 1992 AND RECORDED IN THE HERKIMER COUNTY CLERK'S OFFICE ON FEBRUARY 26, 1992 IN LIBER 792 AT PAGE 695.
12. A PARCEL OF LAND CONVEYED BY THE FRANKFORT TRANSIT WAREHOUSE COMPANY, INC. TO THE UNION FORK AND HOE COMPANY BY DEED DATED JUNE 27, 1977 AND RECORDED IN THE HERKIMER COUNTY CLERK'S OFFICE ON JULY 25, 1977 IN LIBER 652 AT PAGE 280.

MAP REFERENCES:

1. "MAP SHOWING EXISTING TOPOGRAPHIC CONDITIONS FORMER UNION FORK AND HOE FACILITY SUPERFUND SITE NO. 622011" PREPARED BY THEW ASSOCIATES DATED OCTOBER 12, 2019.
2. "MAP SHOWING PROPOSED PROPERTY TRANSFERS BETWEEN N. Y. C.R.R. CO; FRANKFORT TRANSIT WAREHOUSE CO. INC., A WHOLLY OWNED SUBSIDIARY OF THE UNION FORK & HOE CO. INC. AND THE TOWN OF FRANKFORT", PREPARED BY W.S. TIEL P.E. & L.S. #31749, DATED SEPTEMBER 7, 1963, LAST REVISED JANUARY 4, 1964. AND FILED IN THE HERKIMER COUNTY CLERK'S OFFICE ON JANUARY 24, 1964 AS MAP NO. MM2C21.
3. "LANDS OF THE UNION FORK AND HOE CO.", PREPARED BY SNYDER MYERS ASSOCIATES, PC, DATED AUGUST 18, 1987."
4. "PROPERTY MAP SHOWING LANDS TO BE CONVEYED TO RM. MURDOCK COMPANY, LLC.", PREPARED BY D.L. MOWERS LAND SURVEYORS & ASSOCIATES, DATED DECEMBER 31, 2002, AND FILED IN THE HERKIMER COUNTY CLERK'S OFFICE ON JULY 9, 2003 AS MAP NO. JJ2BC27.
5. "PROPERTY MAP SHOWING LANDS OF DENISE A. ROMEO (LUTHER) ", PREPARED BY ROBERT G. HARVEY PLS, DATED OCTOBER 4, 2004, AND FILED IN THE HERKIMER COUNTY CLERK'S OFFICE ON NOVEMBER 29, 2004 AS MAP NO. JJ30816
6. "PROPERTY MAP SHOWING LANDS BELONGING TO GEORGE CATTAT, JANET CATTAT AND CHARLOTTE DURSE": PREPARED BY D.L. MOWERS LAND SURVEYORS 8. ASSOCIATES, DATED MAY 2, 2007, AND FILED IN THE HERKIMER COUNTY CLERK'S OFFICE ON JULY 9, 2012 AS MAP NO. 1205.
7. "PROPERTY MAP SHOWING LANDS TO BE CONVEYED TO ROCCO BRANCK AND DAVID BRANCK", PREPARED BY D.L. MOWERS LAND SURVEYORS & ASSOCIATES. DATED NOVEMBER 3, 2012, AND FILED IN THE HERKIMER COUNTY CLERK'S OFFICE ON AUGUST 1, 2013 AS MAP NO. 1357.



GENERAL NOTES:

1. COORDINATES ARE REFERENCED TO NORTH AMERICAN DATUM OF 1983, (NAD83/ 2011), NEW YORK STATE PLANE COORDINATE SYSTEM EAST ZONE (3101).
2. INFORMATION SHOWN HEREON IS FROM A FIELD SURVEY COMPLETED BY M.J. ENGINEERING AND LAND SURVEYING P.C. ON AUGUST 21, 2020.
3. UNDERGROUND UTILITIES SHOWN HEREON WERE LOCATED BASED ON VISIBLE EVIDENCE AT GROUND LEVEL ONLY AND DO NOT PURPORT TO SHOW ALL UTILITIES, ANY AND ALL UTILITIES SHOWN ARE SUBJECT TO VERIFICATION BY EXCAVATION.
4. UNAUTHORIZED ALTERATIONS OR ADDITION TO THIS SURVEY MAP IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW. COPIES OF THIS SURVEY MAP NOT BEARING THE LAND SURVEYORS SEAL AND SIGNED WITH INK SHALL NOT BE CONSIDERED TO BE VALID COPIES.
5. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN UP-TO-DATE ABSTRACT OF TITLE AND IS MADE SUBJECT TO WHATEVER STATE OF FACTS SUCH A DOCUMENT WOULD REVEAL.
6. SITE ADDRESS: 253 EAST MAIN STREET, FRANKFORT, NEW YORK

ENGINEERING/INSTITUTIONAL CONTROLS:

- THE PROPERTY MAY BE SOLELY USED FOR: COMMERCIAL OR INDUSTRIAL USE.
- ALL ENGINEERING CONTROLS MUST BE MAINTAINED AS SPECIFIED IN THE SITE MANAGEMENT PLAN (SMP).
- ALL ENGINEERING CONTROLS MUST BE INSPECTED AT A FREQUENCY AND IN A MANNER DEFINED IN THE SMP.
- THE USE OF GROUNDWATER UNDERLYING THE PROPERTY IS PROHIBITED WITHOUT NECESSARY WATER QUALITY TREATMENT AS DETERMINED BY THE NEW YORK STATE DEPARTMENT OF HEALTH (NYSDOH) OR THE HERKIMER COUNTY DEPARTMENT OF HEALTH TO RENDER IT SAFE FOR USE AS DRINKING WATER OR FOR INDUSTRIAL PURPOSES, AND THE USER MUST FIRST NOTIFY AND OBTAIN WRITTEN APPROVAL TO DO SO FROM THE DEPARTMENT.
- DATA AND INFORMATION PERTINENT TO SITE MANAGEMENT MUST BE REPORTED AT THE FREQUENCY AND IN A MANNER AS DEFINED IN THIS SMP.

ENGINEERING/INSTITUTIONAL CONTROLS CON'T.:

- ALL FUTURE ACTIVITIES THAT WILL DISTURB REMAINING CONTAMINATED MATERIAL MUST BE PERFORMED AS DEFINED IN THIS SMP.
- MONITORING TO ACCESS THE PERFORMANCE AND EFFECTIVENESS OF THE REMEDY MUST BE PERFORMED AS DEFINED IN THIS SMP.
- OPERATION, MAINTENANCE, MONITORING, INSPECTION AND REPORTING OF ANY MECHANICAL OR PHYSICAL COMPONENT OF THE REMEDY SHALL BE PERFORMED AS DEFINED IN THE SMP. THIS SHALL INCLUDE PERIODIC MONITORING OF SOIL CAP INTEGRITY, AND MAINTENANCE OF COVER.
- ACCESS TO THE SITE MUST BE PROVIDED TO AGENTS, EMPLOYEES OR OTHER REPRESENTATIVES OF THE STATE OF NEW YORK WITH REASONABLE PRIOR NOTICE TO THE PROPERTY OWNER TO ASSURE COMPLIANCE WITH THE SMP.
- SITE COVER SYSTEM CONSISTING OF A MINIMUM OF A DEMARCATION LAYER AND 12–INCHES OF CLEAN SOIL, ASPHALT PAVEMENT, CONCRETE AND/OR BUILDINGS.

CERTIFICATION EXTENDS ONLY TO THE EXTENT OF LANDS OF UNION FORK AND HOE COMPANY AS SHOWN HEREON.

CERTIFIED TO:

1. THE PEOPLE OF THE STATE OF NEW YORK, ACTING THROUGH THEIR COMMISSIONER OF THE NEW YORK SATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION:
2. UNION FORK AND HOE COMPANY;

JOSEPH G. MALINOSKI, PLS — SEPTEMBER 30, 2020
N.Y.S. LIC. No. 50314

THIS PROPERTY IS SUBJECT TO AN ENVIRONMENTAL EASEMENT HELD BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PURSUANT TO TITLE 36 OF ARTICLE 71 OF THE NEW YORK ENVIRONMENTAL CONSERVATION LAW. THE ENGINEERING AND INSTITUTIONAL CONTROLS FOR THIS EASEMENT ARE SET FORTH IN THE THE SITE MANAGEMENT PLAN ("SMP"). A COPY OF THE SMP MUST BE OBTAINED BY ANY PARTY WITH AN INTEREST IN THE PROPERTY. THE SMP MAY BE OBTAINED FROM THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF ENVIRONMENTAL REMEDIATION, SITE CONTROL SECTION, 625 BROADWAY, ALBANY, NY 12233 OR AT DERWEB@DEC.NY.GOV.

THE DEC OR THEIR AGENT MAY ACCESS THE SITE, AS SHOWN HERE ON, THROUGH ANY EXISTING STREET ACCESS EXISTING RIGHT OF WAY, OR BUILDING INGRESS/EGRESS ACCESS POINT.

SUBMITTAL / REVISIONS

No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE

PROJ. MANAGER:	JEQ
CHIEF DESIGNER:	
DESIGNED BY:	
DRAWN BY:	AEM
CHECKED BY:	JEQ

STATE OF NEW YORK — JOSEPH G. MALINOSKI — LICENSED LAND SURVEYOR — 050314
09/30/2020

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

ENVIRONMENTAL EASEMENT
UNION FORK AND HOE COMPANY
STATE SUPERFUND PROJECT
SITE No. 622011
VILLAGE/ TOWN OF FRANKFORT
HERKIMER COUNTY NEW YORK STATE

SCALE:	1" = 50'
CONTRACT No.:	
MJ PROJ. No.:	1128.08
DATE:	AUGUST 28, 2020

1 OF 2

File Name: G:\MJ1128.08 Union Fork & Hoe - Tetratech\Cad\MJ1128.08 SUR-Y.dwg [Layout: 1 of 2]
Date: Wed, Sep 30, 2020 - 2:18 PM [Name:]

ENVIRONMENTAL EASEMENT DESCRIPTION

ALL THE CERTAIN PIECE OR PARCEL OF LAND, SITUATED IN THE VILLAGE AND TOWN OF FRANKFORT, COUNTY OF HERKIMER AND STATE OF NEW YORK AND BEING MORE PARTICULARLY BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE NORTHERLY STREET BOUNDARY OF EAST MAIN STREET, AT ITS INTERSECTION WITH THE PROPERTY DIVISION LINE BETWEEN LANDS NOW OR FORMERLY OF ACME ROAD INDUSTRIAL PARK, INC., AS DESCRIBED IN INSTRUMENT #2017-2479, ON THE EAST AND THE PARCEL DESCRIBED HEREIN, ON THE WEST; THENCE ALONG SAID NORTHERLY STREET BOUNDARY THE FOLLOWING THREE (3) COURSES AND DISTANCES:

1. NORTH 36° 50' 03" WEST, A DISTANCE OF 12.84 FEET TO A POINT,
2. NORTH 37° 41' 21" WEST, A DISTANCE OF 1,061.42 FEET TO A POINT, AND
3. NORTH 38° 57' 38" WEST, A DISTANCE OF 477.27 FEET TO A POINT AT ITS INTERSECTION WITH THE PROPERTY DIVISION LINE BETWEEN THE PARCEL DESCRIBED HEREIN, ON THE EAST AND LANDS NOW OR FORMERLY OF RALPH CAVO, AS DESCRIBED IN INSTRUMENT #2018-2636, ON THE WEST; THENCE ALONG SAID PROPERTY DIVISION LINE THE FOLLOWING THREE (3) COURSES AND DISTANCES:

1. NORTH 51°00' 49" EAST, A DISTANCE OF 100.00 FEET TO A POINT,
2. NORTH 38° 59' 11" WEST, A DISTANCE OF 165.00 FEET TO A POINT, AND
3. SOUTH 51° 00' 49" WEST, A DISTANCE OF 100.00 FEET TO A POINT ON SAID NORTHERLY STREET BOUNDARY OF EAST MAIN STREET; THENCE NORTH 38° 59' 00" WEST, ALONG SAID NORTHERLY STREET BOUNDARY OF EAST MAIN STREET, A DISTANCE OF 456.36 FEET TO A POINT AT ITS INTERSECTION WITH THE PROPERTY DIVISION LINE BETWEEN THE PARCEL DESCRIBED HEREIN, ON THE EAST AND LANDS NOW OR FORMERLY OF 245 EAST MAIN STREET, LLC, AS DESCRIBED IN INSTRUMENT #2019-1602, ON THE WEST; THENCE ALONG SAID PROPERTY DIVISION LINE AND ALONG LANDS NOW OR FORMERLY OF THE VILLAGE OF FRANKFORT, AS DESCRIBED IN BOOK 343 OF DEEDS AT PAGE 401 AND OTHER LANDS NOW OR FORMERLY OF THE VILLAGE OF FRANKFORT, AS DESCRIBED IN BOOK 315 OF DEEDS AT PAGE 562 THE FOLLOWING FIVE (5) COURSES AND DISTANCES:

1. NORTH 49° 58' 23" EAST, A DISTANCE OF 147.78 FEET TO A POINT,
2. SOUTH 41° 24' 55" EAST, A DISTANCE OF 70.49 FEET TO A POINT,
3. NORTH 45° 31' 05" EAST, A DISTANCE OF 56.75 FEET TO A POINT,
4. NORTH 40° 12' 55" WEST, A DISTANCE OF 126.00 FEET TO A POINT, AND
5. SOUTH 49° 59' 25" WEST, A DISTANCE OF 204.58 FEET TO A POINT ON SAID STREET, A DISTANCE OF 361.46 FEET TO A POINT AT ITS INTERSECTION WITH THE PROPERTY DIVISION LINE BETWEEN THE PARCEL DESCRIBED HEREIN, ON THE EAST AND LANDS NOW OR FORMERLY OF EASY PROPERTY SOLUTIONS, AS DESCRIBED IN INSTRUMENT #2018-2852, ON THE WEST; THENCE NORTH 49° 47' 15" EAST, ALONG SAID PROPERTY DIVISION LINE, A DISTANCE OF 120.00 FEET TO A POINT AT ITS INTERSECTION WITH THE PROPERTY DIVISION LINE BETWEEN THE PARCEL DESCRIBED HEREIN, ON THE NORTH AND SAID LANDS NOW OR FORMERLY OF EASY PROPERTY SOLUTIONS, ON THE SOUTH; THENCE NORTH 38° 59' 11" WEST, ALONG SAID PROPERTY DIVISION LINE AND ALONG LANDS NOW OR FORMERLY OF DANIEL P. LIPEC, AS DESCRIBED IN BOOK 1145 OF DEEDS AT PAGE 101, A DISTANCE OF 164.44 FEET TO A POINT AT ITS INTERSECTION WITH THE PROPERTY DIVISION LINE BETWEEN THE PARCEL DESCRIBED HEREIN, ON THE EAST AND LANDS NOW OR FORMERLY OF JAMES AND DENISE LUTHER, AS DESCRIBED IN INSTRUMENT #2017-5574, ON THE WEST; THENCE NORTH 49° 47' 15" EAST, ALONG SAID PROPERTY DIVISION LINE, A DISTANCE OF 115.00 FEET TO A POINT AT ITS INTERSECTION WITH THE PROPERTY LINE BETWEEN THE PARCEL DESCRIBED HEREIN, ON THE SOUTH AND LANDS NOW OR FORMERLY OF SAMUEL AMEDURI, AS DESCRIBED IN BOOK 1469 OF DEEDS AT PAGE 284, ON THE NORTH; THENCE SOUTH 39° 20' 34" EAST, ALONG SAID PROPERTY DIVISION LINE, A DISTANCE OF 170.40 FEET TO A POINT AT ITS INTERSECTION WITH THE PROPERTY DIVISION LINE BETWEEN THE PARCEL DESCRIBED HEREIN, ON THE EAST AND SAID LANDS NOW OR FORMERLY OF SAMUEL AMEDURI, ON THE WEST; THENCE NORTH 51° 22' 53" EAST, ALONG SAID PROPERTY DIVISION LINE AND ALONG LANDS NOW OR FORMERLY OF REUBEN PRATT, AS DESCRIBED IN BOOK 1298 OF DEEDS AT PAGE 17, THE EASTERLY TERMINUS OF ORCHARD STREET, AND LANDS NOW OR FORMERLY OF CHANNING MURDOCK, AS DESCRIBED IN BOOK 1533 OF DEEDS AT PAGE 347, A DISTANCE OF 337.66 FEET TO A POINT AT ITS INTERSECTION WITH THE PROPERTY DIVISION LINE BETWEEN THE PARCEL DESCRIBED HEREIN, ON THE SOUTH AND LANDS NOW OR FORMERLY OF THE VILLAGE OF FRANKFORT (SBL: 112.74-1-66.1), ON THE NORTH; THENCE ALONG SAID PROPERTY DIVISION LINE, LANDS NOW OR FORMERLY OF ROCCO BRANCK AND DAVID BRANCK, AS DESCRIBED IN BOOK 1496 OF DEEDS AT PAGE 854, OTHER LANDS NOW OR FORMERLY OF THE VILLAGE OF FRANKFORT, AS DESCRIBED IN BOOK 845 OF DEEDS AT PAGE 259, SAID LANDS NOW OR FORMERLY OF THE VILLAGE OF FRANKFORT (SBL: 112.74-1-66.1), AND LANDS NOW OR FORMERLY OF HERKIMER COUNTY SEWER DEPARTMENT, AS DESCRIBED IN INSTRUMENT #2019-1750, THE FOLLOWING FIVE (5) COURSES AND DISTANCES:

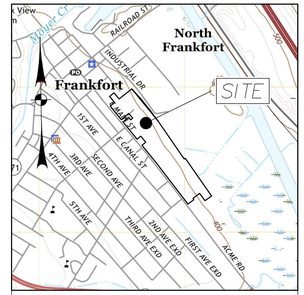
1. ALONG A CURVE TO THE RIGHT HAVING A RADIUS OF 5,689.65 FEET, AN ARC LENGTH LENGTH OF 861.73 FEET TO A POINT,
2. SOUTH 34° 34' 09" EAST, A DISTANCE OF 951.76 FEET, TO A POINT,
3. NORTH 55° 25' 51" EAST, A DISTANCE OF 30.00 FEET TO A POINT,
4. SOUTH 34° 34' 09" EAST, A DISTANCE OF 952.64 FEET TO A POINT, AND
5. SOUTH 55° 25' 51" WEST, A DISTANCE OF 163.99 FEET TO A POINT AT ITS INTERSECTION WITH THE PROPERTY DIVISION LINE BETWEEN THE PARCEL DESCRIBED HEREIN ON THE NORTH AND SAID LANDS OF ACME ROAD INDUSTRIAL PARK, INC., AS DESCRIBED IN INSTRUMENT #2017-2479, ON THE SOUTH; THENCE ALONG SAID PROPERTY DIVISION LINE THE FOLLOWING FOUR (4) COURSES AND DISTANCES:

1. NORTH 35° 56' 09" WEST, A DISTANCE OF 180.39 FEET TO A POINT,
2. SOUTH 52° 57' 21" WEST, A DISTANCE OF 174.00 FEET TO A POINT,
3. SOUTH 37° 02' 39" EAST, A DISTANCE OF 32.00 FEET TO A POINT, AND
4. SOUTH 52° 57' 21" WEST, A DISTANCE OF 151.71 FEET TO THE POINT OR PLACE OF BEGINNING AND BEING 32.74 ACRES OF LAND, MORE OR LESS.

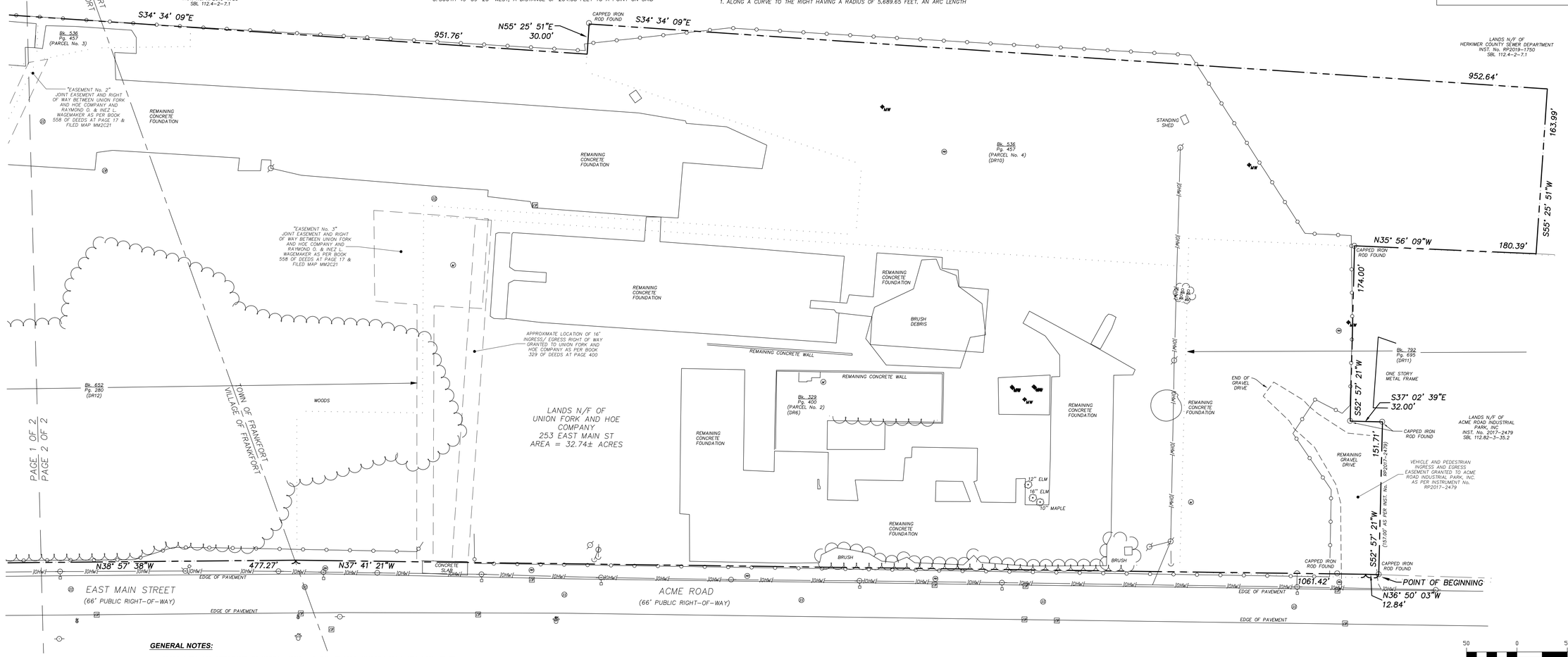
BEARINGS BASED ON TRUE NORTH AT THE 74° 30' MERIDIAN OF WEST LONGITUDE.

THIS PROPERTY IS SUBJECT TO AN ENVIRONMENTAL EASEMENT HELD BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PURSUANT TO TITLE 36 OF ARTICLE 71 OF THE NEW YORK ENVIRONMENTAL CONSERVATION LAW. THE ENGINEERING AND INSTITUTIONAL CONTROLS FOR THIS EASEMENT ARE SET FORTH IN THE THE SITE MANAGEMENT PLAN ("SMP"). A COPY OF THE SMP MUST BE OBTAINED BY ANY PARTY WITH AN INTEREST IN THE PROPERTY. THE SMP MAY BE OBTAINED FROM THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF ENVIRONMENTAL REMEDIATION, SITE CONTROL SECTION, 625 BROADWAY, ALBANY, NY 12233 OR AT DERWEB@DEC.NY.GOV

SUBJECT TO ANY RIGHTS, EASEMENTS, COVENANTS, OR RESTRICTIONS OF RECORD.



LOCATION MAP
NOT TO SCALE



GENERAL NOTES:

1. COORDINATES ARE REFERENCED TO NORTH AMERICAN DATUM OF 1983, (NAD83/ 2011), NEW YORK STATE PLANE COORDINATE SYSTEM EAST ZONE (3101).
2. INFORMATION SHOWN HEREON IS FROM A FIELD SURVEY COMPLETED BY M.J. ENGINEERING AND LAND SURVEYING P.C. ON AUGUST 21, 2020.
3. UNDERGROUND UTILITIES SHOWN HEREON WERE LOCATED BASED ON VISIBLE EVIDENCE AT GROUND LEVEL ONLY AND DO NOT PURPORT TO SHOW ALL UTILITIES, ANY AND ALL UTILITIES SHOWN ARE SUBJECT TO VERIFICATION BY EXCAVATION.
4. UNAUTHORIZED ALTERATIONS OR ADDITION TO THIS SURVEY MAP IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW. COPIES OF THIS SURVEY MAP NOT BEARING THE LAND SURVEYORS SEAL AND SIGNED WITH INK SHALL NOT BE CONSIDERED TO BE VALID COPIES.
5. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN UP-TO-DATE ABSTRACT OF TITLE AND IS MADE SUBJECT TO WHATEVER STATE OF FACTS SUCH A DOCUMENT WOULD REVEAL.
6. SITE ADDRESS: 253 EAST MAIN STREET, FRANKFORT, NEW YORK

LEGEND

IRON ROD	○	WATER WELL	⊛	WOODS LINE	
IRON PIPE	●	FIRE HYDRANT		OVERHEAD WIRES	
SANITARY MANHOLE	Ⓢ	GATE VALVE		CHAIN LINK FENCE	
CATCH BASIN	CB	POST INDICATOR VALVE		EASEMENT LINE	
CATCH BASIN - ROUND	Ⓒ	UTILITY POLE		PROPERTY LINE	
TELEPHONE PEDESTAL	Ⓣ	DEAD UTILITY POLE	○	TAX PARCEL LINE	
STORM MANHOLE	Ⓢ	UTILITY POLE WITH LIGHT			
UNKNOWN MANHOLE	Ⓜ	GUY WIRE			
GAS VALVE	⊙	MONITORING WELL	MW		
		BOLLARD	BOL		

CERTIFICATION EXTENDS ONLY TO THE EXTENT OF LANDS OF UNION FORK AND HOE COMPANY AS SHOWN HEREON.

CERTIFIED TO:

1. THE PEOPLE OF THE STATE OF NEW YORK, ACTING THROUGH THEIR COMMISSIONER OF THE NEW YORK SATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION:
2. UNION FORK AND HOE COMPANY:

JOSEPH G. MALINOSKI, PLS
N.Y.S LIC. No. 50314

SEPTEMBER 30, 2020

50 0 50 100

THIS PROPERTY IS SUBJECT TO AN ENVIRONMENTAL EASEMENT HELD BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PURSUANT TO TITLE 36 OF ARTICLE 71 OF THE NEW YORK ENVIRONMENTAL CONSERVATION LAW. THE ENGINEERING AND INSTITUTIONAL CONTROLS FOR THIS EASEMENT ARE SET FORTH IN THE THE SITE MANAGEMENT PLAN ("SMP"). A COPY OF THE SMP MUST BE OBTAINED BY ANY PARTY WITH AN INTEREST IN THE PROPERTY. THE SMP MAY BE OBTAINED FROM THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF ENVIRONMENTAL REMEDIATION, SITE CONTROL SECTION, 625 BROADWAY, ALBANY, NY 12233 OR AT DERWEB@DEC.NY.GOV

THE DEC OR THEIR AGENT MAY ACCESS THE SITE, AS SHOWN HERE ON, THROUGH ANY EXISTING STREET ACCESS EXISTING RIGHT OF WAY, OR BUILDING INGRESS/EGRESS ACCESS POINT.

SUBMITTAL / RE□ISIONS

No.	DATE	DESCRIPTION	BY	RE□IEWED BY:	DATE

PROJ. MANAGER:	JEQ
CHIEF DESIGNER:	
DESIGNED BY:	
DRAWN BY:	AEM
CHECKED BY:	JEQ

STATE OF NEW YORK JOSEPH G. MALINOSKI LICENSED LAND SURVEYOR 050314

09/30/2020

Engineering and Land S□r□e□ing, P.C.
1533 Crescent Road - C□ifton Park, NY 12065

EN□IRONMENTAL EASEMENT
UNION FORK AND HOE COMPANY
STATE SUPERFUND PROJECT
SITE No. 622011
□ILLAGE/ TOWN OF FRANKFORT
HERKIMER COUNTY NEW YORK STATE

SCALE:	1" □ 50'
CONTRACT No.:	
MJ PROJ. No.:	1128.08
DATE:	AUGUST 28, 2020

2 OF 2

File Na□e: G:\MJ\1128.08 Union Fork & Hoe - Tetratech\Cad\MJ1128.08□SUR□Y.dwg La□o□t: 2 of 2 □
Date: Wed, Se□□30, 2020 - 2:17 PM Na□e: □□inn□

SCHEDULE "A" PROPERTY DESCRIPTION

All the certain piece or parcel of land, situated in the Village and Town of Frankfort, County of Herkimer and State of New York and being more particularly bounded and described as follows:

Beginning at a point on the northerly street boundary of East Main Street, at its intersection with the property division line between lands now or formerly of Acme Road Industrial Park, Inc., as described in Instrument #2017-2479, on the east and the parcel described herein, on the west; thence along said northerly street boundary the following three (3) courses and distances:

1. North 36° 50' 03" West, a distance of 12.84 feet to a point,
2. North 37° 41' 21" West, a distance of 1,061.42 feet to a point, and
3. North 38° 57' 38" West, a distance of 477.27 feet to a point at its intersection with the property division line between the parcel described herein, on the east and lands now or formerly of Ralph Cavo, as described in Instrument #2018-2636, on the west;

thence along said property division line the following three (3) courses and distances:

1. North 51°00' 49" East, a distance of 100.00 feet to a point,
2. North 38° 59' 11" West, a distance of 165.00 feet to a point, and
3. South 51° 00' 49" West, a distance of 100.00 feet to a point on said northerly street boundary of East Main Street; thence North 38° 59' 00" West, along said northerly street boundary of East Main Street, a distance of 456.36 feet to a point at its intersection with the property division line between the parcel described herein, on the east and lands now or formerly of 245 East Main Street, LLC, as described in Instrument #2019-1602, on the west;

thence along said property division line and along lands now or formerly of The Village of Frankfort, as described in Book 343 of Deeds at Page 401 and other lands now or formerly of The Village of Frankfort, as described in Book 315 of Deeds at Page 562 the following five (5) courses and distances:

1. North 49° 58' 23" East, a distance of 147.78 feet to a point,
2. South 41° 24' 55" East, a distance of 70.49 feet to a point,
3. North 45° 31' 05" East, a distance of 56.75 feet to a point,
4. North 40° 12' 55" West, a distance of 126.00 feet to a point, and
5. South 49° 59' 25" West, a distance of 204.58 feet to a point on said northerly street boundary of East Main Street; thence North 38° 59' 11" West, along said northerly street boundary of East Main Street, a distance of 361.46 feet to a point at its intersection with the property division line between the parcel described herein, on the east and lands now or formerly of Easy Property Solutions, as described in Instrument #2018-2852, on the west;

thence North 49° 47' 15" East, along said property division line, a distance of 120.00 feet to a point at its intersection with the property division line between the parcel described herein, on the north and said lands now or formerly of Easy Property Solutions, on the south; thence North 38° 59' 11" West, along said property division line and along lands now or formerly of Daniel P.

Lipec, as described in Book 1145 of Deeds at Page 101, a distance of 164.44 feet to a point at its intersection with the property division line between the parcel described herein, on the east and lands now or formerly of James and Denise Luther, as described in Instrument #2017-5574, on the west; thence North 49° 47' 15" East, along said property division line, a distance of 115.00 feet to a point at its intersection with the property line between the parcel described herein, on the south and lands now or formerly of Samuel Ameduri, as described in Book 1469 of Deeds at Page 284, on the north; thence South 39° 20' 34" East, along said property division line, a distance of 170.40 feet to a point at its intersection with the property division line between the parcel described herein, on the east and said lands now or formerly of Samuel Ameduri, on the west; thence North 51° 22' 53" East, along said property division line and along lands now or formerly of Reuben Pratt, as described in Book 1298 of Deeds at Page 17, the easterly terminus of Orchard Street, and lands now or formerly of Channing Murdock, as described in Book 1533 of Deeds at Page 347, a distance of 337.66 feet to a point at its intersection with the property division line between the parcel described herein, on the south and lands now or formerly of the Village of Frankfort (SBL: 112.74-1-66.1), on the north; thence along said property division line, lands now or formerly of Rocco Branck and David Branck, as described in Book 1496 of Deeds at Page 854, other lands now or formerly of the Village of Frankfort, as described in Book 845 of Deeds at Page 259, said lands now or formerly of the Village of Frankfort (SBL: 112.74-1-66.1), and lands now or formerly of Herkimer County Sewer Department, as described in Instrument #2019-1750, the following five (5) courses and distances:

1. Along a curve to the right having a radius of 5,689.65 feet, an arc length of 862.56 feet, a chord bearing of South 38° 54' 44" East, and a chord length of 861.73 feet to a point,
2. South 34° 34' 09" East, a distance of 951.76 feet, to a point,
3. North 55° 25' 51" East, a distance of 30.00 feet to a point,
4. South 34° 34' 09" East, a distance of 952.64 feet to a point, and
5. South 55° 25' 51" West, a distance of 163.99 feet to a point at its intersection with the property division line between the parcel described herein on the north and said lands of Acme Road Industrial Park, Inc., as described in Instrument #2017-2479, on the south;

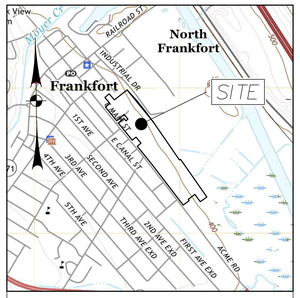
thence along said property division line the following four (4) courses and distances:

1. North 35° 56' 09" West, a distance of 180.39 feet to a point,
2. South 52° 57' 21" West, a distance of 174.00 feet to a point,
3. South 37° 02' 39" East, a distance of 32.00 feet to a point, and
4. South 52° 57' 21" West, a distance of 151.71 feet to the point or place of beginning and being 32.74 acres of land, more or less.

Bearings based on True North at the 74° 30' Meridian of West Longitude

Subject to any rights, easements, covenants, or restrictions of record.

Appendix B: Environmental Easement Site Plan & Record



LOCATION MAP
NOT TO SCALE

LEGEND

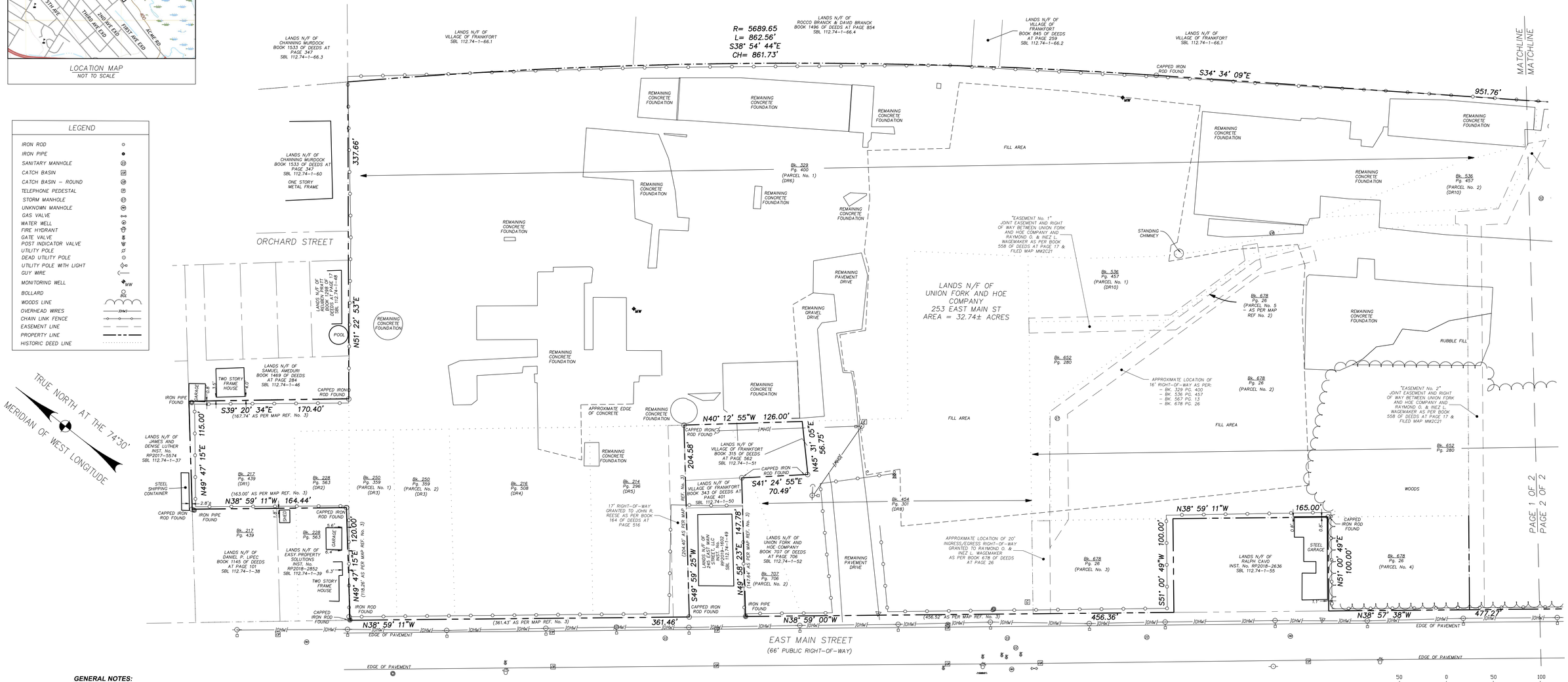
- IRON ROD
- IRON PIPE
- SANITARY MANHOLE
- CATCH BASIN
- CATCH BASIN – ROUND
- TELEPHONE PEDESTAL
- STORM MANHOLE
- UNKNOWN MANHOLE
- GAS VALVE
- WATER WELL
- FIRE HYDRANT
- GATE VALVE
- POST INDICATOR VALVE
- UTILITY POLE
- DEAD UTILITY POLE
- UTILITY POLE WITH LIGHT
- GUY WIRE
- MONITORING WELL (MW)
- BOLLARD (BX)
- WOODS LINE
- OVERHEAD WIRES (OHW)
- CHAIN LINK FENCE
- EASEMENT LINE
- PROPERTY LINE
- HISTORIC DEED LINE

DEED REFERENCE:

1. A PORTION OF A PARCEL OF LAND CONVEYED BY MYRON K. ELLSWORTH AND MARY E. ELLSWORTH TO THE UNION FORK AND HOE COMPANY BY DEED DATED SEPTEMBER 20, 1913 AND RECORDED IN THE HERKIMER COUNTY CLERK'S OFFICE ON OCTOBER 6, 1913 IN LIBER 217 OF DEEDS AT PAGE 439.
2. A PORTION OF A PARCEL OF LAND CONVEYED BY ELIZABETH SHEAF TO THE UNION FORK AND HOE COMPANY BY DEED DATED APRIL 22, 1916 AND RECORDED IN THE HERKIMER COUNTY CLERK'S OFFICE ON APRIL 19, 1916 IN LIBER 228 OF DEEDS AT PAGE 563.
3. A PARCEL OF LAND CONVEYED BY FRANK A. SCHMIDT TO UNION FORK & HOE CO. BY DEED DATED AUGUST 25, 1920 AND RECORDED IN THE HERKIMER COUNTY CLERK'S OFFICE ON SEPTEMBER 8, 1920 IN LIBER 250 OF DEEDS AT PAGE 359.
4. A PARCEL OF LAND CONVEYED BY MARGARET FARRELL TO THE UNION FORK AND HOE COMPANY BY DEED DATED JULY 9, 1913 AND RECORDED IN THE HERKIMER COUNTY CLERK'S OFFICE ON JULY 11. 1913 IN LIBER 216 OF DEEDS AT PAGE 508.
5. A PARCEL OF LAND CONVEYED BY JOHN R. LEWIS AND JULIA C. LEWIS TO THE UNION FORK AND HOE COMPANY BY DEED DATED NOVEMBER 2, 1912 AND RECORDED IN THE HERKIMER COUNTY CLERK'S OFFICE ON NOVEMBER 15. 1912 IN LIBER 214 OF DEEDS AT PAGE 296.
6. A PARCEL OF LAND CONVEYED BY WEST SHORE RAILROAD COMPANY AND THE NEW YORK CENTRAL RAILROAD COMPANY TO THE UNION FORK AND HOE COMPANY BY DEED DATED AUGUST 16, 1938 AND RECORDED IN THE HERKIMER COUNTY CLERK'S OFFICE ON AUGUST 18, 1938 IN LIBER 329 OF DEEDS AT PAGE 400.
7. A PARCEL OF LAND CONVEYED BY NORSTAR BANK OF UPSTATE NY TO UNION FORK 8. HOE COMPANY BY DEED DATED JUNE 1986 AND RECORDED IN THE HERKIMER COUNTY CLERK'S OFFICE ON JUNE 17, 1986 IN DEED 707 OF DEEDS AT PAGE 706.
8. A PARCEL OF LAND CONVEYED BY WEST SHORE RAILROAD COMPANY AND THE NEW YORK CENTRAL RAILROAD COMPANY TO THE UNION FORK AND HOE COMPANY BY DEED DATED JULY 18, 1951 AND RECORDED IN THE HERKIMER COUNTY CLERK'S OFFICE ON APRIL 14, 1952 IN LIBER 454 OF DEEDS AT PAGE 301.
9. A PARCEL OF LAND CONVEYED BY THE TOWN OF FRANKFORT TO UNION FORK AND HOE COMPANY BY DEED DATED JULY 14, 1981 AND RECORDED IN THE HERKIMER COUNTY CLERK'S OFFICE ON JULY 17, 1981 IN LIBER 678 OF DEEDS AT PAGE 26.
10. A PARCEL OF LAND CONVEYED BY THE NEW YORK CENTRAL RAILROAD COMPANY TO THE UNION FORK AND HOE COMPANY BY DEED DATED AUGUST 25, 1959 AND RECORDED IN THE HERKIMER COUNTY CLERK'S OFFICE ON NOVEMBER 4, 1959 IN LIBER 536 OF DEEDS AT PAGE 457.
11. A PORTION OF A PARCEL OF LAND CONVEYED BY THE HERKIMER COUNTY INDUSTRIAL DEVELOPMENT AGENCY TO THE UNION FORK AND HOE COMPANY BY DEED DATED FEBRUARY 26, 1992 AND RECORDED IN THE HERKIMER COUNTY CLERK'S OFFICE ON FEBRUARY 26, 1992 IN LIBER 792 AT PAGE 695.
12. A PARCEL OF LAND CONVEYED BY THE FRANKFORT TRANSIT WAREHOUSE COMPANY, INC. TO THE UNION FORK AND HOE COMPANY BY DEED DATED JUNE 27, 1977 AND RECORDED IN THE HERKIMER COUNTY CLERK'S OFFICE ON JULY 25, 1977 IN LIBER 652 AT PAGE 280.

MAP REFERENCES:

1. "MAP SHOWING EXISTING TOPOGRAPHIC CONDITIONS FORMER UNION FORK AND HOE FACILITY SUPERFUND SITE NO. 622011" PREPARED BY THEW ASSOCIATES DATED OCTOBER 12, 2019.
2. "MAP SHOWING PROPOSED PROPERTY TRANSFERS BETWEEN N. Y. C.R.R. CO; FRANKFORT TRANSIT WAREHOUSE CO. INC., A WHOLLY OWNED SUBSIDIARY OF THE UNION FORK & HOE CO. INC. AND THE TOWN OF FRANKFORT", PREPARED BY W.S. TIEL P.E. & L.S. #31749, DATED SEPTEMBER 7, 1963, LAST REVISED JANUARY 4, 1964. AND FILED IN THE HERKIMER COUNTY CLERK'S OFFICE ON JANUARY 24, 1964 AS MAP NO. MM2C21.
3. "LANDS OF THE UNION FORK AND HOE CO.", PREPARED BY SNYDER MYERS ASSOCIATES, PC, DATED AUGUST 18, 1987."
4. "PROPERTY MAP SHOWING LANDS TO BE CONVEYED TO RM. MURDOCK COMPANY, LLC.", PREPARED BY D.L. MOWERS LAND SURVEYORS & ASSOCIATES, DATED DECEMBER 31, 2002, AND FILED IN THE HERKIMER COUNTY CLERK'S OFFICE ON JULY 9, 2003 AS MAP NO. JJ2BC27.
5. "PROPERTY MAP SHOWING LANDS OF DENISE A. ROMEO (LUTHER) ", PREPARED BY ROBERT G. HARVEY PLS, DATED OCTOBER 4, 2004, AND FILED IN THE HERKIMER COUNTY CLERK'S OFFICE ON NOVEMBER 29, 2004 AS MAP NO. JJ30816
6. "PROPERTY MAP SHOWING LANDS BELONGING TO GEORGE CATTAT, JANET CATTAT AND CHARLOTTE DURSE": PREPARED BY D.L. MOWERS LAND SURVEYORS 8. ASSOCIATES, DATED MAY 2, 2007, AND FILED IN THE HERKIMER COUNTY CLERK'S OFFICE ON JULY 9, 2012 AS MAP NO. 1205.
7. "PROPERTY MAP SHOWING LANDS TO BE CONVEYED TO ROCCO BRANCK AND DAVID BRANCK", PREPARED BY D.L. MOWERS LAND SURVEYORS & ASSOCIATES. DATED NOVEMBER 3, 2012, AND FILED IN THE HERKIMER COUNTY CLERK'S OFFICE ON AUGUST 1, 2013 AS MAP NO. 1357.



GENERAL NOTES:

1. COORDINATES ARE REFERENCED TO NORTH AMERICAN DATUM OF 1983, (NAD83/ 2011), NEW YORK STATE PLANE COORDINATE SYSTEM EAST ZONE (3101).
2. INFORMATION SHOWN HEREON IS FROM A FIELD SURVEY COMPLETED BY M.J. ENGINEERING AND LAND SURVEYING P.C. ON AUGUST 21, 2020.
3. UNDERGROUND UTILITIES SHOWN HEREON WERE LOCATED BASED ON VISIBLE EVIDENCE AT GROUND LEVEL ONLY AND DO NOT PURPORT TO SHOW ALL UTILITIES, ANY AND ALL UTILITIES SHOWN ARE SUBJECT TO VERIFICATION BY EXCAVATION.
4. UNAUTHORIZED ALTERATIONS OR ADDITION TO THIS SURVEY MAP IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW. COPIES OF THIS SURVEY MAP NOT BEARING THE LAND SURVEYORS SEAL AND SIGNED WITH INK SHALL NOT BE CONSIDERED TO BE VALID COPIES.
5. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN UP-TO-DATE ABSTRACT OF TITLE AND IS MADE SUBJECT TO WHATEVER STATE OF FACTS SUCH A DOCUMENT WOULD REVEAL.
6. SITE ADDRESS: 253 EAST MAIN STREET, FRANKFORT, NEW YORK

ENGINEERING/INSTITUTIONAL CONTROLS:

- THE PROPERTY MAY BE SOLELY USED FOR: COMMERCIAL OR INDUSTRIAL USE.
- ALL ENGINEERING CONTROLS MUST BE MAINTAINED AS SPECIFIED IN THE SITE MANAGEMENT PLAN (SMP).
- ALL ENGINEERING CONTROLS MUST BE INSPECTED AT A FREQUENCY AND IN A MANNER DEFINED IN THE SMP.
- THE USE OF GROUNDWATER UNDERLYING THE PROPERTY IS PROHIBITED WITHOUT NECESSARY WATER QUALITY TREATMENT AS DETERMINED BY THE NEW YORK STATE DEPARTMENT OF HEALTH (NYSDOH) OR THE HERKIMER COUNTY DEPARTMENT OF HEALTH TO RENDER IT SAFE FOR USE AS DRINKING WATER OR FOR INDUSTRIAL PURPOSES, AND THE USER MUST FIRST NOTIFY AND OBTAIN WRITTEN APPROVAL TO DO SO FROM THE DEPARTMENT.
- DATA AND INFORMATION PERTINENT TO SITE MANAGEMENT MUST BE REPORTED AT THE FREQUENCY AND IN A MANNER AS DEFINED IN THIS SMP.

ENGINEERING/INSTITUTIONAL CONTROLS CON'T.:

- ALL FUTURE ACTIVITIES THAT WILL DISTURB REMAINING CONTAMINATED MATERIAL MUST BE PERFORMED AS DEFINED IN THIS SMP.
- MONITORING TO ACCESS THE PERFORMANCE AND EFFECTIVENESS OF THE REMEDY MUST BE PERFORMED AS DEFINED IN THIS SMP.
- OPERATION, MAINTENANCE, MONITORING, INSPECTION AND REPORTING OF ANY MECHANICAL OR PHYSICAL COMPONENT OF THE REMEDY SHALL BE PERFORMED AS DEFINED IN THE SMP. THIS SHALL INCLUDE PERIODIC MONITORING OF SOIL CAP INTEGRITY, AND MAINTENANCE OF COVER.
- ACCESS TO THE SITE MUST BE PROVIDED TO AGENTS, EMPLOYEES OR OTHER REPRESENTATIVES OF THE STATE OF NEW YORK WITH REASONABLE PRIOR NOTICE TO THE PROPERTY OWNER TO ASSURE COMPLIANCE WITH THE SMP.
- SITE COVER SYSTEM CONSISTING OF A MINIMUM OF A DEMARCATION LAYER AND 12–INCHES OF CLEAN SOIL, ASPHALT PAVEMENT, CONCRETE AND/OR BUILDINGS.

CERTIFICATION EXTENDS ONLY TO THE EXTENT OF LANDS OF UNION FORK AND HOE COMPANY AS SHOWN HEREON.

CERTIFIED TO:

1. THE PEOPLE OF THE STATE OF NEW YORK, ACTING THROUGH THEIR COMMISSIONER OF THE NEW YORK SATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION:
2. UNION FORK AND HOE COMPANY;

JOSEPH G. MALINOSKI, PLS — SEPTEMBER 30, 2020
N.Y.S. LIC. No. 50314

THIS PROPERTY IS SUBJECT TO AN ENVIRONMENTAL EASEMENT HELD BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PURSUANT TO TITLE 36 OF ARTICLE 71 OF THE NEW YORK ENVIRONMENTAL CONSERVATION LAW. THE ENGINEERING AND INSTITUTIONAL CONTROLS FOR THIS EASEMENT ARE SET FORTH IN THE THE SITE MANAGEMENT PLAN ("SMP"). A COPY OF THE SMP MUST BE OBTAINED BY ANY PARTY WITH AN INTEREST IN THE PROPERTY. THE SMP MAY BE OBTAINED FROM THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF ENVIRONMENTAL REMEDIATION, SITE CONTROL SECTION, 625 BROADWAY, ALBANY, NY 12233 OR AT DERWEB@DEC.NY.GOV.

THE DEC OR THEIR AGENT MAY ACCESS THE SITE, AS SHOWN HERE ON, THROUGH ANY EXISTING STREET ACCESS EXISTING RIGHT OF WAY, OR BUILDING INGRESS/EGRESS ACCESS POINT.

SUBMITTAL / REVISIONS

No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE

PROJ. MANAGER:	JEQ
CHIEF DESIGNER:	
DESIGNED BY:	
DRAWN BY:	AEM
CHECKED BY:	JEQ

STATE OF NEW YORK — JOSEPH G. MALINOSKI — LICENSED LAND SURVEYOR — 050314
09/30/2020

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

ENVIRONMENTAL EASEMENT
UNION FORK AND HOE COMPANY
STATE SUPERFUND PROJECT
SITE No. 622011
VILLAGE/ TOWN OF FRANKFORT
HERKIMER COUNTY NEW YORK STATE

SCALE:	1" = 50'
CONTRACT No.:	
MJ PROJ. No.:	1128.08
DATE:	AUGUST 28, 2020

1 OF 2

File Name: G:\MJ1128.08 Union Fork & Hoe - Tetratech\Cad\MJ1128.08 SUR-Y.dwg [Layout: 1 of 2]
Date: Wed, Sep 30, 2020 - 2:18 PM [Name:]

ENVIRONMENTAL EASEMENT DESCRIPTION

ALL THE CERTAIN PIECE OR PARCEL OF LAND, SITUATED IN THE VILLAGE AND TOWN OF FRANKFORT, COUNTY OF HERKIMER AND STATE OF NEW YORK AND BEING MORE PARTICULARLY BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE NORTHERLY STREET BOUNDARY OF EAST MAIN STREET, AT ITS INTERSECTION WITH THE PROPERTY DIVISION LINE BETWEEN LANDS NOW OR FORMERLY OF ACME ROAD INDUSTRIAL PARK, INC., AS DESCRIBED IN INSTRUMENT #2017-2479, ON THE EAST AND THE PARCEL DESCRIBED HEREIN, ON THE WEST; THENCE ALONG SAID NORTHERLY STREET BOUNDARY THE FOLLOWING THREE (3) COURSES AND DISTANCES:

1. NORTH 36° 50' 03" WEST, A DISTANCE OF 12.84 FEET TO A POINT,
2. NORTH 37° 41' 21" WEST, A DISTANCE OF 1,061.42 FEET TO A POINT, AND
3. NORTH 38° 57' 38" WEST, A DISTANCE OF 477.27 FEET TO A POINT AT ITS INTERSECTION WITH THE PROPERTY DIVISION LINE BETWEEN THE PARCEL DESCRIBED HEREIN, ON THE EAST AND LANDS NOW OR FORMERLY OF RALPH CAVO, AS DESCRIBED IN INSTRUMENT #2018-2636, ON THE WEST; THENCE ALONG SAID PROPERTY DIVISION LINE THE FOLLOWING THREE (3) COURSES AND DISTANCES:

1. NORTH 51°00' 49" EAST, A DISTANCE OF 100.00 FEET TO A POINT,
2. NORTH 38° 59' 11" WEST, A DISTANCE OF 165.00 FEET TO A POINT, AND
3. SOUTH 51° 00' 49" WEST, A DISTANCE OF 100.00 FEET TO A POINT ON SAID NORTHERLY STREET BOUNDARY OF EAST MAIN STREET; THENCE NORTH 38° 59' 00" WEST, ALONG SAID NORTHERLY STREET BOUNDARY OF EAST MAIN STREET, A DISTANCE OF 456.36 FEET TO A POINT AT ITS INTERSECTION WITH THE PROPERTY DIVISION LINE BETWEEN THE PARCEL DESCRIBED HEREIN, ON THE EAST AND LANDS NOW OR FORMERLY OF 245 EAST MAIN STREET, LLC, AS DESCRIBED IN INSTRUMENT #2019-1602, ON THE WEST; THENCE ALONG SAID PROPERTY DIVISION LINE AND ALONG LANDS NOW OR FORMERLY OF THE VILLAGE OF FRANKFORT, AS DESCRIBED IN BOOK 343 OF DEEDS AT PAGE 401 AND OTHER LANDS NOW OR FORMERLY OF THE VILLAGE OF FRANKFORT, AS DESCRIBED IN BOOK 315 OF DEEDS AT PAGE 562 THE FOLLOWING FIVE (5) COURSES AND DISTANCES:

1. NORTH 49° 58' 23" EAST, A DISTANCE OF 147.78 FEET TO A POINT,
2. SOUTH 41° 24' 55" EAST, A DISTANCE OF 70.49 FEET TO A POINT,
3. NORTH 45° 31' 05" EAST, A DISTANCE OF 56.75 FEET TO A POINT,
4. NORTH 40° 12' 55" WEST, A DISTANCE OF 126.00 FEET TO A POINT, AND
5. SOUTH 49° 59' 25" WEST, A DISTANCE OF 204.58 FEET TO A POINT ON SAID STREET, A DISTANCE OF 361.46 FEET TO A POINT AT ITS INTERSECTION WITH THE PROPERTY DIVISION LINE BETWEEN THE PARCEL DESCRIBED HEREIN, ON THE EAST AND LANDS NOW OR FORMERLY OF EASY PROPERTY SOLUTIONS, AS DESCRIBED IN INSTRUMENT #2018-2852, ON THE WEST; THENCE NORTH 49° 47' 15" EAST, ALONG SAID PROPERTY DIVISION LINE, A DISTANCE OF 120.00 FEET TO A POINT AT ITS INTERSECTION WITH THE PROPERTY DIVISION LINE BETWEEN THE PARCEL DESCRIBED HEREIN, ON THE NORTH AND SAID LANDS NOW OR FORMERLY OF EASY PROPERTY SOLUTIONS, ON THE SOUTH; THENCE NORTH 38° 59' 11" WEST, ALONG SAID PROPERTY DIVISION LINE AND ALONG LANDS NOW OR FORMERLY OF DANIEL P. LIPEC, AS DESCRIBED IN BOOK 1145 OF DEEDS AT PAGE 101, A DISTANCE OF 164.44 FEET TO A POINT AT ITS INTERSECTION WITH THE PROPERTY DIVISION LINE BETWEEN THE PARCEL DESCRIBED HEREIN, ON THE EAST AND LANDS NOW OR FORMERLY OF JAMES AND DENISE LUTHER, AS DESCRIBED IN INSTRUMENT #2017-5574, ON THE WEST; THENCE NORTH 49° 47' 15" EAST, ALONG SAID PROPERTY DIVISION LINE, A DISTANCE OF 115.00 FEET TO A POINT AT ITS INTERSECTION WITH THE PROPERTY LINE BETWEEN THE PARCEL DESCRIBED HEREIN, ON THE SOUTH AND LANDS NOW OR FORMERLY OF SAMUEL AMEDURI, AS DESCRIBED IN BOOK 1469 OF DEEDS AT PAGE 284, ON THE NORTH; THENCE SOUTH 39° 20' 34" EAST, ALONG SAID PROPERTY DIVISION LINE, A DISTANCE OF 170.40 FEET TO A POINT AT ITS INTERSECTION WITH THE PROPERTY DIVISION LINE BETWEEN THE PARCEL DESCRIBED HEREIN, ON THE EAST AND SAID LANDS NOW OR FORMERLY OF SAMUEL AMEDURI, ON THE WEST; THENCE NORTH 51° 22' 53" EAST, ALONG SAID PROPERTY DIVISION LINE AND ALONG LANDS NOW OR FORMERLY OF REUBEN PRATT, AS DESCRIBED IN BOOK 1298 OF DEEDS AT PAGE 17, THE EASTERLY TERMINUS OF ORCHARD STREET, AND LANDS NOW OR FORMERLY OF CHANNING MURDOCK, AS DESCRIBED IN BOOK 1533 OF DEEDS AT PAGE 347, A DISTANCE OF 337.66 FEET TO A POINT AT ITS INTERSECTION WITH THE PROPERTY DIVISION LINE BETWEEN THE PARCEL DESCRIBED HEREIN, ON THE SOUTH AND LANDS NOW OR FORMERLY OF THE VILLAGE OF FRANKFORT (SBL: 112.74-1-66.1), ON THE NORTH; THENCE ALONG SAID PROPERTY DIVISION LINE, LANDS NOW OR FORMERLY OF ROCCO BRANCK AND DAVID BRANCK, AS DESCRIBED IN BOOK 1496 OF DEEDS AT PAGE 854, OTHER LANDS NOW OR FORMERLY OF THE VILLAGE OF FRANKFORT, AS DESCRIBED IN BOOK 845 OF DEEDS AT PAGE 259, SAID LANDS NOW OR FORMERLY OF THE VILLAGE OF FRANKFORT (SBL: 112.74-1-66.1), AND LANDS NOW OR FORMERLY OF HERKIMER COUNTY SEWER DEPARTMENT, AS DESCRIBED IN INSTRUMENT #2019-1750, THE FOLLOWING FIVE (5) COURSES AND DISTANCES:

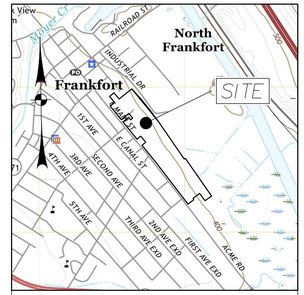
1. ALONG A CURVE TO THE RIGHT HAVING A RADIUS OF 5,689.65 FEET, AN ARC LENGTH LENGTH OF 861.73 FEET TO A POINT,
2. SOUTH 34° 34' 09" EAST, A DISTANCE OF 951.76 FEET, TO A POINT,
3. NORTH 55° 25' 51" EAST, A DISTANCE OF 30.00 FEET TO A POINT,
4. SOUTH 34° 34' 09" EAST, A DISTANCE OF 952.64 FEET TO A POINT, AND
5. SOUTH 55° 25' 51" WEST, A DISTANCE OF 163.99 FEET TO A POINT AT ITS INTERSECTION WITH THE PROPERTY DIVISION LINE BETWEEN THE PARCEL DESCRIBED HEREIN ON THE NORTH AND SAID LANDS OF ACME ROAD INDUSTRIAL PARK, INC., AS DESCRIBED IN INSTRUMENT #2017-2479, ON THE SOUTH; THENCE ALONG SAID PROPERTY DIVISION LINE THE FOLLOWING FOUR (4) COURSES AND DISTANCES:

1. NORTH 35° 56' 09" WEST, A DISTANCE OF 180.39 FEET TO A POINT,
2. SOUTH 52° 57' 21" WEST, A DISTANCE OF 174.00 FEET TO A POINT,
3. SOUTH 37° 02' 39" EAST, A DISTANCE OF 32.00 FEET TO A POINT, AND
4. SOUTH 52° 57' 21" WEST, A DISTANCE OF 151.71 FEET TO THE POINT OR PLACE OF BEGINNING AND BEING 32.74 ACRES OF LAND, MORE OR LESS.

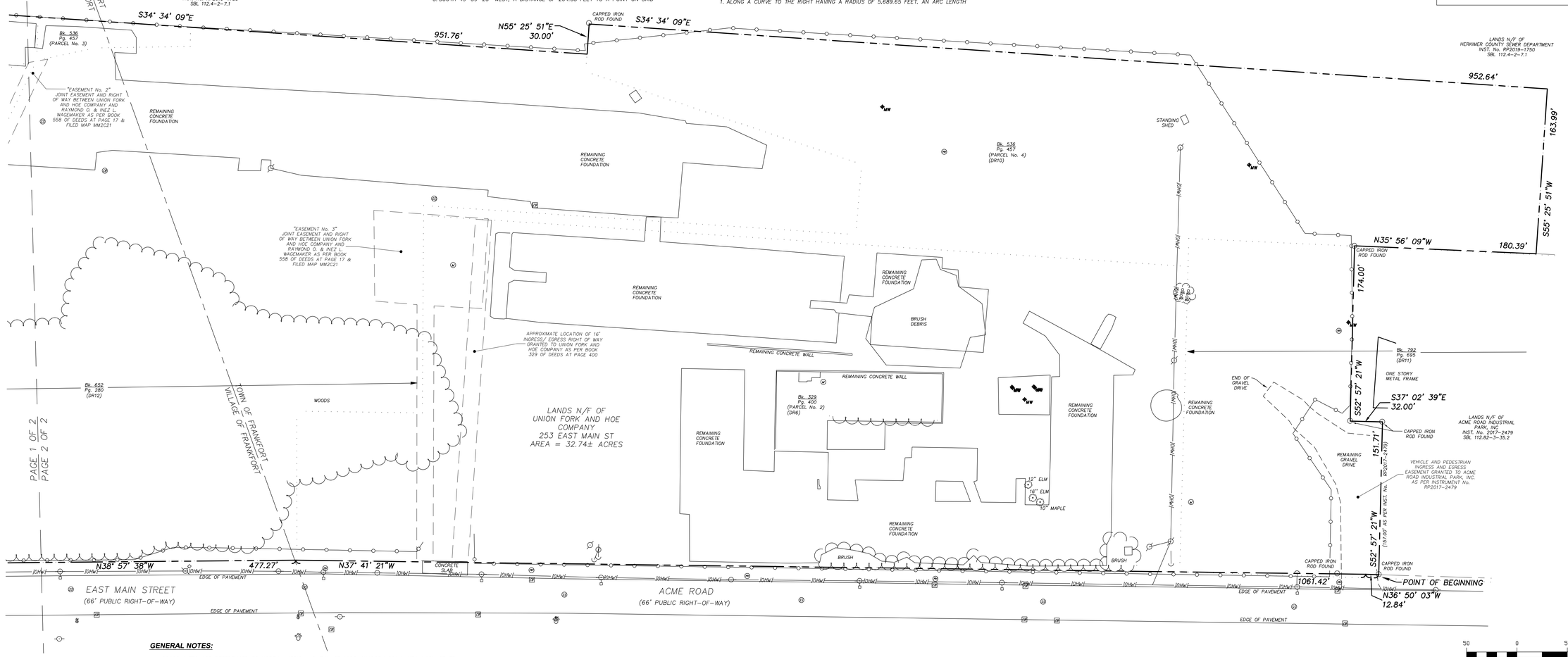
BEARINGS BASED ON TRUE NORTH AT THE 74° 30' MERIDIAN OF WEST LONGITUDE.

THIS PROPERTY IS SUBJECT TO AN ENVIRONMENTAL EASEMENT HELD BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PURSUANT TO TITLE 36 OF ARTICLE 71 OF THE NEW YORK ENVIRONMENTAL CONSERVATION LAW. THE ENGINEERING AND INSTITUTIONAL CONTROLS FOR THIS EASEMENT ARE SET FORTH IN THE THE SITE MANAGEMENT PLAN ("SMP"). A COPY OF THE SMP MUST BE OBTAINED BY ANY PARTY WITH AN INTEREST IN THE PROPERTY. THE SMP MAY BE OBTAINED FROM THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF ENVIRONMENTAL REMEDIATION, SITE CONTROL SECTION, 625 BROADWAY, ALBANY, NY 12233 OR AT DERWEB@DEC.NY.GOV

SUBJECT TO ANY RIGHTS, EASEMENTS, COVENANTS, OR RESTRICTIONS OF RECORD.



LOCATION MAP
NOT TO SCALE



GENERAL NOTES:

1. COORDINATES ARE REFERENCED TO NORTH AMERICAN DATUM OF 1983, (NAD83/ 2011), NEW YORK STATE PLANE COORDINATE SYSTEM EAST ZONE (3101).
2. INFORMATION SHOWN HEREON IS FROM A FIELD SURVEY COMPLETED BY M.J. ENGINEERING AND LAND SURVEYING P.C. ON AUGUST 21, 2020.
3. UNDERGROUND UTILITIES SHOWN HEREON WERE LOCATED BASED ON VISIBLE EVIDENCE AT GROUND LEVEL ONLY AND DO NOT PURPORT TO SHOW ALL UTILITIES, ANY AND ALL UTILITIES SHOWN ARE SUBJECT TO VERIFICATION BY EXCAVATION.
4. UNAUTHORIZED ALTERATIONS OR ADDITION TO THIS SURVEY MAP IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW. COPIES OF THIS SURVEY MAP NOT BEARING THE LAND SURVEYORS SEAL AND SIGNED WITH INK SHALL NOT BE CONSIDERED TO BE VALID COPIES.
5. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN UP-TO-DATE ABSTRACT OF TITLE AND IS MADE SUBJECT TO WHATEVER STATE OF FACTS SUCH A DOCUMENT WOULD REVEAL.
6. SITE ADDRESS: 253 EAST MAIN STREET, FRANKFORT, NEW YORK

LEGEND

IRON ROD	○	WATER WELL	⊛	WOODS LINE	
IRON PIPE	●	FIRE HYDRANT		OVERHEAD WIRES	
SANITARY MANHOLE	Ⓢ	GATE VALVE		CHAIN LINK FENCE	
CATCH BASIN	CB	POST INDICATOR VALVE		EASEMENT LINE	
CATCH BASIN - ROUND	Ⓒ	UTILITY POLE		PROPERTY LINE	
TELEPHONE PEDESTAL	Ⓣ	DEAD UTILITY POLE	○	TAX PARCEL LINE	
STORM MANHOLE	Ⓢ	UTILITY POLE WITH LIGHT			
UNKNOWN MANHOLE	Ⓜ	GUY WIRE			
GAS VALVE	⊙	MONITORING WELL	MW		
		BOLLARD	BOL		

CERTIFICATION EXTENDS ONLY TO THE EXTENT OF LANDS OF UNION FORK AND HOE COMPANY AS SHOWN HEREON.

CERTIFIED TO:

1. THE PEOPLE OF THE STATE OF NEW YORK, ACTING THROUGH THEIR COMMISSIONER OF THE NEW YORK SATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION:
2. UNION FORK AND HOE COMPANY:

JOSEPH G. MALINOSKI, PLS
N.Y.S LIC. No. 50314

SEPTEMBER 30, 2020

50 0 50 100

THIS PROPERTY IS SUBJECT TO AN ENVIRONMENTAL EASEMENT HELD BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PURSUANT TO TITLE 36 OF ARTICLE 71 OF THE NEW YORK ENVIRONMENTAL CONSERVATION LAW. THE ENGINEERING AND INSTITUTIONAL CONTROLS FOR THIS EASEMENT ARE SET FORTH IN THE THE SITE MANAGEMENT PLAN ("SMP"). A COPY OF THE SMP MUST BE OBTAINED BY ANY PARTY WITH AN INTEREST IN THE PROPERTY. THE SMP MAY BE OBTAINED FROM THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF ENVIRONMENTAL REMEDIATION, SITE CONTROL SECTION, 625 BROADWAY, ALBANY, NY 12233 OR AT DERWEB@DEC.NY.GOV

THE DEC OR THEIR AGENT MAY ACCESS THE SITE, AS SHOWN HERE ON, THROUGH ANY EXISTING STREET ACCESS EXISTING RIGHT OF WAY, OR BUILDING INGRESS/EGRESS ACCESS POINT.

SUBMITTAL / RE□ISIONS

No.	DATE	DESCRIPTION	BY	RE□IEWED BY:	DATE

PROJ. MANAGER:	JEQ
CHIEF DESIGNER:	
DESIGNED BY:	
DRAWN BY:	AEM
CHECKED BY:	JEQ

STATE OF NEW YORK JOSEPH G. MALINOSKI LICENSED LAND SURVEYOR 050314

09/30/2020

Engineering and Land S□r□e□ing, P.C.
1533 Crescent Road - C□ifton Park, NY 12065

EN□IRONMENTAL EASEMENT
UNION FORK AND HOE COMPANY
STATE SUPERFUND PROJECT
SITE No. 622011
□ILLAGE/ TOWN OF FRANKFORT
HERKIMER COUNTY NEW YORK STATE

SCALE:	1" □ 50'
CONTRACT No.:	
MJ PROJ. No.:	1128.08
DATE:	AUGUST 28, 2020

2 OF 2

File Na□e: G:\MJ\1128.08 Union Fork & Hoe - Tetratech\Cad\MJ1128.08□SUR□Y.dwg La□o□t: 2 of 2 □
Date: Wed, Se□□30, 2020 - 2:17 PM Na□e: □□inn□

HERKIMER COUNTY – STATE OF NEW YORK

SYLVIA M. ROWAN COUNTY CLERK
109 MARY STREET, SUITE 1111, HERKIMER, NY 13350-2923

COUNTY CLERK'S RECORDING PAGE

THIS PAGE IS PART OF THE DOCUMENT – DO NOT DETACH

INSTRUMENT #: RP2021-914

Receipt#: 465146
Clerk: KC
Rec Date: 02/22/2021 09:51:24 AM
Doc Grp: RP
Descrip: EASEMENT/RIGHT OF WAY
Num Pgs: 12
Rec'd Frm: FIDELITY NATIONAL TITLE NYC

Party1: AMES COMPANIES INC NKA
Party2: PEOPLE OF THE STATE OF NEW YORK
Town: FRANKFORT V FRANKFORT

Recording:

Cover Page	5.00
Recording Fee	75.00
Cultural Ed	14.25
Records Management - Coun	1.00
Records Management - Stat	4.75
TP584	5.00
Sub Total:	105.00
Transfer Tax	
Transfer Tax - State	0.00
Sub Total:	0.00
Total:	105.00

**** NOTICE: THIS IS NOT A BILL ****

***** Transfer Tax *****
Transfer Tax #: 1441
Transfer Tax

Total: 0.00

Record and Return To:

ELECTRONICALLY RECORDED BY CSC

WARNING***
I hereby certify that the within and foregoing was recorded in the Herkimer County Clerk's Office, State of New York.
This sheet constitutes the Clerks endorsement required by Section 316 of the Real Property Law of the State of New York.

Sylvia M. Rowan
Herkimer County Clerk

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this 12th day of January, 2021, between Owner The Ames Companies, Inc., formerly known as Ames True Temper, Inc., formerly known as Acorn Products, Inc., formerly known as UnionTools, Inc., formerly known as Union Tools, Inc., formerly known as The Union Fork and Hoe Company, having an office at 253 East Main Street, Frankfort, New York 13340, County of Herkimer, State of New York (the "Grantor"), and The People of the State of New York (the "Grantee"), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 253 East Main Street in the Town of Frankfort, County of Herkimer and State of New York, known and designated on the tax map of the County Clerk of Herkimer as tax map parcel numbers: Section 112.74 Block 1 Lots 52, 53, 54, 56, 57, 58 and 63, and Section 112.82 Block 3 Lots 1, 2, 3 and 35.1, being the same as that property conveyed to Grantor or its predecessors by the following deeds:

1) Deed dated September 20, 1913 and recorded in the Herkimer County Clerk's Office in Liber and Page 217/439.

2) Deed dated April 22, 1916 and recorded in the Herkimer County Clerk's Office in Liber and Page 228/563.

3) Deed dated August 25, 1920 and recorded in the Herkimer County Clerk's Office in Liber and Page 250/359.

4) Deed dated July 9, 1913 and recorded in the Herkimer County Clerk's Office in Liber and Page 216/508.

5) Deed dated November 2, 1912 and recorded in the Herkimer County Clerk's Office in Liber and Page 214/296.

6) Deed dated August 16, 1938 and recorded in the Herkimer County Clerk's Office in Liber and Page 329/400.

7) Deed dated July 18, 1951 and recorded in the Herkimer County Clerk's Office in Liber and Page 454/301.

8) Deed dated August 25, 1959 and recorded in the Herkimer County Clerk's Office in Liber and Page 536/457.

9) Deed dated January 7, 1964 and recorded in the Herkimer County Clerk's Office in Liber and Page 567/16.

10) Deed dated June 27, 1977 and recorded in the Herkimer County Clerk's Office in Liber and Page 652/280.

11) Deed dated July 14, 1981 and recorded in the Herkimer County Clerk's Office in Liber and Page 678/26.

12) Deed dated June, 1986 and recorded in the Herkimer County Clerk's Office in Liber and Page 707/706.

13) Deed dated February 26, 1992 and recorded in the Herkimer County Clerk's Office in Liber and Page 792/695.

14) Deed dated December 21, 1959 and recorded in the Herkimer County Clerk's Office in Liber and Page 538/163.

WHEREAS, the property subject to this Environmental Easement (the "Controlled Property") comprises approximately 32.74 +/- acres, and is hereinafter more fully described in the Land Title Survey dated August 28, 2020 prepared by Joseph G. Malinoski, P.L.S. of MJ Engineering and Land Surveying, P.C., which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Order on Consent Index Number: A6-0667-06-11, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Herkimer County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The Controlled Property shall not be used for Residential or Restricted Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i) and (ii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation

Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against

the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to:

Site Number: 622011
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the

recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

11. Consistency with the SMP. To the extent there is any conflict or inconsistency between the terms of this Environmental Easement and the SMP, regarding matters specifically addressed by the SMP, the terms of the SMP will control.

Remainder of Page Intentionally Left Blank

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

The Ames Companies, Inc.:

By: _____

Print Name: Brian G. Harris

Title: Vice President Date: November 18, 2020

Grantor's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF New York)

On the 18th day of November, in the year 20 20, before me, the undersigned, personally appeared Brian G. Harris, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

_____
Notary Public - State of New York

PATRICIA PINZEL
NOTARY PUBLIC-STATE OF NEW YORK
No. 01PI4938025
Qualified in Queens County
My Commission Expires 07-18-2022

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting by and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: _____
Michael J. Ryan, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 6th day of January, in the year 2021, before me, the undersigned, personally appeared Michael J. Ryan, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public - State of New York

LAWRENCE H. WEINTRAUB
Notary Public, State of New York
Registration No. 02WE6408234
Qualified in Schenectady County
Commission Expires August 17, 2024

SCHEDULE "A" PROPERTY DESCRIPTION

All the certain piece or parcel of land, situated in the Village and Town of Frankfort, County of Herkimer and State of New York and being more particularly bounded and described as follows:

Beginning at a point on the northerly street boundary of East Main Street, at its intersection with the property division line between lands now or formerly of Acme Road Industrial Park, Inc., as described in Instrument #2017-2479, on the east and the parcel described herein, on the west; thence along said northerly street boundary the following three (3) courses and distances:

1. North 36° 50' 03" West, a distance of 12.84 feet to a point,
2. North 37° 41' 21" West, a distance of 1,061.42 feet to a point, and
3. North 38° 57' 38" West, a distance of 477.27 feet to a point at its intersection with the property division line between the parcel described herein, on the east and lands now or formerly of Ralph Cavo, as described in Instrument #2018-2636, on the west;

thence along said property division line the following three (3) courses and distances:

1. North 51°00' 49" East, a distance of 100.00 feet to a point,
2. North 38° 59' 11" West, a distance of 165.00 feet to a point, and
3. South 51° 00' 49" West, a distance of 100.00 feet to a point on said northerly street boundary of East Main Street; thence North 38° 59' 00" West, along said northerly street boundary of East Main Street, a distance of 456.36 feet to a point at its intersection with the property division line between the parcel described herein, on the east and lands now or formerly of 245 East Main Street, LLC, as described in Instrument #2019-1602, on the west;

thence along said property division line and along lands now or formerly of The Village of Frankfort, as described in Book 343 of Deeds at Page 401 and other lands now or formerly of The Village of Frankfort, as described in Book 315 of Deeds at Page 562 the following five (5) courses and distances:

1. North 49° 58' 23" East, a distance of 147.78 feet to a point,
2. South 41° 24' 55" East, a distance of 70.49 feet to a point,
3. North 45° 31' 05" East, a distance of 56.75 feet to a point,
4. North 40° 12' 55" West, a distance of 126.00 feet to a point, and
5. South 49° 59' 25" West, a distance of 204.58 feet to a point on said northerly street boundary of East Main Street; thence North 38° 59' 11" West, along said northerly street boundary of East Main Street, a distance of 361.46 feet to a point at its intersection with the property division line between the parcel described herein, on the east and lands now or formerly of Easy Property Solutions, as described in Instrument #2018-2852, on the west;

thence North 49° 47' 15" East, along said property division line, a distance of 120.00 feet to a point at its intersection with the property division line between the parcel described herein, on the north and said lands now or formerly of Easy Property Solutions, on the south; thence North 38° 59' 11" West, along said property division line and along lands now or formerly of Daniel P.

Lipec, as described in Book 1145 of Deeds at Page 101, a distance of 164.44 feet to a point at its intersection with the property division line between the parcel described herein, on the east and lands now or formerly of James and Denise Luther, as described in Instrument #2017-5574, on the west; thence North 49° 47' 15" East, along said property division line, a distance of 115.00 feet to a point at its intersection with the property line between the parcel described herein, on the south and lands now or formerly of Samuel Ameduri, as described in Book 1469 of Deeds at Page 284, on the north; thence South 39° 20' 34" East, along said property division line, a distance of 170.40 feet to a point at its intersection with the property division line between the parcel described herein, on the east and said lands now or formerly of Samuel Ameduri, on the west; thence North 51° 22' 53" East, along said property division line and along lands now or formerly of Reuben Pratt, as described in Book 1298 of Deeds at Page 17, the easterly terminus of Orchard Street, and lands now or formerly of Channing Murdock, as described in Book 1533 of Deeds at Page 347, a distance of 337.66 feet to a point at its intersection with the property division line between the parcel described herein, on the south and lands now or formerly of the Village of Frankfort (SBL: 112.74-1-66.1), on the north; thence along said property division line, lands now or formerly of Rocco Branck and David Branck, as described in Book 1496 of Deeds at Page 854, other lands now or formerly of the Village of Frankfort, as described in Book 845 of Deeds at Page 259, said lands now or formerly of the Village of Frankfort (SBL: 112.74-1-66.1), and lands now or formerly of Herkimer County Sewer Department, as described in Instrument #2019-1750, the following five (5) courses and distances:

1. Along a curve to the right having a radius of 5,689.65 feet, an arc length of 862.56 feet, a chord bearing of South 38° 54' 44" East, and a chord length of 861.73 feet to a point,
2. South 34° 34' 09" East, a distance of 951.76 feet, to a point,
3. North 55° 25' 51" East, a distance of 30.00 feet to a point,
4. South 34° 34' 09" East, a distance of 952.64 feet to a point, and
5. South 55° 25' 51" West, a distance of 163.99 feet to a point at its intersection with the property division line between the parcel described herein on the north and said lands of Acme Road Industrial Park, Inc., as described in Instrument #2017-2479, on the south;

thence along said property division line the following four (4) courses and distances:

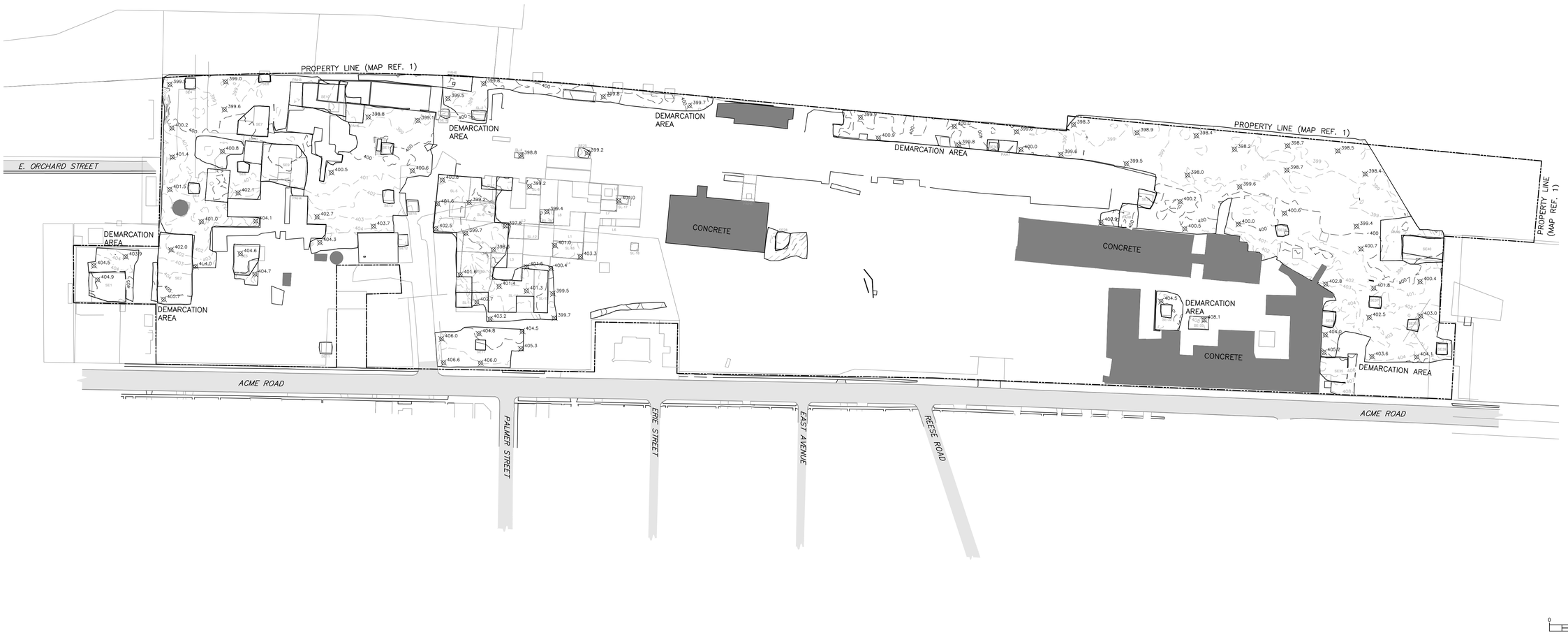
1. North 35° 56' 09" West, a distance of 180.39 feet to a point,
2. South 52° 57' 21" West, a distance of 174.00 feet to a point,
3. South 37° 02' 39" East, a distance of 32.00 feet to a point, and
4. South 52° 57' 21" West, a distance of 151.71 feet to the point or place of beginning and being 32.74 acres of land, more or less.

Bearings based on True North at the 74° 30' Meridian of West Longitude

Subject to any rights, easements, covenants, or restrictions of record.

Appendix C: As-Built Drawings

SITE LOCATION MAP
N.T.S.



NOTES:

1. SURVEY SHOWN WAS PREPARED FROM A SEPTEMBER 9, 2019 THROUGH MAY 22, 2020 FIELD SURVEY.
2. SURVEY SHOWN WAS PREPARED WITHOUT THE BENEFIT OF AN UP TO DATE ABSTRACT OF TITLE OR TITLE REPORT AND IS SUBJECT TO ANY STATEMENTS OF FACT THAT SUCH AN ABSTRACT OF TITLE OR TITLE REPORT MAY REVEAL.
3. SURVEY SUBJECT TO ANY SUBSURFACE CONDITIONS THAT MAY EXIST, IF ANY.
4. THE HORIZONTAL DATUM USED FOR THIS SURVEY IS NAD83.
5. THE VERTICAL DATUM USED FOR THIS SURVEY IS BASED ON MAP REFERENCE 1.

MAP REFERENCES

1. MAP ENTITLED "CONSTRUCTION DRAWNGS UNION FORK & HOE REMEDIAL ACTION", DATED APRIL, 2019 AND PREPARED BY O'BRIEN & GERE ENGINEERS, INC.

LEGEND:

- 409.5 — GROUND SPOT ELEVATIONS
- 404 — MAJOR CONTOURS
- 405 — MINOR CONTOURS
- ASPHALT
- CONCRETE
- PROPERTY LINE
- DEMARCATION AREA

REVISIONS			
NO.	DATE	DESCRIPTION	BY

NMB
LAND SURVEYING
PLLC
20 TROY AVE. WYNANTSKILL NY, 12198
518-376-4630

NATHAN M. BURROWS L.S.
NEW YORK LIC. No. 50,724

POST EXCAVATION SURVEY

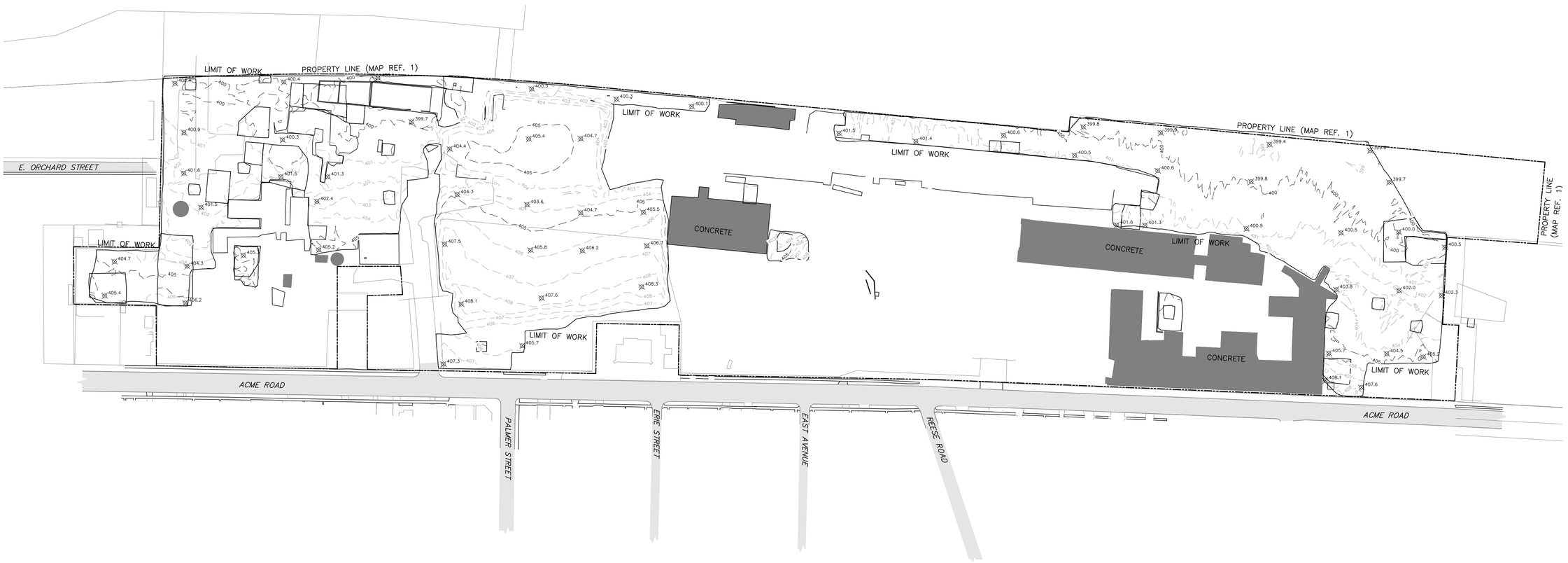
AMES CORPORATION
UNION FORK & HOE
REMEDIAL ACTION

VILLAGE OF FRANKFORT
COUNTY OF HERKIMER — STATE OF NEW YORK

SURVEYED BY: LRI	CHECKED BY: NMB	DATE: 8-3-2020
DRAWN BY: AJK	JOB No. 2995	DWG No. POST EXCAVATION
SCALE: 1"=100'	SHEET 1 OF 1	

SITE LOCATION MAP

N.T.S.



0 100 200 Feet

NOTES:

1. SURVEY SHOWN WAS PREPARED FROM A SEPTEMBER 9, 2019 THROUGH MAY 22, 2020 FIELD SURVEY.
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3. SURVEY SUBJECT TO ANY SUBSURFACE CONDITIONS THAT MAY EXIST, IF ANY.
4. THE HORIZONTAL DATUM USED FOR THIS SURVEY IS NAD83.
5. THE VERTICAL DATUM USED FOR THIS SURVEY IS BASED ON MAP REFERENCE 1.

MAP REFERENCES

1. MAP ENTITLED "CONSTRUCTION DRAWINGS UNION FORK & HOE REMEDIAL ACTION", DATED APRIL, 2019 AND PREPARED BY O'BRIEN & GERE ENGINEERS, INC.

LEGEND:

- 409.5 — GROUND SPOT ELEVATIONS
- 404 — MAJOR CONTOURS
- 405 — MINOR CONTOURS
- ASPHALT
- CONCRETE
- PROPERTY LINE

NO.	DATE	REVISIONS DESCRIPTION	BY

STATE OF NEW YORK — LICENSED LAND SURVEYOR — 050724

NATHAN M. BURROWS L.S.
NEW YORK LIC. No. 50,724

NMB
LAND SURVEYING
PLLC
20 TROY AVE. WYNANTSKILL NY, 12198
518-376-4630

TOP OF GRAVEL SURVEY

AMES CORPORATION
UNION FORK & HOE
REMEDIAL ACTION

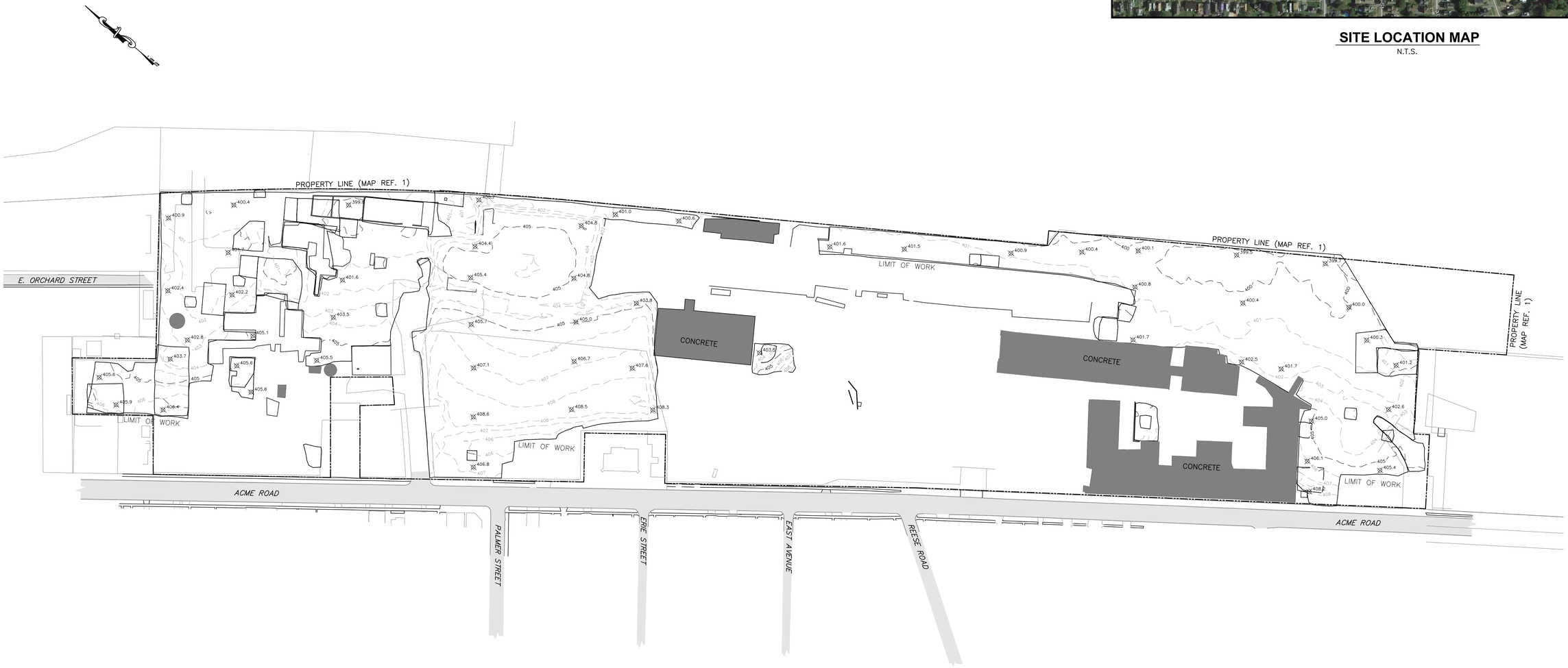
VILLAGE OF FRANKFORT

COUNTY OF HERKIMER — STATE OF NEW YORK

SURVEYED BY: LRI | CHECKED BY: NMB | DATE: 8-3-2020
DRAWN BY: AJK | JOB No. 2995 | DWG No. GRAVEL

SCALE: 1"=100' | SHEET 1 OF 1

SITE LOCATION MAP
N.T.S.



0 100 200 Feet

NOTES:

1. SURVEY SHOWN WAS PREPARED FROM A SEPTEMBER 9, 2019 THROUGH MAY 22, 2020 FIELD SURVEY.
2. SURVEY SHOWN WAS PREPARED WITHOUT THE BENEFIT OF AN UP TO DATE ABSTRACT OF TITLE OR TITLE REPORT AND IS SUBJECT TO ANY STATEMENTS OF FACT THAT SUCH AN ABSTRACT OF TITLE OR TITLE REPORT MAY REVEAL.
3. SURVEY SUBJECT TO ANY SUBSURFACE CONDITIONS THAT MAY EXIST, IF ANY.
4. THE HORIZONTAL DATUM USED FOR THIS SURVEY IS NAD83.
5. THE VERTICAL DATUM USED FOR THIS SURVEY IS BASED ON MAP REFERENCE 1.

MAP REFERENCES

1. MAP ENTITLED "CONSTRUCTION DRAWINGS UNION FORK & HOE REMEDIAL ACTION", DATED APRIL, 2019 AND PREPARED BY O'BRIEN & GERE ENGINEERS, INC.

LEGEND:

- 409.5 — GROUND SPOT ELEVATIONS
- 404 — MAJOR CONTOURS
- 405 — MINOR CONTOURS
- ASPHALT
- CONCRETE
- PROPERTY LINE

NO.	DATE	REVISIONS DESCRIPTION	BY

STATE OF NEW YORK — NATHAN M. BURROWS — 050724 — LICENSED LAND SURVEYOR

NATHAN M. BURROWS L.S.
NEW YORK LIC. No. 50,724

NMB LAND SURVEYING PLLC
20 TROY AVE. WYNANTSKILL NY, 12198
518-376-4630

TOPSOIL SURVEY

AMES CORPORATION
UNION FORK & HOE
REMEDIAL ACTION

VILLAGE OF FRANKFORT
COUNTY OF HERKIMER — STATE OF NEW YORK

SURVEYED BY: LBI | CHECKED BY: NMB | DATE: 8-3-2020
DRAWN BY: AJK | JOB No. 2995 | DWG No. TOPSOIL

SCALE: 1"=100' | SHEET 1 OF 1

NORTH

LEGEND

- EXCAVATION BELOW GROUND SURFACE
- PROPERTY LINES
- ORIGINAL EXCAVATION EXTENTS
- CONCRETE
- ASPHALT

STATE OF NEW YORK
STEPHEN W. ANAGNOST
LICENSED PROFESSIONAL ENGINEER
No. 068269

NO.	DATE	REVISION	INIT.

250' 0 250'

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER, TO ALTER THIS DOCUMENT.

O'BRIEN & GERE ENGINEERS, INC

AMES CORPORATION
UNION FORK & HOE
REMEDIAL ACTION
FRANKFORT, HERKIMER COUNTY, NEW YORK

GENERAL

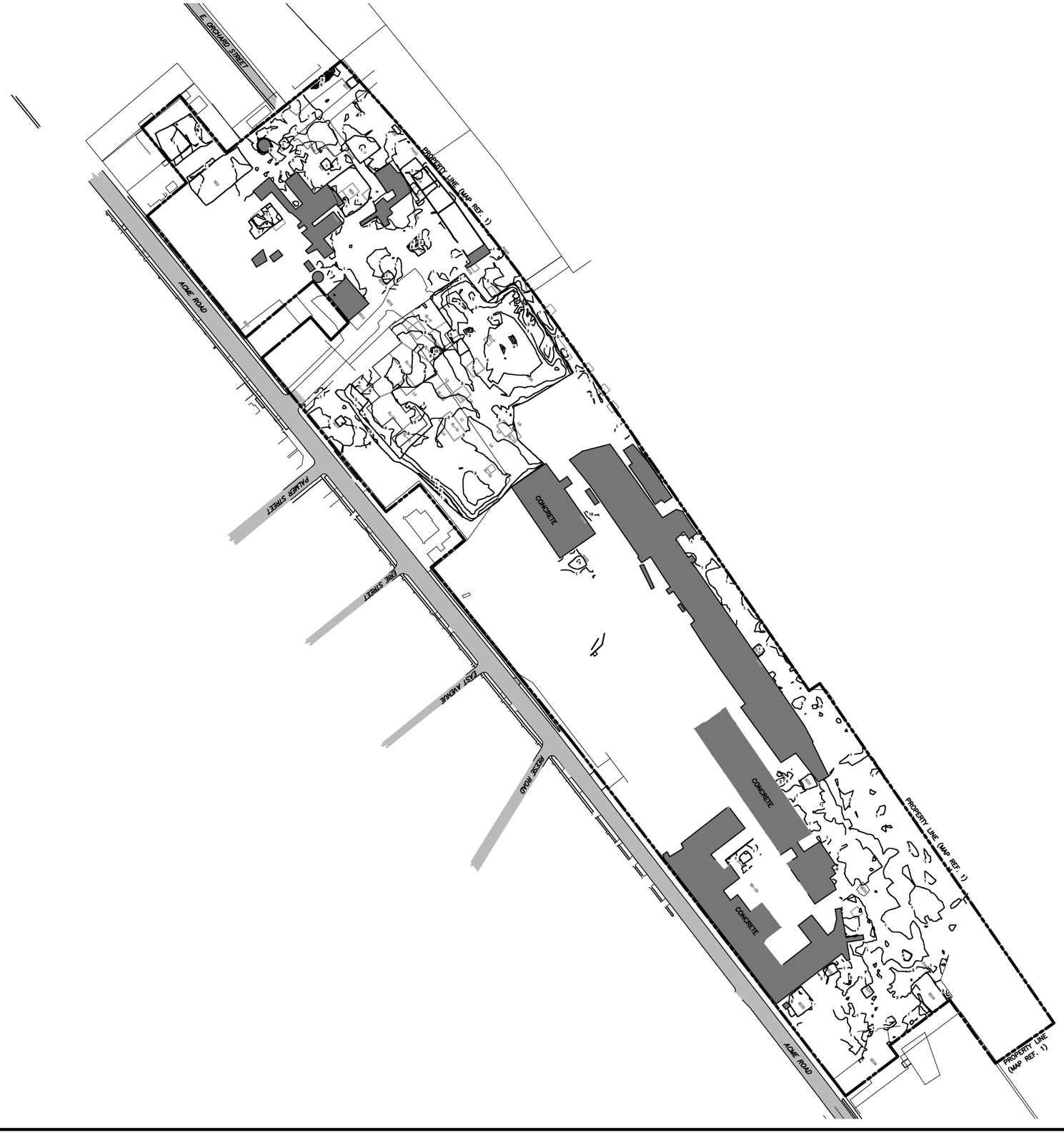
EXCAVATION DEPTH

IN CHARGE OF _____
DESIGNED BY ___ CHECKED BY ___
DRAWN BY _____

FILE NO.
33683.69547.016

DATE
APRIL 2021

C:\USERS\CALANDLN\DOCUMENTS\69547.FIG2-EXCAVATIONDEPTH.DWG



NORTH

LEGEND

- FILL DEPTH
- PROPERTY LINES
- ORIGINAL EXCAVATION EXTENTS
- CONCRETE
- ASPHALT

STATE OF NEW YORK
STEPHEN W. ANAGNOST
No. 068269
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	INIT.

250' 0 250'

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

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O'BRIEN & GERE ENGINEERS, INC

AMES CORPORATION
UNION FORK & HOE
REMEDIAL ACTION
FRANKFORT, HERKIMER COUNTY, NEW YORK

GENERAL

FILL DEPTH

IN CHARGE OF _____
DESIGNED BY ___ CHECKED BY ___
DRAWN BY _____

FILE NO.
33683.69547.016

DATE
APRIL 2021

C:\USERS\CALANDLN\DESKTOP\69547.FIG3-FILLDEPTH.DWG

Appendix D: Latest DUSR 2022

TETRA TECH

Memo

To: Jonathan Wolff-Schneider

From: Lauren McHugh

Cc: Carl Rodzewich

Date: 1/27/2023

Subject: Former Union Fork & Hoe Facility Data Usability Summary Report

Tetra Tech Inc

Data Usability Summary Report

Former Union Fork & Hoe Facility

This memorandum presents the findings of an analytical data validation from the analysis of groundwater samples collected in November 2022 by Tetra Tech Inc. at Former Union Fork & Hoe Facility. The samples were analyzed by ALS Environmental (NYSDOH NELAP certification # 10145) for volatile organic compounds (VOCs) and total metals by the methods specified below.

- VOCs by SW-846 Method 8260C
- Total Metals by SW-846 Method 6010C

Table 1, attached, summarizes the laboratory and client sample identification numbers, sample collection dates, and analytical parameters subject to review.

Validation Overview

This data validation was performed in accordance with the following guidelines, where applicable:

- USEPA Region II Standard Operating Procedures (SOPs) for Data Validation
- USEPA Contract Laboratory Program "National Functional Guidelines for Organic Superfund Methods Data Review" (EPA 540- R-20-005, November 2020)
- USEPA Contract Laboratory Program "National Functional Guidelines for Inorganic Superfund Methods Data Review" (EPA 540- R-20-005, November 2020), and
- published analytical methodologies.

The following acronyms may be used in the discussion of data-quality issues:

%D	Percent Difference	MB	Method Blank
CCV	Continuing Calibration Verification	MDL	Method Detection Limit
FB	Field Blank	MS	Matrix Spike
FD	Field Duplicate	MSD	Matrix Spike Duplicate
ICAL	Initial Calibration	RF	Response Factor
ICV	Initial Calibration Verification	RL	Reporting Limit

ISTD	Internal Standard	RPD	Relative Percent Difference
LCL	Lower Control Limit	RSD	Relative Standard Deviation
LCS	Laboratory Control Sample	TB	Trip Blank
LCSD	Laboratory Control Sample Duplicate	UCL	Upper Control Limit

As a result of the review process, the following qualifiers may be assigned to the data in accordance with the USEPA guidelines and our best professional judgment:

R – The sample results are unusable because certain criteria were not met when generating the data. The analyte may or may not be present in the sample.

J – The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The analyte was not detected at a level greater than or equal to the reporting limit; however, the reported reporting limit is approximate and may be inaccurate or imprecise.

U – The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

NJ – The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

If any validation qualifiers are assigned, these qualifiers should supersede any laboratory-applied qualifiers. Data that is not qualified as a result of this data validation is considered acceptable on the basis of the items specified for review. Data that is qualified as “R” are considered invalid and are not technically usable for data interpretation. Data that is otherwise qualified because of minor data-quality anomalies are usable, as qualified in Table 2 (attached).

Major Deficiencies:

Major deficiencies include those that grossly impact data quality and necessitate the rejection of results. No major deficiencies were identified.

Minor Deficiencies:

Minor deficiencies include anomalies that directly impact data quality and necessitate qualification, but do not result in unusable data. No minor deficiencies were identified.

Other Deficiencies:

Other deficiencies include anomalies that do not directly impact data quality and do not necessitate qualification. The section below describes the other deficiencies that were identified.

VOCs by SW-846 Method 8260C

R2210693

The LCS for batch RQ22214254 exhibited a percent recovery above the UCL for 2-hexanone (125%). The associated results are non-detect. No qualification is necessary.

Total Metals by SW-846 Method 6010C

R2210693

The Continuing Calibration Blank (CCB) contained a low level of Thallium above the Method Reporting Limit (MRL). Since there were no detections above the reporting level of the analyte(s) in the field samples bracketed by elevated CCB, there is no significant impact on the data.

Field duplicate:

One field duplicate and parent sample pair was collected and analyzed for all parameters. For results less than 5X the RL, analytes meet the precision criteria if the absolute difference is less than ±1X the RL. For results greater than 5X the RL, analytes meet the precision criteria if the RPD is less than or equal to 30% for groundwater. The following field duplicate and parent sample pair was compared to and met the precision criteria:

- DUP and FW-1

Conclusion:

On the basis of this evaluation, the laboratory appears to have followed the specified analytical methods with the exception of errors discussed above. If a given fraction is not mentioned above, that means that all specified criteria were met for that parameter. All of the data packages met ASP Category B requirements.

All data are considered usable, as qualified. In addition, completeness, defined as the percentage of analytical results that are judged to be valid, is 100%.

Signed:

Lauren McHugh

Senior Chemist

Data Usability Summary Report
For Former Union Fork Hoe Facility
November 2022 Groundwater Samples
Table 1: Sample Summary

SDG	Lab Sample ID	Client Sample ID	Sample Date	Analytical Parameters
R2210693	R2210693-001	DEC-IW-03	11/2/2022	VOCs, Total Metals
R2210693	R2210693-002	DEC-IW-06	11/2/2022	VOCs, Total Metals
R2210693	R2210693-003	DEC-SW-06	11/2/2022	VOCs, Total Metals
R2210693	R2210693-004	DEC-SW-07	11/2/2022	VOCs, Total Metals
R2210693	R2210693-005	DEC-SW-08	11/2/2022	VOCs, Total Metals
R2210693	R2210693-006	DEC-SW-10	11/2/2022	VOCs, Total Metals
R2210693	R2210693-007	DEC-SW-11	11/2/2022	VOCs, Total Metals
R2210693	R2210693-008	FW-1	11/2/2022	VOCs, Total Metals
R2210693	R2210693-009	OW-01	11/2/2022	VOCs, Total Metals
R2210693	R2210693-010	DUP	11/2/2022	VOCs, Total Metals
R2210693	R2210693-011	TRIP BLANK	11/2/2022	VOCs, Total Metals

Data Usability Summary Report
For Former Union Fork Hoe Facility
November 2022 Groundwater Samples
Table 2: Validator-Applied Qualification

Client Sample ID	Analysis	CAS #	Analyte	Validator Qualifier
No qualifications were necessary.				