C&S COMPANIES®

Brownfield Cleanup Program

Interim Remedial Measure / Alternatives Analysis Report

Heritage Point Site
130 Main Street
City of Buffalo, Erie County, New York

Prepared for:
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December 2022
Revision 02

CERTIFICATION STATEMENT

I John T. Camp, P.E. certify that I am currently a NYS registered professional engineer and that this Interim Remedial Measure / Alternative Analysis Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the Department of Environmental Remediation Technical Guidance for Site Investigation and Remediation (DER-10).

____________________ P.E.

10/6/2022 DATE

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ACRONYM LIST

AAR	Alternatives Analysis Report
AST	Aboveground Storage Tank
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
BGS	Below Ground Surface
BSA	Buffalo Sewer Authority
C&S	C&S Engineers
CAMP	Community Air Monitoring Plan
CPP	Citizen Participation Plan
COPC	Constituents of Potential Concern
DER	Department of Environmental Remediation
DUSR	Data Usability and Summary Report
EDD	Electronic Data Deliverable
EE	Environmental Easement
ELAP	Environmental Laboratory Accreditation Program
ESA	Environmental Site Assessment
HASP	Health and Safety Plan
HFM	Historic Fill Material
IRM	Interim Remedial Measures
MS/MSD	Matrix Spike / Matrix Spike Duplicate
MW	Monitoring Well
NYCRR	New York Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PAH	Polycyclic Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PFAS	Perfluoroalkyl and Polyfluoroalkyl Substances
PID	Photo-ionization Detector

PPM	Parts Per Million
PPT	Parts Per Trillion
QHHEA	Qualitative Human Health Exposure Assessment
RAOs	Remedial Action Objectives
REC	Recognized Environmental Condition
RI	Remedial Investigation
SCG	Standards, Criteria, and Guidance
SCOs	Soil Cleanup Objectives
Site	0.492-Acre Site; 130 Main Street, Buffalo, New York
SMP	Site Management Plan
SVOCs	Semi-volatile Organic Compounds
TAL	Target Analyte List
TCL	Target Compound List
TOGS	Technical & Operational Guidance Series
U.S. EPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds

1 INTRODUCTION

C&S Engineers, Inc. (C&S) has prepared this Interim Remedial Measure (IRM) and Alternatives Analysis (AA) Report on behalf of the applicants for Brownfield Cleanup Program (BCP) Site No. C915347, 130 Main Environmental Remediation, LLC; 130 Main Environmental Remediation II, LLC; 130 Main Master Developer, LLC (hereafter known as "Applicants"), for the Heritage Point site located at 130 Main Street in the City of Buffalo, New York (the "Site"). **Figure 1** shows the location of the Site.

On June 28, 2019, the Applicants, acting as BCP Volunteers, submitted a BCP Application to remediate and develop the Site. The Brownfield Cleanup Agreement (BCA) was executed on July 27, 2020.

A Remedial Investigation Work Plan (RIWP), prepared by Benchmark Environmental Engineering & Science, PLLC, was subsequently approved on April 15, 2019, and the Remedial Investigation (RI) commenced in March 2021.

The RI was conducted by Asbestos & Environmental Consulting Corporation (AECC) to assess the nature and extent of contamination at the Site and consisted of:

- The collection and analysis of three surface soil samples
- The excavation of 16 test pits and analysis of 16 subsurface soil samples
- The advancement of nine soil borings and collection and analysis of seven subsurface soil samples
- The installation of five groundwater monitoring wells and performance of one round of groundwater sampling

Soil and groundwater samples were analyzed for a combination of volatile organic compounds (VOCs), semi volatile organic compounds (SVOCs), pesticides, herbicides, polychlorinated biphenyls (PCBs), metals, and per- and polyfluoroalkyl substances (PFAS).

Contamination exceeding soil cleanup objectives (SCO) appropriate for the proposed Site use (Unrestricted Use) was identified and the contamination is generally associated with historic fill material (HFM) at the Site. Constituents in the HFM at concentrations that exceed the Unrestricted Use SCOs generally include VOCs, SVOCs, pesticides and metals. The RI is discussed in further detail in **Section 2.4**.

An Interim Remedial Measure was implemented to remove contaminated HFM/soil material across the Site. The IRM excavation of all material exceeding applicable SCOs was implemented to prevent exposure to contaminated fill and soil material and is further discussed in **Section 3**.

2 PROJECT BACKGROUND

The BCP area (Site) comprises 0.492 acres that is situated near the Lake Erie waterfront within the City of Buffalo. Located at the northwestern corner of Main Street and Marine Drive. The Site is within a highly developed commercial and residential area of the City of Buffalo, Erie County, New York. The Site was vacant open space used as a commercial and recreational area with lawn and sidewalks.

The Site historically occupied the southeastern corner of the former Buffalo Memorial Auditorium from 1940 until 2009. Prior to the development of the Buffalo Memorial Auditorium, the Site included various commercial-industrial operations.

The Site is located at the northwestern corner of Main Street and Marine Drive and is bordered by Canalside's Hamburg Drain recreational waterway to the north, Marine Drive to the south, Main Street and the NFTA Metro Rail to the east, and commercial educational (Children's Museum) to the west.

The entire 0.492-acre BCP area will be used to construct a mixed-use commercial and residential development.

Figure 1 shows the location of the Site.

2.1 Site History

Prior to recent redevelopment, the Site has been vacant for over a decade. From 1940 until 2009, a portion of the Buffalo Memorial Auditorium was located on the Site. Prior to 1940, the site was developed with commercial structures as noted by the LiRo Engineers, Inc. (LiRo) Phase I ESA, as described below:

Site: The Site appears to be developed with various commercial buildings/storefronts and a portion of Lake Street. Specific operations were identified as including wholesale fish, H.J. Heise Co., Union Hotel, wholesale grocer, and a wagon shed.

Surrounding Properties: The surrounding area appears to be developed with various commercial buildings, industrial operations, and storefronts. Operations of potential environmental concern included wire works, junk yard, medicine manufacturing, boot and shoe manufacturing, copper and sheet iron works, printing facility, refrigerator/birdhouse/bicycle manufacturing, soap works, flavoring extracts manufacturing, small oil manufacturing facility, a railroad station, machine company, and a sheet metal works facility.

2.2 Previous Investigations

Environmental Soil Data Report for the Former Buffalo Memorial Auditorium Site, Prepared by Empire GeoServices, November 2009

Empire GeoServices, Inc. (Empire) completed an Environmental Soil Data Report for the Erie Canal Harbor Development Corporation in July and November 2009, at the request of C&S Companies.

Results of the investigation indicated polycyclic aromatic hydrocarbons (PAHs) and metals were detected exceeding NYSDEC Commissioner Policy 51 (CP-51) Soil Cleanup Levels (SCLs) at locations surrounding the Site.

<u>Supplemental Environmental Soil Data Report for Inner Harbor Development, Phase 3A – Canalside Public Canal Environments Project, Prepared by Empire GeoServices, August 2011</u>

Additional soil samples collected did not indicate contaminants in excess of NYSDEC CP-51 SCLs at the additional boring locations, completed to the north and west of the proposed development.

<u>Phase I Environmental Site Assessment for South Aud Block Southeast Portion of 130 Main Street, A Portion of Tax Section No. 111-.17, Block No. 14, Lot No. 1, Buffalo, New York prepared by LiRo Engineers, Inc. (LiRo), July 2017</u>

The Phase I ESA included limited soil sampling. Recognized Environmental Concerns (RECs) identified by the Phase I ESA (as they relate to the subject Site) included:

- PAHs were detected at concentrations exceeding 6NYCRR Part 375 Restricted Residential Use Soil Cleanup Objectives (RRSCOs), Commercial Use Soil Cleanup Objectives (CSCOs), and Industrial Use Soil Cleanup Objectives (ISCOs).
- Lead and mercury were detected at concentrations exceeding RRSCOs.
- The exceedances of PAHs and metals indicated the presence of contaminated fill.
- Historical records indicated that the land use prior to the Memorial Auditorium included multiple commercial and industrial manufacturing uses.
- Multiple NYSDEC Spills were recorded for the Memorial Auditorium site (0902966, 1201860, 1407916, 1407917, and 1410926). Based on the findings of the Phase I ESA, LiRo recommended a Phase II Investigation and the preparation of a soil management plan prior to any development.

<u>Phase II Environmental Site Assessment for South Aud Block Southeast Portion of 130 Main Street, A Portion of Tax Section No. 111-.17, Block No. 14, Lot No. 1, Buffalo, New York prepared by LiRo Engineers, Inc., May 2018</u>

To investigate the RECs identified in the Phase I ESA, a Phase II ESA was conducted at the Site. AECC reviewed the Phase II ESA, and the following is a general summary of the investigation results:

- *"Elevated PAHs exceeding RRSCOs, CSCOs, and/or ISCOs were detected in five (5) of the six (6) shallow soil/fill samples on-Site."*
- *"Numerous metals, including arsenic, barium, copper, lead, and mercury, were detected above their respective RRSCOs, CSCOs, and/or ISCOs. Mercury was detected at 66.7 ppm, and lead was detected at 5,600 ppm exceeding their respective ISCOs in shallow (1.9-3') sample depth."*

<u>Geotechnical Evaluation Report for Proposed Heritage Point Building Development Project, Canalside, Buffalo, New York prepared by WMA Engineering / Empire Geotechnical Engineering Services, May 2019</u>

Empire Geotechnical Engineering Services (through their former company, Empire Geo-Services, Inc.) along with SJB Services, Inc. were previously retained by Erie Canal Harbor Development Corporation (ECHDC) as the Geotechnical Engineering Consultant for the Canalside (Former Buffalo Memorial Auditorium Site) development and design projects, which have been previously completed. This included the original proposed Canalside Development project in 2009, for re-development of the entire former Memorial Auditorium Site, along with the Public Canals development and design project in 2011, and the East Canal development and design project in 2012. The 2019 report presents applicable boring logs from the 2009 geotechnical investigation, along with the recently completed 2019 boring logs and laboratory test data for the subject project. The following are excerpts from the 2019 report:

- *The basement level / lower bowl floor of the former Auditorium was reportedly at about elevation (El.) 580.2 feet and has been removed. A sub-basement area of the former Auditorium building is present within the southwest portion of the site. The sub-basement extends approximately 15 feet below the former basement level floor, to approximately El. 565.0 feet. A portion of the sub-basement walls and its floor system were left in-place beneath the Explore and More Building and is understood to be incorporated as a mechanical equipment structure for the Public Canals system. In addition, portions of the Auditorium perimeter foundation walls also remain in place at various locations around the Auditorium site.*
- *Based on the applicable 2009 test borings, and the recently completed 2019 test borings, the general subsurface stratigraphy in the area of the proposed Heritage Point Building Development Project included miscellaneous fill soils at the surface which typically extended down to elevations ranging between 562.4 feet and 576.5 feet, with the deeper fills appearing to occur within the apparent limits of the former historic canals, which once occupied the site prior to the Auditorium construction. Beneath the fill, the indigenous soils consisted predominately of silty clay, clayey silt, silty / clayey sand, and cleaner fine sand and fine to coarse sand deposits. In addition, within 2009 test boring B-8 and 2019 test borings B-1, B-2, B-5, B-7, B-8 and B-9, an approximate 5 feet thick ± interbedded layer of peat soil was also encountered, typically between depths of about 19 and 29 feet ± at the test boring locations. Limestone bedrock was encountered at an approximate elevation ranging from about El. 539.8 feet to El. 543.4 feet.*
- *The nature of the fill generally varies with location and depth. The fill typically consists of gravel and sand, and silty clay / clayey silt soils with varying amounts of intermixed brick, concrete fragments, cinders, slag, organics, and wood. Some zones of fill consisting predominately of concrete and bricks, were also encountered within several of the test borings.*

- *The variable nature of the fill soils, coupled with the variable SPT "N" values, are an indication the fill includes both uncontrolled fill materials (i.e. varying soil types, with inclusions of manmade constituents such as brick, concrete, wood, cinders, slag, etc.), as well as engineered type fill materials (i.e. cleaner gravel and sands, etc.), which have been placed in both compacted and uncompacted states. Some portions of the fill have been placed and graded in varying stages in conjunction with the Auditorium demolition and the development and construction of the current site features and site grading. Other portions of the existing fill pre-existed the Auditorium construction.*
- *When drilling within the sand soils, "running sands" (i.e. flow of sands into the augers after removing the center plug) were often encountered, generally beneath elevation 560 feet.*
- *The bedrock core recovered consisted of gray, hard to very hard, weathered to sound, thinly bedded to thickly bedded Limestone bedrock, containing occasional mechanical and natural fractures. Occasional chert nodules were also noted within the bedrock.*
- *The generalized groundwater conditions in this area of Downtown Buffalo are known to be influenced by the water levels in the nearby Buffalo River and Erie Lake, and may fluctuate accordingly. The water level at the NOAA Buffalo Gauging Station, located at the Buffalo River / Lake Erie confluence was at about El. 574.6 feet (IGLD 85) at the same time on May 28, 2019. Lake Erie is also prone to a seiche effect from a strong sustained wind events out of the southwest. During these events the water levels in the northeastern end of the lake can rise several feet from mean normal water levels. Accordingly, these fluctuations can also occur in the groundwater levels along the adjacent shorelines.*
- *It is also possible that some localized zones of perched or trapped groundwater could be encountered in the upper more permeable fill soils, which overlie less permeable soils. Perched groundwater conditions can be particularly more prevalent during and following heavy or extended periods of precipitation and during seasonally wet periods. It should be expected that perched and permanent groundwater conditions will vary with changes in soil conditions, precipitation and seasonal conditions and will be influenced by fluctuations in the level of the nearby Buffalo River and Lake Erie.*

2.3 Geology and Hydrogeology

2.3.1 Site Geology

The Site is comprised of HFM and native soils. The Site contains HFM to approximate depths ranging from 10 to 15 feet below ground surface (bgs), in most areas. HFM is defined as material coming from anthropogenic sources re-worked to build a site to a defined grade. The HFM material at the Site contains:

- Crushed Rock
- Sand

- Silt
- Clay
- Plastics
- Construction Debris
- Lumber
- Ash/Cinders
- Ceramics
- Bricks
- Metals

The HFM at this Site consisted of a mixture of sand, silt, clay and gravel with varying amounts of anthropogenic materials. Color of the fill material varied between light grey, brown, dark grey and black. Beneath the fill material, native material consists of water saturated loose olive to grey silt and/or silty clay.

2.3.2 Site Hydrogeology

Five groundwater monitoring wells were installed at the Site. Each well was constructed of five to ten-foot sections of two-inch diameter, 0.10-inch slotted screen, and approximately 10 feet of two-inch diameter threaded riser. The boring associated with monitoring well MW-2 encountered boring refusal at a depth of 16 feet bgs.

The locations of the groundwater monitoring wells are shown on **Figure 2**.

On April 1, 2021, AECC collected surface elevation measurements relative to a benchmark (top of the footbridge deck, north of Explore & More Museum).

Using this information and the depth to groundwater measurements collected on March 30-31, 2021 (prior to groundwater sampling), relative groundwater elevations were calculated, and AECC attempted to determine groundwater flow direction based on these relative groundwater elevations. However, no groundwater flow direction could be discerned (MW-5, in the middle of the Site, exhibited the highest groundwater elevation). The depth to groundwater and corresponding relative groundwater elevations are noted in the table below:

WELL ID	WATER LEVEL (FEET)	GROUNDWATER ELEVATION (FEET)
MW-1 (West)	12.51	84.71
MW-2 (North)	6.90	84.64
MW-3 (South)	10.91	83.95
MW-4 (East)	8.73	85.26
MW-5 (Center)	7.82	87.57

MW-1 (West)	12.51	84.71

^ - All reported depths relative to top of well riser
*- Benchmark: Top of bridge deck = 100’

Previous investigations have indicated that groundwater on the site generally ebbs and flows depending on conditions associated with Lake Erie and the Buffalo River, and generally flows northeast to southwest.

Groundwater at and in the vicinity of the Site is not used for public drinking water supply. The City of Buffalo Water Board Regulations (21 NYCRR § 10085.3) states that every dwelling, house, or other building requiring the use of water must be supplied from the water mains of the water board.

2.4 Summary of Remedial Investigation Findings

The RI was conducted by AECC in March 2021, and the following is a summary of the findings from the March 2022 RI report:

2.4.1 Surface Soils

- Surface soils generally appear to be imported fill that was placed on top of the original soils and debris present after the demolition of the Buffalo Memorial Auditorium.
- Three surface soil samples were collected. Surface soils did not exhibit nuisance characteristics (staining, odors) or PID instrument response. Laboratory analysis revealed:
    - Neither herbicides nor PCBs were detected in the surface soil samples.
    - Neither PFAS, metals, nor SVOCs were detected at concentrations exceeding the Restricted Residential Use SCOs in the surface soil samples.
    - DDT was detected at a concentration of 3.8 ppb in the SS-D sample, which exceeds its Unrestricted Use SCO (3.3 ppb), but is three orders of magnitude less than its respective Restricted Residential Use SCO (7,900 ppb).

2.4.2 Subsurface Soils

- The subsurface soil conditions were typified by the presence of mostly grey/brown, light brown, and brownish-gray silty and sandy material of varying grain size / thickness, including block, brick, ash, and concrete debris (HFM). Most of the site footprint is characterized by the presence of three-feet of structural fill which is placed on a barrier fabric, below that barrier fabric is HFM to depth ranging from seven-feet to approximately 12+ feet below ground surface. Beneath the HFM is silty sand and clay with some peaty remnants (lacustrine material). Wet soils were encountered approximately 8-10 feet below ground surface.

Shallow Subsurface Soils (< 6-feet bgs)

- Thirteen shallow subsurface soil samples were collected from locations throughout the Site.
- Neither staining, petroleum/chemical odors, nor sheens were observed in shallow subsurface soils. PID readings were generally <1 ppm (most often non-detect), except for slightly elevated readings from the four to eight-feet bgs interval at MW-1 (6.5 and 1.8 ppm).
- Neither herbicides, pesticides, nor PCBs were detected in shallow subsurface soils.
- No PFAS compounds were detected at concentrations that exceed their respective guidance values established in the January 2020 "Guidelines for Sampling and Analysis of PFAS Under NYSDEC's Part 375 Programs".
- A limited number of specific VOCs (benzene, isopropylbenzene, and xylenes in boring MW-1; carbon disulfide in test pit TP-15) were detected in shallow subsurface soils at concentrations that exceed Unrestricted Use SCOs but are below Restricted Residential Use RSCOs.
- Several SVOCs and metals were detected in shallow subsurface soils across the Site at concentrations that exceed Unrestricted Use SCOs. PAHs and specific metals (primarily arsenic, barium, copper, lead, and mercury) were detected at concentrations that exceed Restricted Residential Use SCOs. Soils from test pit TP-16 (4.5-5-feet bgs) exhibited PAH concentrations 2-3 orders of magnitude greater than other soils collected and analyzed from the Site.

Deep Subsurface Soils (>6-feet bgs)

- Nine deep subsurface soil samples were collected from locations throughout the Site.
- Staining, petroleum odor and sheens were observed in test pit TP-4 at 10-12-feet bgs. PID screening exhibited readings of 6.6-9.7 ppm in this interval. Test pit TP-5 exhibited PID screening levels of 4.5-9.6 ppm in the 10-12-feet bgs interval with no obvious staining or odor. Otherwise, neither staining, petroleum/chemical odors, nor sheens were observed in deep subsurface soils; and PID readings were generally <1 ppm (most often non-detect).
- Neither herbicides nor PCBs were detected in deep subsurface soils.
- DDT was detected at a concentration of 18 ppb in the soil collected from six to seven-feet bgs in test pit TP-6, which exceeds its Unrestricted Use SCO (3.3 ppb), but is two orders of magnitude less than its respective Restricted Residential Use SCO (7,900 ppb).
- No PFAS compounds were detected at concentrations that exceed their respective guidance values established in the January 2020 "Guidelines for Sampling and Analysis of PFAS Under NYSDEC's Part 375 Programs".
- A limited number of specific VOCs (acetone, ethylbenzene, and xylenes) were detected in the deep subsurface samples collected at boring locations MW-1 and

MW-5 at concentrations that exceed Unrestricted Use SCOs but are below Restricted Residential Use SCOs.

- Several SVOCs and metals were detected in deep subsurface soils across the Site at concentrations that exceed Unrestricted Use SCOs. PAHs and specific metals (primarily arsenic, barium, copper, lead, and mercury) were detected at concentrations that exceed Restricted Residential Use SCOs.

2.4.3 Groundwater

- Five groundwater wells were installed at locations throughout the Site.
- Groundwater was generally present at approximately 7-13-feet bgs across the Site. No groundwater flow direction could be discerned (MW-5, in the middle of the Site, exhibited the highest groundwater elevation). Previous investigations have indicated that groundwater on the site generally ebbs and flows depending on conditions associated with Lake Erie and the Buffalo River, and generally flows northeast to southwest.
- No herbicides or PCBs were detected in groundwater collected from any of the five wells.
- Neither PFAS, SVOCs, nor pesticides were detected at concentrations exceeding their respective Groundwater Standard or Guidance Value.
- No VOCs were detected at concentrations exceeding their respective Groundwater Standard or Guidance Value, except for acetone (240 ug/L) in water collected from monitoring well MW-1.
- A limited number of metals (iron, sodium, magnesium, aluminum, and manganese) were detected at concentrations that exceed their respective Groundwater Standard or Guidance Value.

2.4.4 Soil Vapor

- No soil vapor sampling was completed as part of this RI based on lack of VOC contamination identified during previous sampling events. Based on the results of this RI, there were three soil samples that exhibited concentrations of a limited number of VOCs (benzene, acetone, ethylbenzene, and total xylenes) in excess of the Unrestricted Use SCO (but well below the Restricted Residential Use SCO), and one VOC (acetone) that exceeded applicable TOGS groundwater standards.
- Therefore, based on the limited exceedances of VOCs in soil and groundwater, and the scope of the proposed development (which will result in the excavation of all soils to a minimum of 15-feet bgs), additional soil vapor investigation is not warranted at this time.

Selected RI data used for developing the IRM investigation are presented in **Figures 2A, 2B and 2C**, and **Tables A, B and C**.

3 INTERIM REMEDIAL MEASURE

3.1 IRM Investigation

In November 2021, C&S requested permission to collect perimeter and confirmatory samples prior to mass excavation. The perimeter and confirmatory soil investigation consisted of the following:

- A direct-push soil boring study was implemented at the Site. Each soil boring was advanced into the native material, at least 20 feet bgs. To ensure complete coverage, a 30-foot by 30-foot grid was established across the Site;
- Perimeter Samples: A total of 18 boring locations from the perimeter of the Site was drilled at a spacing of every 30 linear feet. One HFM sample was collect from each perimeter boring locations.
- Confirmatory Samples: A total of 28 boring locations from the grids across the Site was drilled at a spacing of every 900 square feet. Two native samples were collect from each boring location.
- HFM (perimeter) and native soil (confirmatory) samples were analyzed for the following:
    - Target Compound List (TCL) VOCs
    - TCL SVOCs
    - TCL pesticides
    - Herbicides
    - Total PCBs
    - Target Analyte List (TAL) metals
    - Total mercury
    - Per- and Polyfluoroalkl Substances (PFAS)
    - 1,4-dioxane
- QA/QC samples consist of one field duplicate and one MS/MSD for the perimeter samples and one field duplicate and one MS/MSD for the grid samples.

Figures 3 and 4 shows the locations of the samples on the BCP Site. Soil boring logs are provided in **Appendix A**.

3.2 Analytical Results

3.2.1 Perimeter Results

A total of 18 subsurface sidewall soil samples were collected from fill material within soil borings for analysis. **Figure 3** and **Table 1** present subsurface soil analytical results and compare the results to Part 375 SCOs. Samples were labeled as follows:

Sample ID	
P-"Grid ID"	Fill Sample

Sidewall sample results indicate that the offsite perimeter fill material contains concentrations of SVOCs, pesticides, and metals above multiple SCOs.

3.2.2 Confirmatory Soil Results

During the investigation, 56 native soil samples (two samples per 28 grids) were collected in grid locations as the final confirmatory samples. The top interval, collected in native soil, was determined based on the anticipated bottom excavation for the redevelopment. In addition, one additional sample was collected at each location one foot below the first native soil sample. These deeper samples were submitted to the laboratory but held until the uppermost native soil sample was analyzed. If any analytes exceeded the respective SCOs, the next deeper sample was analyzed for only those compounds that exceed the SCO. The intent of this sampling scheme was to identify the depth of remedial action and use the sampling results as the confirmatory sample results for the IRMs. Samples were labeled as follows:

Sample ID	
"Grid ID"-"depth"	1st Native Sample
"Grid ID"-"depth"	2nd Native Sample
"Grid ID"-"date"	Confirmatory Sample During Remediation

Results show slight VOC and metal contamination in the first native sample in select locations. Out of the 28 grid locations, 19 grids required the analysis of the 2nd native soil sample. Results indicate that VOC and metals decrease with depth.

As shown on **Figure 5**, eight grid locations still contained concentrations of acetone, nickel or zinc above Unrestricted Use SCOs. These concentrations were generally detected from 14-feet to 18.5-feet bgs. During the excavation, samples were collected from the bottom of the grid with remaining concentrations above Unrestricted Use SCOs. All sample results from the re-analyzed grid locations were below Unrestricted Use SCOs.

Figure 4 and **Table 2** present subsurface soil results. Based on the soil boring and analytical data discussed above, **Figure 5** presents the target depths for each grid to achieve a Track 1 Level Cleanup.

3.3 Data Usability Summary Report

Per the RIWP, the validity of the data generated during RI activities must be evaluated by a qualified data usability reviewer responsible for determining the usability and acceptability of the analytical data, in accordance with NYSDEC-DUSR Guidance.

A third-party data consultant, Environmental Data Usability, prepared the DUSR as required in the RI Work Plan. The DUSR is included as **Appendix B**. The following items were reviewed:

- Laboratory Narrative Discussion
- Custody Documentation
- Holding Times
- Surrogate Standard Recoveries
- Matrix Spike Recoveries. Duplicate Recoveries
- Blind Field Duplicate Correlations
- Preparation/calibration Blanks
- Laboratory Control Samples (LCSs)
- Calibration/Low Level Standards
- ICP Serial Dilution
- Instrument MDLs
- Sample Result Verification

3.4 Description of IRM

The RI/IRM Work Plan was approved on June 4, 2020. The planned IRM included:

- Installation of sheet pile/shoring
- Excavation and offsite disposal of mercury and lead impacted soil/fill in the vicinity of LB-04 and LB-05
- Excavation and offsite disposal of impacted soil/fill
- Collection of post-excavation confirmatory samples
- Backfilling excavation

Updated IRM tasks include the following:

- Installation of an earth retention system (lag and pile) along the Site perimeter to allow for the removal of all contaminated material.
- Total site-wide removal of all fill material and any impacted native soils for off-site disposal at a regulated facility.

- The use of the results of the native samples collected during this investigation as confirmation sampling during the IRM.
- For grids that showed marginal concentrations of nickel, acetone and zinc above Unrestricted Use in the lowest sample, the entire grid will be scraped, removing one to three inches of material below the sample depth, and resampled for the specific contaminants that exceeded Unrestricted Use SCOs.

3.4.1 Dewatering System

In order to control groundwater during the remediation, Keller North America developed and implemented a dewatering work plan. A total of ten dewatering wells were installed in April 2022. Eight of the dewatering wells were installed along the perimeter of the shoring. The perimeter wells were located either inline or just outside the planned lagging wall. Two of the dewatering wells were installed in the excavation footprint. **Figure 2** show the dewatering system.

A perimeter discharge pipe was installed on grade just outside the lagging wall and was routed to the final discharge point which is a sewer located adjacent to the NFTA Metro Rail.

The dewatering wells were installed using duplex drilling methods. An approximate 12-inch diameter drill casing was drilled to a target depth of 50 feet or to practical drill refusal such as the top of bedrock, whichever is encountered first. After reaching the target drill depth, a 6-inch diameter well assembly was set in the borehole. The bottom 30 feet of the well consists of SCH40 PVC well screen. The well screen has 0.030-inch slots and a SCH40 PVC cap was installed on the bottom of the screen. The remainder of the well assembly is SCH40 PVC well casing. The well casing extended approximately one foot above ground surface.

A filter pack was poured into the annular space between the well screen and drill casing. The filter pack is #1S filter sand manufactured by Holliston Sand. The uniform gradation of the filter permits it to be placed without a tremie. Filter material was added until the top of the filter pack is at least two feet above the top of the well screen. A three-foot annular seal consisting of bentonite chips was placed above the filter pack within the clay layer. The chips were placed by pouring them into the annular space. The remainder of the borehole was filled with clean fill or filter pack. Wells were developed by surging with compressed air.

Following development, a Grundfos model 150S50-2 submersible pump was installed in each dewatering well. A 5-horsepower Franklin Electrical submersible motor was used to power the pump. The motor was wired for 460 volt 3-phase power. The pump column was suspended approximately six inches above the bottom of the well by a stainless-steel cable secured to the top of the well casing. A 14-4 SOOW electrical cable was used to connect the pump to a pump control panel mounted next to each well. The discharge from the pump consists of a three-inch diameter SCH40 PVC solvent welded pipe. A well head made up of a throttling valve, sampling port, bypass port and check valve were constructed for each well.

The discharge manifold consists of 3 inch and 6-inch diameter SCH40 PVC piping and fittings which was connected with solvent welds.

Mark Cerrone, Inc. (“MCI” or “Remedial Contractor”) operates and monitors the dewatering system. The system is designed to operate continuously on 24-hour seven day per week basis. Each well head is equipped with a ball valve to control of the well’s pumping rate.

After the concrete for the second floor of the building is set, the dewatering system will be decommissioned. Commissioner Policy 43 (CP-43): Groundwater Monitoring Well Decommissioning Policy will be implemented when the dewatering system needs to be taken offline.

3.4.2 Excavation

The intended cleanup goal for this Site is Track 1 Level Cleanup (Unrestricted Use), as such, the site-wide excavation and removal to the depths presented in **Figure 5** will not only remediate soil contamination but will also remove marginal onsite groundwater contamination and eliminate the source of off-site concerns.

The IRM excavation of all material exceeding applicable SCOs was implemented to prevent exposure to contaminated fill and soil material. Soil excavation began on February 24, 2022. Excavation depths were determined from native soil sampling completed during the IRM Investigation described in **Section 3.1**. Excavation followed a grid system on the Site. The Site was divided into twenty-eight, 30 by 30-foot grids.

In addition to analytical results, in field observation served as the final approval method to ensure all impacted fill/soil media was removed. Excavation efforts were monitored by C&S to ensure the predetermined excavation depths visually corresponded to clean material across each grid. A New York State licensed surveyor would provide C&S confirmation that final excavation depths were reached. Prior to backfilling, the surveyor recorded final excavation elevations. **Figure 6** presents a record drawing showing how the excavation advanced and when each grid was successfully excavated and approved for backfill.

Excavated fill was direct-loaded onto trucks for off-site disposal. Good housekeeping practices were followed during excavation activities to prevent leaving contaminated material on the ground surface and from being tracked onto the road during transportation. Transportation of all wastes was completed by properly permitted vehicles. To the extent practicable, trucks traveled along routes that avoided residential areas.

Contaminated soil and HFM were loaded onto dump trucks and transported to a Subtitle D disposal facility. The material included:

- A total of 12,688.50 tons of contaminated soil and HFM was disposed at Waste Management Landfill in Chaffee, New York.
- A total of 11,601.35 tons of contaminated soil and HFM was disposed at Modern Landfill in Model City, New York.

At the completion of the IRM described above, remediation at the Site to a Track 1 Level Cleanup was achieved. **Figure 7** presents the final excavation elevations from each grid. **Appendix C** provides the material export logs for each landfill.

3.4.3 Grid A1 Amendment

Selected demolition started in March 2022 with an existing off-site stairway for the Canalside pedestrian bridge. The edge of the stairway is concurrent with the northwest corner of the Site. During the demolition of the stairway, the structural foundation of the pedestrian bridge was exposed and observed to extend into the Site. The stairway and Canalside pedestrian bridge are off-site. Due to the structural foundation, the shoring system had to be placed into the Site and resulted in material to be left in-place.

Excavation under the foundation is not advised due to the potential of construction equipment damaging the foundation and due to the difficulty of properly compacting backfill underneath the foundation.

The shift in the shoring system was between two and four feet to the east. The area to remain unexcavated was approximately 76 square feet and down to eight feet below current grade. The approximate soil volume is 608 cubic feet.

On May 13, 2022 C&S collected two soil samples from test pits dug along the edge of the structural foundation. The material in this area is consistent with fill material observed on the perimeter of the Site and found off-site from ground surface to approximately 15 feet below ground surface. Laboratory results indicate the remaining fill material contains marginal concentrations of acetone and metals above Unrestricted and Restricted Residential Use SCOs.

Due to the small amount of material and low-level concentrations of contaminants, C&S recommended the fill material on the boundary of grid A1 be left in-place. In October 2022, a BCA amendment was submitted to reduce the size of the Site by 0.002-acres. The size of the BCP site is 0.49 acres.

3.4.4 Grid A5 and B5 Landfill Approval

On July 11, 2022 the Site was going to resume remediation after a four month pause due to dewatering system installation issues. On July 1, 2022, C&S replied to an email from MCI asking for information about waste characterization samples. C&S was informed that MCI was seeking approval from Waste Management to dispose of fill material at their Chaffee, NY landfill. The Waste Management facility would be used as a secondary landfill. The primary landfill was Modern Landfill in Tonawanda, NY. Approval from Modern to dispose fill material was issued on January 14, 2022.

In a correspondence between MCI and Waste Management on July 5, 2022, C&S became aware that two waste characterization samples had concentrations of TCLP lead above

EPA thresholds (5 mg/l). A total of 20 waste characterization samples were collected in March 2021 by AECC. When C&S took control of the project in June 2021, AECC's RI Report did not discuss the results of the waste characterization sampling and C&S was not provided and additional reports referenced in the RI Report.

In January 2022, C&S submitted the waste characterization lab data to Modern for review and approval. During the landfill approval process the two samples with high lead concentrations were not identified as an issue. Modern provided written approval to dispose the fill material as non-hazardous.

The IRM excavation moved forward in February 2022 and approximately 7,000 tons of fill material was sent to Modern landfill. The first phase of remediation cut the entire Site to 580-feet; this was dome to allow for shoring installation and crane movement.

On July 5, 2022, C&S provided Waste Management with maps that showed the location of the two AECC samples that had high lead concentrations. The samples came from AECC's RI test pits, TP-06 and TP-16, waste characterization sample IDs from these test pits were W-6 and W-9, respectively. Sample W-6 had TCLP lead at 5.1 mg/l and Sample W-9 at 9.1 mg/l. Based on C&S's 30-foot by 30-foot excavation grid the AECC test pits were in Grids A5 and B5.

After review of the sample depth and existing Site elevations, it was determined that material from these grids had not been removed because their starting elevations were already at 580-feet.

Waste Management accepted C&S's proposal to conduct additional TCLP lead sampling in these grids. Discrete fill material samples were collected in one intervals in each grid. Samples were analyzed for TCLP Lead only. The results of this sampling would determine if all or some of the fill material in these two grids could be disposed as non-hazardous waste. A total of 12 samples were analyzed on July 14, 2022.

Sample results came back all non-detect for TCLP lead. Lab reports were submitted to Waste Management on July 18, 2022. The Waste Management profile was amended to accept Grids A5 and B5 material as non-hazardous on July 19, 2022.

3.4.5 Imported Backfill

After the Site was cut to a flat grade in February and March 2022, 2" crushed recycled concrete and brick was imported to the Site to be used as a base for the crane to drive on during the installation of the earth retention system. A total of 932.49 tons of crushed concrete was imported. Once the mass excavation was initiated the crushed concrete material was removed and reused as backfill behind the shoring walls and outside the BCP boundary.

For the imported stone backfill, documentation was provided to the NYSDEC as to the source of the material and the consistency of the material in accordance with the exemption for no chemical testing listed in DER-10 Section 5.4(e)(5). The material type was 2" crushed limestone from a quarry located in Lockport, New York. This material was produced from a virgin stone source. A total of 3,191.92 tons was used backfill the Site to the designed sub-grade elevations.

Appendix C provides the Import Request forms and documentation of approval for the backfilled imported to the Site and the import logs for incoming stone material.

A full description of onsite activities with supporting documentation will be provided in the forthcoming Final Engineering Report.

4 ALTERNATIVES ANALYSIS

4.1 Objectives

The objectives of this portion of the document, the Alternatives Analysis Report (AAR), are to evaluate remedial alternatives to address the contamination presented above and select remedial actions to be implemented. As defined in NYSDEC DER-10 (Section 4.0), remedial alternatives will be evaluated based on the following criteria:

a. Overall Protection of Public Health and the Environment: This criterion evaluates exposure and residual risks to human health and the environment during or subsequent to implementation of the alternative.

b. Compliance with SCGs: This criterion evaluates whether the remedial alternative will ultimately result in compliance with SCGs, to the extent practicable.

c. Long-Term Effectiveness and Permanence: This criterion evaluates if the remedy is effective in the long-term after implementation (e.g., potential rebound). In the event that residual impacts will remain as part of the alternative, then the risks and adequacy/reliability of the controls are also evaluated.

d. Reduction of Toxicity, Mobility, or Volume with Treatment: This criterion evaluates the reduction of contaminant toxicity, mobility or volume as a result of the remedial alternative. In addition, the reversibility of the contaminant destruction or treatment is evaluated.

e. Short-Term Effectives: This criterion evaluates if the remedial alternative protects the community, workers and the environment during implementation.

f. Implementability: This criterion evaluates the remedial alternative based on its suitability, implementability at the specific site, and availability of services and materials that will be required.

g. Community Acceptance: This criterion takes into account concerns of the community regarding the proposed remedy. Any public comments and overall public perception are addressed as part of the criterion.

h. Land Use: This criterion evaluates the proposed remedial approach against the current, intended, and reasonably anticipated future use of the land and its surroundings.

4.2 Applicable Standards, Criteria, Guidance

The remedial alternatives were developed in consideration of the following Standards, Criteria, and Guidance (SCG):

4.2.1 Soil

- New York Codes, Rules, and regulations, Title 6 (6 NYCRR), Chapter IV, Subpart 375-6: *Remedial Program Soil Cleanup Objectives*, and *DEC CP-51 Soil Cleanup Guidance*, issued October 21, 2010.

4.2.2 Groundwater

- NYSDEC Technical and Operational Guidance Series (TOGS), *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*, June 1998.
- 6 NYCRR Part 703, *Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations*.

4.2.3 Soil Vapor

- NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, with updates.

4.2.4 Waste Characterization Analysis

- NYSDEC 6 NYCRR Part 371, *Identification and Listing of Hazardous Wastes*.

4.2.5 Alternatives Analysis Guidelines:

- NYSDEC DER-10, *Technical Guidance for Site Investigation and Remediation*, May 2010.
- NYSDEC DER-31, *Green Remediation*, January 20, 2011

4.3 Remedial Action Objectives

Remedial Action Objectives (RAOs) are medium-specific objectives for the protection of public health and the environment and are developed based on contaminant-specific standards, criteria, and guidance (SCGs) established by NYSDEC and/or New York State Department of Health (NYSDOH).

Soil RAOs

The RAOs for soil used in this AAR are:

- RAOs for Public Health Protection
  - Prevent ingestion/direct contact with contaminated soil;
  - Prevent inhalation of, or exposure to, contaminants volatilizing from contaminated soil;
  - Meet the NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives; and
  - Reduce the toxicity, mobility, and volume of contaminants at the Site.
- RAOs for Environmental Protection
  - Prevent migration of contaminants that would result in groundwater or surface water contamination; and
  - Prevent impacts to biota due to ingestion/direct contact with contaminated soil that would cause toxicity or bioaccumulation through the terrestrial food chain.

Groundwater RAOs

The RAOs for groundwater used in this AAR are:

- RAOs for Public Health Protection
  - Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards; and
  - Prevent contact with, or inhalation of, volatiles from contaminated groundwater.
- RAOs for Environmental Protection
  - Restore groundwater aquifer to pre-disposal / pre-release conditions, to the extent practicable;
  - Prevent the discharge of contaminants to surface water; and
  - Remove the source of ground or surface water contamination.

4.4 Development of Alternatives

This section identifies potential remedial alternatives being considered to address the Site. Per DER-10 4.2(a)(i), each alternative considered must be protective of human health and the environment and conform to officially promulgated SCGs. These two criteria are considered threshold criteria. The remedial alternatives evaluated are summarized below:

4.4.1 No Further Action

This remediation was completed under an IRM. All fill at the Site and any contaminated layers of native soils were excavated and disposed of at appropriately permitted off-site waste disposal facilities. The volume of removed fill/contaminated soil is 24,289.85 tons. Cut and fill depths associated with the planned Track 1 cleanup are shown in **Figure 5**. The final excavation depths are presented in **Figure 7.**

4.5 Detailed Evaluation of Alternatives

The following sections include an evaluation of the alternatives presented in the previous section.

4.5.1 <u>No Further Action</u>

Description

All of the fill and all layers of contaminated native soil was excavated and disposed of off-site in accordance with applicable regulations. The need for the removal of the entire volume of fill and varying depths of native soils on-site is based on the RI results, which indicate that the HFM and some upper layers of native soils contain contaminants at concentrations above the Unrestricted Use SCOs.

Assessment

<u>Overall Protection of Human Health and the Environment</u>

This alternative would be protective of human health and the environment. All fill with contaminant concentrations above RAOs on-site was removed and disposed of off-site.

<u>Compliance with Standards, Criteria and Guidance (SCGs)</u>

The alternative complies with the SCGs, as all on-site fill with contaminant concentrations above the SCOs was removed and disposed of off-site.

<u>Short-term Impacts and Effectiveness</u>

This alternative increases the short-term risks for the community and the workers implementing the alternative (i.e., through the disturbance of impacted fill), because the Site has undergone complete removal of contaminated material. However, these risks were minimized through the implementation of appropriate Health and Safety Plan (HASP), fill/soil handling procedures, air monitoring, and dust suppression techniques. Furthermore, this alternative will be effective in the long-term. Community Air Monitoring Plan (CAMP), provided in the HASP, was implemented during remedial activities for the protection of offsite receptors.

<u>Long-term Effectiveness and Permanence</u>

The no further action alternative will be a permanent remedy to address the contaminant concentrations in the fill and petroleum/lead contamination in the native soil throughout the Site. It will have a positive impact on groundwater concentrations for VOCs, SVOCs, and metals, especially in the long-term due to complete source removal.

<u>Reduction of Toxicity, Mobility and Volume</u>

This alternative resulted in the reduction of the toxicity, mobility, and volume of contaminants in the fill. All contaminated fill and native material was removed from the Site.

<u>Implementability</u>

This alternative was implementable using existing construction methods and equipment. The expected duration was less than one construction season. This alternative resulted in a Site suitable for redevelopment for any use.

<u>Community Acceptance</u>

Based on the findings of the studies performed to date, no further action was acceptable to the community.

<u>Land Use</u>

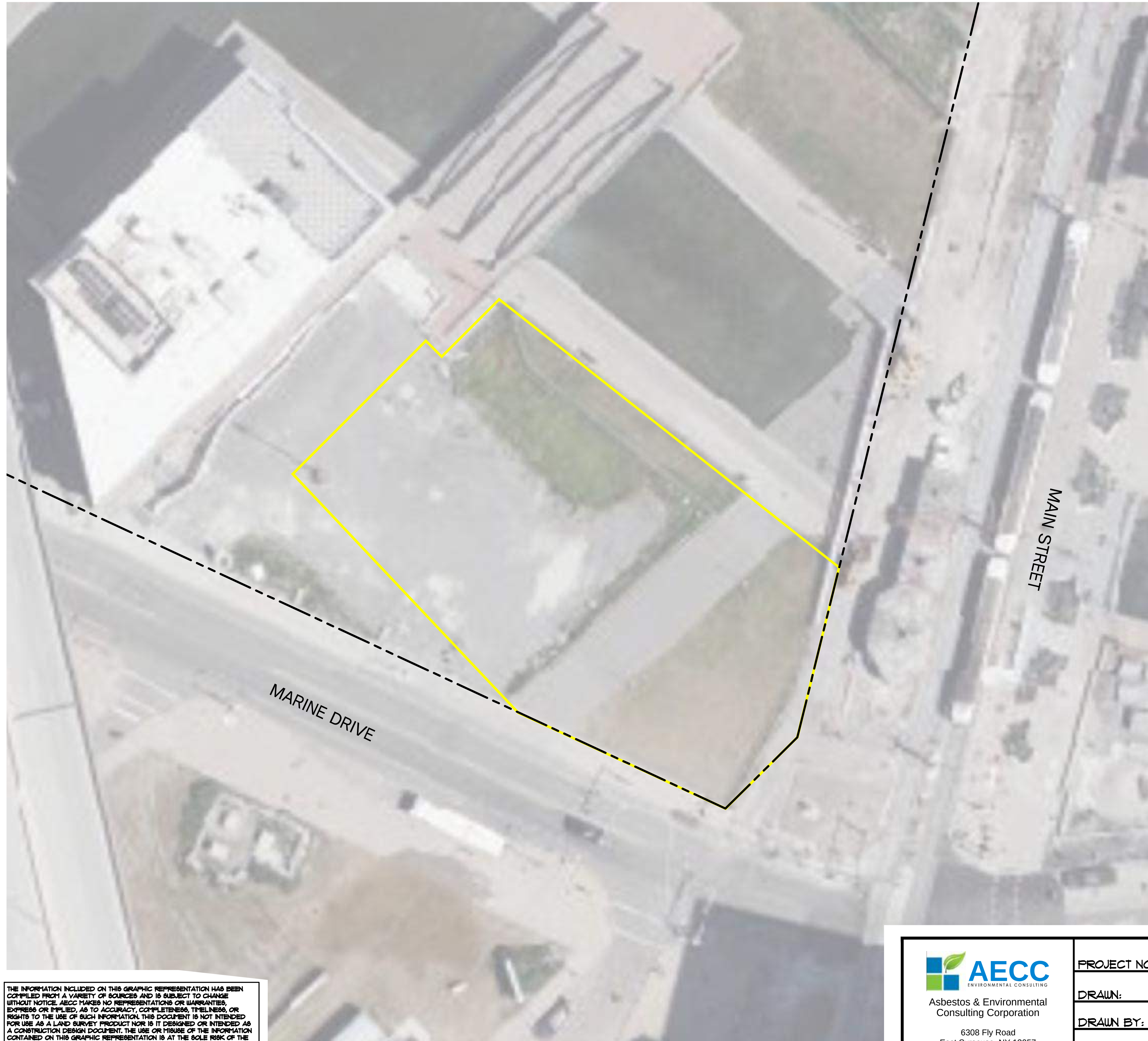
This alternative will allow for unrestricted use of the parcel as a mixed use commercial and residential building, which conforms to the City of Buffalo’s development plans for the area. This alternative leaves open the possibility for different uses of the Site in the future without the need for further remediation. Therefore, this alternative will allow for the highest and best use of the land.

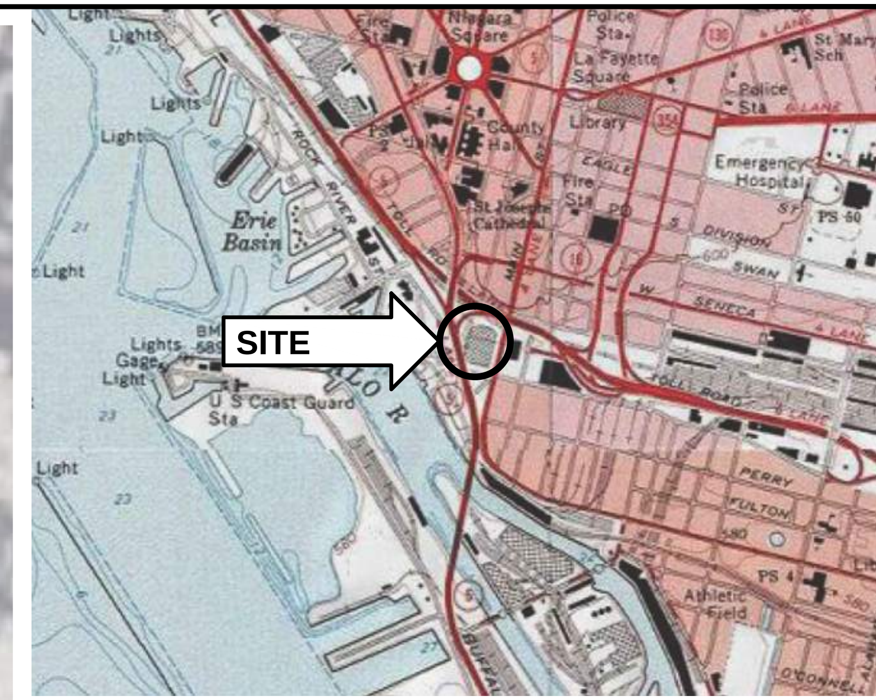
4.6 Recommended Remedial Alternative

Based on the alternative analysis evaluation and the IRM described in **Section 3** above, the recommended remedy for the Site is no further action. The IRM is fully protective of public health and the environment. This remedy is protective of human health and the environment, and was implemented in one construction season The IRM included the following:

- The excavation and off-site disposal of all fill and all layers of contaminated native soils. **Figure 7** depicts a Track 1 Cleanup Plan with the achieved excavation depths based on analytical results in each grid on the property;
- The placement of backfill consisting of clean fill and/or building materials (stone, concrete); and
- No environmental easements or continuing monitoring programs such as an SMP would be required.

FIGURES





SITE LOCATION

LEGEND:

APPROXIMATE PROPERTY LINE

BCP SITE BOUNDARY

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE.

0 37.5' 75'
GRAPHIC SCALE

AECC
ENVIRONMENTAL CONSULTING
Asbestos & Environmental Consulting Corporation
6308 Fly Road
East Syracuse, NY 13057

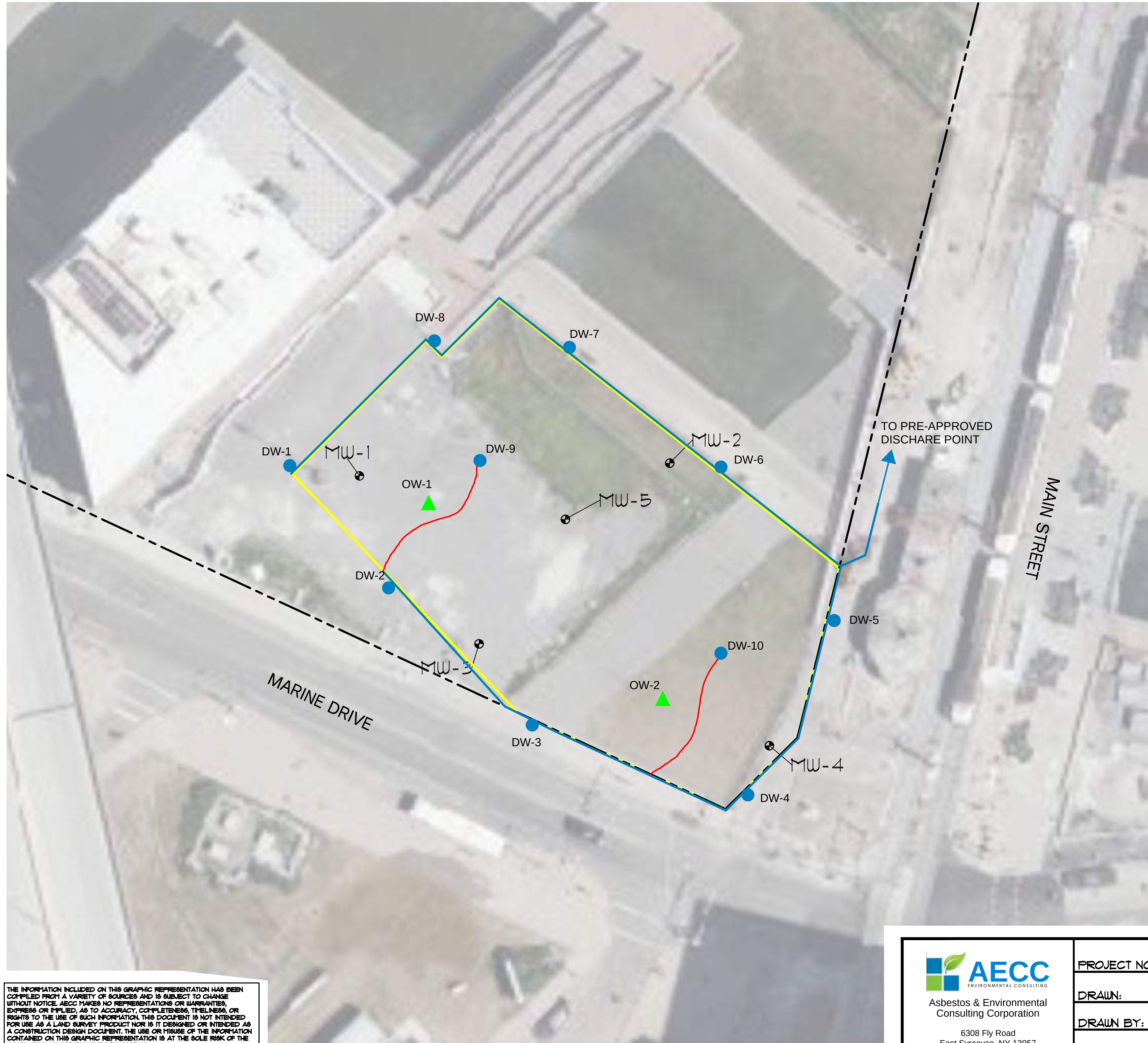
PROJECT NO.	20-237
DRAWN:	JULY 2021
DRAWN BY:	NP
CHECKED BY:	RM

SITE PLAN

Heritage Point
130 Main Street
Buffalo, New York 14202

FIGURE

1



LEGEND:

	APPROXIMATE PROPERTY LINE
	BCP SITE BOUNDARY
MW-#	MONITORING WELL LOCATION
SS-#	SURFACE SOIL SAMPLE LOCATION
TP-#	TEST PIT LOCATION

DEWATERING SYSTEM

	DEWATERING WELL
	OBSERVATION WELL
	DISCHARGE HOSE
	6" DISCHARGE PIPING

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE.

0 37.5' 75'
GRAPHIC SCALE

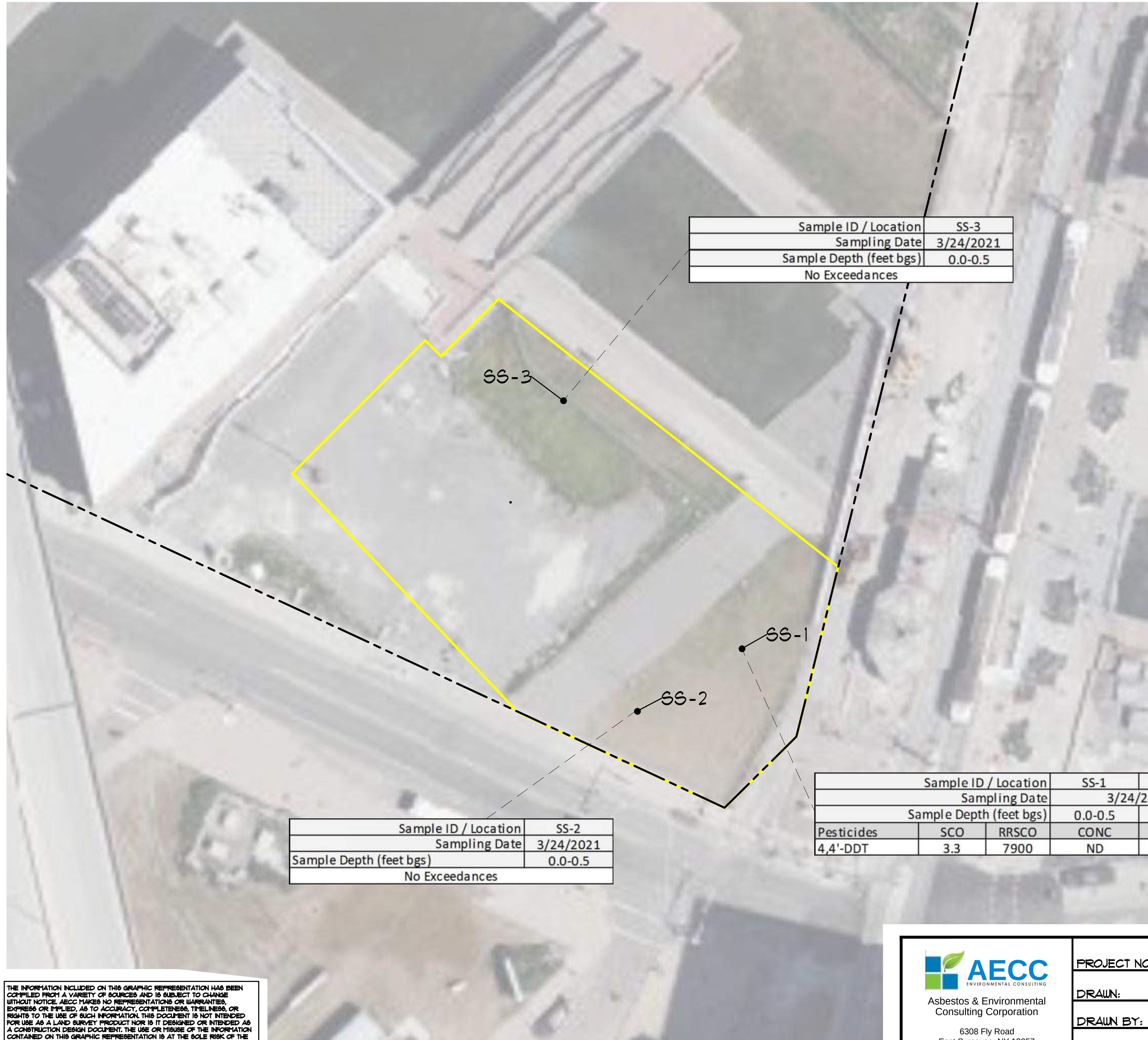
AECC
ENVIRONMENTAL CONSULTING
Asbestos & Environmental
Consulting Corporation
6308 Fly Road
East Syracuse, NY 13057

PROJECT NO.	20-237
DRAWN:	JULY 2021
DRAWN BY:	NP
CHECKED BY:	RM

Relative Groundwater
Elevation Plan

Heritage Point
130 Main Street
Buffalo, New York 14202

FIGURE
2



Sample ID / Location	SS-3
Sampling Date	3/24/2021
Sample Depth (feet bgs)	0.0-0.5
No Exceedances	

Sample ID / Location			SS-1	SS-D
Sampling Date			3/24/2021	
Sample Depth (feet bgs)			0.0-0.5	0.0-0.5
Pesticides	SCO	RRSCO	CONC	CONC
4,4'-DDT	3.3	7900	ND	3.8

Sample ID / Location	SS-2
Sampling Date	3/24/2021
Sample Depth (feet bgs)	0.0-0.5
No Exceedances	

LEGEND:

APPROXIMATE PROPERTY LINE

BCP SITE BOUNDARY

SS-# SURFACE SOIL SAMPLE LOCATION

TABLE NOTES:

SCO - NYSDEC UNRESTRICTED USE SOIL CLEANUP OBJECTIVE

RRSCO - NYSDEC RESTRICTED RESIDENTIAL USE SOIL CLEANUP OBJECTIVE

BOLD / ITALICS - CONCENTRATION EXCEEDS APPLICABLE RRSCO VALUE

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE.

0 37.5' 75'

GRAPHIC SCALE

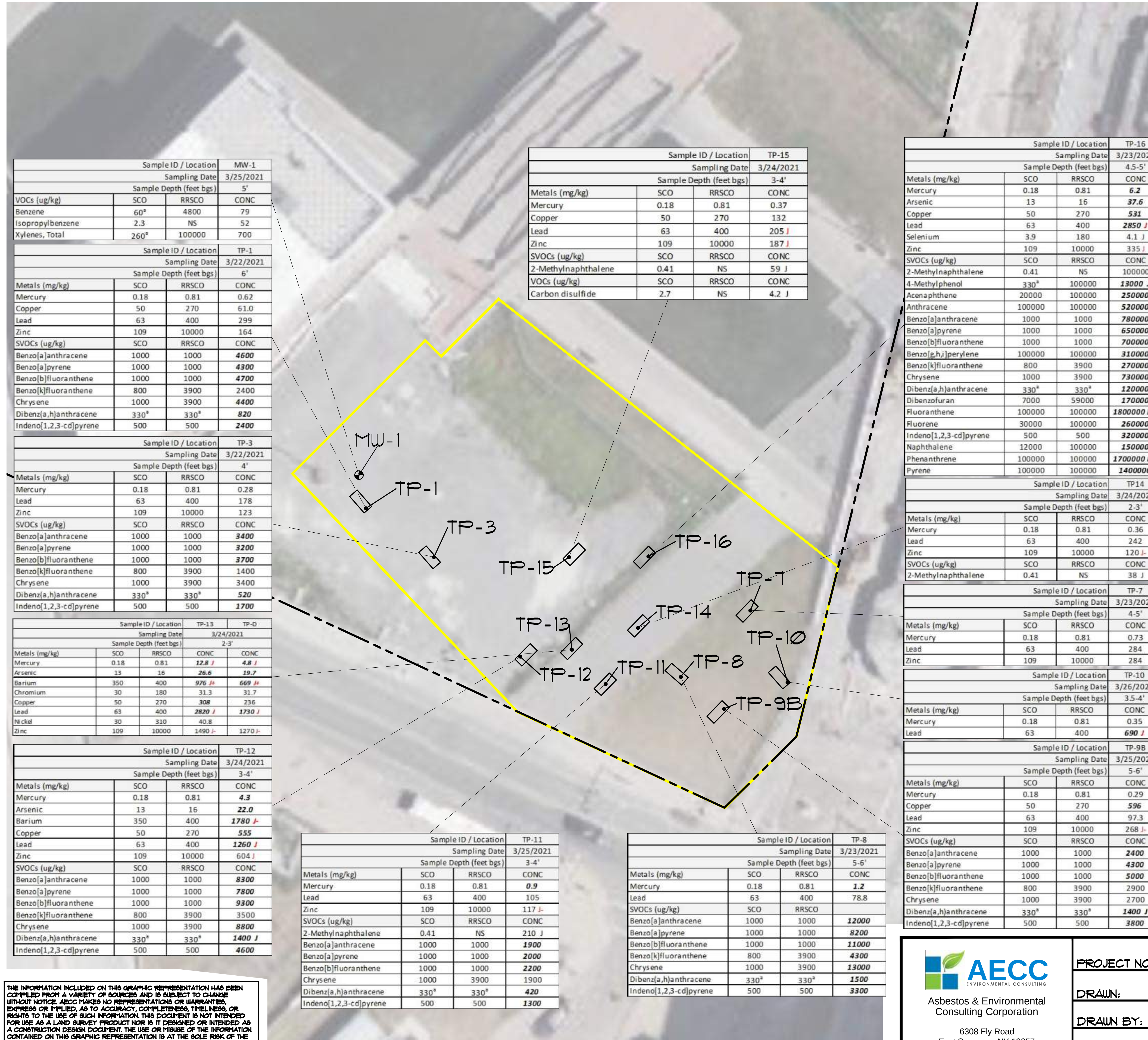
AECC ENVIRONMENTAL CONSULTING
Asbestos & Environmental Consulting Corporation
6308 Fly Road
East Syracuse, NY 13057

PROJECT NO. 20-237
DRAWN: JULY 2021
DRAWN BY: NP
CHECKED BY: HH

Summary of Analytical Exceedances
In Surface Soil

Heritage Point
130 Main Street
Buffalo, New York 14202

FIGURE 2A



Sample ID / Location			MW-1
Sampling Date			3/25/2021
Sample Depth (feet bgs)			5'
VOCs (ug/kg)	SCO	RRSCO	CONC
Benzene	60[a]	4800	79
Isopropylbenzene	2.3	NS	52
Xylenes, Total	260[a]	100000	700

Sample ID / Location			TP-1
Sampling Date			3/22/2021
Sample Depth (feet bgs)			6'
Metals (mg/kg)	SCO	RRSCO	CONC
Mercury	0.18	0.81	0.62
Copper	50	270	61.0
Lead	63	400	299
Zinc	109	10000	164
SVOCs (ug/kg)	SCO	RRSCO	CONC
Benzo[a]anthracene	1000	1000	***4600***
Benzo[a]pyrene	1000	1000	***4300***
Benzo[b]fluoranthene	1000	1000	***4700***
Benzo[k]fluoranthene	800	3900	2400
Chrysene	1000	3900	***4400***
Dibenz(a,h)anthracene	330[a]	330[a]	***820***
Indeno[1,2,3-cd]pyrene	500	500	***2400***

Sample ID / Location			TP-3
Sampling Date			3/22/2021
Sample Depth (feet bgs)			4'
Metals (mg/kg)	SCO	RRSCO	CONC
Mercury	0.18	0.81	0.28
Lead	63	400	178
Zinc	109	10000	123
SVOCs (ug/kg)	SCO	RRSCO	CONC
Benzo[a]anthracene	1000	1000	***3400***
Benzo[a]pyrene	1000	1000	***3200***
Benzo[b]fluoranthene	1000	1000	***3700***
Benzo[k]fluoranthene	800	3900	1400
Chrysene	1000	3900	3400
Dibenz(a,h)anthracene	330[a]	330[a]	***520***
Indeno[1,2,3-cd]pyrene	500	500	***1700***

Sample ID / Location			TP-13	TP-D
Sampling Date			3/24/2021	
Sample Depth (feet bgs)			2-3'	
Metals (mg/kg)	SCO	RRSCO	CONC	CONC
Mercury	0.18	0.81	***12.8 J***	***4.8 J***
Arsenic	13	16	***26.6***	***19.7***
Barium	350	400	***976 J+***	***669 J+***
Chromium	30	180	31.3	31.7
Copper	50	270	***308***	236
Lead	63	400	***2820 J***	***1730 J***
Nickel	30	310	40.8	
Zinc	109	10000	1490 J-	1270 J-

Sample ID / Location			TP-12
Sampling Date			3/24/2021
Sample Depth (feet bgs)			3-4'
Metals (mg/kg)	SCO	RRSCO	CONC
Mercury	0.18	0.81	***4.3***
Arsenic	13	16	***22.0***
Barium	350	400	***1780 J-***
Copper	50	270	***555***
Lead	63	400	***1260 J***
Zinc	109	10000	604 J
SVOCs (ug/kg)	SCO	RRSCO	CONC
Benzo[a]anthracene	1000	1000	***8300***
Benzo[a]pyrene	1000	1000	***7800***
Benzo[b]fluoranthene	1000	1000	***9300***
Benzo[k]fluoranthene	800	3900	3500
Chrysene	1000	3900	***8800***
Dibenz(a,h)anthracene	330[a]	330[a]	***1400 J***
Indeno[1,2,3-cd]pyrene	500	500	***4600***

Sample ID / Location			TP-15
Sampling Date			3/24/2021
Sample Depth (feet bgs)			3-4'
Metals (mg/kg)	SCO	RRSCO	CONC
Mercury	0.18	0.81	0.37
Copper	50	270	132
Lead	63	400	205 J
Zinc	109	10000	187 J
SVOCs (ug/kg)	SCO	RRSCO	CONC
2-Methylnaphthalene	0.41	NS	59 J
VOCs (ug/kg)	SCO	RRSCO	CONC
Carbon disulfide	2.7	NS	4.2 J

Sample ID / Location			TP-16
Sampling Date			3/23/2021
Sample Depth (feet bgs)			4.5-5'
Metals (mg/kg)	SCO	RRSCO	CONC
Mercury	0.18	0.81	***6.2***
Arsenic	13	16	***37.6***
Copper	50	270	***531***
Lead	63	400	***2850 J***
Selenium	3.9	180	4.1 J
Zinc	109	10000	335 J
SVOCs (ug/kg)	SCO	RRSCO	CONC
2-Methylnaphthalene	0.41	NS	100000
4-Methylphenol	330[a]	100000	***13000 J***
Acenaphthene	20000	100000	***250000***
Anthracene	100000	100000	***520000***
Benzo[a]anthracene	1000	1000	***780000***
Benzo[a]pyrene	1000	1000	***650000***
Benzo[b]fluoranthene	1000	1000	***700000***
Benzo[g,h,i]perylene	100000	100000	***310000***
Benzo[k]fluoranthene	800	3900	***270000***
Chrysene	1000	3900	***730000***
Dibenz(a,h)anthracene	330[a]	330[a]	***120000***
Dibenzofuran	7000	59000	***170000***
Fluoranthene	100000	100000	***1800000 E J***
Fluorene	30000	100000	***260000***
Indeno[1,2,3-cd]pyrene	500	500	***320000***
Naphthalene	12000	100000	***150000***
Phenanthrene	100000	100000	***1700000 E J***
Pyrene	100000	100000	***1400000***

Sample ID / Location			TP14
Sampling Date			3/24/2021
Sample Depth (feet bgs)			2-3'
Metals (mg/kg)	SCO	RRSCO	CONC
Mercury	0.18	0.81	0.36
Lead	63	400	242
Zinc	109	10000	120 J-
SVOCs (ug/kg)	SCO	RRSCO	CONC
2-Methylnaphthalene	0.41	NS	38 J

Sample ID / Location			TP-7
Sampling Date			3/23/2021
Sample Depth (feet bgs)			4-5'
Metals (mg/kg)	SCO	RRSCO	CONC
Mercury	0.18	0.81	0.73
Lead	63	400	284
Zinc	109	10000	284

Sample ID / Location			TP-10
Sampling Date			3/26/2021
Sample Depth (feet bgs)			3.5-4'
Metals (mg/kg)	SCO	RRSCO	CONC
Mercury	0.18	0.81	0.35
Lead	63	400	***690 J***

Sample ID / Location			TP-9B
Sampling Date			3/25/2021
Sample Depth (feet bgs)			5-6'
Metals (mg/kg)	SCO	RRSCO	CONC
Mercury	0.18	0.81	0.29
Copper	50	270	***596***
Lead	63	400	97.3
Zinc	109	10000	268 J-
SVOCs (ug/kg)	SCO	RRSCO	CONC
Benzo[a]anthracene	1000	1000	***2400***
Benzo[a]pyrene	1000	1000	***4300***
Benzo[b]fluoranthene	1000	1000	***5000***
Benzo[k]fluoranthene	800	3900	2900
Chrysene	1000	3900	2700
Dibenz(a,h)anthracene	330[a]	330[a]	***1400 J***
Indeno[1,2,3-cd]pyrene	500	500	***3800***

Sample ID / Location			TP-11
Sampling Date			3/25/2021
Sample Depth (feet bgs)			3-4'
Metals (mg/kg)	SCO	RRSCO	CONC
Mercury	0.18	0.81	***0.9***
Lead	63	400	105
Zinc	109	10000	117 J-
SVOCs (ug/kg)	SCO	RRSCO	CONC
2-Methylnaphthalene	0.41	NS	210 J
Benzo[a]anthracene	1000	1000	***1900***
Benzo[a]pyrene	1000	1000	***2000***
Benzo[b]fluoranthene	1000	1000	***2200***
Chrysene	1000	3900	1900
Dibenz(a,h)anthracene	330[a]	330[a]	***420***
Indeno[1,2,3-cd]pyrene	500	500	***1300***

Sample ID / Location			TP-8
Sampling Date			3/23/2021
Sample Depth (feet bgs)			5-6'
Metals (mg/kg)	SCO	RRSCO	CONC
Mercury	0.18	0.81	***1.2***
Lead	63	400	78.8
SVOCs (ug/kg)	SCO	RRSCO	
Benzo[a]anthracene	1000	1000	***12000***
Benzo[a]pyrene	1000	1000	***8200***
Benzo[b]fluoranthene	1000	1000	***11000***
Benzo[k]fluoranthene	800	3900	***4300***
Chrysene	1000	3900	***13000***
Dibenz(a,h)anthracene	330[a]	330[a]	***1500***
Indeno[1,2,3-cd]pyrene	500	500	***3300***

LEGEND:

- APPROXIMATE PROPERTY LINE
- BCP SITE BOUNDARY
- MW-# MONITORING WELL LOCATION
- SS-# SURFACE SOIL SAMPLE LOCATION
- TP-# TEST PIT LOCATION

TABLE NOTES:

SCO - NYSDEC UNRESTRICTED USE SOIL CLEANUP OBJECTIVE

RRSCO - NYSDEC RESTRICTED RESIDENTIAL USE SOIL CLEANUP OBJECTIVE

BOLD / ITALICS - CONCENTRATION EXCEEDS APPLICABLE RRSCO VALUE

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE.

0 37.5' 75'

GRAPHIC SCALE

AECC ENVIRONMENTAL CONSULTING

Asbestos & Environmental Consulting Corporation

6308 Fly Road
East Syracuse, NY 13057

PROJECT NO. 20-237

DRAWN: JULY 2021

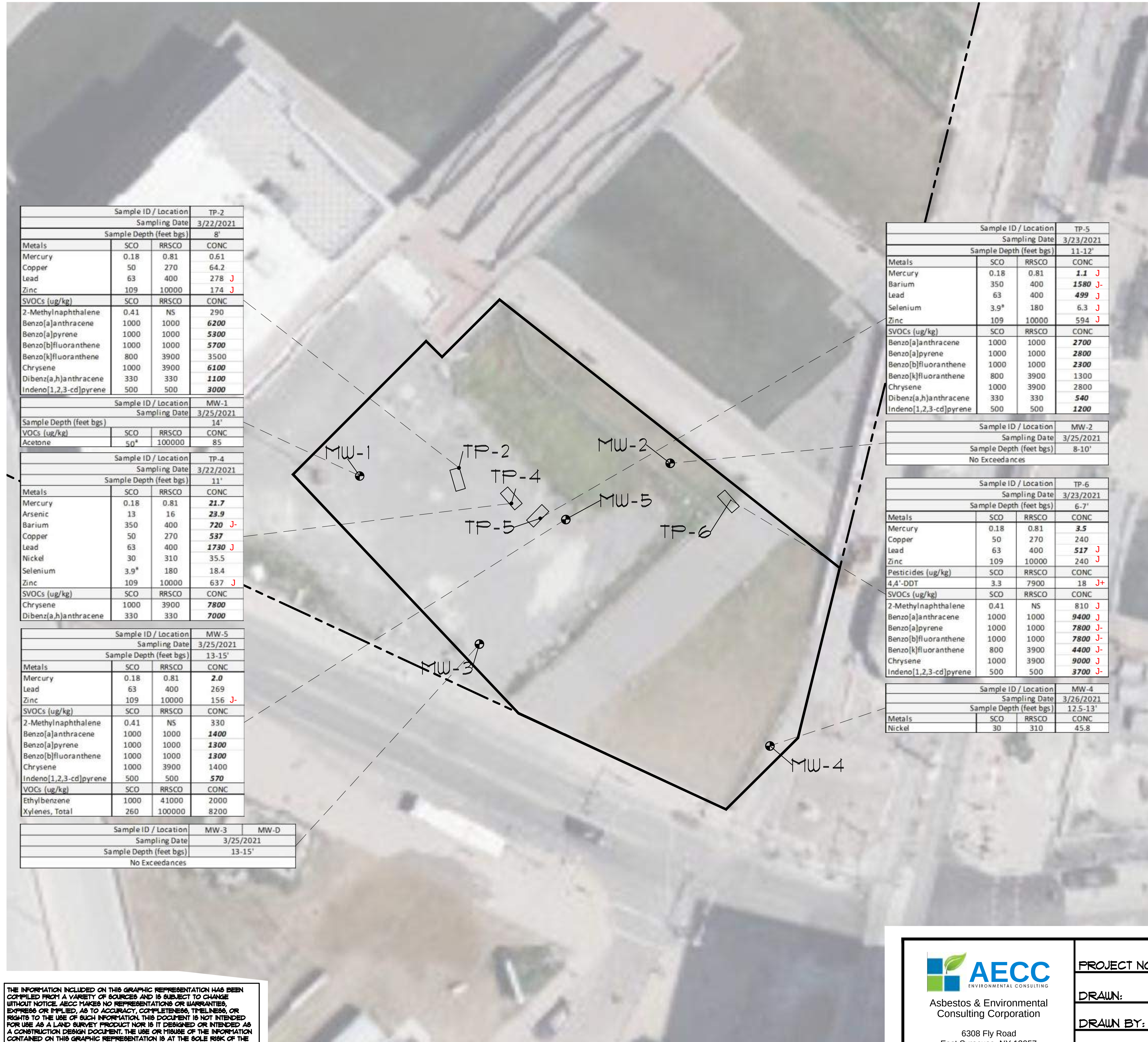
DRAWN BY: NP

CHECKED BY: RM

Summary of Analytical Exceedances
In Shallow Soil (<6' BGS)

Heritage Point
130 Main Street
Buffalo, New York 14202

FIGURE 2B



Sample ID / Location			TP-2
Sampling Date			3/22/2021
Sample Depth (feet bgs)			8'
Metals	SCO	RRSCO	CONC
Mercury	0.18	0.81	0.61
Copper	50	270	64.2
Lead	63	400	278 J
Zinc	109	10000	174 J
SVOCs (ug/kg)	SCO	RRSCO	CONC
2-Methylnaphthalene	0.41	NS	290
Benzo[a]anthracene	1000	1000	***6200***
Benzo[a]pyrene	1000	1000	***5300***
Benzo[b]fluoranthene	1000	1000	***5700***
Benzo[k]fluoranthene	800	3900	3500
Chrysene	1000	3900	***6100***
Dibenz(a,h)anthracene	330	330	***1100***
Indeno[1,2,3-cd]pyrene	500	500	***3000***

Sample ID / Location			MW-1
Sampling Date			3/25/2021
Sample Depth (feet bgs)			14'
VOCs (ug/kg)	SCO	RRSCO	CONC
Acetone	50*	100000	85

Sample ID / Location			TP-4
Sampling Date			3/22/2021
Sample Depth (feet bgs)			11'
Metals	SCO	RRSCO	CONC
Mercury	0.18	0.81	***21.7***
Arsenic	13	16	***23.9***
Barium	350	400	***720*** J-
Copper	50	270	***537***
Lead	63	400	***1730*** J
Nickel	30	310	35.5
Selenium	3.9*	180	18.4
Zinc	109	10000	637 J
SVOCs (ug/kg)	SCO	RRSCO	CONC
Chrysene	1000	3900	***7800***
Dibenz(a,h)anthracene	330	330	***7000***

Sample ID / Location			MW-5
Sampling Date			3/25/2021
Sample Depth (feet bgs)			13-15'
Metals	SCO	RRSCO	CONC
Mercury	0.18	0.81	***2.0***
Lead	63	400	269
Zinc	109	10000	156 J-
SVOCs (ug/kg)	SCO	RRSCO	CONC
2-Methylnaphthalene	0.41	NS	330
Benzo[a]anthracene	1000	1000	***1400***
Benzo[a]pyrene	1000	1000	***1300***
Benzo[b]fluoranthene	1000	1000	***1300***
Chrysene	1000	3900	1400
Indeno[1,2,3-cd]pyrene	500	500	***570***
VOCs (ug/kg)	SCO	RRSCO	CONC
Ethylbenzene	1000	41000	2000
Xylenes, Total	260	100000	8200

Sample ID / Location	MW-3	MW-D
Sampling Date	3/25/2021	
Sample Depth (feet bgs)	13-15'	
No Exceedances		

Sample ID / Location			TP-5
Sampling Date			3/23/2021
Sample Depth (feet bgs)			11-12'
Metals	SCO	RRSCO	CONC
Mercury	0.18	0.81	***1.1*** J
Barium	350	400	***1580*** J-
Lead	63	400	***499*** J
Selenium	3.9*	180	6.3 J
Zinc	109	10000	594 J
SVOCs (ug/kg)	SCO	RRSCO	CONC
Benzo[a]anthracene	1000	1000	***2700***
Benzo[a]pyrene	1000	1000	***2800***
Benzo[b]fluoranthene	1000	1000	***2300***
Benzo[k]fluoranthene	800	3900	1300
Chrysene	1000	3900	2800
Dibenz(a,h)anthracene	330	330	***540***
Indeno[1,2,3-cd]pyrene	500	500	***1200***

Sample ID / Location	MW-2
Sampling Date	3/25/2021
Sample Depth (feet bgs)	8-10'
No Exceedances	

Sample ID / Location			TP-6
Sampling Date			3/23/2021
Sample Depth (feet bgs)			6-7'
Metals	SCO	RRSCO	CONC
Mercury	0.18	0.81	***3.5***
Copper	50	270	240
Lead	63	400	***517*** J
Zinc	109	10000	240 J
Pesticides (ug/kg)	SCO	RRSCO	CONC
4,4'-DDT	3.3	7900	18 J+
SVOCs (ug/kg)	SCO	RRSCO	CONC
2-Methylnaphthalene	0.41	NS	810 J
Benzo[a]anthracene	1000	1000	***9400*** J
Benzo[a]pyrene	1000	1000	***7800*** J-
Benzo[b]fluoranthene	1000	1000	***7800*** J-
Benzo[k]fluoranthene	800	3900	***4400*** J-
Chrysene	1000	3900	***9000*** J
Indeno[1,2,3-cd]pyrene	500	500	***3700*** J-

Sample ID / Location			MW-4
Sampling Date			3/26/2021
Sample Depth (feet bgs)			12.5-13'
Metals	SCO	RRSCO	CONC
Nickel	30	310	45.8

LEGEND:

- APPROXIMATE PROPERTY LINE
- BCP SITE BOUNDARY
- MW-# MONITORING WELL LOCATION
- SS-# SURFACE SOIL SAMPLE LOCATION
- TP-# TEST PIT LOCATION

TABLE NOTES:

SCO - NYSDEC UNRESTRICTED USE SOIL CLEANUP OBJECTIVE

RRSCO - NYSDEC RESTRICTED RESIDENTIAL USE SOIL CLEANUP OBJECTIVE

BOLD / ITALICS - CONCENTRATION EXCEEDS APPLICABLE RRSCO VALUE

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE.

0 37.5' 75'

GRAPHIC SCALE

AECC ENVIRONMENTAL CONSULTING

Asbestos & Environmental Consulting Corporation

6308 Fly Road
East Syracuse, NY 13057

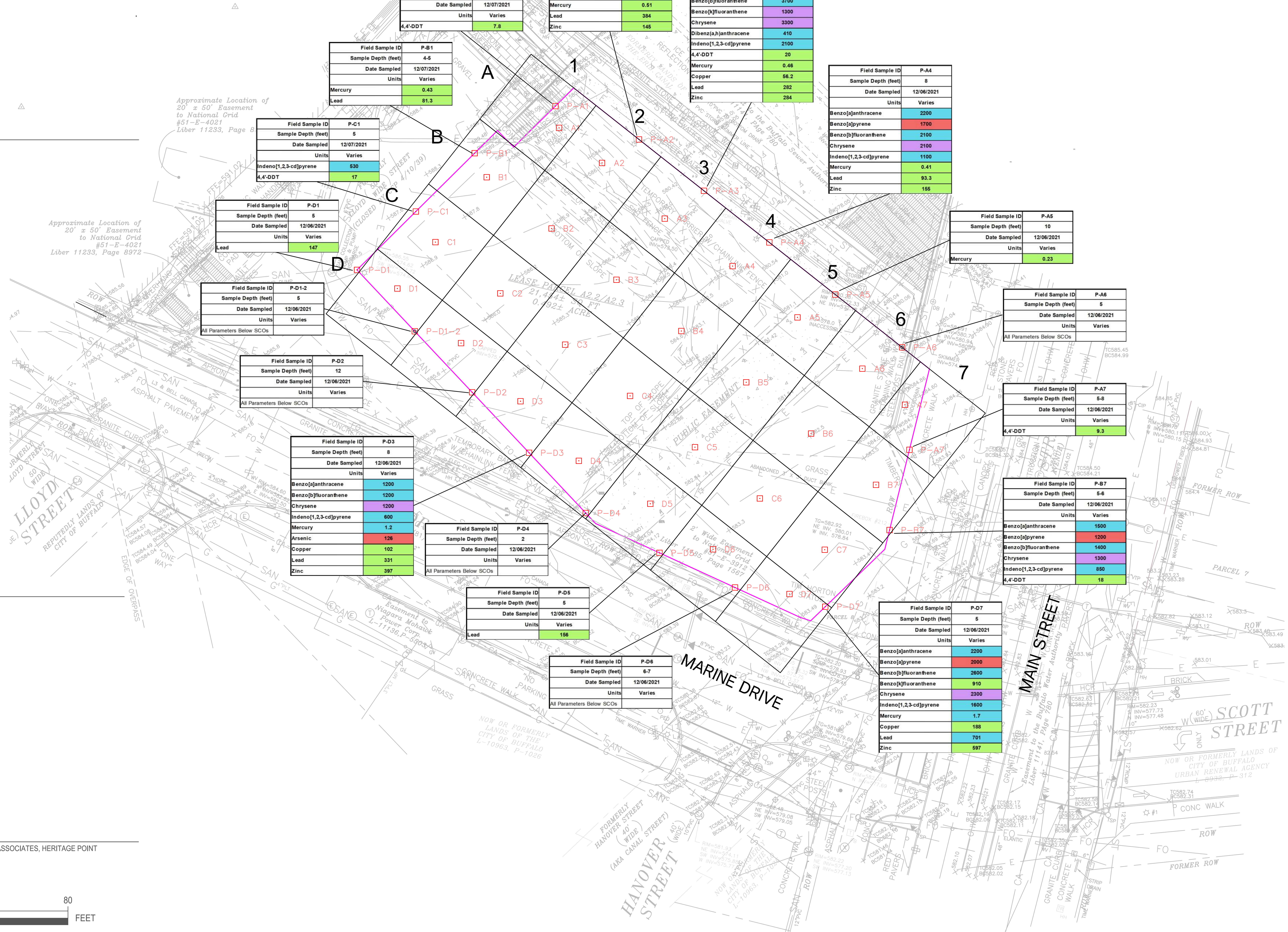
PROJECT NO.	20-237
DRAWN:	JULY 2021
DRAWN BY:	NP
CHECKED BY:	RM

Summary of Analytical Exceedances
In Deep Soil (>6' BGS)

Heritage Point
130 Main Street
Buffalo, New York 14202

FIGURE

2C



Field Sample ID	P-A1
Sample Depth (feet)	2
Date Sampled	12/07/2021
Units	Varies
4,4'-DDT	7.8

Field Sample ID	P-A2
Sample Depth (feet)	1-2
Date Sampled	12/07/2021
Units	Varies
Benzo[a]anthracene	3900
Benzo[a]pyrene	3000
Benzo[b]fluoranthene	3800
Benzo[k]fluoranthene	1400
Chrysene	3500
Dibenz(a,h)anthracene	420
Indeno[1,2,3-cd]pyrene	2000
Mercury	0.51
Lead	384
Zinc	145

Field Sample ID	P-A3
Sample Depth (feet)	7-8
Date Sampled	12/06/2021
Units	Varies
Benzo[a]anthracene	3500
Benzo[a]pyrene	2900
Benzo[b]fluoranthene	3700
Benzo[k]fluoranthene	1300
Chrysene	3300
Dibenz(a,h)anthracene	410
Indeno[1,2,3-cd]pyrene	2100
4,4'-DDT	20
Mercury	0.46
Copper	56.2
Lead	282
Zinc	284

Field Sample ID	P-A4
Sample Depth (feet)	8
Date Sampled	12/06/2021
Units	Varies
Benzo[a]anthracene	2200
Benzo[a]pyrene	1700
Benzo[b]fluoranthene	2100
Chrysene	2100
Indeno[1,2,3-cd]pyrene	1100
Mercury	0.41
Lead	93.3
Zinc	155

Field Sample ID	P-A5
Sample Depth (feet)	10
Date Sampled	12/06/2021
Units	Varies
Mercury	0.23

Field Sample ID	P-A6
Sample Depth (feet)	5
Date Sampled	12/06/2021
Units	Varies
All Parameters Below SCOs	

Field Sample ID	P-A7
Sample Depth (feet)	5-8
Date Sampled	12/06/2021
Units	Varies
4,4'-DDT	9.3

Field Sample ID	P-B1
Sample Depth (feet)	4-5
Date Sampled	12/07/2021
Units	Varies
Mercury	0.43
Lead	81.3

Field Sample ID	P-B7
Sample Depth (feet)	5-6
Date Sampled	12/06/2021
Units	Varies
Benzo[a]anthracene	1500
Benzo[a]pyrene	1200
Benzo[b]fluoranthene	1400
Chrysene	1300
Indeno[1,2,3-cd]pyrene	850
4,4'-DDT	18

Field Sample ID	P-C1
Sample Depth (feet)	5
Date Sampled	12/07/2021
Units	Varies
Indeno[1,2,3-cd]pyrene	530
4,4'-DDT	17

Field Sample ID	P-D1
Sample Depth (feet)	5
Date Sampled	12/06/2021
Units	Varies
Lead	147

Field Sample ID	P-D1-2
Sample Depth (feet)	5
Date Sampled	12/06/2021
Units	Varies
All Parameters Below SCOs	

Field Sample ID	P-D2
Sample Depth (feet)	12
Date Sampled	12/06/2021
Units	Varies
All Parameters Below SCOs	

Field Sample ID	P-D3
Sample Depth (feet)	8
Date Sampled	12/06/2021
Units	Varies
Benzo[a]anthracene	1200
Benzo[b]fluoranthene	1200
Chrysene	1200
Indeno[1,2,3-cd]pyrene	600
Mercury	1.2
Arsenic	126
Copper	102
Lead	331
Zinc	397

Field Sample ID	P-D4
Sample Depth (feet)	2
Date Sampled	12/06/2021
Units	Varies
All Parameters Below SCOs	

Field Sample ID	P-D5
Sample Depth (feet)	5
Date Sampled	12/06/2021
Units	Varies
Lead	156

Field Sample ID	P-D6
Sample Depth (feet)	6-7
Date Sampled	12/06/2021
Units	Varies
All Parameters Below SCOs	

Field Sample ID	P-D7
Sample Depth (feet)	5
Date Sampled	12/06/2021
Units	Varies
Benzo[a]anthracene	2200
Benzo[a]pyrene	2000
Benzo[b]fluoranthene	2600
Benzo[k]fluoranthene	910
Chrysene	2300
Indeno[1,2,3-cd]pyrene	1600
Mercury	1.7
Copper	188
Lead	701
Zinc	597

LEGEND

SOIL SAMPLE LOCATION

LABEL LEGEND

Field Sample ID	
Sample Depth (feet)	
Date Sampled	
Units	
ANALYTE CONCENTRATION EXCEED PART 375 SOIL CLEANUP OBJECTIVES	Unrestricted Use
	Residential Use
	Restricted Residential Use
	Commercial Use
	Industrial Use

NOTES

1) TOPOGRAPHIC SURVEY FROM FOIT-ALBERT ASSOCIATES, HERITAGE POINT CANALSIDE, JUNE 12, 2019 (JOB NO. 18001.49).

0 20 40 80 FEET

SCALE: 1" = 20'

Oct 05, 2022 – 3:33pm
F:\Project\Y03 – Sindtra Development Company, LLC\Y03001001 – Heritage Point BCP Project\Planning–Study\GIS\Projects\PERIMETER RESULTS.dwg

C&S COMPANIES

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PRELIMINARY NOT FOR CONSTRUCTION

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HERITAGE POINT BROWNFIELD CLEANUP PROGRAM SITE # C915347

BUFFALO, NEW YORK

MARK	DATE	DESCRIPTION
REVISIONS		

PROJECT NO: Y03.001.001
DATE: DECEMBER 2, 2021
DRAWN BY:
DESIGNED BY:
CHECKED BY:

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

PERIMETER SOIL SAMPLE RESULTS

FIGURE 3

A1 THROUGH A7

Field Sample ID	A1-18FT
Sample Depth (feet)	18
Date Sampled	12/09/2021
Units	Varies
All Parameters Below SCOs	

Field Sample ID	A2-16FT
Sample Depth (feet)	16
Date Sampled	12/09/2021
Units	Varies
Mercury	0.2
Lead	95.4
Field Sample ID	A2-17FT
All Parameters Below SCOs	

Field Sample ID	A3-16FT
Sample Depth (feet)	16
Date Sampled	12/09/2021
Units	Varies
Nickel	35.9
Field Sample ID	A3-17FT
All Parameters Below SCOs	

Field Sample ID	A4-15FT
Sample Depth (feet)	15
Date Sampled	12/09/2021
Units	Varies
Selenium	4.3
Field Sample ID	A4-16FT
All Parameters Below SCOs	

Field Sample ID	A5-15FT
Sample Depth (feet)	15
Date Sampled	12/09/2021
Units	Varies
Mercury	2.1
Copper	65.2
Lead	220
Zinc	135
Field Sample ID	A5-16FT
Zinc	121
Date Sampled	07/21/2022
Field Sample ID	A5-07212022
All Parameters Below SCOs	

Field Sample ID	A6-13FT
Sample Depth (feet)	13
Date Sampled	12/09/2021
Units	Varies
All Parameters Below SCOs	

Field Sample ID	A7-15FT
Sample Depth (feet)	15
Date Sampled	12/09/2021
Units	Varies
Arsenic	15
Nickel	39.7
Field Sample ID	A7-16FT
Nickel	42.3
Date Sampled	07/21/2022
Field Sample ID	A7-072122
All Parameters Below SCOs	

C1 THROUGH C7

Field Sample ID	C1-18.5FT
Sample Depth (feet)	18.5
Date Sampled	12/08/2021
Units	Varies
Nickel	37.5
Field Sample ID	C1-19.5FT
Nickel	36.9
Date Sampled	08/17/2022
Field Sample ID	C1-081722
All Parameters Below SCOs	

Field Sample ID	C2-18FT
Sample Depth (feet)	18
Date Sampled	12/08/2021
Units	Varies
Acetone	110
Arsenic	14.6
Nickel	47.5
Field Sample ID	C2-19FT
Nickel	40.5
Date Sampled	08/17/2022
Field Sample ID	C2-081722
All Parameters Below SCOs	

Field Sample ID	C3-16.5FT
Sample Depth (feet)	16.5
Date Sampled	12/08/2021
Units	Varies
Nickel	37.5
Field Sample ID	C3-17.5FT
Nickel	36.9
Date Sampled	08/06/2022
Field Sample ID	C3-08622
All Parameters Below SCOs	

Field Sample ID	C4-16.5FT
Sample Depth (feet)	16.5
Date Sampled	12/08/2021
Units	Varies
Mercury	0.2
Copper	56.1
Lead	172
Selenium	4.6
Zinc	198
Field Sample ID	C4-17.5FT
All Parameters Below SCOs	

Field Sample ID	C5-14.5FT
Sample Depth (feet)	14.5
Date Sampled	12/08/2021
Units	Varies
Nickel	31.5
Field Sample ID	C5-15.5FT
Nickel	32
Date Sampled	07/21/2022
Field Sample ID	C5-07212022
All Parameters Below SCOs	

Field Sample ID	C6-15FT
Sample Depth (feet)	15
Date Sampled	12/08/2021
Units	Varies
Nickel	40.1
Field Sample ID	C6-16FT
All Parameters Below SCOs	

Field Sample ID	C7-15FT
Sample Depth (feet)	15
Date Sampled	12/07/2021
Units	Varies
Mercury	0.88
Lead	136
Field Sample ID	C7-16FT
All Parameters Below SCOs	

B1 THROUGH B7

Field Sample ID	B1-20FT
Sample Depth (feet)	20
Date Sampled	12/08/2021
Units	Varies
All Parameters Below SCOs	

Field Sample ID	B2-18.5FT
Sample Depth (feet)	18.5
Date Sampled	12/08/2021
Units	Varies
All Parameters Below SCOs	

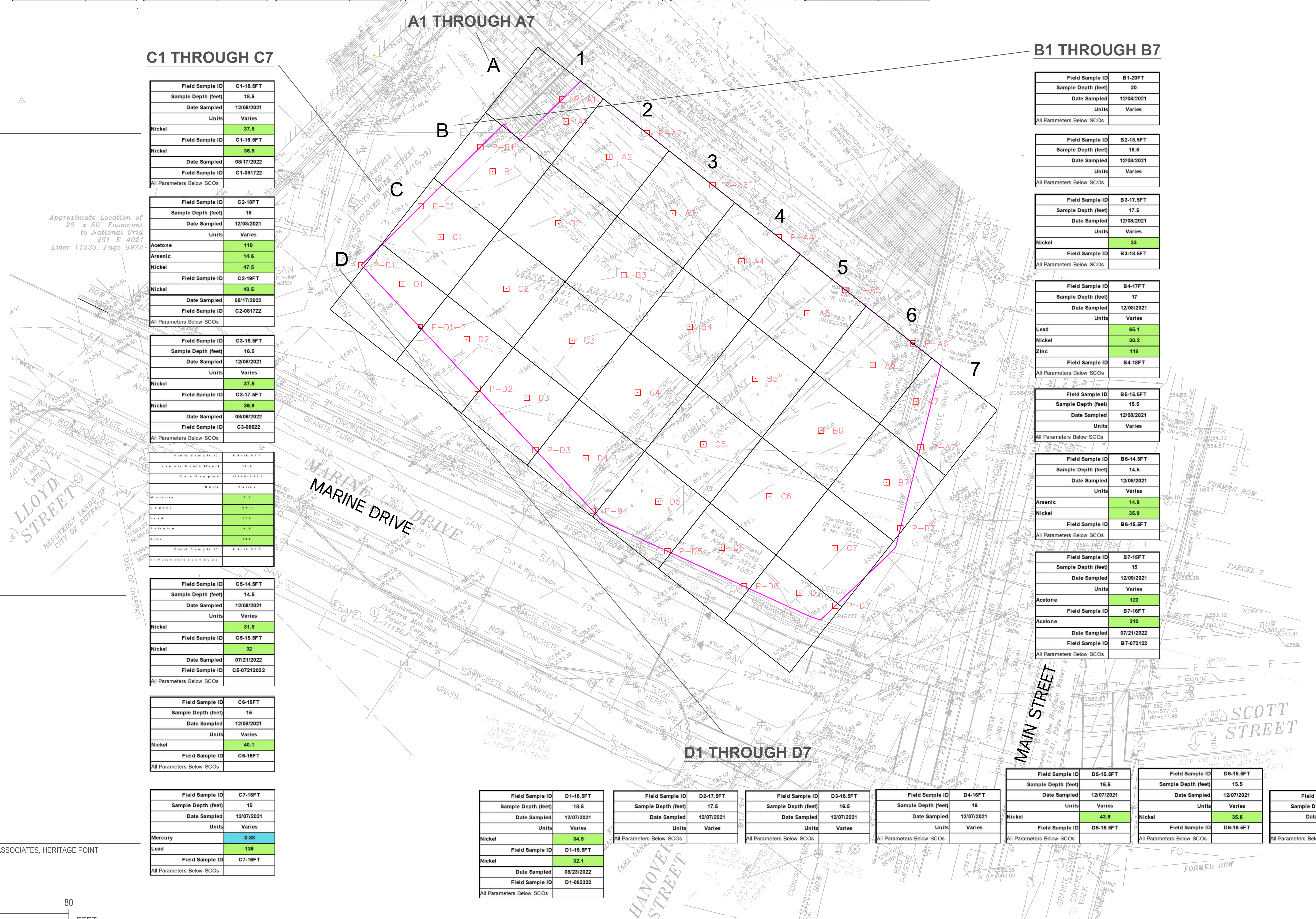
Field Sample ID	B3-17.5FT
Sample Depth (feet)	17.5
Date Sampled	12/08/2021
Units	Varies
Nickel	33
Field Sample ID	B3-18.5FT
All Parameters Below SCOs	

Field Sample ID	B4-17FT
Sample Depth (feet)	17
Date Sampled	12/08/2021
Units	Varies
Lead	65.1
Nickel	30.2
Zinc	118
Field Sample ID	B4-18FT
All Parameters Below SCOs	

Field Sample ID	B5-15.5FT
Sample Depth (feet)	15.5
Date Sampled	12/08/2021
Units	Varies
All Parameters Below SCOs	

Field Sample ID	B6-14.5FT
Sample Depth (feet)	14.5
Date Sampled	12/08/2021
Units	Varies
Arsenic	14.9
Nickel	35.9
Field Sample ID	B6-15.5FT
All Parameters Below SCOs	

Field Sample ID	B7-15FT
Sample Depth (feet)	15
Date Sampled	12/09/2021
Units	Varies
Acetone	120
Field Sample ID	B7-16FT
Acetone	210
Date Sampled	07/21/2022
Field Sample ID	B7-072122
All Parameters Below SCOs	



D1 THROUGH D7

Field Sample ID	D1-18.5FT
Sample Depth (feet)	18.5
Date Sampled	12/07/2021
Units	Varies
Nickel	34.5
Field Sample ID	D1-19.5FT
Nickel	32.1
Date Sampled	08/23/2022
Field Sample ID	D1-082322
All Parameters Below SCOs	

Field Sample ID	D2-17.5FT
Sample Depth (feet)	17.5
Date Sampled	12/07/2021
Units	Varies
All Parameters Below SCOs	

Field Sample ID	D3-16.5FT
Sample Depth (feet)	16.5
Date Sampled	12/07/2021
Units	Varies
All Parameters Below SCOs	

Field Sample ID	D4-16FT
Sample Depth (feet)	16
Date Sampled	12/07/2021
Units	Varies
All Parameters Below SCOs	

Field Sample ID	D5-15.5FT
Sample Depth (feet)	15.5
Date Sampled	12/07/2021
Units	Varies
Nickel	43.9
Field Sample ID	D5-16.5FT
All Parameters Below SCOs	

Field Sample ID	D6-15.5FT
Sample Depth (feet)	15.5
Date Sampled	12/07/2021
Units	Varies
Nickel	35.6
Field Sample ID	D6-16.5FT
All Parameters Below SCOs	

Field Sample ID	D7-15FT
Sample Depth (feet)	15
Date Sampled	12/07/2021
Units	Varies
All Parameters Below SCOs	

LEGEND

SOIL SAMPLE LOCATION

LABEL LEGEND

Field Sample ID	
Sample Depth (feet)	
Date Sampled	
Units	
ANALYTE CONCENTRATION EXCEEDS PART 375 SOIL CLEANUP OBJECTIVES	Unrestricted Use
	Residential Use
	Restricted Residential Use
	Commercial Use
	Industrial Use

NOTES

1) TOPOGRAPHIC SURVEY FROM FOIT-ALBERT ASSOCIATES, HERITAGE POINT CANALSIDE, JUNE 12, 2019 (JOB NO. 18001.49).

0 20 40 80 FEET

SCALE: 1" = 20'

C&S COMPANIES

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PRELIMINARY NOT FOR CONSTRUCTION

N

HERITAGE POINT
BROWNFIELD CLEANUP PROGRAM
SITE # C915347
BUFFALO, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

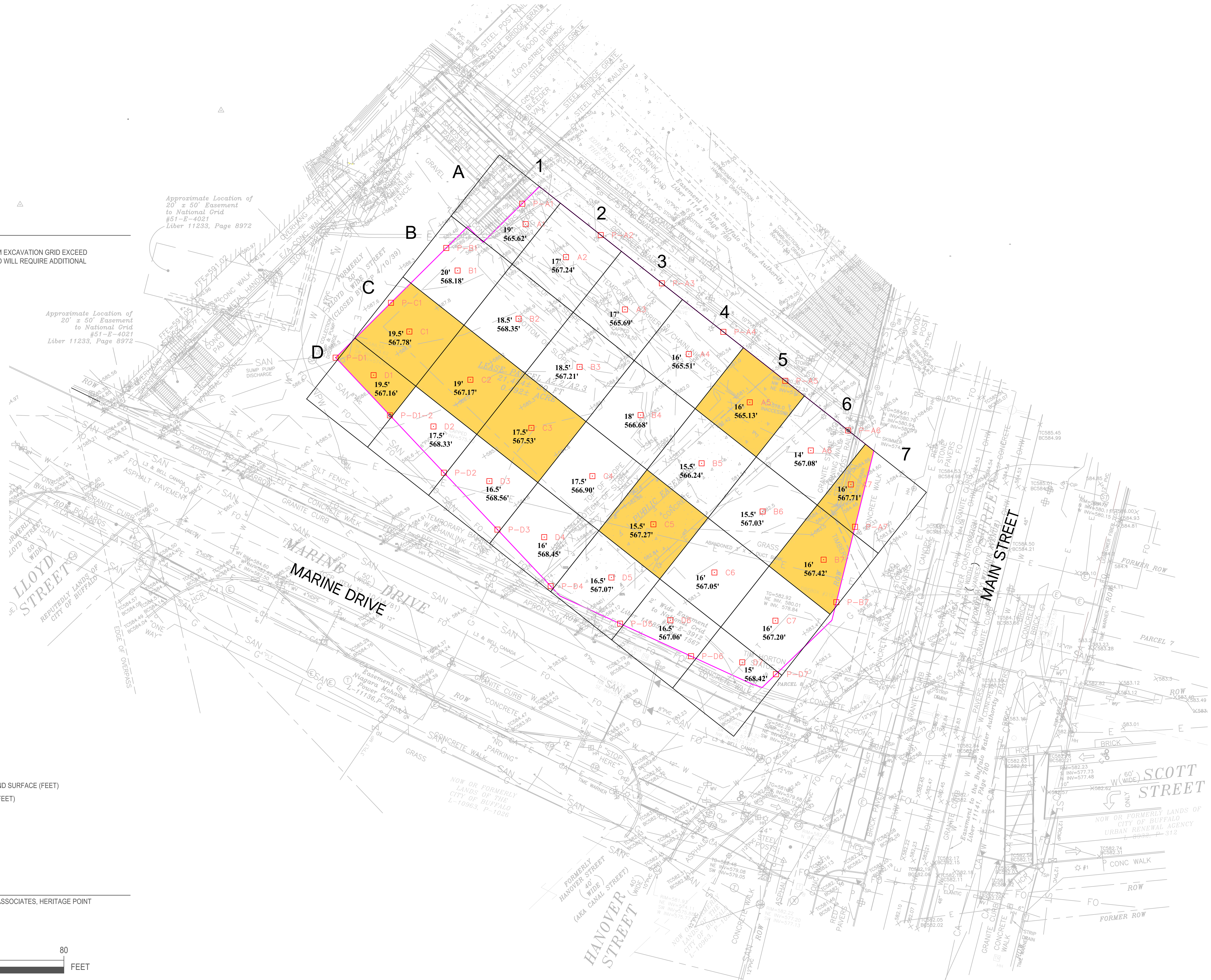
PROJECT NO: Y03.001.001
DATE: DECEMBER 2, 2021
DRAWN BY:
DESIGNED BY:
CHECKED BY:

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

CONFIRMATORY SOIL SAMPLE RESULTS

FIGURE 4

Oct 05, 2022 – 3:31pm – Sindtra F:\Project\Y03 – Sindtra Development Company, LLC\Y0300 1001 – Heritage Point BCP Project\Planning–Study\GIS\Projects\CONFIRMATORY RESULTS.dwg



LEGEND

SAMPLE CONCENTRATION FROM EXCAVATION GRID EXCEED UNRESTRICTED USE SCOS. GRID WILL REQUIRE ADDITIONAL CONFIRMATORY SAMPLING.

17.5' EXCAVATION DEPTH FROM GROUND SURFACE (FEET)
567.53' EXCAVATION DEPTH ELEVATION (FEET)

NOTES

1) TOPOGRAPHIC SURVEY FROM FOIT-ALBERT ASSOCIATES, HERITAGE POINT CANALSIDE, JUNE 12, 2019 (JOB NO. 18001.49).

0 20 40 80 FEET
SCALE: 1" = 20'

Oct 04, 2022 – 8:50pm
F:\Project\Y03 – Sindtro Development Company, LLC\Y03001001 – Heritage Point BCP Project\Planning–Study\GIS\Projects\T1 EXCAVATION DEPTHS.dwg

C&S COMPANIES
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Phone: 716-847-1630
Fax: 716-847-1454
www.cscos.com

HERITAGE POINT BROWNFIELD CLEANUP PROGRAM SITE # C915347
BUFFALO, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO: Y03.001.001
DATE: DECEMBER 2, 2021
DRAWN BY:
DESIGNED BY:
CHECKED BY:

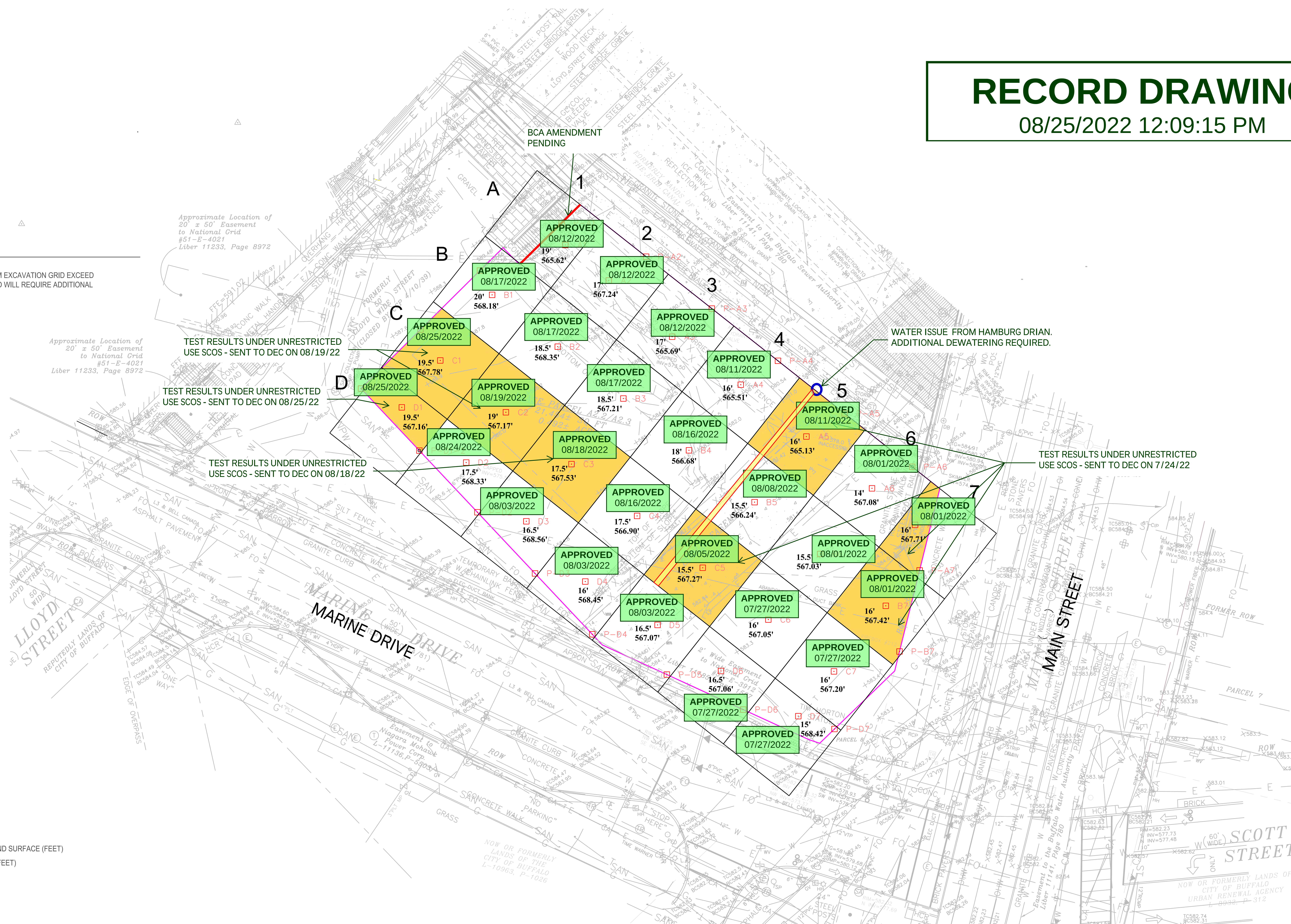
TRACK 1 CLEANUP EXCAVATION DEPTHS

FIGURE 5

RECORD DRAWING
08/25/2022 12:09:15 PM

LEGEND

SAMPLE CONCENTRATION FROM EXCAVATION GRID EXCEED UNRESTRICTED USE SCOS. GRID WILL REQUIRE ADDITIONAL CONFIRMATORY SAMPLING.



17.5' EXCAVATION DEPTH FROM GROUND SURFACE (FEET)
567.53' EXCAVATION DEPTH ELEVATION (FEET)

NOTES

1) TOPOGRAPHIC SURVEY FROM FOIT-ALBERT ASSOCIATES, HERITAGE POINT CANALSIDE, JUNE 12, 2019 (JOB NO. 18001.49).

0 20 40 80 FEET
SCALE: 1" = 20'

MARKUP LEGEND

CONTRACTOR IS WORKING IN THIS AREA (FINAL REMEDIATION HAS NOT BEEN COMPLETED)

APPROXIMATE EXTENT AND DEPTH OF ADDITIONAL CONTAMINATED MATERIAL

APPROVED 10/11/019 — REMEDIATION IN AN AREA/GRID HAS BEEN COMPLETED AND INSPECTED BY THE ENVIRONMENTAL ENGINEER. AREA IS APPROVED FOR BACKFILL.

Jan 11, 2022 – 12:53pm F:\Project\Y03 – Sinatra Development Company, LLC\Y03001001 – Heritage Point BCP Project\Planning–Study\GIS\Projects\T1 EXCAVATION DEPTHS.dwg

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HERITAGE POINT
BROWNFIELD CLEANUP PROGRAM
SITE # C915347
BUFFALO, NEW YORK

MARK	DATE	DESCRIPTION

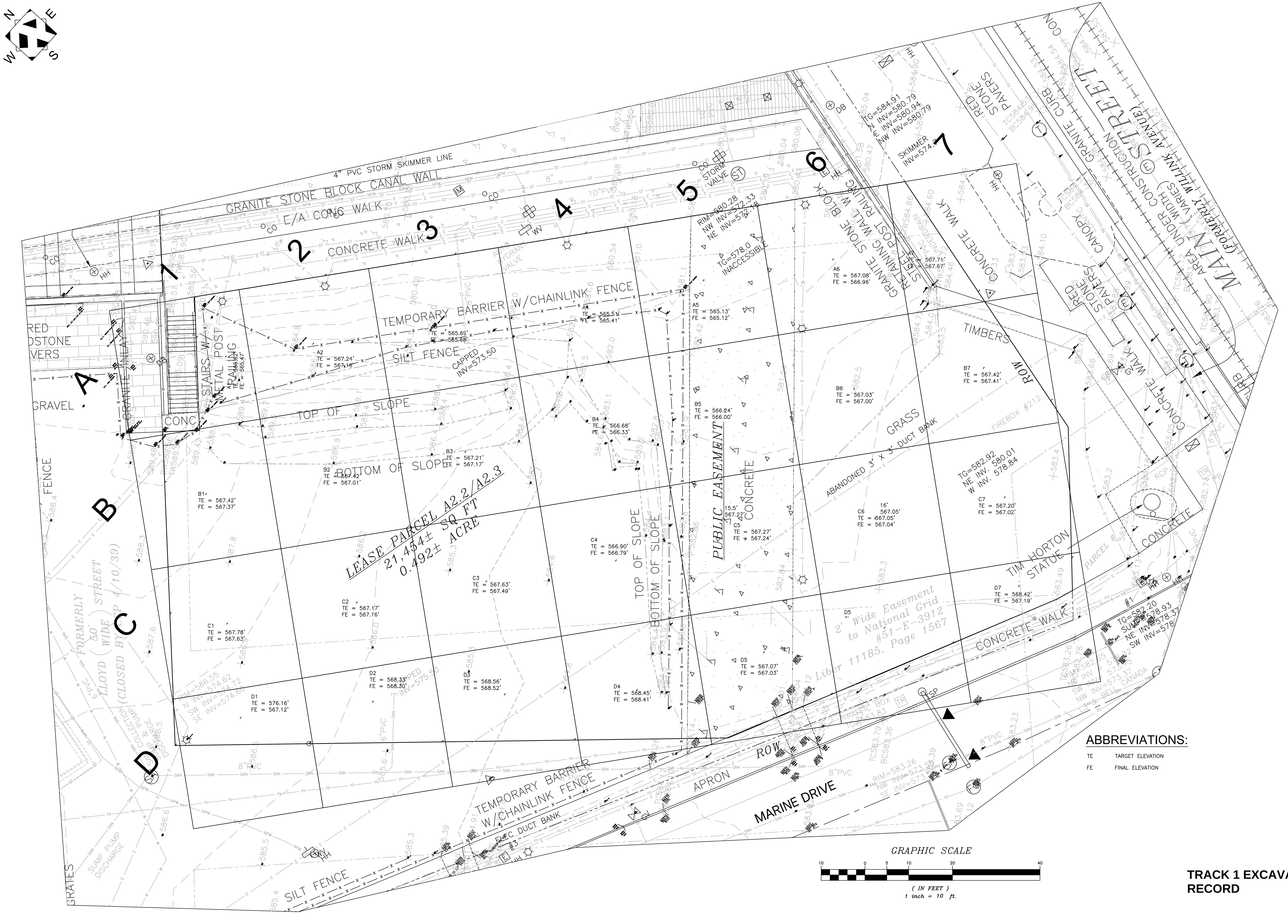
REVISIONS

PROJECT NO: Y03.001.001
DATE: DECEMBER 2, 2021
DRAWN BY:
DESIGNED BY:
CHECKED BY:

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

TRACK 1 CLEANUP EXCAVATION DEPTHS

FIGURE 6



ABBREVIATIONS:

TE TARGET ELEVATION

FE FINAL ELEVATION

TRACK 1 EXCAVATION RECORD

FIGURE 7

J:\Cadd Standards\Logos\RESIDENTIAL TTLB FA LOGO.jpg

FINAL EXCAVATION GRADES - BCP SITE # C915347

HERITAGE POINT
120 MAIN STREET
BUFFALO, NY 14202

Revision Number	Revision Date
1	REVISED TE @ B1 & B2 8/25/2022 SAS

Scale: 1" = 10'

Date: 8/24/2022 | Project Manager: M. POHL

Drawn By: S. SHEPHERD | Checked By: M. POHL

Project: 21001.40

Sheet: 1 of 1

V-101

TABLES

Table A - Summary of Analytical Data (Detections Only) - Surface Soil Samples

Remedial Investigation Report - Heritage Point - 130 Main Street, City of Buffalo, Erie County, New York

Analyte	CAS Number	Unrestricted	Restricted Residential	SS-1 3/24/2021	SS-D 3/24/2021	SS-2 3/24/2021	SS-3 3/24/2021
Perfluorinated Alkyl Substances (PFAS)		ug/kg	ug/kg	ug/kg	ug/kg		
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	ND	0.24 J		
Perfluoropentanoic acid (PFPeA)	2706-90-3	NS	NS	0.096 J	0.080 J		
Perfluorohexanoic acid (PFHxA)	307-24-4	NS	NS	0.13 J	0.13 J		
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	0.051 J	0.065 J		
Perfluorooctanoic acid (PFOA)	335-67-1	0.66	33	0.17 J	0.16 J		
Perfluorononanoic acid (PFNA)	375-95-1	NS	NS	0.072 J	0.070 J		
Perfluorodecanoic acid (PFDA)	335-76-2	NS	NS	0.036 J	0.048 J		
Perfluoroundecanoic acid (PFUnA)	2058-94-8	NS	NS	0.034 J	ND G		
Perfluorododecanoic acid (PFDoA)	307-55-1	NS	NS	0.025 J I	0.032 J		
Perfluorotridecanoic acid (PFTriA)	72629-94-8	NS	NS	0.018 J	0.018 J		
Perfluorobutanesulfonic acid (PFBS)	375-73-5	NS	NS	0.076 J	0.082 J		
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	NS	NS	0.025 J	0.029 J		
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.88	44	0.30 I	0.30 I		
Herbicides		ug/kg	ug/kg	ug/kg	ug/kg		
No Herbicides Detected	N/A	N/A	N/A	ND	ND		
Metals		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Mercury	7439-97-6	0.18	0.81	0.036	0.041	0.078	0.019 J
Aluminum	7429-90-5	NS	NS	13600	11900	12500	14700
Arsenic	7440-38-2	13	16	12.0 J	7.7	8.5	5.1
Barium	7440-39-3	350	400	59.1 F1 J+	61.3 J+	67.9 J+	97.3 J+
Beryllium	7440-41-7	7.2	72	0.50	0.44	0.44	0.65
Cadmium	7440-43-9	2.5	4.3	0.35	0.35	0.33	0.42
Calcium	7440-70-2	NS	NS	14100 B F2	19600 B	14000 B	36300 B
Chromium	7440-47-3	30	180	16.6	13.9	14.9	18.3
Cobalt	7440-48-4	NS	NS	7.3	6.2	6.3	8.4
Copper	7440-50-8	50	270	27.4 F1 J-	19.6 J-	20.6 J-	18.7 J-
Iron	7439-89-6	NS	NS	23800	17800	18600	19400
Lead	7439-92-1	63	400	18.8	16.3	16.4	15.1
Magnesium	7439-95-4	NS	NS	5360 F1 J+	4620 J+	5600 J+	13100 J+
Manganese	7439-96-5	1600	2000	354 B	416 B	402 B	752 B
Nickel	7440-02-0	30	310	23.2	16.6	16.5	22.2
Potassium	7440-09-7	NS	NS	1470 F1 J+	1310 J+	1170 J+	2720 J+
Sodium	7440-23-5	NS	NS	83.0 J B	92.4 J B	230 B	153 J B
Vanadium	7440-62-2	NS	NS	25.0	20.9	23.2	28.6
Zinc	7440-66-6	109	10000	91.0 F1 J-	71.8 J-	73.7 J-	61.0 J-
Organochlorine Pesticides		ug/kg	ug/kg	ug/kg	ug/kg		
4,4'-DDT	50-29-3	3.3[a]	7900	ND	**3.8 J J+**		
Dieldrin	60-57-1	5[a]	200	ND F2	2.9 J		
Polychlorinated Biphenyls (PCBs)		mg/kg	mg/kg	mg/kg	mg/kg		
No PCBs Detected	N/A	N/A	N/A	ND	ND		
Semi-Volatile Organic Compounds (SVOCs)		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Benzo[a]anthracene	56-55-3	1000	1000	84 J	50 J	ND	73 J
Benzo[a]pyrene	50-32-8	1000	1000	120 J F1 J+	69 J	ND	88 J
Benzo[b]fluoranthene	205-99-2	1000	1000	160 J	94 J	170 J	100 J
Benzo[g,h,i]perylene	191-24-2	100000	100000	110 J	61 J	110 J	62 J
Benzo[k]fluoranthene	207-08-9	800	3900	72 J	41 J	ND	46 J
Chrysene	218-01-9	1000	3900	110 J	63 J	ND	90 J
Fluoranthene	206-44-0	100000	100000	160 J	95 J	220 J	120 J
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	93 J	55 J	ND	55 J
Phenanthrene	85-01-8	100000	100000	61 J	46 J	ND	ND
Pyrene	129-00-0	100000	100000	130 J	75 J	170 J	90 J
Total Detected SVOCs	N/A	NS	NS	1100	649	670	724
Tentatively Identified SVOCs (TICs)							
Total Number of SVOC TICs	*N/A*	*NS*	*NS*	*15*	*17*	*1*	*4*
Total SVOC TIC Concentration	*N/A*	*NS*	*NS*	*5190*	*6900*	*3000*	*1140*
Total SVOCs	N/A	NS	NS	6290	7549	3670	1864

Table B - Summary of Analytical Data (Detections Only) - Shallow Soil Samples

Remedial Investigation Report - Heritage Point - 130 Main Street, City of Buffalo, Erie County, New York

Analyte	CAS Number	Unrestricted SCO	Restricted Residential SCO	MW-1 5' 3/25/2021	TP-1 6' 3/22/2021	TP-3 4' 3/22/20212	TP-7 4-5' 3/23/2021	TP-8 5-6' 3/23/2021	TP-9B 5-6' 3/25/2021	TP-10 3.5-4' 3/26/2021	TP-11 3-4' 3/25/2021	TP-12 3-4' 3/24/2021	TP-13 2-3' 3/24/2021	TP-D	TP-14 2-3' 3/24/2021	TP-15 3-4' 3/24/2021	TP-16 4.5-5' 3/23/2021
Perfluorinated Alkyl Substances (PFAS)		**ug/kg**	**ug/kg**			**ug/kg**							**ug/kg**	**ug/kg**			
Perfluorobutanesulfonic acid (PFBS)	375-73-5	NS	NS			0.023 J							0.012 J	ND			
Perfluorodecanesulfonic acid (PFDS)	335-77-3	NS	NS			0.032 J							ND	ND			
Perfluorodecanoic acid (PFDA)	335-76-2	NS	NS			0.022 J							ND	ND			
Perfluorododecanoic acid (PFDoA)	307-55-1	NS	NS			0.024 J							ND	ND			
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS			0.030 J							0.047 J	0.028 J I			
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	NS	NS			0.057 J							0.019 J	0.025 J			
Perfluorohexanoic acid (PFHxA)	307-24-4	NS	NS			0.040 J							0.45	0.25 J			
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.88	44			0.24 I							ND	ND			
Perfluorooctanoic acid (PFOA)	335-67-1	0.66	33			0.046 J							ND	ND			
Perfluoropentanoic acid (PFPeA)	2706-90-3	NS	NS			ND							0.58	0.26 J			
Perfluorotridecanoic acid (PFTriA)	72629-94-8	NS	NS			0.018 J							ND	ND			
Herbicides		**ug/kg**	**ug/kg**			**ug/kg**							**ug/kg**	**ug/kg**			
No Herbicides Detected	N/A	N/A	N/A			ND							ND	ND			
Metals		**mg/kg**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Mercury	7439-97-6	0.18	0.81		**0.62**	**0.28**	**0.73**	**1.2**	**0.29**	**0.35**	**0.9**	**4.3**	**12.8 J**	**4.8 J**	**0.36**	**0.37**	**6.2**
Aluminum	7429-90-5	NS	NS		11100 J+	10100 J+	5400 J+	7200 ^+ J+	2640	6860 ^+ J+	16500	6310 ^+ J+	8590	9710	8110	8380 ^+ J+	4820 ^+ J+
Antimony	7440-36-0	NS	NS		ND	ND	ND	ND	ND UJ	ND	ND UJ	ND	1.7 J J-	ND UJ	ND UJ	ND	1.9 J
Arsenic	7440-38-2	13	16		10.5	6.2	12.4	4.0	3.0	9.2	5.4	**22.0**	**26.6**	**19.7**	5.5	9.2	**37.6**
Barium	7440-39-3	350	400		131 J-	85.9 J-	154 J-	49.4 ^+ J-	27.9 J+	84.5 ^+ J-	240 J+	**1780 J-**	**976 J+**	**669 J+**	86.6 J+	100 ^+ J-	181 ^+ J-
Beryllium	7440-41-7	7.2	72		0.76	0.48	0.72	0.31	0.11 J	1	0.69	0.60	0.89	1.1	0.39	0.43	0.87
Cadmium	7440-43-9	2.5	4.3		0.30	0.17 J	0.46	0.12 J	0.43	ND	0.54	0.48	1.1	0.80	0.38	0.28	0.23 J
Calcium	7440-70-2	NS	NS		48700 B	47800 B	35700 B	49300 B ^+	3280 B J	9710 B ^+	16100 B J	13100 B ^+	53700 B J	25900 B J	42800 B J	41500 B ^+	5140 B ^+
Chromium	7440-47-3	30	180		17.9	17.5	11.4	10.0	4.8	7.6	21.5	19.2	**31.3**	**31.7**	11.9	15.1	19.7
Cobalt	7440-48-4	NS	NS		6.7	6.9	5.8	4.6	1.6	16.5	10.5	7.1	9.2	12.1	4.9	6.7	7.7
Copper	7440-50-8	50	270		**61.0**	44.7	29.3	38.0	**596**	26.2	39.9	**555**	**308**	**236**	46.8	**132**	**531**
Iron	7439-89-6	NS	NS		18600	17300	15000	10900 ^+	5160 J	19300 ^+	17100 J	30500 ^+	15400 J	30500 J	12400 J	19300 ^+	24900 ^+
Lead	7439-92-1	63	400		**299 J**	**178 J**	**284 J**	**78.8 J**	**97.3**	**690 J**	**105**	**1260 J**	**2820 J**	**1730 J**	**242**	**205 J**	**2850 J**
Magnesium	7439-95-4	NS	NS		12500 B	13600 B	3900 B	11000 B	1260 J	416 B	10400 J	3060 B	1700 J	982 J	9410 J	13500 B	601 B
Manganese	7439-96-5	1600	2000		654 B	371 B	194 B	212 B ^+	91.2 B J	88.6 B ^+	206 B J	286 B ^+	355 B J	367 B J	267 B J	391 B ^+	68.8 B ^+
Nickel	7440-02-0	30	310		18.5	19.0	14.9	11.8	18.0	25.3	26.4	23.1	**40.8**	29.7	13.9	21.2	17.5
Potassium	7440-09-7	NS	NS		2240 J+	2300 J+	1150 J+	1630 J+	310	387 J+	2680 J+	1130 J+	1280 J+	1260 J+	1630 J+	1810 J+	486 J+
Selenium	7782-49-2	3.9	180		2.1 J	1.7 J	2.1 J	0.81 J	ND	2.6 J	0.60 J	**5.1**	2.2 J	1.1 J	ND	1.9 J	**4.1 J**
Silver	7440-22-4	2	180		0.34 J	0.35 J	ND	ND	ND	0.28 J	0.42 J	0.80	1.7	1.3	0.24 J	0.30 J	0.69 J
Sodium	7440-23-5	NS	NS		447 B	334 B	222 B	204 B	58.5 J B	173 B	534 B	836 B	1080 B J	731 B J	217 B	541 B	293 B
Vanadium	7440-62-2	NS	NS		22.7	23.6	32.2	16.2	7.3	18.8	26.6	21.0	23.2 J	35.2 J	18.3	20.8	19.8
Zinc	7440-66-6	109	10000		**164 J**	**123 J**	**284 J**	85.0 J	**268 J-**	64.5 J	**117 J-**	**604 J**	**1490 J-**	**1270 J-**	**120 J-**	**187 J**	**335 J**
Organochlorine Pesticides		**ug/kg**	**ug/kg**			**ug/kg**							**ug/kg**	**ug/kg**			
No Pesticides Detected	N/A	N/A	N/A			ND							ND	ND			
Polychlorinated Biphenyls (PCBs)		**mg/kg**	**mg/kg**			**mg/kg**						**mg/kg**	**mg/kg**	**mg/kg**			
No PCBs Detected	N/A	N/A	N/A			ND						ND	ND	ND			
Semivolatile Organic Compounds (SVOCs)		**ug/kg**	**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
2,4-Dimethylphenol	105-67-9	NS	NS		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11000 J
2-Methylnaphthalene	91-57-6	0.41	NS		ND	ND	ND	ND	ND	ND	**210 J**	ND	ND	ND	**38 J**	**59 J**	**100000**
4-Methylphenol	106-44-5	330[a]	100000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**13000 J**
Acenaphthene	83-32-9	20000	100000		570 J	380 J	ND	190 J	ND	ND	630	1200 J	ND	ND	88 J	150 J	**250000**
Acenaphthylene	208-96-8	100000	100000		320 J	290 J	ND	150 J	ND	ND	67 J	360 J	ND	ND	62 J	67 J	84000
Anthracene	120-12-7	100000	100000		2100	1400	ND	1200	ND	ND	1200	3100	89 J	ND	280	390	**520000**
Benzo[a]anthracene	56-55-3	1000	1000		**4600**	**3400**	450 J	**12000**	**2400**	ND	**1900**	**8300**	250	120 J	830	920	**780000**
Benzo[a]pyrene	50-32-8	1000	1000		**4300**	**3200**	390 J	**8200**	**4300**	ND	**2000**	**7800**	270	110 J	820	860	**650000**
Benzo[b]fluoranthene	205-99-2	1000	1000		**4700**	**3700**	450 J	**11000**	**5000**	ND	**2200**	**9300**	390	140 J	920	880	**700000**
Benzo[g,h,i]perylene	191-24-2	100000	100000		2500	1900	240 J	3400	4500	ND	1400	4700	310	99 J	550	510	**310000**
Benzo[k]fluoranthene	207-08-9	800	3900		**2400**	**1400**	180 J	**4300**	**2900**	ND	720	**3500**	180 J	55 J	340	440	**270000**
Biphenyl	92-52-4	NS	NS		ND	ND	ND	ND	ND	ND	67 J	ND	ND	ND	ND	ND	24000 J
Carbazole	86-74-8	NS	NS		550 J	430 J	ND	340 J	ND	ND	520	1800 J	27 J	ND	130 J	190 J	200000
Chrysene	218-01-9	1000	3900		**4400**	**3400**	500 J	**13000**	**2700**	ND	**1900**	**8800**	240	94 J	870	880	**730000**
Dibenz(a,h)anthracene	53-70-3	330[a]	330[a]		**820 J**	**520 J**	ND	**1500**	**1400 J**	ND	**420**	**1400 J**	87 J	ND	160 J	180 J	**120000**
Dibenzofuran	132-64-9	7000	59000		400 J	330 J	ND	130 J	ND	ND	410	740 J	ND	ND	71 J	110 J	**170000**
Fluoranthene	206-44-0	100000	100000		11000	8200	880 J	17000	2300	27 J	4100	17000	360	190 J	1600	1900	**1800000 E J**
Fluorene	86-73-7	30000	100000		800 J	580 J	ND	290 J	ND	ND	520	1200 J	30 J	ND	99 J	160 J	**260000**
Indeno[1,2,3-cd]pyrene	193-39-5	500	500		**2400**	**1700**	190 J	**3300**	**3800**	ND	**1300**	**4600**	290	91 J	500	460	**320000**
Naphthalene	91-20-3	12000	100000		250 J	220 J	ND	ND	ND	ND	300	600 J	ND	ND	43 J	120 J	**150000**
Phenanthrene	85-01-8	100000	100000		6600	5000	790 J	3200	910 J	29 J	4900	12000	320	170 J	1300	1400	**1700000 E J**
Pyrene	129-00-0	100000	100000		8000	6400	740 J	15000	1900	24 J	4700	13000	380	210 J	1600	1500	**1400000**
Total Detected SVOCs	N/A	NS	NS		56710	42450	4810	94200	32110	80	29464	99400	3223	1279	10301	11176	10562000
Tentatively Identified SVOCs (TICs)																	
Total Number of SVOC TICs	*N/A*	*NS*	*NS*		*18*	*14*	*2*	*19*	*5*	*6*	*19*	*13*	*19*	*4*	*19*	*18*	*19*
Total SVOC TIC Concentration	*N/A*	*NS*	*NS*		*21210*	*15330*	*2450*	*31200*	*11000*	*8780*	*17810*	*30500*	*13490*	*1730*	*4940*	*12710*	*4800000*
Total SVOCs	N/A	NS	NS		77920	57780	7260	125400	43110	8860	47274	129900	16713	3009	15241	23886	15362000
Volatile Organic Compounds (VOCs)		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
2-Butanone (MEK)	78-93-3	120[a]	100000	ND	5.9 J H J	ND H UJ	ND H UJ	ND	ND	ND	ND	ND	ND	ND	ND	8.8 J	ND
Acetone	67-64-1	50[a]	100000	ND	33 H J	ND H UJ	ND H UJ	ND	4.8 J	ND	ND	ND	ND	ND	ND	46	ND
Benzene	71-43-2	60[a]	4800	**79 J**	ND H UJ	ND H UJ	ND H UJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	75-15-0	2.7	NS	ND	ND H UJ	ND H UJ	ND H UJ	ND	ND	ND	ND	ND	ND	ND	ND	**4.2 J**	ND
Chloroform	67-66-3	370[a]	49000	ND	ND H UJ	ND H UJ	ND H UJ	ND	ND	ND	ND	0.53 J	ND	ND	ND	ND	ND
Cyclohexane	110-82-7	NS	NS	570	ND H UJ	ND H UJ	ND H UJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	75-71-8	NS	NS	ND	ND H UJ	ND H UJ	ND H UJ	ND	ND	ND	ND	ND	ND	ND	ND	0.62 J	ND
Ethylbenzene	100-41-4	1000	41000	100 J	ND H UJ	ND H UJ	ND H UJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	98-82-8	2.3	NS	**52 J**	ND H UJ	ND H UJ	ND H UJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	108-87-2	NS	NS	1100	ND H UJ	ND H UJ	ND H UJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	108-88-3	700	100000	210 J	ND H UJ	ND H UJ	ND H UJ	ND	ND	ND	ND	ND	ND	ND	ND	0.36 J	0.51 J
Trichlorofluoromethane	75-69-4	NS	NS	ND	ND H UJ	ND H UJ	ND H UJ	ND	ND	ND	ND	3.2 J	ND	ND	ND	ND	ND
Xylenes, Total	1330-20-7	260[a]	100000	**700**	ND H UJ	ND H UJ	ND H UJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Detected VOCs	N/A	NS	NS	2811	38.9	0	0	0	4.8	0	0	3.73	0	0	0	59.98	0.51
Tentatively Identified VOCs (TICs)																	
Total Number of VOC TICs	*N/A*	*NS*	*NS*	*4*	*0*	*5*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*3*	*4*
Total VOC TIC Concentration	*N/A*	*NS*	*NS*	*43530*	*0*	*63.1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*36.7*	*200.4*
Total VOCs	N/A	NS	NS	46341	38.9	63.1	0	0	4.8	0	0	3.73	0	0	0	96.68	200.91

Table C - Summary of Analytical Data (Detections Only) - Deep Soil Samples

Remedial Investigation Report - Heritage Point - 130 Main Street, City of Buffalo, Erie County, New York

				BORINGS						TEST PITS			
Analyte	CAS Number	Unrestricted	Restricted Residential	MW-1 14' 3/25/2021	MW-2 8-10' 3/25/2021	MW-3 13-15' 3/25/2021	MW-D	MW-4 12.5-13' 3/26/2021	MW-5 13-15' 3/25/2021	TP-2 8' 3/22/2021	TP-4 11' 3/22/2021	TP-5 11-12' 3/23/2021	TP-6 6-7' 3/23/20212
Perfluorinated Alkyl Substances (PFAS)		ug/kg	ug/kg			ug/kg	ug/kg						ug/kg
Perfluorobutanesulfonic acid (PFBS)	375-73-5	NS	NS			ND	0.011 J						ND
Perfluorodecanesulfonic acid (PFDS)	335-77-3	NS	NS			ND	ND						0.027 J
Perfluorodecanoic acid (PFDA)	335-76-2	NS	NS			0.016 J	ND						ND
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS			ND	ND						0.037 J
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	NS	NS			ND	ND						0.021 J
Perfluorohexanoic acid (PFHxA)	307-24-4	NS	NS			ND	ND						0.10 J
Perfluorononanoic acid (PFNA)	375-95-1	NS	NS			ND	ND						0.042 J
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.88	44			ND	ND						0.42
Perfluorooctanoic acid (PFOA)	335-67-1	0.66	33			ND	ND						0.13 J
Perfluoropentanoic acid (PFPeA)	2706-90-3	NS	NS			ND	ND						0.13 J
Herbicides		ug/kg	ug/kg			ug/kg	ug/kg						ug/kg
No Herbicides Detected	N/A	N/A	N/A			ND	ND						ND
Metals		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Mercury	7439-97-6	0.18	0.81	0.081	0.022 J	0.028	0.024	0.041	**2.0**	**0.61**	**21.7**	**1.1 J**	**3.5 F2**
Aluminum	7429-90-5	NS	NS	16100	12900	11700 F2	14000	20100 ^+ J+	7910	9540 J+	8030 J+	1980 J+	7580 F1 J+
Antimony	7440-36-0	NS	NS	ND UJ	ND UJ	ND F1 F2 UJ	ND UJ	ND	ND UJ	ND	17.6 J	ND	ND
Arsenic	7440-38-2	13	16	3.8	4.0	2.7 J	4.2 J	4.4	8.5	7.7	**23.9**	4.4 J J	7.9
Barium	7440-39-3	350	400	76.2 J+	75.1 J+	69.4 F1 J+	85.3 J+	119 ^+ J-	166 J+	100 J-	**720 J-**	**1580 J-**	112 F1 F2 J-
Beryllium	7440-41-7	7.2	72	0.81	0.56	0.53	0.60	0.88	0.44	0.50	1.9	0.099 J J	0.42
Cadmium	7440-43-9	2.5	4.3	0.51	0.27	0.25	0.24 J	ND	0.36	0.33	0.78	ND	0.79
Calcium	7440-70-2	NS	NS	4450 B J	58300 B J	70800 B F2 J	74000 B J	5500 B ^+	51600 B J	41800 B	9390 B	21500 B J	29300 B
Chromium	7440-47-3	30	180	21.7	16.6	15.8	20.6	26.4	14.2	18.1	20.2	4.1 J	13.6
Cobalt	7440-48-4	NS	NS	11.5	7.6	7.0	7.4	17.7	5.3	6.5	13.4	2.2 J	5.1
Copper	7440-50-8	50	270	24.8	14.8	14.5	16.1	20.9	42.1	**64.2**	**537**	46.9 J	**240 F2**
Iron	7439-89-6	NS	NS	20500 J	16300 J	16300 J	17200 J	24900 ^+	12900 J	18600	29300	59400 J	12300
Lead	7439-92-1	63	400	34.4	14.7	14.5	18.3	25.1 J	**269**	**278 J**	**1730 J**	**499 J**	**517 F2 J**
Magnesium	7439-95-4	NS	NS	5330 J	24000 J	30700 F2 J	28200 J	6030 B	8330 J	13800 B	1100 B	2130 B J	11200 B
Manganese	7439-96-5	1600	2000	195 B J	398 B J	432 B F2 J	434 B J	300 B ^+	156 B J	370 B	67.7 B	508 B J	240 B
Nickel	7440-02-0	30	310	**32.2**	18.3	16.7	18.0	**45.8**	16.1	19.4	**35.5**	10.4 J J	12.6
Potassium	7440-09-7	NS	NS	2190 J+	3860 J+	3870 F1 F2 J+	4650 J+	3100 J+	1540 J+	2090 J+	797 J+	548 J+	1640 F1 J+
Selenium	7782-49-2	3.9[a]	180	ND	ND	ND	ND	2.2 J	ND	1.7 J	**18.4**	**6.3 J J**	1.8 J
Silver	7440-22-4	2	180	ND	ND	ND	ND	ND	0.38 J	0.31 J	1.9	0.61 J J	0.74
Sodium	7440-23-5	NS	NS	422 B	481 B	640 B	720 B	392 B	621 B	449 B	1020 B	2970 B J	259 B
Vanadium	7440-62-2	NS	NS	30.6	24.9	24.2	27.0	34.5	16.5	22.2	33.6	5.2 J	19.1
Zinc	7440-66-6	109	10000	88.3 J-	61.7 J-	61.5 F1 J-	55.8 J-	99.4 J	**156 J-**	**174 J**	**637 J**	**594 J**	**240 F2 J**
Organochlorine Pesticides		ug/kg	ug/kg			ug/kg	ug/kg						ug/kg
4,4'-DDT	50-29-3	3.3	7900			ND F2	ND						**18 J F1 J+**
Endrin ketone	53494-70-5	NS	NS			ND	ND						23 F1 J-
Methoxychlor	72-43-5	1.2	NS			ND	ND						~~24 F1~~ R
Polychlorinated Biphenyls (PCBs)		mg/kg	mg/kg		mg/kg	mg/kg	mg/kg				mg/kg	mg/kg	mg/kg
No PCBs Detected	N/A	N/A	N/A		ND	ND	ND				ND	ND	ND
Semivolatile Organic Compounds (SVOCs)		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
2-Methylnaphthalene	91-57-6	0.41	NS	ND	ND	ND	ND	ND	**330 J**	**290 J**	ND	ND	**810 J F2 J**
Acenaphthene	83-32-9	20000	100000	ND	ND	ND	ND	ND	500 J	1100	ND	690 J	2400 F1 F2 J
Acenaphthylene	208-96-8	100000	100000	ND	ND	ND	ND	ND	ND	520 J	ND	ND	700 J
Anthracene	120-12-7	100000	100000	ND	ND	ND F1	ND	ND	860 J	3100	ND	1800 J	5700 F1 F2 J-
Benzo[a]anthracene	56-55-3	1000	1000	ND	ND	ND F1	ND	ND	**1400**	**6200**	ND	**2700**	**9400 F2 J**
Benzo[a]pyrene	50-32-8	1000	1000	ND	ND	ND F1	ND	ND	**1300**	**5300**	ND	**2800**	**7800 F1 F2 J-**
Benzo[b]fluoranthene	205-99-2	1000	1000	ND	ND	ND F2	32 J	ND	**1300**	**5700**	ND	**2300**	**7800 F1 F2 J-**
Benzo[g,h,i]perylene	191-24-2	100000	100000	ND	ND	ND F2	ND	ND	750 J	3100	15000 J	1600 J	4200 F1 F2 J-
Benzo[k]fluoranthene	207-08-9	800	3900	ND	ND	ND	ND	ND	530 J	**3500**	ND	**1300 J**	**4400 F1 F2 J-**
Biphenyl	92-52-4	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	180 J
Carbazole	86-74-8	NS	NS	ND	ND	ND	ND	ND	270 J	1100	ND	460 J	1900 F1 F2 J-
Chrysene	218-01-9	1000	3900	ND	ND	ND F1	ND	ND	**1400**	**6100**	**7800 J**	**2800**	**9000 F2 J**
Dibenz(a,h)anthracene	53-70-3	330	330	ND	ND	ND F2	ND	ND	260 J	**1100**	**7000 J**	**540 J**	ND F1
Dibenzofuran	132-64-9	7000	59000	ND	ND	ND	ND	ND	230 J	900 J	ND	470 J	1700 F1 F2 J
Fluoranthene	206-44-0	100000	100000	ND	ND	ND F1	64 J	ND	3000	15000	ND	5000	20000 F2 J
Fluorene	86-73-7	30000	100000	ND	ND	ND F2	ND	ND	460 J	1400	ND	1000 J	2400 F1 F2 J

Table C - Summary of Analytical Data (Detections Only) - Deep Soil Samples

Remedial Investigation Report - Heritage Point - 130 Main Street, City of Buffalo, Erie County, New York

Indeno[1,2,3-cd]pyrene	193-39-5	500	500	ND	ND	ND F1 F2	ND	ND	**570 J**	**3000**	ND	**1200 J**	**3700 F1 F2 J-**
Naphthalene	91-20-3	12000	100000	ND	ND	ND	ND	ND	2100	520 J	ND	ND	1000
Phenanthrene	85-01-8	100000	100000	ND	ND	ND F1 F2	46 J	ND	2900	11000	ND	5000	19000 F2 J
Pyrene	129-00-0	100000	100000	ND	ND	ND F1	50 J	ND	2500	12000	7300 J	4300	18000 F2 J
Total Detected SVOCs	N/A	NS	NS	0	0	0	192	0	20660	80930	37100	33960	120090
Tentatively Identified SVOCs (TICs)													
Total Number of SVOC TICs	*N/A*	*NS*	*NS*	*18*	*6*	*3*	*1*	*5*	*19*	*16*	*5*	*12*	*20*
Total SVOC TIC Concentration	*N/A*	*NS*	*NS*	*15040*	*1340*	*4890*	*220*	*6020*	*51300*	*20010*	*132600*	*52900*	*55700*
Total SVOCs	N/A	NS	NS	15040	1340	4890	412	6020	71960	100940	169700	86860	175790
Volatile Organic Compounds (VOCs)		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
2-Butanone (MEK)	78-93-3	120[a]	100000	24 J	4.4 J	ND F1 UJ	ND	4.5 J	ND	4.2 J H J	ND	ND	ND H F2 F1 UJ
Acetone	67-64-1	50[a]	100000	**85**	27	8.6 J	12 J	29	ND	23 H J	ND	ND	ND H F2 UJ
Ethylbenzene	100-41-4	1000	41000	ND	ND	ND F1 UJ	ND	ND	**2000**	ND H UJ	ND	ND	ND H F2 F1 UJ
Methylcyclohexane	108-87-2	NS	NS	ND	ND	ND	ND	ND	ND	ND H UJ	1800	1900	ND H F2 UJ
Toluene	108-88-3	700	100000	ND	ND	ND	ND	ND	200 J	ND H UJ	ND	ND	ND H F2 UJ
Xylenes, Total	1330-20-7	260	100000	ND	ND	ND F1 UJ	ND	ND	**8200**	ND H UJ	ND	ND	ND H F2 F1 UJ
Total Detected VOCs	N/A	NS	NS	109	31.4	8.6	12	33.5	10400	27.2	1800	1900	0
Tentatively Identified VOCs (TICs)													
Total Number of VOC TICs	*N/A*	*NS*	*NS*	*0*	*0*	*0*	*0*	*0*	*9*	*3*	*10*	*2*	*0*
Total VOC TIC Concentration	*N/A*	*NS*	*NS*	*0*	*0*	*0*	*0*	*0*	*60100*	*98*	*17800*	*9300*	*0*
Total VOCs	N/A	NS	NS	109	31.4	8.6	12	33.5	70500	125.2	19600	11200	0

COMMON ANALYTICAL NOTES, LEGEND, AND GLOSSARY
FOR DATA SUMMARY TABLES

ND - Not Detected at the reporting limit (or MDL or EDL, if shown)

SCO - Soil Cleanup Objective per 6 NYCRR 375, Tables 375-6.8(a) and (b), or screening value per October 2020 "Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs"

GWS - Groundwater effluent (Class GA) guidance value or standard per NYSDEC Technical and Operational Guidance Series (1.1.1), or screening value per October 2020 "Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs"

NS - No SCO or GWS for this compound

Thick-Lined Box + Bold	*Compound concentration exceeds the Unrestricted Use SCO*
Box + Bold + Shading	*Compound concentration exceeds the Restricted Residential Use SCO or the applicable GWS standard value*

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

J- - Analyte is present. Reported value may be biased low and associated with a higher level of uncertainty than is normally expected with the analytical method.

J+ - Analyte is present. Reported value may be biased high and associated with a higher level of uncertainty than is normally expected with the analytical method.

UJ - Not detected, quantitation limit may be inaccurate or imprecise.

U - Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.

B - Compound was found in the blank and sample.

R - Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample. Supporting data or information is necessary to confirm the result.

N - Tentative identification. Analyte is considered present. Special methods may be needed to confirm its presence or absence during future sampling efforts.

F1 - MS and/or MSD recovery exceeds control limits.

F2 - MS/MSD relative percent difference exceeds control limits.

**+ - LCS and/or LCSD is outside acceptance limits, high biased*

^6+ - Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased

Note: Descriptions of additional analytical notes can be found in the laboratory analysis reports and Data Usabilty Summary Report

TABLE 1

PERIMETER SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	P-A1	P-A2	P-A3	P-A4	P-A5	P-A6	P-A7	P-B1	P-B7	P-C1	P-D1	P-D1-2	P-D2
Sample Depth						2'	1-2'	7-8'	8'	10'	5'	5-8'	4-5'	5-6'	5'	5'	5'	12'
Date Sampled						12/07/2021	12/07/2021	12/06/2021	12/06/2021	12/06/2021	12/06/2021	12/06/2021	12/07/2021	12/06/2021	12/07/2021	12/06/2021	12/06/2021	12/06/2021
Sample Matrix						SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
VOCs - ug/kg																		
1,1,1-Trichloroethane	680	100000	100000	500000	1000000	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND F1 vs	ND vs	ND vs	ND vs	ND vs	ND vs
1,1,2,2-Tetrachloroethane						ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND F1 vs	ND vs	ND vs	ND vs	ND vs	ND vs
1,1,2-Trichloro-1,2,2-trifluoroethane						ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs
1,1,2-Trichloroethane						ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs
1,1-Dichloroethane	270	19000	26000	240000	480000	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs
1,1-Dichloroethene	330	100000	100000	500000	1000000	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs
1,2,4-Trichlorobenzene						ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND F1 F2 vs	ND vs	ND vs	ND vs	ND vs	ND vs
1,2-Dibromo-3-Chloropropane						ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND F1 vs	ND vs	ND vs	ND vs	ND vs	ND vs
1,2-Dibromoethane						ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND F1 vs	ND vs	ND vs	ND vs	ND vs	ND vs
1,2-Dichlorobenzene	1100	100000	100000	500000	1000000	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND F1 F2 vs	ND vs	ND vs	ND vs	ND vs	ND vs
1,2-Dichloroethane		2300	3100	30000	60000	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND F1 vs	ND vs	ND vs	ND vs	ND vs	ND vs
1,2-Dichloropropane						ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND F1 vs	ND vs	ND vs	ND vs	ND vs	ND vs
1,3-Dichlorobenzene	2400	17000	49000	280000	560000	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND F1 F2 vs	ND vs	ND vs	ND vs	ND vs	ND vs
1,4-Dichlorobenzene	1800	9800	13000	130000	250000	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND F1 F2 vs	ND vs	ND vs	ND vs	ND vs	ND vs
2-Butanone (MEK)	120	100000	100000	500000	1000000	ND vs	ND vs	ND *+	ND vs	ND vs	ND vs	ND vs	ND F1 vs	ND vs	ND vs	ND vs	ND vs	ND vs
2-Hexanone						ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs
4-Methyl-2-pentanone (MIBK)						ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs
Acetone	50	100000	100000	500000	1000000	ND vs	ND vs	ND vs	**10 Jvs**	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	**18 Jvs**
Benzene	60	2900	4800	44000	89000	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND F1 vs	ND vs	ND vs	ND vs	ND vs	ND vs
Bromodichloromethane						ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs
Bromoform						ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs
Bromomethane						ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs
Carbon disulfide						ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND F1 vs	ND vs	ND vs	ND vs	ND vs	ND vs
Carbon tetrachloride	760	1400	2400	22000	44000	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs
Chlorobenzene	1100	100000	100000	500000	1000000	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND F1 vs	ND vs	ND vs	ND vs	ND vs	ND vs
Chloroethane						ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs
Chloroform	370	10000	49000	350000	700000	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND F1 vs	ND vs	ND vs	ND vs	ND vs	ND vs
Chloromethane						ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs
cis-1,2-Dichloroethene	250	59000	100000	500000	1000000	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND F1 vs	ND vs	ND vs	ND vs	ND vs	ND vs
cis-1,3-Dichloropropene						ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND F1 vs	ND vs	ND vs	ND vs	ND vs	ND vs
Cyclohexane						ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND F1 F2 vs	ND vs	ND vs	ND vs	ND vs	ND vs
Dibromochloromethane						ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs
Dichlorodifluoromethane						ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs
Ethylbenzene	1000	30000	41000	390000	780000	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND F1 vs	ND vs	ND vs	ND vs	ND vs	ND vs
Isopropylbenzene						ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND F1 F2 vs	ND vs	ND vs	ND vs	ND vs	ND vs
Methyl acetate						ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs
Methyl tert-butyl ether	930	62000	100000	500000	1000000	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs
Methylcyclohexane						ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND F1 F2 vs	ND vs	ND vs	ND vs	ND vs	ND vs
Methylene Chloride	50	51000	100000	500000	1000000	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs
Styrene						ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND F1 vs	ND vs	ND vs	ND vs	ND vs	ND vs
Tetrachloroethene	1300	5500	19000	150000	300000	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND F1 F2 vs	ND vs	ND vs	ND vs	ND vs	ND vs
Toluene	700	100000	100000	500000	1000000	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND F1 vs	ND vs	ND vs	ND vs	ND vs	ND vs
trans-1,2-Dichloroethene	190	100000	100000	500000	1000000	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND F1 vs	ND vs	ND vs	ND vs	ND vs	ND vs
trans-1,3-Dichloropropene						ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs
Trichloroethene	470	10000	21000	200000	400000	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND F1 vs	ND vs	ND vs	ND vs	ND vs	ND vs
Trichlorofluoromethane						ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs

TABLE 1

PERIMETER SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

C&S COMPANIES

Location ID Sample Depth Date Sampled Sample Matrix	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	P-A1 2' 12/07/2021 SO	P-A2 1-2' 12/07/2021 SO	P-A3 7-8' 12/06/2021 SO	P-A4 8' 12/06/2021 SO	P-A5 10' 12/06/2021 SO	P-A6 5' 12/06/2021 SO	P-A7 5-8' 12/06/2021 SO	P-B1 4-5' 12/07/2021 SO	P-B7 5-6' 12/06/2021 SO	P-C1 5' 12/07/2021 SO	P-D1 5' 12/06/2021 SO	P-D1-2 5' 12/06/2021 SO	P-D2 12' 12/06/2021 SO
Vinyl chloride	20	210	900	13000	27000	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs
Xylenes, Total	260	100000	100000	500000	1000000	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND vs	ND F1 vs	ND vs	ND vs	ND vs	ND vs	ND vs
PFAS - ng/g																		
Perfluorohexanoic acid						ND	ND	ND	ND	ND	ND	ND	ND H	ND	ND	ND	ND	ND
Perfluoroheptanoic acid						ND	ND	ND	ND	ND	ND	ND	ND H	ND	ND	ND	ND	ND
Perfluorooctanoic acid (PFOA)	0.66	6.6	33	500	600	ND	ND	ND	ND	ND	**0.23 J**	ND	ND H	ND	ND	ND	ND	ND
Perfluorononanoic acid						ND	ND	ND	ND	ND	ND	ND	ND H	ND	ND	ND	ND	ND
Perfluorodecanoic acid						ND	ND	ND	ND	ND	ND	ND	ND H	ND	ND	ND	ND	ND
Perfluorotridecanoic acid						ND	ND	ND	ND	ND	ND	ND	ND H	ND	ND	ND	ND	ND
Perfluorotetradecanoic acid						ND	ND	ND	ND	ND	ND	ND	ND H	ND	ND	ND	ND	ND
Perfluorobutanesulfonic acid						ND	ND	ND	ND	ND	ND	ND	ND H	ND	ND	ND	ND	ND
Perfluorohexanesulfonic acid						ND	ND	ND	ND	ND	ND	ND	ND H	ND	ND	ND	ND	ND
Perfluorooctanesulfonic acid (PFOS)	0.88	8.8	44	440	440	ND	ND	ND	ND	ND	ND	ND	ND H	ND	ND	ND	ND	ND
NEtFOSAA						ND	ND	ND	ND	ND	ND	ND	ND H	ND	ND	ND	ND	ND
NMeFOSAA						ND	ND	ND	ND	ND	ND	ND	ND H	ND	ND	ND	ND	ND
Perfluoroheptanesulfonic acid						ND	ND	ND	ND	ND	ND	ND	ND H	ND	ND	ND	ND	ND
Perfluorodecanesulfonic acid						ND	ND	ND	ND	ND	ND	ND	ND H	ND	ND	ND	ND	ND
Perfluorooctanesulfonamide						ND	ND	ND	ND	ND	ND	ND	ND H	ND	ND	ND	ND	ND
Perfluorobutanoic acid						ND	ND	ND	ND	ND	ND	ND	ND H	ND	ND	ND	ND	ND
Perfluoroundecanoic acid						ND	ND	ND	ND	ND	ND	ND	ND H	ND	ND	ND	ND	ND
Perfluorododecanoic acid						ND	ND	ND	ND	ND	ND	ND	ND H	ND	ND	ND	ND	ND
6:2 Fluorotelomer sulfonic acid						ND	ND	ND	ND	ND	ND	ND	ND H	ND	ND	ND	ND	ND
8:2 Fluorotelomer sulfonic acid						ND	ND	ND	ND	ND	ND	ND	ND H	ND	ND	ND	ND	ND
Perfluoropentanoic acid						ND	ND	ND	ND	ND	ND	ND	ND H	ND	ND	ND	ND	ND
SVOCs - ug/kg																		
Biphenyl						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis (2-chloroisopropyl) ether						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
2,4,6-Trichlorophenol						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol						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 *+
2,6-Dinitrotoluene						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND *+
2-Chloronaphthalene						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	100	9800	13000	130000	250000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene						ND	**320 J**	ND	**260 J**	ND	ND	ND	ND	**55 J**	**48 J**	ND	ND	ND
2-Methylphenol	330	100000	100000	500000	1000000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND *+
2-Nitrophenol						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND *+
4,6-Dinitro-2-methylphenol						ND *+	ND *+	ND *+	ND *+	ND *+	ND *+	ND *+	ND *+	ND *+	ND *+	ND *+	ND	ND *+
4-Bromophenyl phenyl ether						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 1

PERIMETER SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID / Sample Depth / Date Sampled / Sample Matrix	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	P-A1 2' 12/07/2021 SO	P-A2 1-2' 12/07/2021 SO	P-A3 7-8' 12/06/2021 SO	P-A4 8' 12/06/2021 SO	P-A5 10' 12/06/2021 SO	P-A6 5' 12/06/2021 SO	P-A7 5-8' 12/06/2021 SO	P-B1 4-5' 12/07/2021 SO	P-B7 5-6' 12/06/2021 SO	P-C1 5' 12/07/2021 SO	P-D1 5' 12/06/2021 SO	P-D1-2 5' 12/06/2021 SO	P-D2 12' 12/06/2021 SO
4-Chloroaniline						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol	330	34000	100000	500000	1000000	ND	ND	ND	**130 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND *+
4-Nitrophenol						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	20000	100000	100000	500000	1000000	ND	**700 J**	**370 J**	**710 J**	ND	ND	ND	ND F1	**210 J**	**68 J**	ND	ND	ND
Acenaphthylene	100000	100000	100000	500000	1000000	ND	**520 J**	**330 J**	ND	ND	ND	ND	ND	**78 J**	**69 J**	ND	**37 J**	ND
Acetophenone						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	100000	100000	100000	500000	1000000	ND	**2100**	**1400**	**1400**	ND	**66 J**	ND	ND F1 F2	**630**	**250**	ND	**120 J**	ND
Atrazine						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzaldehyde						ND	ND	ND	ND	ND	ND	ND	ND F2	ND	ND	ND	ND	ND
Benzo[a]anthracene	1000	1000	1000	5600	11000	**71 J**	**3900**	**3500**	**2200**	ND	**180 J**	**24 J**	**430 JF1F2**	**1500**	**850**	ND	**350**	ND
Benzo[a]pyrene	1000	1000	1000	1000	1100	**53 J**	**3000**	**2900**	**1700**	ND	**150 J**	ND	**350 JF1F2**	**1200**	**700**	ND	**300**	ND
Benzo[b]fluoranthene	1000	1000	1000	5600	11000	**75 J**	**3800**	**3700**	**2100**	ND	**200 J**	ND	**460 JF1F2**	**1400**	**940**	ND	**400**	ND *+
Benzo[g,h,i]perylene	100000	100000	100000	500000	1000000	**34 J**	**1700**	**1800**	**900 J**	ND	**87 J**	ND	**230 JF1F2**	**720**	**450**	ND	**240**	ND
Benzo[k]fluoranthene	800	1000	3900	56000	110000	ND	**1400**	**1300**	**760 J**	ND	**72 J**	ND	**180 JF1F2**	**550**	**330**	ND	**150 J**	ND *+
Bis(2-chloroethoxy)methane						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate						ND	ND	ND	ND	ND	ND	ND	ND F1	ND	ND	ND	ND	ND *+
Caprolactam						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole						ND	**850 J**	**420 J**	**620 J**	ND	ND	ND	ND F1 F2	**210 J**	**87 J**	ND	**42 J**	ND
Chrysene	1000	1000	3900	56000	110000	**100 J**	**3500**	**3300**	**2100**	ND	**170 J**	ND	**440 JF1F2**	**1300**	**790**	**62 J**	**360**	ND
Di-n-butyl phthalate						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate						ND	ND	ND	ND	ND	ND	ND	ND F1	ND	ND	ND	ND	ND *+
Dibenz(a,h)anthracene	330	330	330	560	1100	ND	**420 J**	**410 J**	**240 J**	ND	ND	ND	ND F2	**170 J**	**130 J**	ND	**63 J**	ND
Dibenzofuran	7000	14000	59000	350000	1000000	ND	**710 J**	**270 J**	**520 J**	ND	ND	ND	ND F1 F2	**120 J**	**65 J**	ND	**26 J**	ND
Diethyl phthalate						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	100000	100000	100000	500000	1000000	**150 J**	**8100**	**7000**	**4700**	ND	**400**	**50 J**	**840 JF1F2**	**2700**	**1700**	**27 J**	**690**	ND
Fluorene	30000	100000	100000	500000	1000000	ND	**1100**	**460 J**	**730 J**	ND	ND	ND	ND F1 F2	**230**	**100 J**	ND	**40 J**	ND
Hexachlorobenzene	330	330	1200	6000	12000	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
Hexachlorocyclopentadiene						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
Indeno[1,2,3-cd]pyrene	500	500	500	5600	11000	**41 J**	**2000**	**2100**	**1100**	ND	**110 J**	ND	**270 JF1F2**	**850**	**530**	ND	**210**	ND
Isophorone						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	12000	100000	100000	500000	1000000	ND	**400 J**	**160 J**	**350 J**	ND	ND	ND	ND	**73 J**	**54 J**	ND	ND	ND
Nitrobenzene						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**27 J**
Pentachlorophenol	800	2400	6700	6700	55000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	100000	100000	100000	500000	1000000	**140 J**	**8000**	**5200**	**5000**	ND	**220**	**75 J**	**710 JF1F2**	**2200**	**1000**	**40 J**	**440**	ND
Phenol	330	100000	100000	500000	1000000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	100000	100000	100000	500000	1000000	**130 J**	**6700**	**6300**	**3900**	ND	**310**	**41 J**	**720 JF1F2**	**2400**	**1400**	**26 J**	**580**	ND
Pesticides - ug/kg																		
4,4'-DDD	3.3	2600	13000	92000	180000	ND	ND	ND	**1.6 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 1

PERIMETER SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	P-A1	P-A2	P-A3	P-A4	P-A5	P-A6	P-A7	P-B1	P-B7	P-C1	P-D1	P-D1-2	P-D2
Sample Depth						2'	1-2'	7-8'	8'	10'	5'	5-8'	4-5'	5-6'	5'	5'	5'	12'
Date Sampled						12/07/2021	12/07/2021	12/06/2021	12/06/2021	12/06/2021	12/06/2021	12/06/2021	12/07/2021	12/06/2021	12/07/2021	12/06/2021	12/06/2021	12/06/2021
Sample Matrix						SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
4,4'-DDE	3.3	1800	8900	62000	120000	ND	ND	ND	**0.45 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	3.3	1700	7900	47000	94000	**7.8 J**	**0.94 J**	**20 J**	**1.5 J**	ND	**1.0 J**	**9.3 J**	ND F1	**18 J**	**17 J**	**0.80 J**	ND	ND
Aldrin	5	19	97	680	1400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	20	97	480	3400	6800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-Chlordane	94	910	4200	24000	47000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	36	72	360	3000	14000	ND	**1.5 J**	ND	**0.89 J**	ND	**1.8 J**	ND	ND	ND	ND	**1.7 J**	ND	ND
delta-BHC	40	100000	100000	500000	1000000	ND	ND	ND	ND	**0.45 J**	ND	ND	ND	**8.8 J**	ND	ND	ND	ND
Dieldrin	5	39	200	1400	2800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	2400	4800	24000	200000	920000	ND	ND	ND	**0.77 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	2400	4800	24000	200000	920000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	2400	4800	24000	200000	920000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.2 J**	ND
Endrin	14	2200	11000	89000	410000	ND	ND	ND	**0.53 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde						ND	ND	ND	**1.3 JB**	ND	ND	ND	ND	ND	ND	**0.62 JB**	ND	ND
Endrin ketone						ND	ND	ND	ND	ND	ND	ND	ND F1	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	100	280	1300	9200	23000	ND	ND	ND	**0.67 J**	ND	**0.90 J**	ND	ND	ND	ND	ND	ND	ND
trans-Chlordane						ND	ND	ND	**4.9**	ND	**8.7**	ND	ND F1	ND	ND	ND	**4.5 J**	ND
Heptachlor	42	420	2100	15000	29000	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
Methoxychlor						**8.1 J**	**1.2 J**	**18 J**	**2.9**	ND	**1.4 J**	**9.7 J**	ND F1	**22 J**	**17 J**	**1.0 J**	ND	ND
Toxaphene						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCBs - mg/kg																		
PCB-1016	0.1	1	1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	0.1	1	1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	0.1	1	1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	0.1	1	1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	0.1	1	1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	0.1	1	1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	0.1	1	1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Herbicidies - ug/kg																		
2,4,5-T						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silvex (2,4,5-TP)	3800	58000	100000	500000	1000000	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
Dichlorprop						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Picloram						ND *+	ND *+	ND *+	ND *+	ND *+	ND	ND	ND *+	ND	ND *+	ND *+	ND	ND
Pentachlorophenol	800	2400	6700	6700	55000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals - mg/kg																		
Aluminum						**2700**	**4850**	**7650**	**10600**	**15700**	**13600**	**5570**	**8980 F1F2**	**15300**	**4110**	**8440**	**6010**	**6060**
Mercury	0.18	0.81	0.81	2.8	5.7	**0.060**	**0.51**	**0.46**	**0.41**	**0.23**	**0.017 J**	**0.078**	**0.43 F1**	**0.029**	**0.14**	**0.020 J**	**0.086**	**0.041**
Antimony						ND	**2.0 J**	**3.0 J**	**1.2 J**	**1.1 J**	ND F1	ND	ND F1 F2	ND	**0.51 J**	**1.7 J**	ND	ND
Arsenic	13	16	16	16	16	**3.4**	**7.0**	**6.7**	**4.7**	**8.2**	**3.5**	**3.5**	**3.6**	**4.3**	**4.4**	**8.1**	**3.8**	**7.4**
Barium	350	350	400	400	10000	**13.6**	**68.6**	**100**	**60.3**	**90.5**	**70.1 F1**	**47.7**	**64.2 F1F2**	**79.5**	**37.2**	**84.0**	**37.4**	**156**
Beryllium	7.2	14	72	590	2700	**0.15 J**	**0.26**	**0.40**	**0.52**	**0.73**	**0.57**	**0.51**	**1.2**	**0.65**	**0.21 J**	**0.50**	**0.30**	**0.30**
Cadmium	2.5	2.5	4.3	9.3	60	ND	**0.21 J**	**0.43**	**0.36**	**0.37**	**0.27**	**0.35**	**0.25**	**0.30**	**0.073 J**	**0.25**	**0.17 J**	**0.15 J**
Calcium						**304000 B**	**52900 B**	**57300 B**	**39200 B**	**4260 B**	**52200 B**	**109000 B**	**229000 F2B**	**69300 B**	**234000 B**	**153000 B**	**186000 B**	**46400 B**
Chromium	30	36	180	1500	6800	**6.1**	**11.1**	**15.8**	**14.8**	**20.2**	**17.0**	**8.1**	**15.9 F1**	**19.4**	**10.1**	**14.6**	**8.9**	**7.6**
Cobalt						**1.8**	**4.7**	**5.5**	**6.8**	**11.8**	**6.9**	**1.9**	**2.9**	**7.9**	**2.2**	**5.3**	**3.3**	**3.0**

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HERITAGE POINT SITE
BCP SITE #C915347

Location ID / Sample Depth / Date Sampled / Sample Matrix	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	P-A1 2' 12/07/2021 SO	P-A2 1-2' 12/07/2021 SO	P-A3 7-8' 12/06/2021 SO	P-A4 8' 12/06/2021 SO	P-A5 10' 12/06/2021 SO	P-A6 5' 12/06/2021 SO	P-A7 5-8' 12/06/2021 SO	P-B1 4-5' 12/07/2021 SO	P-B7 5-6' 12/06/2021 SO	P-C1 5' 12/07/2021 SO	P-D1 5' 12/06/2021 SO	P-D1-2 5' 12/06/2021 SO	P-D2 12' 12/06/2021 SO
Copper	50	270	270	270	10000	**8.1**	**28.1**	**56.2**	**19.9**	**23.7**	**16.3**	**9.6**	**31.0** F1F2	**16.7**	**15.2**	**33.1**	**13.4**	**7.4**
Iron						**4530** ^+	**15500** ^+	**16300** ^+	**13400** ^+	**25200**	**16300**	**5270**	**7250** ^+F1F2	**18200**	**6130** ^+	**12400** ^+	**7690**	**25700**
Lead	63	400	400	1000	3900	**13.0**	**384**	**282**	**93.3**	**24.1**	**16.6** F1	**34.5**	**81.3** F1F2	**19.6**	**48.1**	**147**	**29.6**	**25.2**
Magnesium						**11200**	**4750**	**10100**	**16600**	**4270**	**19200**	**6060**	**11500** F2	**21400**	**10400**	**11000**	**27200**	**8260**
Manganese	1600	2000	2000	10000	10000	**152** B	**349** B	**301** B	**264** B	**416** B	**363** B	**593** B	**405** BF2	**415** B	**163** B	**303** B	**344** B	**206** B
Nickel	30	140	310	310	10000	**7.2**	**14.2**	**16.4**	**15.4**	**28.9**	**17.2**	**8.4**	**10.0** F2	**20.0**	**9.8**	**15.7**	**9.9**	**8.4**
Potassium						**1300**	**1030**	**1690**	**2720**	**2980**	**3110** F1	**1260**	**1630**	**3730**	**1700**	**2320**	**1950**	**938**
Selenium	3.9	36	180	1500	6800	ND	**1.3** J	**1.5** J	**1.1** J	ND	ND	ND	ND	ND	ND	**0.70** J	ND	ND
Silver	2	36	180	1500	6800	ND	ND	**0.31** J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium						**172** JB	**123** JB	**205** B	**244** B	**153** J	**230**	**367**	**346** B	**247**	**304** B	**245** B	**270**	**551**
Thallium						ND	ND	ND	ND	**0.49** J	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium						**7.4**	**12.4**	**17.8**	**22.3**	**31.0**	**27.3**	**9.3**	**12.5**	**31.1**	**10.9**	**18.6**	**12.8**	**11.7**
Zinc	109	2200	10000	10000	10000	**16.5**	**145**	**284**	**155**	**76.4**	**61.8**	**75.4**	**91.6** F1F2	**63.6**	**42.5**	**91.1**	**44.8**	**28.8**

Analytical Data compared to Part 375 Standards and DER-10

ND indicates analyte was not detected.

Blank space indicates analyte was not analyzed for in that sample.

*+ - LCS and/or LCSD is outside acceptance limits, high biased.

^+ - Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

B - Compound was found in the blank and sample.

F1 - MS and/or MSD recovery exceeds control limits.

F2 - MS/MSD RPD exceeds control limits

H - Sample was prepped or analyzed beyond the specified holding time

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

vs - Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.

TABLE 1

PERIMETER SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	P-D3		P-D4		P-D5		P-D6		P-D7		DUP-120621	
Sample Depth						8'		2'		5'		6-7'		5'		5-8'	
Date Sampled						12/06/2021		12/06/2021		12/06/2021		12/06/2021		12/06/2021		12/06/2021	
Sample Matrix						SO		SO		SO		SO		SO		SO	
VOCs - ug/kg																	
1,1,1-Trichloroethane	680	100000	100000	500000	1000000	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
1,1,2,2-Tetrachloroethane						ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
1,1,2-Trichloro-1,2,2-trifluoroethane						ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
1,1,2-Trichloroethane						ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
1,1-Dichloroethane	270	19000	26000	240000	480000	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
1,1-Dichloroethene	330	100000	100000	500000	1000000	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
1,2,4-Trichlorobenzene						ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
1,2-Dibromo-3-Chloropropane						ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
1,2-Dibromoethane						ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
1,2-Dichlorobenzene	1100	100000	100000	500000	1000000	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
1,2-Dichloroethane		2300	3100	30000	60000	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
1,2-Dichloropropane						ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
1,3-Dichlorobenzene	2400	17000	49000	280000	560000	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
1,4-Dichlorobenzene	1800	9800	13000	130000	250000	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
2-Butanone (MEK)	120	100000	100000	500000	1000000	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
2-Hexanone						ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
4-Methyl-2-pentanone (MIBK)						ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
Acetone	50	100000	100000	500000	1000000	ND	vs	**7.0**	**Jvs**	ND	vs	ND	vs	ND	vs	ND	vs
Benzene	60	2900	4800	44000	89000	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
Bromodichloromethane						ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
Bromoform						ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
Bromomethane						ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
Carbon disulfide						ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
Carbon tetrachloride	760	1400	2400	22000	44000	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
Chlorobenzene	1100	100000	100000	500000	1000000	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
Chloroethane						ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
Chloroform	370	10000	49000	350000	700000	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
Chloromethane						ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
cis-1,2-Dichloroethene	250	59000	100000	500000	1000000	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
cis-1,3-Dichloropropene						ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
Cyclohexane						ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
Dibromochloromethane						ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
Dichlorodifluoromethane						ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
Ethylbenzene	1000	30000	41000	390000	780000	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
Isopropylbenzene						ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
Methyl acetate						ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
Methyl tert-butyl ether	930	62000	100000	500000	1000000	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
Methylcyclohexane						ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
Methylene Chloride	50	51000	100000	500000	1000000	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
Styrene						ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
Tetrachloroethene	1300	5500	19000	150000	300000	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
Toluene	700	100000	100000	500000	1000000	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
trans-1,2-Dichloroethene	190	100000	100000	500000	1000000	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
trans-1,3-Dichloropropene						ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
Trichloroethene	470	10000	21000	200000	400000	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
Trichlorofluoromethane						ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs

TABLE 1

PERIMETER SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	P-D3		P-D4		P-D5		P-D6		P-D7		DUP-120621	
Sample Depth						8'		2'		5'		6-7'		5'		5-8'	
Date Sampled						12/06/2021		12/06/2021		12/06/2021		12/06/2021		12/06/2021		12/06/2021	
Sample Matrix						SO		SO		SO		SO		SO		SO	
Vinyl chloride	20	210	900	13000	27000	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
Xylenes, Total	260	100000	100000	500000	1000000	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs	ND	vs
PFAS - ng/g																	
Perfluorohexanoic acid						ND		ND		ND		ND		ND		ND	
Perfluoroheptanoic acid						ND		ND		ND		ND		ND		ND	
Perfluorooctanoic acid (PFOA)	0.66	6.6	33	500	600	ND		ND		ND		ND		ND		**0.25**	J
Perfluorononanoic acid						ND		ND		ND		ND		ND		ND	
Perfluorodecanoic acid						ND		ND		ND		ND		ND		ND	
Perfluorotridecanoic acid						ND		ND		ND		ND		ND		ND	
Perfluorotetradecanoic acid						ND		ND		ND		ND		ND		ND	
Perfluorobutanesulfonic acid						ND		ND		ND		ND		ND		ND	
Perfluorohexanesulfonic acid						ND		ND		ND		ND		ND		ND	
Perfluorooctanesulfonic acid (PFOS)	0.88	8.8	44	440	440	ND		ND		ND		ND		ND		**0.24**	J
NEtFOSAA						ND		ND		ND		ND		ND		ND	
NMeFOSAA						ND		ND		ND		ND		ND		ND	
Perfluoroheptanesulfonic acid						ND		ND		ND		ND		ND		ND	
Perfluorodecanesulfonic acid						ND		ND		ND		ND		ND		ND	
Perfluorooctanesulfonamide						ND		ND		ND		ND		ND		ND	
Perfluorobutanoic acid						ND		ND		ND		ND		ND		ND	
Perfluoroundecanoic acid						ND		ND		ND		ND		ND		ND	
Perfluorododecanoic acid						ND		ND		ND		ND		ND		ND	
6:2 Fluorotelomer sulfonic acid						ND		ND		ND		ND		ND		ND	
8:2 Fluorotelomer sulfonic acid						ND		ND		ND		ND		ND		ND	
Perfluoropentanoic acid						ND		ND		ND		ND		ND		ND	
SVOCs - ug/kg																	
Biphenyl						ND		ND		ND		ND		ND		ND	
bis (2-chloroisopropyl) ether						ND		ND		ND		ND		ND		ND	
2,4,5-Trichlorophenol						ND		ND		ND		ND		ND		ND	
2,4,6-Trichlorophenol						ND		ND		ND		ND		ND		ND	
2,4-Dichlorophenol						ND		ND		ND		ND		ND		ND	
2,4-Dimethylphenol						ND		ND		ND		ND		ND		ND	
2,4-Dinitrophenol						ND		ND		ND		ND		ND		ND	
2,4-Dinitrotoluene						ND		ND	*+	ND	*+	ND	*+	ND		ND	
2,6-Dinitrotoluene						ND		ND	*+	ND	*+	ND	*+	ND		ND	
2-Chloronaphthalene						ND		ND		ND		ND		ND		ND	
1,4-Dioxane	100	9800	13000	130000	250000	ND		ND		ND		ND		ND		ND	
2-Chlorophenol						ND		ND		ND		ND		ND		ND	
2-Methylnaphthalene						ND		ND		ND		ND		ND		ND	
2-Methylphenol	330	100000	100000	500000	1000000	ND		ND		ND		ND		ND		ND	
2-Nitroaniline						ND		ND	*+	ND	*+	ND	*+	ND		ND	
2-Nitrophenol						ND		ND		ND		ND		ND		ND	
3,3'-Dichlorobenzidine						ND		ND		ND		ND		ND		ND	
3-Nitroaniline						ND		ND	*+	ND	*+	ND	*+	ND		ND	
4,6-Dinitro-2-methylphenol						ND		ND	*+	ND	*+	ND	*+	ND	*+	ND	
4-Bromophenyl phenyl ether						ND		ND		ND		ND		ND		ND	
4-Chloro-3-methylphenol						ND		ND		ND		ND		ND		ND	

TABLE 1

PERIMETER SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID Sample Depth Date Sampled Sample Matrix	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	P-D3 8' 12/06/2021 SO	P-D4 2' 12/06/2021 SO	P-D5 5' 12/06/2021 SO	P-D6 6-7' 12/06/2021 SO	P-D7 5' 12/06/2021 SO	DUP-120621 5-8' 12/06/2021 SO
4-Chloroaniline						ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether						ND	ND	ND	ND	ND	ND
4-Methylphenol	330	34000	100000	500000	1000000	ND	ND	ND	ND	ND	ND
4-Nitroaniline						ND	ND *+	ND *+	ND *+	ND	ND
4-Nitrophenol						ND	ND	ND	ND	ND	ND
Acenaphthene	20000	100000	100000	500000	1000000	**250** J	ND	ND	ND	**390** J	**36** J
Acenaphthylene	100000	100000	100000	500000	1000000	ND	ND	ND	ND	**180** J	**32** J
Acetophenone						ND	ND	ND	ND	ND	ND
Anthracene	100000	100000	100000	500000	1000000	**550** J	ND	ND	ND	**750** J	**120** J
Atrazine						ND	ND	ND	ND	ND	ND
Benzaldehyde						ND	ND	ND	ND	ND	ND
Benzo[a]anthracene	1000	1000	1000	5600	11000	**1200**	ND	ND	ND	**2200**	**330**
Benzo[a]pyrene	1000	1000	1000	1000	1100	**1000** J	ND	ND	ND	**2000**	**310**
Benzo[b]fluoranthene	1000	1000	1000	5600	11000	**1200**	ND *+	ND *+	ND *+	**2600**	**400**
Benzo[g,h,i]perylene	100000	100000	100000	500000	1000000	**670** J	ND	ND	ND	**1300**	**270**
Benzo[k]fluoranthene	800	1000	3900	56000	110000	**530** J	ND *+	ND *+	ND *+	**910** J	**140** J
Bis(2-chloroethoxy)methane						ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether						ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate						ND	ND	ND	ND	ND	**110** J
Butyl benzyl phthalate						ND	ND *+	ND *+	ND *+	ND	ND
Caprolactam						ND	ND	ND	ND	ND	ND
Carbazole						**180** J	ND	ND	ND	**470** J	**63** J
Chrysene	1000	1000	3900	56000	110000	**1200**	ND	ND	ND	**2300**	**330**
Di-n-butyl phthalate						ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate						ND	ND *+	ND *+	ND *+	ND	ND
Dibenz(a,h)anthracene	330	330	330	560	1100	**230** J	ND	ND	ND	**310** J	**66** J
Dibenzofuran	7000	14000	59000	350000	1000000	ND	ND	ND	ND	**250** J	**26** J
Diethyl phthalate						ND	ND	ND	ND	ND	ND
Dimethyl phthalate						ND	ND	ND	ND	ND	ND
Fluoranthene	100000	100000	100000	500000	1000000	**2500**	**130** J	ND	ND	**4700**	**680**
Fluorene	30000	100000	100000	500000	1000000	**220** J	ND	ND	ND	**340** J	**44** J
Hexachlorobenzene	330	330	1200	6000	12000	ND	ND *+	ND *+	ND *+	ND	ND
Hexachlorobutadiene						ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene						ND	ND	ND	ND	ND	ND
Hexachloroethane						ND	ND	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	500	500	500	5600	11000	**600** J	ND	ND	ND	**1600**	**230**
Isophorone						ND	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine						ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine						ND	ND	ND	ND	ND	ND
Naphthalene	12000	100000	100000	500000	1000000	ND	ND	ND	ND	**240** J	ND
Nitrobenzene						ND	ND	**24** J	**46** J	ND	ND
Pentachlorophenol	800	2400	6700	6700	55000	ND	ND	ND	ND	ND	ND
Phenanthrene	100000	100000	100000	500000	1000000	**2000**	ND	ND	ND	**3600**	**490**
Phenol	330	100000	100000	500000	1000000	ND	ND	ND	ND	ND	ND
Pyrene	100000	100000	100000	500000	1000000	**2000**	ND	ND	ND	**4000**	**560**
Pesticidies - ug/kg											
4,4'-DDD	3.3	2600	13000	92000	180000	**1.1** J	ND	ND	ND	ND	ND

TABLE 1

PERIMETER SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID Sample Depth Date Sampled Sample Matrix	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	P-D3 8' 12/06/2021 SO	P-D4 2' 12/06/2021 SO	P-D5 5' 12/06/2021 SO	P-D6 6-7' 12/06/2021 SO	P-D7 5' 12/06/2021 SO	DUP-120621 5-8' 12/06/2021 SO
4,4'-DDE	3.3	1800	8900	62000	120000	ND	ND	ND	ND	ND	ND
4,4'-DDT	3.3	1700	7900	47000	94000	**0.77 J**	ND	ND	ND	ND	ND
Aldrin	5	19	97	680	1400	ND	ND	ND	ND	ND	ND
alpha-BHC	20	97	480	3400	6800	ND	ND	ND	ND	ND	ND
cis-Chlordane	94	910	4200	24000	47000	ND	ND	ND	ND	ND	ND
beta-BHC	36	72	360	3000	14000	**24 B**	ND	ND	ND	ND	**5.7 JB**
delta-BHC	40	100000	100000	500000	1000000	ND	ND	ND	ND	ND	ND
Dieldrin	5	39	200	1400	2800	ND	ND	ND	ND	ND	ND
Endosulfan I	2400	4800	24000	200000	920000	ND	ND	ND	ND	ND	ND
Endosulfan II	2400	4800	24000	200000	920000	**1.0 J**	ND	ND	ND	ND	ND
Endosulfan sulfate	2400	4800	24000	200000	920000	**1.6 J**	ND	ND	ND	ND	ND
Endrin	14	2200	11000	89000	410000	**1.1 J**	ND	ND	ND	ND	ND
Endrin aldehyde						ND	ND	ND	ND	ND	ND
Endrin ketone						ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	100	280	1300	9200	23000	ND	ND	ND	ND	ND	ND
trans-Chlordane						**0.93 J**	ND	ND	ND	ND	ND
Heptachlor	42	420	2100	15000	29000	ND	ND	ND	ND	ND	ND
Heptachlor epoxide						ND	ND	ND	ND	ND	ND
Methoxychlor						**1.8 J**	ND	ND	ND	ND	ND
Toxaphene						ND	ND	ND	ND	ND	ND
PCBs - mg/kg											
PCB-1016	0.1	1	1	1	25	ND	ND	ND	ND	ND	ND
PCB-1221	0.1	1	1	1	25	ND	ND	ND	ND	ND	ND
PCB-1232	0.1	1	1	1	25	ND	ND	ND	ND	ND	ND
PCB-1242	0.1	1	1	1	25	ND	ND	ND	ND	ND	ND
PCB-1248	0.1	1	1	1	25	ND	ND	ND	ND	ND	ND
PCB-1254	0.1	1	1	1	25	ND	ND	ND	ND	ND	ND
PCB-1260	0.1	1	1	1	25	ND	ND	ND	ND	ND	ND
Herbicidies - ug/kg											
2,4,5-T						ND	ND	ND	ND	ND	ND
Silvex (2,4,5-TP)	3800	58000	100000	500000	1000000	ND	ND	ND	ND	ND	ND
2,4-D						ND	ND	ND	ND	ND	ND
Dichlorprop						ND	ND	ND	ND	ND	ND
Picloram						ND	ND	ND	ND	ND	ND
Pentachlorophenol	800	2400	6700	6700	55000	ND	ND	ND	ND	ND	ND
Metals - mg/kg											
Aluminum						**8350**	**10200**	**4780**	**9360**	**6040**	**2470**
Mercury	0.18	0.81	0.81	2.8	5.7	**1.2**	**0.031**	**0.14**	**0.12**	**1.7**	**0.12**
Antimony						**0.56 J**	ND	ND	ND	**1.6 J**	ND
Arsenic	13	16	16	16	16	**126**	**6.9**	**3.3**	**3.5**	**11.9**	**1.4 J**
Barium	350	350	400	400	10000	**121**	**86.9**	**107**	**69.7**	**155**	**22.5**
Beryllium	7.2	14	72	590	2700	**0.42**	**0.75**	**0.24 J**	**0.41**	**0.37**	**0.22 J**
Cadmium	2.5	2.5	4.3	9.3	60	**0.42**	**0.24 J**	**0.17 J**	**0.25**	**1.4**	**0.23 J**
Calcium						**39200 B**	**191000 B**	**57800 B**	**48600 B**	**42000 B**	**144000**
Chromium	30	36	180	1500	6800	**12.7**	**41.5**	**6.8**	**11.8**	**16.4**	**6.1**
Cobalt						**5.4**	**5.4**	**3.3**	**5.8**	**4.8**	**0.99**

TABLE 1

PERIMETER SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

C&S COMPANIES

Location ID	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	P-D3	P-D4	P-D5	P-D6	P-D7	DUP-120621
Sample Depth						8'	2'	5'	6-7'	5'	5-8'
Date Sampled						12/06/2021	12/06/2021	12/06/2021	12/06/2021	12/06/2021	12/06/2021
Sample Matrix						SO	SO	SO	SO	SO	SO
Copper	50	270	270	270	10000	**102**	**15.5**	**16.9**	**20.5**	**188**	**5.0**
Iron						**18300**	**16700**	**7850**	**12600**	**15000**	**2840**
Lead	63	400	400	1000	3900	**331**	**11.3**	**156**	**40.7**	**701**	**94.0**
Magnesium						**10300**	**8600**	**12200**	**19200**	**6960**	**3990**
Manganese	1600	2000	2000	10000	10000	**235 B**	**505 B**	**343 B**	**292 B**	**318 B**	**132 B**
Nickel	30	140	310	310	10000	**12.8**	**20.9**	**9.6**	**13.5**	**14.6**	**5.0 J**
Potassium						**1980**	**1560**	**1460**	**2570**	**1300**	**840**
Selenium	3.9	36	180	1500	6800	ND	ND	ND	ND	ND	ND
Silver	2	36	180	1500	6800	**0.65 J**	ND	**0.31 J**	ND	**0.43 J**	ND
Sodium						**594**	**437**	**276**	**361**	**214**	**251**
Thallium						ND	ND	ND	ND	ND	ND
Vanadium						**28.1**	**38.1**	**13.0**	**19.5**	**15.4**	**5.7**
Zinc	109	2200	10000	10000	10000	**397**	**60.3**	**42.6**	**51.9**	**597**	**38.3**

Analytical Data compared to Part 375 Standards and DER-10

ND indicates analyte was not detected.

Blank space indicates analyte was not analyzed for in that sample.

*+ - LCS and/or LCSD is outside acceptance limits, high biased.

^+ - Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

B - Compound was found in the blank and sample.

F1 - MS and/or MSD recovery exceeds control limits.

F2 - MS/MSD RPD exceeds control limits

H - Sample was prepped or analyzed beyond the specified holding time

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

vs - Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being co

TABLE 2

GRID SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	A1-18FT	A2-16FT	A2-17FT	A3-16FT	A3-17FT	A4-15FT	A4-16FT	A5-15FT	A5-16FT	A5-07212022	A6-13FT	A7-15FT	A7-16FT
Sample Depth						18	16	17	16	17	15	16	15	16	16.01	13	15	16
Date Sampled						12/09/2021	12/09/2021	12/09/2021	12/09/2021	12/09/2021	12/09/2021	12/09/2021	12/09/2021	12/09/2021	7/21/2022	12/09/2021	12/09/2021	12/09/2021
Sample Matrix						SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
Units						ug/kg	ug/kg	mg/kg	ug/kg	mg/kg	ug/kg	mg/kg	ug/kg	mg/kg	mg/kg	ug/kg	ug/kg	mg/kg
VOCs - ug/kg																		
1,1,1-Trichloroethane	680	100000	100000	500000	1000000	ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
1,1,2,2-Tetrachloroethane						ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
1,1,2-Trichloro-1,2,2-trifluoroethane						ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
1,1,2-Trichloroethane						ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
1,1-Dichloroethane	270	19000	26000	240000	480000	ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
1,1-Dichloroethene	330	100000	100000	500000	1000000	ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
1,2,4-Trichlorobenzene						ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
1,2-Dibromo-3-Chloropropane						ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
1,2-Dibromoethane						ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
1,2-Dichlorobenzene	1100	100000	100000	500000	1000000	ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
1,2-Dichloroethane		2300	3100	30000	60000	ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
1,2-Dichloropropane						ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
1,3-Dichlorobenzene	2400	17000	49000	280000	560000	ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
1,4-Dichlorobenzene	1800	9800	13000	130000	250000	ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
2-Butanone (MEK)	120	100000	100000	500000	1000000	ND *+	ND *+		ND *+		ND *+		ND *+			ND *+	ND *+	
2-Hexanone						ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
4-Methyl-2-pentanone (MIBK)						ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
Acetone	50	100000	100000	500000	1000000	**15 Jvs**	**14 Jvs**		**38 vs**		**19 Jvs**		**23 Jvs**			**16 Jvs**	**16 Jvs**	
Benzene	60	2900	4800	44000	89000	ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
Bromodichloromethane						ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
Bromoform						ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
Bromomethane						ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
Carbon disulfide						ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
Carbon tetrachloride	760	1400	2400	22000	44000	ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
Chlorobenzene	1100	100000	100000	500000	1000000	ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
Chloroethane						ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
Chloroform	370	10000	49000	350000	700000	ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
Chloromethane						ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
cis-1,2-Dichloroethene	250	59000	100000	500000	1000000	ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
cis-1,3-Dichloropropene						ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
Cyclohexane						ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
Dibromochloromethane						ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
Dichlorodifluoromethane						ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
Ethylbenzene	1000	30000	41000	390000	780000	ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
Isopropylbenzene						ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
Methyl acetate						ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
Methyl tert-butyl ether	930	62000	100000	500000	1000000	ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
Methylcyclohexane						ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
Methylene Chloride	50	51000	100000	500000	1000000	ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
Styrene						ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
Tetrachloroethene	1300	5500	19000	150000	300000	ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
Toluene	700	100000	100000	500000	1000000	ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
trans-1,2-Dichloroethene	190	100000	100000	500000	1000000	ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
trans-1,3-Dichloropropene						ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
Trichloroethene	470	10000	21000	200000	400000	ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	

TABLE 2

GRID SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	A1-18FT	A2-16FT	A2-17FT	A3-16FT	A3-17FT	A4-15FT	A4-16FT	A5-15FT	A5-16FT	A5-07212022	A6-13FT	A7-15FT	A7-16FT
Sample Depth						18	16	17	16	17	15	16	15	16	16.01	13	15	16
Date Sampled						12/09/2021	12/09/2021	12/09/2021	12/09/2021	12/09/2021	12/09/2021	12/09/2021	12/09/2021	12/09/2021	7/21/2022	12/09/2021	12/09/2021	12/09/2021
Sample Matrix						SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
Units						ug/kg	ug/kg	mg/kg	ug/kg	mg/kg	ug/kg	mg/kg	ug/kg	mg/kg	mg/kg	ug/kg	ug/kg	mg/kg
Trichlorofluoromethane						ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
Vinyl chloride	20	210	900	13000	27000	ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
Xylenes, Total	260	100000	100000	500000	1000000	ND vs	ND vs		ND vs		ND vs		ND vs			ND vs	ND vs	
PFAS - ng/g																		
Perfluorohexanoic acid						ND	ND		ND		ND		ND			ND	ND	
Perfluoroheptanoic acid (PFOA)	0.66	6.6	33	500	600	ND	ND		ND		ND		ND			ND	ND	
Perfluorooctanoic acid						ND	ND		ND		ND		ND			ND	ND	
Perfluorononanoic acid						ND	ND		ND		ND		ND			ND	ND	
Perfluorodecanoic acid						ND	ND		ND		ND		ND			ND	ND	
Perfluorotridecanoic acid						ND	ND		ND		ND		ND			ND	ND	
Perfluorotetradecanoic acid						ND	ND		ND		ND		ND			ND	ND	
Perfluorobutanesulfonic acid						ND	ND		ND		ND		ND			ND	ND	
Perfluorohexanesulfonic acid						ND	ND		ND		ND		ND			ND	ND	
Perfluorooctanesulfonic acid (PFOS)	0.88	8.8	44	440	440	ND	ND		ND		ND		ND			ND	ND	
NEtFOSAA						ND	ND		ND		ND		ND			ND	ND	
NMeFOSAA						ND	ND		ND		ND		ND			ND	ND	
Perfluoroheptanesulfonic acid						ND	ND		ND		ND		ND			ND	ND	
Perfluorodecanesulfonic acid						ND	ND		ND		ND		ND			ND	ND	
Perfluorooctanesulfonamide						ND	ND		ND		ND		ND			ND	ND	
Perfluorobutanoic acid						ND	ND		ND		ND		ND			ND	ND	
Perfluoroundecanoic acid						ND	ND		ND		ND		ND			ND	ND	
Perfluorododecanoic acid						ND	ND		ND		ND		ND			ND	ND	
6:2 Fluorotelomer sulfonic acid						ND	ND		ND		ND		ND			ND	ND	
8:2 Fluorotelomer sulfonic acid						ND	ND		ND		ND		ND			ND	ND	
Perfluoropentanoic acid						ND	ND		ND		ND F1		ND			ND	ND	
SVOCs - ug/kg																		
Biphenyl						ND	ND		ND		ND		ND			ND	ND	
bis (2-chloroisopropyl) ether						ND	ND		ND		ND		ND			ND	ND	
2,4,5-Trichlorophenol						ND	ND		ND		ND		ND			ND	ND	
2,4,6-Trichlorophenol						ND	ND		ND		ND		ND			ND	ND	
2,4-Dichlorophenol						ND	ND		ND		ND		ND			ND	ND	
2,4-Dimethylphenol						ND	ND		ND		ND		ND			ND	ND	
2,4-Dinitrophenol						ND	ND		ND		ND		ND			ND	ND	
2,4-Dinitrotoluene						ND	ND		ND		ND		ND			ND	ND	
2,6-Dinitrotoluene						ND	ND		ND		ND		ND			ND	ND	
2-Chloronaphthalene						ND	ND		ND		ND		ND			ND	ND	
1,4-Dioxane	100	9800	13000	130000	250000	ND	ND		ND		ND		ND			ND	ND	
2-Chlorophenol						ND	ND		ND		ND		ND			ND	ND	
2-Methylnaphthalene						ND	ND		ND		ND		ND			ND	ND	
2-Methylphenol	330	100000	100000	500000	1000000	ND	ND		ND		ND		ND			ND	ND	
2-Nitroaniline						ND	ND		ND		ND		ND			ND	ND	
2-Nitrophenol						ND	ND		ND		ND		ND			ND	ND	
3,3'-Dichlorobenzidine						ND	ND		ND		ND		ND			ND	ND	
3-Nitroaniline						ND	ND		ND		ND		ND			ND	ND	
4,6-Dinitro-2-methylphenol						ND	ND		ND		ND		ND			ND	ND	

TABLE 2

GRID SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	A1-18FT	A2-16FT	A2-17FT	A3-16FT	A3-17FT	A4-15FT	A4-16FT	A5-15FT	A5-16FT	A5-07212022	A6-13FT	A7-15FT	A7-16FT
Sample Depth						18	16	17	16	17	15	16	15	16	16.01	13	15	16
Date Sampled						12/09/2021	12/09/2021	12/09/2021	12/09/2021	12/09/2021	12/09/2021	12/09/2021	12/09/2021	12/09/2021	7/21/2022	12/09/2021	12/09/2021	12/09/2021
Sample Matrix						SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
Units						ug/kg	ug/kg	mg/kg	ug/kg	mg/kg	ug/kg	mg/kg	ug/kg	mg/kg	mg/kg	ug/kg	ug/kg	mg/kg
4-Bromophenyl phenyl ether						ND	ND		ND		ND		ND			ND	ND	
4-Chloro-3-methylphenol						ND	ND		ND		ND		ND			ND	ND	
4-Chloroaniline						ND	ND		ND		ND		ND			ND	ND	
4-Chlorophenyl phenyl ether						ND	ND		ND		ND		ND			ND	ND	
4-Methylphenol	330	34000	100000	500000	1000000	ND	ND		ND		ND		ND			ND	ND	
4-Nitroaniline						ND	ND		ND		ND		ND			ND	ND	
4-Nitrophenol						ND	ND		ND		ND		ND			ND	ND	
Acenaphthene	20000	100000	100000	500000	1000000	ND	ND		ND		ND		ND			ND	ND	
Acenaphthylene	100000	100000	100000	500000	1000000	ND	ND		ND		ND		ND			ND	ND	
Acetophenone						ND	ND		ND		ND		ND			ND	ND	
Anthracene	100000	100000	100000	500000	1000000	ND	ND		ND		ND		**310** J			ND	ND	
Atrazine						ND	ND		ND		ND		ND			ND	ND	
Benzaldehyde						ND	ND		ND		ND		ND			ND	ND	
Benzo[a]anthracene	1000	1000	1000	5600	11000	ND	**24** J		**98** J		ND		**630** J			**28** J	ND	
Benzo[a]pyrene	1000	1000	1000	1000	1100	ND	ND		**86** J		ND		**550** J			ND	ND	
Benzo[b]fluoranthene	1000	1000	1000	5600	11000	ND	ND		**97** J		ND		**690** J			ND	ND	
Benzo[g,h,i]perylene	100000	100000	100000	500000	1000000	ND	ND		**49** J		ND		**330** J			ND	ND	
Benzo[k]fluoranthene	800	1000	3900	56000	110000	ND	ND		**44** J		ND		**280** J			ND	ND	
Bis(2-chloroethoxy)methane						ND	ND		ND		ND		ND			ND	ND	
Bis(2-chloroethyl)ether						ND	ND		ND		ND		ND			ND	ND	
Bis(2-ethylhexyl) phthalate						ND	ND		ND		ND		ND			ND	ND	
Butyl benzyl phthalate						ND	ND		ND		ND		ND			ND	ND	
Caprolactam						ND	ND		ND		ND		ND			ND	ND	
Carbazole						ND	ND		ND		ND		**120** J			ND	ND	
Chrysene	1000	1000	3900	56000	110000	ND	ND		**100** J		ND		**600** J			ND	ND	
Di-n-butyl phthalate						ND	ND		ND		ND		ND			ND	ND	
Di-n-octyl phthalate						ND	ND		ND		ND		ND			ND	ND	
Dibenz(a,h)anthracene	330	330	330	560	1100	ND	ND		ND		ND		ND			ND	ND	
Dibenzofuran	7000	14000	59000	350000	1000000	ND	ND		ND		ND		ND			ND	ND	
Diethyl phthalate						ND	ND		ND		ND		ND			ND	ND	
Dimethyl phthalate						ND	ND		ND		ND		ND			ND	ND	
Fluoranthene	100000	100000	100000	500000	1000000	ND	**40** J		**200** J		**37** J		**1500**			**68** J	ND	
Fluorene	30000	100000	100000	500000	1000000	ND	ND		ND		ND		**140** J			ND	ND	
Hexachlorobenzene	330	330	1200	6000	12000	ND	ND		ND		ND		ND			ND	ND	
Hexachlorobutadiene						ND	ND		ND		ND		ND			ND	ND	
Hexachlorocyclopentadiene						ND	ND		ND		ND		ND			ND	ND	
Hexachloroethane						ND	ND		ND		ND		ND			ND	ND	
Indeno[1,2,3-cd]pyrene	500	500	500	5600	11000	ND	ND		**43** J		ND		**310** J			ND	ND	
Isophorone						ND	ND		ND		ND		ND			ND	ND	
N-Nitrosodi-n-propylamine						ND	ND		ND		ND		ND			ND	ND	
N-Nitrosodiphenylamine						ND	ND		ND		ND		ND			ND	ND	
Naphthalene	12000	100000	100000	500000	1000000	ND	ND		ND		ND		ND			ND	ND	
Nitrobenzene						ND	ND		ND		ND		ND			ND	ND	
Pentachlorophenol	800	2400	6700	6700	55000	ND	ND		ND		ND		ND			ND	ND	
Phenanthrene	100000	100000	100000	500000	1000000	ND	**40** J		**94** J		ND		**1300**			**79** J	ND	
Phenol	330	100000	100000	500000	1000000	ND	ND		ND		ND		ND			ND	ND	

TABLE 2

GRID SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

C&S COMPANIES

Location ID	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	A1-18FT	A2-16FT	A2-17FT	A3-16FT	A3-17FT	A4-15FT	A4-16FT	A5-15FT	A5-16FT	A5-07212022	A6-13FT	A7-15FT	A7-16FT
Sample Depth						18	16	17	16	17	15	16	15	16	16.01	13	15	16
Date Sampled						12/09/2021	12/09/2021	12/09/2021	12/09/2021	12/09/2021	12/09/2021	12/09/2021	12/09/2021	12/09/2021	7/21/2022	12/09/2021	12/09/2021	12/09/2021
Sample Matrix						SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
Units						ug/kg	ug/kg	mg/kg	ug/kg	mg/kg	ug/kg	mg/kg	ug/kg	mg/kg	mg/kg	ug/kg	ug/kg	mg/kg
Pyrene	100000	100000	100000	500000	1000000	ND	45 J		170 J		33 J		1200			58 J	ND	
Pesticidies - ug/kg																		
4,4'-DDD	3.3	2600	13000	92000	180000	ND	ND		ND		ND		ND			ND	ND	
4,4'-DDE	3.3	1800	8900	62000	120000	ND	ND		ND		ND		ND			ND	ND	
4,4'-DDT	3.3	1700	7900	47000	94000	ND	ND		ND		ND		ND			ND	ND	
Aldrin	5	19	97	680	1400	ND	ND		ND		ND		ND			ND	ND	
alpha-BHC	20	97	480	3400	6800	0.43 J	ND		ND		ND		ND			ND	ND	
cis-Chlordane	94	910	4200	24000	47000	ND	ND		ND		ND		ND			ND	ND	
beta-BHC	36	72	360	3000	14000	ND	ND		ND		0.74 J		ND			ND	ND	
delta-BHC	40	100000	100000	500000	1000000	ND	ND		ND		ND		ND			ND	0.54 J	
Dieldrin	5	39	200	1400	2800	ND	ND		ND		ND		ND			ND	ND	
Endosulfan I	2400	4800	24000	200000	920000	ND	ND		ND		ND		ND			ND	ND	
Endosulfan II	2400	4800	24000	200000	920000	0.96 JB	ND		0.55 JB		ND		ND			0.78 JB	ND	
Endosulfan sulfate	2400	4800	24000	200000	920000	ND	ND		ND		ND		ND			ND	ND	
Endrin	14	2200	11000	89000	410000	ND	ND		ND		ND		ND			ND	ND	
Endrin aldehyde						ND	ND		ND		ND		ND			ND	ND	
Endrin ketone						ND	ND		ND		ND		ND			ND	ND	
gamma-BHC (Lindane)	100	280	1300	9200	23000	ND	ND		ND		ND		ND			ND	ND	
trans-Chlordane						ND	ND		ND		ND		ND			ND	ND	
Heptachlor	42	420	2100	15000	29000	ND	ND		ND		ND		ND			ND	ND	
Heptachlor epoxide						ND	ND		ND		ND		ND			ND	ND	
Methoxychlor						ND	ND		ND		ND		ND			ND	ND	
Toxaphene						ND	ND		ND		ND		ND			ND	ND	
PCBs - mg/kg																		
PCB-1016	0.1	1	1	1	25	ND	ND		ND		ND		ND			ND	ND	
PCB-1221	0.1	1	1	1	25	ND	ND		ND		ND		ND			ND	ND	
PCB-1232	0.1	1	1	1	25	ND	ND		ND		ND		ND			ND	ND	
PCB-1242	0.1	1	1	1	25	ND	ND		ND		ND		ND			ND	ND	
PCB-1248	0.1	1	1	1	25	ND	ND		ND		ND		ND			ND	ND	
PCB-1254	0.1	1	1	1	25	ND	ND		ND		ND		ND			ND	ND	
PCB-1260	0.1	1	1	1	25	ND	ND		ND		ND		ND			ND	ND	
Herbicidies - ug/kg																		
2,4,5-T						ND	ND		ND		ND		ND			ND	ND	
Silvex (2,4,5-TP)	3800	58000	100000	500000	1000000	ND	ND		ND		ND		ND			ND	ND	
2,4-D						ND	ND		ND		ND		ND			ND	ND	
Dichlorprop						ND	ND		ND		ND		ND			ND	ND	
Picloram						ND	ND		ND		ND		ND			ND	ND	
Pentachlorophenol	800	2400	6700	6700	55000	ND	ND		ND		ND		ND			ND	ND	
Metals - mg/kg																		
Aluminum						11600	6410		16300		15300		9240			13200	13200	
Mercury	0.18	0.81	0.81	2.8	5.7	0.038	0.20	0.034	0.099		0.061		2.1	0.12		0.044	0.032	
Antimony						2.6 J	0.74 J		3.6 J		7.2 J		3.3 J			2.1 J	4.7 J	
Arsenic	13	16	16	16	16	5.7	3.2		6.8		3.5		7.6			4.8	15.0	6.4
Barium	350	350	400	400	10000	63.6	44.6		95.0		63.4		104			86.1	75.5	
Beryllium	7.2	14	72	590	2700	0.54	0.27		0.70		0.60		0.52			0.60	0.71	

TABLE 2

GRID SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	A1-18FT	A2-16FT	A2-17FT	A3-16FT	A3-17FT	A4-15FT	A4-16FT	A5-15FT	A5-16FT	A5-07212022	A6-13FT	A7-15FT	A7-16FT
Sample Depth						18	16	17	16	17	15	16	15	16	16.01	13	15	16
Date Sampled						12/09/2021	12/09/2021	12/09/2021	12/09/2021	12/09/2021	12/09/2021	12/09/2021	12/09/2021	12/09/2021	7/21/2022	12/09/2021	12/09/2021	12/09/2021
Sample Matrix						SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
Units						ug/kg	ug/kg	mg/kg	ug/kg	mg/kg	ug/kg	mg/kg	ug/kg	mg/kg	mg/kg	ug/kg	ug/kg	mg/kg
Cadmium	2.5	2.5	4.3	9.3	60	0.24 J	0.18 J		0.37		0.13 J		0.36			0.26	0.11 J	
Calcium						10500 B	18700 B		8890 B		34500 B		41000 B			3890 B	2070 B	
Chromium	30	36	180	1500	6800	16.9	8.7		21.9		19.7		22.4			17.7	19.1	
Cobalt						8.8	4.0		18.5		8.8		6.5			10.1	14.4	
Copper	50	270	270	270	10000	20.5	10.8		26.6		14.9		65.2	28.4		20.1	26.7	
Iron						21400 ^+	8940 ^+		28200 ^+		51300 ^+		22400 ^+			19300 ^+	33400 ^+	
Lead	63	400	400	1000	3900	25.7	95.4	14.5	40.5		24.3		220	33.7		21.7	20.8	
Magnesium						3920 B	8500 B		4200 B		22100 B		9160 B			3700 B	3530 B	
Manganese	1600	2000	2000	10000	10000	170 B	113 B		698 B		601 B		301 B			360 B	571 B	
Nickel	30	140	310	310	10000	26.2	10.3		35.9	14.2	23.5		25.4			29.3	39.7	42.3
Potassium						2110	1360		3300		4460		1920			2410	2230	
Selenium	3.9	36	180	1500	6800	1.8 J	0.90 J		2.7 J		4.3 J	ND F1	1.6 J			1.4 J	2.6 J	
Silver	2	36	180	1500	6800	ND	ND		ND		ND		0.27 J			ND	ND	
Sodium						232	261		1030		617		382			317	372	
Thallium						ND	ND		ND		ND		ND			ND	ND	
Vanadium						26.3	14.0		30.0		29.5		22.1			25.5	30.4	
Zinc	109	2200	10000	10000	10000	60.7	35.5		81.6		67.4		135	121	40.3	63.9	73.4	

Analytical Data compared to Part 375 Standards and DER-10

ND indicates analyte was not detected.

Blank space indicates analyte was not analyzed for in that sample.

*+ - LCS and/or LCSD is outside acceptance limits, high biased.

^+ - Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

B - Compound was found in the blank and sample.

F1 - MS and/or MSD recovery exceeds control limits.

F2 - MS/MSD RPD exceeds control limits

H - Sample was prepped or analyzed beyond the specified holding time

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

vs - Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.

TABLE 2

GRID SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID Sample Depth Date Sampled Sample Matrix Units	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	A7-072122 16.8 7/21/2022 SO mg/kg	B1-20FT 20 12/08/2021 SO ug/kg	B2-18.5FT 18.5 12/08/2021 SO ug/kg	B3-17.5FT 17.5 12/08/2021 SO ug/kg	B3-18.5FT 18.5 12/08/2021 SO mg/kg	B4-17FT 17 12/08/2021 SO ug/kg	B4-18FT 18 12/08/2021 SO mg/kg	B5-15.5FT 15.5 12/08/2021 SO ug/kg	B6-14.5FT 14.5 12/08/2021 SO ug/kg	B6-15.5FT 15.5 12/08/2021 SO mg/kg	B7-15FT 15 12/09/2021 SO ug/kg	B7-16FT 16 12/09/2021 SO ug/kg	B7-072122 16.01 7/21/2022 SO ug/kg
VOCs - ug/kg																		
1,1,1-Trichloroethane	680	100000	100000	500000	1000000		ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
1,1,2,2-Tetrachloroethane							ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
1,1,2-Trichloro-1,2,2-trifluoroethane							ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
1,1,2-Trichloroethane							ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
1,1-Dichloroethane	270	19000	26000	240000	480000		ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
1,1-Dichloroethene	330	100000	100000	500000	1000000		ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
1,2,4-Trichlorobenzene							ND F1 vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
1,2-Dibromo-3-Chloropropane							ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
1,2-Dibromoethane							ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
1,2-Dichlorobenzene	1100	100000	100000	500000	1000000		ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
1,2-Dichloroethane		2300	3100	30000	60000		ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
1,2-Dichloropropane							ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
1,3-Dichlorobenzene	2400	17000	49000	280000	560000		ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
1,4-Dichlorobenzene	1800	9800	13000	130000	250000		ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
2-Butanone (MEK)	120	100000	100000	500000	1000000		ND F1 *+ vs	ND *+	ND *+		ND *+		ND *+	ND *+		**24 J*+**		
2-Hexanone							ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
4-Methyl-2-pentanone (MIBK)							ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
Acetone	50	100000	100000	500000	1000000		**20 Jvs**	**21 Jvs**	**32 vs**		**19 Jvs**		**32 Jvs**	**29 Jvs**		**120 vs**	**210 vs**	**7.6**
Benzene	60	2900	4800	44000	89000		ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
Bromodichloromethane							ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
Bromoform							ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
Bromomethane							ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
Carbon disulfide							ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
Carbon tetrachloride	760	1400	2400	22000	44000		ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
Chlorobenzene	1100	100000	100000	500000	1000000		ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
Chloroethane							ND F2 vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
Chloroform	370	10000	49000	350000	700000		ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
Chloromethane							ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
cis-1,2-Dichloroethene	250	59000	100000	500000	1000000		ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
cis-1,3-Dichloropropene							ND F1 vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
Cyclohexane							ND vs	ND vs	**0.86 Jvs**		ND vs		ND vs	ND vs		ND vs		
Dibromochloromethane							ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
Dichlorodifluoromethane							ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
Ethylbenzene	1000	30000	41000	390000	780000		ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
Isopropylbenzene							ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
Methyl acetate							ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
Methyl tert-butyl ether	930	62000	100000	500000	1000000		ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
Methylcyclohexane							ND vs	ND vs	**1.2 Jvs**		ND vs		ND vs	ND vs		ND vs		
Methylene Chloride	50	51000	100000	500000	1000000		ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
Styrene							ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
Tetrachloroethene	1300	5500	19000	150000	300000		ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
Toluene	700	100000	100000	500000	1000000		ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
trans-1,2-Dichloroethene	190	100000	100000	500000	1000000		ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
trans-1,3-Dichloropropene							ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
Trichloroethene	470	10000	21000	200000	400000		ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		

TABLE 2

GRID SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	A7-072122	B1-20FT	B2-18.5FT	B3-17.5FT	B3-18.5FT	B4-17FT	B4-18FT	B5-15.5FT	B6-14.5FT	B6-15.5FT	B7-15FT	B7-16FT	B7-072122
Sample Depth						16.8	20	18.5	17.5	18.5	17	18	15.5	14.5	15.5	15	16	16.01
Date Sampled						7/21/2022	12/08/2021	12/08/2021	12/08/2021	12/08/2021	12/08/2021	12/08/2021	12/08/2021	12/08/2021	12/08/2021	12/09/2021	12/09/2021	7/21/2022
Sample Matrix						SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
Units						mg/kg	ug/kg	ug/kg	ug/kg	mg/kg	ug/kg	mg/kg	ug/kg	ug/kg	mg/kg	ug/kg	ug/kg	ug/kg
Trichlorofluoromethane							ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
Vinyl chloride	20	210	900	13000	27000		ND vs	ND vs	ND vs		ND vs		ND vs	ND vs		ND vs		
Xylenes, Total	260	100000	100000	500000	1000000		ND vs	ND vs	**2.4 Jvs**		ND vs		ND vs	ND vs		ND vs		
PFAS - ng/g																		
Perfluorohexanoic acid							ND	ND	ND		ND		ND	ND		ND		
Perfluoroheptanoic acid (PFOA)	0.66	6.6	33	500	600		ND	ND	ND		ND		ND	ND		ND		
Perfluorooctanoic acid							ND	ND	ND		ND		ND	ND		ND		
Perfluorononanoic acid							ND	ND	ND		ND		ND	ND		ND		
Perfluorodecanoic acid							ND	ND	ND		ND		ND	ND		ND		
Perfluorotridecanoic acid							ND	ND	ND		ND		ND	ND		ND		
Perfluorotetradecanoic acid							ND	ND	ND		ND		ND	ND		ND		
Perfluorobutanesulfonic acid							ND	ND	ND		ND		ND	ND		ND		
Perfluorohexanesulfonic acid							ND	ND	ND		ND		ND	ND		ND		
Perfluorooctanesulfonic acid (PFOS)	0.88	8.8	44	440	440		ND	ND	ND		ND		ND	ND		ND		
NEtFOSAA							ND	ND	ND		ND		ND	ND		ND		
NMeFOSAA							ND	ND	ND		ND		ND	ND		ND		
Perfluoroheptanesulfonic acid							ND	ND	ND		ND		ND	ND		ND		
Perfluorodecanesulfonic acid							ND	ND	ND		ND		ND	ND		ND		
Perfluorooctanesulfonamide							ND	ND	ND		ND		ND	ND		ND		
Perfluorobutanoic acid							ND	ND	ND		ND		ND	ND		ND		
Perfluoroundecanoic acid							ND	ND	ND		ND		ND	ND		ND		
Perfluorododecanoic acid							ND	ND	ND		ND		ND	ND		ND		
6:2 Fluorotelomer sulfonic acid							ND	ND	ND		ND		ND	ND		ND		
8:2 Fluorotelomer sulfonic acid							ND	ND	ND		ND		ND	ND		ND		
Perfluoropentanoic acid							ND	ND	ND		ND		ND	ND		ND		
SVOCs - ug/kg																		
Biphenyl							ND	ND	ND		ND		ND	ND		ND		
bis (2-chloroisopropyl) ether							ND	ND	ND		ND		ND	ND		ND		
2,4,5-Trichlorophenol							ND	ND	ND		ND		ND	ND		ND		
2,4,6-Trichlorophenol							ND	ND	ND		ND		ND	ND		ND		
2,4-Dichlorophenol							ND	ND	ND		ND		ND	ND		ND		
2,4-Dimethylphenol							ND	ND	ND		ND		ND	ND		ND		
2,4-Dinitrophenol							ND	ND	ND		ND		ND	ND		ND		
2,4-Dinitrotoluene							ND	ND	ND		ND		ND	ND		ND		
2,6-Dinitrotoluene							ND	ND	ND		ND		ND	ND		ND		
2-Chloronaphthalene							ND	ND	ND		ND		ND	ND		ND		
1,4-Dioxane	100	9800	13000	130000	250000		ND	ND	ND		ND		ND	ND		ND		
2-Chlorophenol							ND	ND	ND		ND		ND	ND		ND		
2-Methylnaphthalene							ND	ND	ND		ND		ND	ND		ND		
2-Methylphenol	330	100000	100000	500000	1000000		ND	ND	ND		ND		ND	ND		ND		
2-Nitroaniline							ND	ND	ND		ND		ND	ND		ND		
2-Nitrophenol							ND	ND	ND		ND		ND	ND		ND		
3,3'-Dichlorobenzidine							ND	ND	ND		ND		ND	ND		ND		
3-Nitroaniline							ND	ND	ND		ND		ND	ND		ND		
4,6-Dinitro-2-methylphenol							ND	ND	ND		ND		ND	ND		ND		

TABLE 2

GRID SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	A7-072122	B1-20FT	B2-18.5FT	B3-17.5FT	B3-18.5FT	B4-17FT	B4-18FT	B5-15.5FT	B6-14.5FT	B6-15.5FT	B7-15FT	B7-16FT	B7-072122
Sample Depth						16.8	20	18.5	17.5	18.5	17	18	15.5	14.5	15.5	15	16	16.01
Date Sampled						7/21/2022	12/08/2021	12/08/2021	12/08/2021	12/08/2021	12/08/2021	12/08/2021	12/08/2021	12/08/2021	12/08/2021	12/09/2021	12/09/2021	7/21/2022
Sample Matrix						SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
Units						mg/kg	ug/kg	ug/kg	ug/kg	mg/kg	ug/kg	mg/kg	ug/kg	ug/kg	mg/kg	ug/kg	ug/kg	ug/kg
4-Bromophenyl phenyl ether							ND	ND	ND		ND		ND	ND		ND		
4-Chloro-3-methylphenol							ND	ND	ND		ND		ND	ND		ND		
4-Chloroaniline							ND	ND	ND		ND		ND	ND		ND		
4-Chlorophenyl phenyl ether							ND	ND	ND		ND		ND	ND		ND		
4-Methylphenol	330	34000	100000	500000	1000000		ND	ND	ND		ND		ND	ND		ND		
4-Nitroaniline							ND	ND	ND		ND		ND	ND		ND		
4-Nitrophenol							ND	ND	ND		ND		ND	ND		ND		
Acenaphthene	20000	100000	100000	500000	1000000		ND	ND	ND		ND		ND	ND		ND		
Acenaphthylene	100000	100000	100000	500000	1000000		ND	ND	ND		ND		ND	ND		ND		
Acetophenone							ND	ND	ND		ND		ND	ND		ND		
Anthracene	100000	100000	100000	500000	1000000		ND	ND	ND		ND		ND	ND		ND		
Atrazine							ND	ND	ND		ND		ND	ND		ND		
Benzaldehyde							ND	ND	ND		ND		ND	ND		ND		
Benzo[a]anthracene	1000	1000	1000	5600	11000		ND	ND	ND		ND		ND	ND		ND		
Benzo[a]pyrene	1000	1000	1000	1000	1100		ND	ND	ND		ND		ND	ND		ND		
Benzo[b]fluoranthene	1000	1000	1000	5600	11000		ND	ND	ND		ND		ND	ND		ND		
Benzo[g,h,i]perylene	100000	100000	100000	500000	1000000		ND	ND	ND		ND		ND	ND		ND		
Benzo[k]fluoranthene	800	1000	3900	56000	110000		ND	ND	ND		ND		ND	ND		ND		
Bis(2-chloroethoxy)methane							ND	ND	ND		ND		ND	ND		ND		
Bis(2-chloroethyl)ether							ND	ND	ND		ND		ND	ND		ND		
Bis(2-ethylhexyl) phthalate							ND	ND	ND		ND		ND	ND		ND		
Butyl benzyl phthalate							ND	ND	ND		ND		ND	ND		ND		
Caprolactam							ND	ND	ND		ND		ND	ND		ND		
Carbazole							ND	ND	ND		ND		ND	ND		ND		
Chrysene	1000	1000	3900	56000	110000		ND	ND	ND		ND		ND	ND		ND		
Di-n-butyl phthalate							ND	ND	ND		ND		ND	ND		ND		
Di-n-octyl phthalate							ND	ND	ND		ND		ND	ND		ND		
Dibenz(a,h)anthracene	330	330	330	560	1100		ND	ND	ND		ND		ND	ND		ND		
Dibenzofuran	7000	14000	59000	350000	1000000		ND	ND	ND		ND		ND	ND		ND		
Diethyl phthalate							ND	ND	ND		ND		ND	ND		ND		
Dimethyl phthalate							ND	ND	ND		ND		ND	ND		ND		
Fluoranthene	100000	100000	100000	500000	1000000		ND	ND	ND		ND		ND	ND		ND		
Fluorene	30000	100000	100000	500000	1000000		ND	ND	ND		ND		ND	ND		ND		
Hexachlorobenzene	330	330	1200	6000	12000		ND	ND	ND		ND		ND	ND		ND		
Hexachlorobutadiene							ND	ND	ND		ND		ND	ND		ND		
Hexachlorocyclopentadiene							ND	ND	ND		ND		ND	ND		ND		
Hexachloroethane							ND	ND	ND		ND		ND	ND		ND		
Indeno[1,2,3-cd]pyrene	500	500	500	5600	11000		ND	ND	ND		ND		ND	ND		ND		
Isophorone							ND	ND	ND		ND		ND	ND		ND		
N-Nitrosodi-n-propylamine							ND	ND	ND		ND		ND	ND		ND		
N-Nitrosodiphenylamine							ND	ND	ND		ND		ND	ND		ND		
Naphthalene	12000	100000	100000	500000	1000000		ND	ND	ND		ND		ND	ND		ND		
Nitrobenzene							ND	ND	ND		ND		ND	ND		ND		
Pentachlorophenol	800	2400	6700	6700	55000		ND	ND	ND		ND		ND	ND		ND		
Phenanthrene	100000	100000	100000	500000	1000000		ND	ND	ND		ND		ND	ND		ND		
Phenol	330	100000	100000	500000	1000000		ND	ND	ND		ND		ND	ND		ND		

TABLE 2

GRID SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	A7-072122	B1-20FT	B2-18.5FT	B3-17.5FT	B3-18.5FT	B4-17FT	B4-18FT	B5-15.5FT	B6-14.5FT	B6-15.5FT	B7-15FT	B7-16FT	B7-072122
Sample Depth						16.8	20	18.5	17.5	18.5	17	18	15.5	14.5	15.5	15	16	16.01
Date Sampled						7/21/2022	12/08/2021	12/08/2021	12/08/2021	12/08/2021	12/08/2021	12/08/2021	12/08/2021	12/08/2021	12/08/2021	12/09/2021	12/09/2021	7/21/2022
Sample Matrix						SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
Units						mg/kg	ug/kg	ug/kg	ug/kg	mg/kg	ug/kg	mg/kg	ug/kg	ug/kg	mg/kg	ug/kg	ug/kg	ug/kg
Pyrene	100000	100000	100000	500000	1000000		ND	ND	ND		ND		ND	ND		ND		
Pesticides - ug/kg																		
4,4'-DDD	3.3	2600	13000	92000	180000		ND	ND	ND		ND		ND	ND		ND		
4,4'-DDE	3.3	1800	8900	62000	120000		ND	ND	ND		ND		ND	ND		ND		
4,4'-DDT	3.3	1700	7900	47000	94000		ND	ND	ND		ND		ND	ND		ND		
Aldrin	5	19	97	680	1400		ND	ND	ND		ND		ND	ND		ND		
alpha-BHC	20	97	480	3400	6800		ND	ND	ND		ND		ND	ND		ND		
cis-Chlordane	94	910	4200	24000	47000		ND	ND	ND		ND		ND	ND		ND		
beta-BHC	36	72	360	3000	14000		ND	ND	ND		ND		ND	ND		ND		
delta-BHC	40	100000	100000	500000	1000000		ND	ND	ND		ND		ND	ND		ND		
Dieldrin	5	39	200	1400	2800		ND	ND	ND		ND		ND	ND		ND		
Endosulfan I	2400	4800	24000	200000	920000		ND	ND	ND		ND		ND	ND		ND		
Endosulfan II	2400	4800	24000	200000	920000		0.87 JB	ND	0.99 JB		ND		ND	ND		ND		
Endosulfan sulfate	2400	4800	24000	200000	920000		ND	ND	ND		ND		ND	ND		ND		
Endrin	14	2200	11000	89000	410000		ND	ND	ND		ND		ND	ND		ND		
Endrin aldehyde							ND	ND	ND		ND		ND	ND		ND		
Endrin ketone							ND	ND	ND		ND		ND	ND		ND		
gamma-BHC (Lindane)	100	280	1300	9200	23000		ND	ND	ND		ND		ND	ND		ND		
trans-Chlordane							ND	ND	ND		ND		ND	ND		ND		
Heptachlor	42	420	2100	15000	29000		ND	ND	ND		ND		ND	ND		ND		
Heptachlor epoxide							ND	ND	ND		ND		ND	ND		ND		
Methoxychlor							ND	ND	ND		ND		ND	ND		ND		
Toxaphene							ND	ND	ND		ND		ND	ND		ND		
PCBs - mg/kg																		
PCB-1016	0.1	1	1	1	25		ND	ND	ND		ND		ND	ND		ND		
PCB-1221	0.1	1	1	1	25		ND	ND	ND		ND		ND	ND		ND		
PCB-1232	0.1	1	1	1	25		ND	ND	ND		ND		ND	ND		ND		
PCB-1242	0.1	1	1	1	25		ND	ND	ND		ND		ND	ND		ND		
PCB-1248	0.1	1	1	1	25		ND	ND	ND		ND		ND	ND		ND		
PCB-1254	0.1	1	1	1	25		ND	ND	ND		ND		ND	ND		ND		
PCB-1260	0.1	1	1	1	25		ND	ND	ND		ND		ND	ND		ND		
Herbicides - ug/kg																		
2,4,5-T							ND	ND	ND		ND		ND	ND		ND		
Silvex (2,4,5-TP)	3800	58000	100000	500000	1000000		ND	ND	ND		ND		ND	ND		ND		
2,4-D							ND	ND	ND		ND		ND	ND		ND		
Dichlorprop							ND	ND	ND		ND		ND	ND		ND		
Picloram							ND F1	ND	ND		ND		ND	ND		ND		
Pentachlorophenol	800	2400	6700	6700	55000		ND	ND	ND		ND		ND	ND		ND		
Metals - mg/kg																		
Aluminum							11500	11200	12000		20200		11800	12500		9950		
Mercury	0.18	0.81	0.81	2.8	5.7		0.031	0.023 J	0.060		0.095		0.035	0.026 J		0.035 J		
Antimony							1.5 JF1	2.8 J	2.7 J		2.5 J		1.6 J	4.4 J		0.93 J		
Arsenic	13	16	16	16	16		2.3 J	7.0	5.2		6.0		3.9	14.9	1.8 J	3.3		
Barium	350	350	400	400	10000		65.2 F1	65.3	73.9		154		75.7	83.9		90.2		
Beryllium	7.2	14	72	590	2700		0.48	0.60	0.62		0.89		0.55	0.71		0.46		

TABLE 2

GRID SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	A7-072122	B1-20FT	B2-18.5FT	B3-17.5FT	B3-18.5FT	B4-17FT	B4-18FT	B5-15.5FT	B6-14.5FT	B6-15.5FT	B7-15FT	B7-16FT	B7-072122
Sample Depth						16.8	20	18.5	17.5	18.5	17	18	15.5	14.5	15.5	15	16	16.01
Date Sampled						7/21/2022	12/08/2021	12/08/2021	12/08/2021	12/08/2021	12/08/2021	12/08/2021	12/08/2021	12/08/2021	12/08/2021	12/09/2021	12/09/2021	7/21/2022
Sample Matrix						SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
Units						mg/kg	ug/kg	ug/kg	ug/kg	mg/kg	ug/kg	mg/kg	ug/kg	ug/kg	mg/kg	ug/kg	ug/kg	ug/kg
Cadmium	2.5	2.5	4.3	9.3	60		**0.35**	**0.17 J**	**0.25**		**0.30 J**		**0.33 J**	**0.090 J**		**0.57**		
Calcium							**1750 BF1F2**	**1120 B**	**1180 B**		**120000 B**		**3540 B**	**2360 B**		**4160 B**		
Chromium	30	36	180	1500	6800		**16.0**	**16.5**	**16.8**		**29.2**		**18.3**	**18.1**		**13.2**		
Cobalt							**7.4**	**9.4**	**12.2**		**12.8**		**9.6**	**13.9**		**7.5**		
Copper	50	270	270	270	10000		**12.6**	**20.7**	**22.4**		**29.4**		**22.4**	**26.2**		**16.2**		
Iron							**14400 ^+**	**23300 ^+**	**20900 ^+**		**27100 ^+**		**18300 ^+**	**34900 ^+**		**12500 ^+**		
Lead	63	400	400	1000	3900		**10.7**	**14.3**	**21.2**		**65.1**	**20.3**	**15.2**	**22.0**		**10.2**		
Magnesium							**3190 BF1**	**2710 B**	**3230 B**		**40200 B**		**4000 B**	**3630 B**		**3430 B**		
Manganese	1600	2000	2000	10000	10000		**156 BF1F2**	**147 B**	**205 B**		**659 B**		**181 B**	**476 B**		**91.5 B**		
Nickel	30	140	310	310	10000	**25.5**	**23.1 F1**	**29.8**	**33.0**	**26.4**	**30.2**	**20.0**	**27.7**	**35.9**	**12.2**	**19.5**		
Potassium							**2670 F1**	**1970**	**1780**		**6370**		**2060**	**1440**		**1400**		
Selenium	3.9	36	180	1500	6800		**0.96 J**	**2.0 J**	**1.7 J**		**1.6 J**		**1.9 J**	**2.8 J**		**1.3 J**		
Silver	2	36	180	1500	6800		ND	ND	ND		ND		ND	ND		ND		
Sodium							**336**	**903**	**733**		**811**		**464**	**326**		**344**		
Thallium							ND	ND	ND		ND		ND	ND		ND		
Vanadium							**21.7 F1**	**26.8**	**22.7**		**40.7**		**28.2**	**26.4**		**17.2**		
Zinc	109	2200	10000	10000	10000		**54.9 F1**	**61.4**	**71.1**		**118**	**59.1**	**79.1**	**75.4**		**66.1**		

Analytical Data compared to Part 375 Standards and DER-10

ND indicates analyte was not detected.

Blank space indicates analyte was not analyzed for in that sample.

*+ - LCS and/or LCSD is outside acceptance limits, high biased.

^+ - Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

B - Compound was found in the blank and sample.

F1 - MS and/or MSD recovery exceeds control limits.

F2 - MS/MSD RPD exceeds control limits

H - Sample was prepped or analyzed beyond the specified holding time

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

vs - Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being col

TABLE 2

GRID SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	C1-18.5FT	C1-19.5FT	C1-081722	C2-18FT	C2-19FT	C2-081722	C3-16.5FT	C3-17.5FT	C3-08622	C4-16.5FT	C4-17.5FT	C5-14.5FT	C5-15.5FT
Sample Depth						18.5	19.5	19.65	18	19	19.01	16.5	17.5	17.54	16.5	17.5	14.5	15.5
Date Sampled						12/08/2021	12/08/2021	8/17/2022	12/08/2021	12/08/2021	8/17/2022	12/08/2021	12/08/2021	8/16/2022	12/08/2021	12/08/2021	12/08/2021	12/08/2021
Sample Matrix						SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
Units						ug/kg	mg/kg	mg/kg	ug/kg	mg/kg	mg/kg	ug/kg	mg/kg	mg/kg	ug/kg	mg/kg	ug/kg	mg/kg
VOCs - ug/kg																		
1,1,1-Trichloroethane	680	100000	100000	500000	1000000	ND vs			ND vs			ND vs			ND vs		ND vs	
1,1,2,2-Tetrachloroethane						ND vs			ND vs			ND vs			ND vs		ND vs	
1,1,2-Trichloro-1,2,2-trifluoroethane						ND vs			ND vs			ND vs			ND vs		ND vs	
1,1,2-Trichloroethane						ND vs			ND vs			ND vs			ND vs		ND vs	
1,1-Dichloroethane	270	19000	26000	240000	480000	ND vs			ND vs			ND vs			ND vs		ND vs	
1,1-Dichloroethene	330	100000	100000	500000	1000000	ND vs			ND vs			ND vs			ND vs		ND vs	
1,2,4-Trichlorobenzene						ND vs			ND vs			ND vs			ND vs		ND vs	
1,2-Dibromo-3-Chloropropane						ND vs			ND vs			ND vs			ND vs		ND vs	
1,2-Dibromoethane						ND vs			ND vs			ND vs			ND vs		ND vs	
1,2-Dichlorobenzene	1100	100000	100000	500000	1000000	ND vs			ND vs			ND vs			ND vs		ND vs	
1,2-Dichloroethane		2300	3100	30000	60000	ND vs			ND vs			ND vs			ND vs		ND vs	
1,2-Dichloropropane						ND vs			ND vs			ND vs			ND vs		ND vs	
1,3-Dichlorobenzene	2400	17000	49000	280000	560000	ND vs			ND vs			ND vs			ND vs		ND vs	
1,4-Dichlorobenzene	1800	9800	13000	130000	250000	ND vs			ND vs			ND vs			ND vs		ND vs	
2-Butanone (MEK)	120	100000	100000	500000	1000000	ND *+			**20 Jvs**			ND vs			ND vs		ND vs	
2-Hexanone						ND vs			ND vs			ND vs			ND vs		ND vs	
4-Methyl-2-pentanone (MIBK)						ND vs			ND vs			ND vs			ND vs		ND vs	
Acetone	50	100000	100000	500000	1000000	**41 vs**			**110 vs**	**27 Jvs**		**43 vs**			**10 Jvs**		**17 Jvs**	
Benzene	60	2900	4800	44000	89000	ND vs			ND vs			ND vs			ND vs		ND vs	
Bromodichloromethane						ND vs			ND vs			ND vs			ND vs		ND vs	
Bromoform						ND vs			ND vs			ND vs			ND vs		ND vs	
Bromomethane						ND vs			ND vs			ND vs			ND vs		ND vs	
Carbon disulfide						ND vs			ND vs			ND vs			ND vs		ND vs	
Carbon tetrachloride	760	1400	2400	22000	44000	ND vs			ND vs			ND vs			ND vs		ND vs	
Chlorobenzene	1100	100000	100000	500000	1000000	ND vs			ND vs			ND vs			ND vs		ND vs	
Chloroethane						ND vs			ND vs			ND vs			ND vs		ND vs	
Chloroform	370	10000	49000	350000	700000	ND vs			ND vs			ND vs			ND vs		ND vs	
Chloromethane						ND vs			ND vs			ND vs			ND vs		ND vs	
cis-1,2-Dichloroethene	250	59000	100000	500000	1000000	ND vs			ND vs			ND vs			ND vs		ND vs	
cis-1,3-Dichloropropene						ND vs			ND vs			ND vs			ND vs		ND vs	
Cyclohexane						ND vs			ND vs			ND vs			ND vs		ND vs	
Dibromochloromethane						ND vs			ND vs			ND vs			ND vs		ND vs	
Dichlorodifluoromethane						ND vs			ND vs			ND vs			ND vs		ND vs	
Ethylbenzene	1000	30000	41000	390000	780000	ND vs			ND vs			ND vs			ND vs		ND vs	
Isopropylbenzene						ND vs			ND vs			ND vs			ND vs		ND vs	
Methyl acetate						ND vs			ND vs			ND vs			ND vs		ND vs	
Methyl tert-butyl ether	930	62000	100000	500000	1000000	ND vs			ND vs			ND vs			ND vs		ND vs	
Methylcyclohexane						ND vs			ND vs			ND vs			ND vs		ND vs	
Methylene Chloride	50	51000	100000	500000	1000000	ND vs			ND vs			ND vs			ND vs		ND vs	
Styrene						ND vs			ND vs			ND vs			ND vs		ND vs	
Tetrachloroethene	1300	5500	19000	150000	300000	ND vs			ND vs			ND vs			ND vs		ND vs	
Toluene	700	100000	100000	500000	1000000	ND vs			ND vs			ND vs			ND vs		ND vs	
trans-1,2-Dichloroethene	190	100000	100000	500000	1000000	ND vs			ND vs			ND vs			ND vs		ND vs	
trans-1,3-Dichloropropene						ND vs			ND vs			ND vs			ND vs		ND vs	
Trichloroethene	470	10000	21000	200000	400000	ND vs			ND vs			ND vs			ND vs		ND vs	

TABLE 2

GRID SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	C1-18.5FT	C1-19.5FT	C1-081722	C2-18FT	C2-19FT	C2-081722	C3-16.5FT	C3-17.5FT	C3-08622	C4-16.5FT	C4-17.5FT	C5-14.5FT	C5-15.5FT
Sample Depth						18.5	19.5	19.65	18	19	19.01	16.5	17.5	17.54	16.5	17.5	14.5	15.5
Date Sampled						12/08/2021	12/08/2021	8/17/2022	12/08/2021	12/08/2021	8/17/2022	12/08/2021	12/08/2021	8/16/2022	12/08/2021	12/08/2021	12/08/2021	12/08/2021
Sample Matrix						SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
Units						ug/kg	mg/kg	mg/kg	ug/kg	mg/kg	mg/kg	ug/kg	mg/kg	mg/kg	ug/kg	mg/kg	ug/kg	mg/kg
Trichlorofluoromethane						ND vs			ND vs			ND vs			ND vs		ND vs	
Vinyl chloride	20	210	900	13000	27000	ND vs			ND vs			ND vs			ND vs		ND vs	
Xylenes, Total	260	100000	100000	500000	1000000	ND vs			ND vs			**4.2 Jvs**			ND vs		ND vs	
PFAS - ng/g																		
Perfluorohexanoic acid						ND			ND			ND			ND		ND	
Perfluoroheptanoic acid (PFOA)	0.66	6.6	33	500	600	ND			ND			ND			ND		ND	
Perfluorooctanoic acid						ND			ND			ND			ND		ND	
Perfluorononanoic acid						ND			ND			ND			ND		ND	
Perfluorodecanoic acid						ND			ND			ND			ND		ND	
Perfluorotridecanoic acid						ND			ND			ND			ND		ND	
Perfluorotetradecanoic acid						ND			ND			ND			ND		ND	
Perfluorobutanesulfonic acid						ND			ND			ND			ND		ND	
Perfluorohexanesulfonic acid						ND			ND			ND			ND		ND	
Perfluorooctanesulfonic acid (PFOS)	0.88	8.8	44	440	440	ND			ND			ND			ND		ND	
NEtFOSAA						ND			ND			ND			ND		ND	
NMeFOSAA						ND			ND			ND			ND		ND	
Perfluoroheptanesulfonic acid						ND			ND			ND			ND		ND	
Perfluorodecanesulfonic acid						ND			ND			ND			ND		ND	
Perfluorooctanesulfonamide						ND			ND			ND			ND		ND	
Perfluorobutanoic acid						ND			ND			ND			ND		ND	
Perfluoroundecanoic acid						ND			ND			ND			ND		ND	
Perfluorododecanoic acid						ND			ND			ND			ND		ND	
6:2 Fluorotelomer sulfonic acid						ND			ND			ND			ND		ND	
8:2 Fluorotelomer sulfonic acid						ND			ND			ND			ND		ND	
Perfluoropentanoic acid						ND			ND			ND			ND		ND	
SVOCs - ug/kg																		
Biphenyl						ND			ND			ND			ND		ND	
bis (2-chloroisopropyl) ether						ND			ND			ND			ND		ND	
2,4,5-Trichlorophenol						ND			ND			ND			ND		ND	
2,4,6-Trichlorophenol						ND			ND			ND			ND		ND	
2,4-Dichlorophenol						ND			ND			ND			ND		ND	
2,4-Dimethylphenol						ND			ND			ND			ND		ND	
2,4-Dinitrophenol						ND			ND			ND			ND		ND	
2,4-Dinitrotoluene						ND			ND			ND			ND		ND	
2,6-Dinitrotoluene						ND			ND			ND			ND		ND	
2-Chloronaphthalene						ND			ND			ND			ND		ND	
1,4-Dioxane	100	9800	13000	130000	250000	ND			ND			ND			ND		ND	
2-Chlorophenol						ND			ND			ND			ND		ND	
2-Methylnaphthalene						ND			ND			**75 J**			ND		ND	
2-Methylphenol	330	100000	100000	500000	1000000	ND			ND			ND			ND		ND	
2-Nitroaniline						ND			ND			ND			ND		ND	
2-Nitrophenol						ND			ND			ND			ND		ND	
3,3'-Dichlorobenzidine						ND			ND			ND			ND		ND	
3-Nitroaniline						ND			ND			ND			ND		ND	
4,6-Dinitro-2-methylphenol						ND			ND			ND			ND		ND	

TABLE 2

GRID SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	C1-18.5FT	C1-19.5FT	C1-081722	C2-18FT	C2-19FT	C2-081722	C3-16.5FT	C3-17.5FT	C3-08622	C4-16.5FT	C4-17.5FT	C5-14.5FT	C5-15.5FT
Sample Depth						18.5	19.5	19.65	18	19	19.01	16.5	17.5	17.54	16.5	17.5	14.5	15.5
Date Sampled						12/08/2021	12/08/2021	8/17/2022	12/08/2021	12/08/2021	8/17/2022	12/08/2021	12/08/2021	8/16/2022	12/08/2021	12/08/2021	12/08/2021	12/08/2021
Sample Matrix						SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
Units						ug/kg	mg/kg	mg/kg	ug/kg	mg/kg	mg/kg	ug/kg	mg/kg	mg/kg	ug/kg	mg/kg	ug/kg	mg/kg
4-Bromophenyl phenyl ether						ND			ND			ND			ND		ND	
4-Chloro-3-methylphenol						ND			ND			ND			ND		ND	
4-Chloroaniline						ND			ND			ND			ND		ND	
4-Chlorophenyl phenyl ether						ND			ND			ND			ND		ND	
4-Methylphenol	330	34000	100000	500000	1000000	ND			ND			ND			ND		ND	
4-Nitroaniline						ND			ND			ND			ND		ND	
4-Nitrophenol						ND			ND			ND			ND		ND	
Acenaphthene	20000	100000	100000	500000	1000000	ND			ND			**110** J			ND		ND	
Acenaphthylene	100000	100000	100000	500000	1000000	ND			ND			**32** J			ND		ND	
Acetophenone						ND			ND			ND			ND		ND	
Anthracene	100000	100000	100000	500000	1000000	ND			ND			**480**			ND		ND	
Atrazine						ND			ND			ND			ND		ND	
Benzaldehyde						ND			ND			ND			ND		ND	
Benzo[a]anthracene	1000	1000	1000	5600	11000	ND			ND			**450**			ND		ND	
Benzo[a]pyrene	1000	1000	1000	1000	1100	ND			ND			**320**			ND		ND	
Benzo[b]fluoranthene	1000	1000	1000	5600	11000	ND			ND			**390**			ND		ND	
Benzo[g,h,i]perylene	100000	100000	100000	500000	1000000	ND			ND			**140** J			ND		ND	
Benzo[k]fluoranthene	800	1000	3900	56000	110000	ND			ND			**140** J			ND		ND	
Bis(2-chloroethoxy)methane						ND			ND			ND			ND		ND	
Bis(2-chloroethyl)ether						ND			ND			ND			ND		ND	
Bis(2-ethylhexyl) phthalate						ND			**88** J			ND			ND		ND	
Butyl benzyl phthalate						ND			ND			ND			ND		ND	
Caprolactam						ND			ND			ND			ND		ND	
Carbazole						ND			ND			**64** J			ND		ND	
Chrysene	1000	1000	3900	56000	110000	ND			ND			**430**			ND		ND	
Di-n-butyl phthalate						ND			ND			ND			ND		ND	
Di-n-octyl phthalate						ND			ND			ND			ND		ND	
Dibenz(a,h)anthracene	330	330	330	560	1100	ND			ND			**54** J			ND		ND	
Dibenzofuran	7000	14000	59000	350000	1000000	ND			ND			**130** J			ND		ND	
Diethyl phthalate						ND			ND			ND			ND		ND	
Dimethyl phthalate						ND			ND			ND			ND		ND	
Fluoranthene	100000	100000	100000	500000	1000000	ND			ND			**930**			**24** J		**34** J	
Fluorene	30000	100000	100000	500000	1000000	ND			ND			**280**			ND		ND	
Hexachlorobenzene	330	330	1200	6000	12000	ND			ND			ND			ND		ND	
Hexachlorobutadiene						ND			ND			ND			ND		ND	
Hexachlorocyclopentadiene						ND			ND			ND			ND		ND	
Hexachloroethane						ND			ND			ND			ND		ND	
Indeno[1,2,3-cd]pyrene	500	500	500	5600	11000	ND			ND			**130** J			ND		ND	
Isophorone						ND			ND			ND			ND		ND	
N-Nitrosodi-n-propylamine						ND			ND			ND			ND		ND	
N-Nitrosodiphenylamine						ND			ND			ND			ND		ND	
Naphthalene	12000	100000	100000	500000	1000000	ND			ND			**180** J			ND		ND	
Nitrobenzene						ND			ND			ND			ND		ND	
Pentachlorophenol	800	2400	6700	6700	55000	ND			ND			ND			ND		ND	
Phenanthrene	100000	100000	100000	500000	1000000	ND			ND			**1100**			ND		**34** J	
Phenol	330	100000	100000	500000	1000000	ND			ND			ND			ND		ND	

TABLE 2

GRID SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	C1-18.5FT	C1-19.5FT	C1-081722	C2-18FT	C2-19FT	C2-081722	C3-16.5FT	C3-17.5FT	C3-08622	C4-16.5FT	C4-17.5FT	C5-14.5FT	C5-15.5FT
Sample Depth						18.5	19.5	19.65	18	19	19.01	16.5	17.5	17.54	16.5	17.5	14.5	15.5
Date Sampled						12/08/2021	12/08/2021	8/17/2022	12/08/2021	12/08/2021	8/17/2022	12/08/2021	12/08/2021	8/16/2022	12/08/2021	12/08/2021	12/08/2021	12/08/2021
Sample Matrix						SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
Units						ug/kg	mg/kg	mg/kg	ug/kg	mg/kg	mg/kg	ug/kg	mg/kg	mg/kg	ug/kg	mg/kg	ug/kg	mg/kg
Pyrene	100000	100000	100000	500000	1000000	ND			ND			740			ND		27 J	
Pesticides - ug/kg																		
4,4'-DDD	3.3	2600	13000	92000	180000	ND			ND			ND			ND		ND	
4,4'-DDE	3.3	1800	8900	62000	120000	ND			ND			ND			ND		ND	
4,4'-DDT	3.3	1700	7900	47000	94000	ND			ND			ND			ND		ND	
Aldrin	5	19	97	680	1400	ND			ND			ND			ND		ND	
alpha-BHC	20	97	480	3400	6800	ND			ND			ND			ND		ND	
cis-Chlordane	94	910	4200	24000	47000	ND			ND			ND			ND		ND	
beta-BHC	36	72	360	3000	14000	ND			ND			ND			ND		0.88 J	
delta-BHC	40	100000	100000	500000	1000000	ND			ND			ND			ND		0.75 J	
Dieldrin	5	39	200	1400	2800	ND			ND			ND			ND		ND	
Endosulfan I	2400	4800	24000	200000	920000	ND			ND			ND			ND		ND	
Endosulfan II	2400	4800	24000	200000	920000	ND			ND			ND			0.56 JB		1.2 JB	
Endosulfan sulfate	2400	4800	24000	200000	920000	ND			ND			ND			ND		ND	
Endrin	14	2200	11000	89000	410000	ND			ND			ND			ND		ND	
Endrin aldehyde						ND			ND			ND			ND		ND	
Endrin ketone						ND			ND			ND			ND		ND	
gamma-BHC (Lindane)	100	280	1300	9200	23000	ND			ND			ND			ND		ND	
trans-Chlordane						ND			ND			ND			ND		ND	
Heptachlor	42	420	2100	15000	29000	ND			ND			ND			ND		ND	
Heptachlor epoxide						ND			ND			ND			ND		ND	
Methoxychlor						ND			ND			ND			ND		ND	
Toxaphene						ND			ND			ND			ND		ND	
PCBs - mg/kg																		
PCB-1016	0.1	1	1	1	25	ND			ND			ND			ND		ND	
PCB-1221	0.1	1	1	1	25	ND			ND			ND			ND		ND	
PCB-1232	0.1	1	1	1	25	ND			ND			ND			ND		ND	
PCB-1242	0.1	1	1	1	25	ND			ND			ND			ND		ND	
PCB-1248	0.1	1	1	1	25	ND			ND			ND			ND		ND	
PCB-1254	0.1	1	1	1	25	ND			ND			ND			ND		ND	
PCB-1260	0.1	1	1	1	25	ND			ND			ND			ND		ND	
Herbicides - ug/kg																		
2,4,5-T						ND			ND			ND			ND		ND	
Silvex (2,4,5-TP)	3800	58000	100000	500000	1000000	ND			ND			ND			ND		ND	
2,4-D						ND			ND			ND			ND		ND	
Dichlorprop						ND			ND			ND			ND		ND	
Picloram						ND			ND			ND			ND		ND	
Pentachlorophenol	800	2400	6700	6700	55000	ND			ND			ND			ND		ND	
Metals - mg/kg																		
Aluminum						18900			19200			14800			10400		16500	
Mercury	0.18	0.81	0.81	2.8	5.7	0.038			0.042			0.070			0.20	0.024	0.062	
Antimony						2.5 J			5.0 J			2.5 J			7.6 J		2.4 J	
Arsenic	13	16	16	16	16	4.1			14.6	3.5		4.8			11.0		4.8	
Barium	350	350	400	400	10000	95.0			102			92.0			153		101	
Beryllium	7.2	14	72	590	2700	0.90			0.96			0.67			0.48		0.76	

TABLE 2

GRID SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID / Sample Depth / Date Sampled / Sample Matrix / Units	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	C1-18.5FT	C1-19.5FT	C1-081722	C2-18FT	C2-19FT	C2-081722	C3-16.5FT	C3-17.5FT	C3-08622	C4-16.5FT	C4-17.5FT	C5-14.5FT	C5-15.5FT
Sample Depth						18.5	19.5	19.65	18	19	19.01	16.5	17.5	17.54	16.5	17.5	14.5	15.5
Date Sampled						12/08/2021	12/08/2021	8/17/2022	12/08/2021	12/08/2021	8/17/2022	12/08/2021	12/08/2021	8/16/2022	12/08/2021	12/08/2021	12/08/2021	12/08/2021
Sample Matrix						SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
Units						ug/kg	mg/kg	mg/kg	ug/kg	mg/kg	mg/kg	ug/kg	mg/kg	mg/kg	ug/kg	mg/kg	ug/kg	mg/kg
Cadmium	2.5	2.5	4.3	9.3	60	**0.34**			**0.26**			**0.23** J			**0.29**		**0.17** J	
Calcium						**1220** B			**1870** B			**3100** B			**56600** B		**3170** B	
Chromium	30	36	180	1500	6800	**23.9**			**24.9**			**19.7**			**21.9**		**21.9**	
Cobalt						**12.4**			**17.4**			**10.4**			**8.9**		**10.4**	
Copper	50	270	270	270	10000	**21.9**			**26.2**			**20.5**			**56.1**	**14.1**	**24.8**	
Iron						**26200** ^+			**37800** ^+			**23000** ^+			**48400** ^+		**23800** ^+	
Lead	63	400	400	1000	3900	**24.4**			**24.6**			**23.4**			**172**	**16.3**	**53.8**	
Magnesium						**4390** B			**4330**			**3710**			**11600**		**4320**	
Manganese	1600	2000	2000	10000	10000	**196** B			**479** B			**521** B			**445** B		**279** B	
Nickel	30	140	310	310	10000	**37.3**	**36.9**	**8.87**	**47.5**	**40.5**	**25.2**	**33.8**	**37.0**	**21.9**	**27.2**		**31.5**	**32.0**
Potassium						**1730**			**3020**			**2350**			**2910**		**2320**	
Selenium	3.9	36	180	1500	6800	**2.6** J			**3.2** J			**1.9** J			**4.6** J	ND	**2.2** J	
Silver	2	36	180	1500	6800	ND			ND			ND			ND		ND	
Sodium						**688**			**1470** B			**629** B			**395** B		**372** B	
Thallium						ND			ND			ND			ND		ND	
Vanadium						**32.6**			**38.6**			**27.3**			**23.5**		**30.2**	
Zinc	109	2200	10000	10000	10000	**94.6**			**91.0**			**71.9**			**190**	**56.6**	**97.7**	

Analytical Data compared to Part 375 Standards and DER-10

ND indicates analyte was not detected.

Blank space indicates analyte was not analyzed for in that sample.

*+ - LCS and/or LCSD is outside acceptance limits, high biased.

^+ - Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

B - Compound was found in the blank and sample.

F1 - MS and/or MSD recovery exceeds control limits.

F2 - MS/MSD RPD exceeds control limits

H - Sample was prepped or analyzed beyond the specified holding time

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

vs - Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being col

TABLE 2

GRID SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	C5-07212022	C6-15FT	C6-16FT	C7-15FT	C7-16FT	D1-18.5FT	D1-19.5FT	D1-082322
Sample Depth						15.53	15	16	15	16	18.5	19.5	19.54
Date Sampled						7/21/2022	12/08/2021	12/08/2021	12/07/2021	12/07/2021	12/07/2021	12/07/2021	8/23/2022
Sample Matrix						SO	SO	SO	SO	SO	SO	SO	SO
Units						mg/kg	ug/kg	mg/kg	ug/kg	mg/kg	ug/kg	mg/kg	mg/kg
VOCs - ug/kg													
1,1,1-Trichloroethane	680	100000	100000	500000	1000000		ND vs		ND vs		ND vs		
1,1,2,2-Tetrachloroethane							ND vs		ND vs		ND vs		
1,1,2-Trichloro-1,2,2-trifluoroethane							ND vs		ND vs		ND vs		
1,1,2-Trichloroethane							ND vs		ND vs		ND vs		
1,1-Dichloroethane	270	19000	26000	240000	480000		ND vs		ND vs		ND vs		
1,1-Dichloroethene	330	100000	100000	500000	1000000		ND vs		ND vs		ND vs		
1,2,4-Trichlorobenzene							ND vs		ND vs		ND vs		
1,2-Dibromo-3-Chloropropane							ND vs		ND vs		ND vs		
1,2-Dibromoethane							ND vs		ND vs		ND vs		
1,2-Dichlorobenzene	1100	100000	100000	500000	1000000		ND vs		ND vs		ND vs		
1,2-Dichloroethane		2300	3100	30000	60000		ND vs		ND vs		ND vs		
1,2-Dichloropropane							ND vs		ND vs		ND vs		
1,3-Dichlorobenzene	2400	17000	49000	280000	560000		ND vs		ND vs		ND vs		
1,4-Dichlorobenzene	1800	9800	13000	130000	250000		ND vs		ND vs		ND vs		
2-Butanone (MEK)	120	100000	100000	500000	1000000		ND vs		ND vs		ND vs		
2-Hexanone							ND vs		ND vs		ND vs		
4-Methyl-2-pentanone (MIBK)							ND vs		ND vs		ND vs		
Acetone	50	100000	100000	500000	1000000		**15 Jvs**		**20 Jvs**		**39 vs**		
Benzene	60	2900	4800	44000	89000		ND vs		ND vs		ND vs		
Bromodichloromethane							ND vs		ND vs		ND vs		
Bromoform							ND vs		ND vs		ND vs		
Bromomethane							ND vs		ND vs		ND vs		
Carbon disulfide							ND vs		ND vs		ND vs		
Carbon tetrachloride	760	1400	2400	22000	44000		ND vs		ND vs		ND vs		
Chlorobenzene	1100	100000	100000	500000	1000000		ND vs		ND vs		ND vs		
Chloroethane							ND vs		ND vs		ND vs		
Chloroform	370	10000	49000	350000	700000		ND vs		ND vs		ND vs		
Chloromethane							ND vs		ND vs		ND vs		
cis-1,2-Dichloroethene	250	59000	100000	500000	1000000		ND vs		ND vs		ND vs		
cis-1,3-Dichloropropene							ND vs		ND vs		ND vs		
Cyclohexane							ND vs		ND vs		ND vs		
Dibromochloromethane							ND vs		ND vs		ND vs		
Dichlorodifluoromethane							ND vs		ND vs		ND vs		
Ethylbenzene	1000	30000	41000	390000	780000		ND vs		ND vs		ND vs		
Isopropylbenzene							ND vs		ND vs		ND vs		
Methyl acetate							ND vs		ND vs		ND vs		
Methyl tert-butyl ether	930	62000	100000	500000	1000000		ND vs		ND vs		ND vs		
Methylcyclohexane							ND vs		ND vs		ND vs		
Methylene Chloride	50	51000	100000	500000	1000000		ND vs		ND vs		ND vs		
Styrene							ND vs		ND vs		ND vs		
Tetrachloroethene	1300	5500	19000	150000	300000		ND vs		ND vs		ND vs		
Toluene	700	100000	100000	500000	1000000		ND vs		ND vs		ND vs		
trans-1,2-Dichloroethene	190	100000	100000	500000	1000000		ND vs		ND vs		ND vs		
trans-1,3-Dichloropropene							ND vs		ND vs		ND vs		
Trichloroethene	470	10000	21000	200000	400000		ND vs		ND vs		ND vs		

TABLE 2

GRID SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	C5-07212022	C6-15FT	C6-16FT	C7-15FT	C7-16FT	D1-18.5FT	D1-19.5FT	D1-082322
Sample Depth						15.53	15	16	15	16	18.5	19.5	19.54
Date Sampled						7/21/2022	12/08/2021	12/08/2021	12/07/2021	12/07/2021	12/07/2021	12/07/2021	8/23/2022
Sample Matrix						SO	SO	SO	SO	SO	SO	SO	SO
Units						mg/kg	ug/kg	mg/kg	ug/kg	mg/kg	ug/kg	mg/kg	mg/kg
Trichlorofluoromethane							ND vs		ND vs		ND vs		
Vinyl chloride	20	210	900	13000	27000		ND vs		ND vs		ND vs		
Xylenes, Total	260	100000	100000	500000	1000000		ND vs		ND vs		ND vs		
PFAS - ng/g													
Perfluorohexanoic acid							ND		ND		ND		
Perfluoroheptanoic acid (PFOA)	0.66	6.6	33	500	600		ND		ND		ND		
Perfluorooctanoic acid							ND		ND		ND		
Perfluorononanoic acid							ND		ND		ND		
Perfluorodecanoic acid							ND		ND		ND		
Perfluorotridecanoic acid							ND		ND		ND		
Perfluorotetradecanoic acid							ND		ND		ND		
Perfluorobutanesulfonic acid							ND		ND		ND		
Perfluorohexanesulfonic acid							ND		ND		ND		
Perfluorooctanesulfonic acid (PFOS)	0.88	8.8	44	440	440		ND		ND		ND		
NEtFOSAA							ND		ND		ND		
NMeFOSAA							ND		ND		ND		
Perfluoroheptanesulfonic acid							ND		ND		ND		
Perfluorodecanesulfonic acid							ND		ND		ND		
Perfluorooctanesulfonamide							ND		ND		ND		
Perfluorobutanoic acid							ND		ND		ND		
Perfluoroundecanoic acid							ND		ND		ND		
Perfluorododecanoic acid							ND		ND		ND		
6:2 Fluorotelomer sulfonic acid							ND		ND		ND		
8:2 Fluorotelomer sulfonic acid							ND		ND		ND		
Perfluoropentanoic acid							ND		ND		ND		
SVOCs - ug/kg													
Biphenyl							ND		ND		ND		
bis (2-chloroisopropyl) ether							ND		ND		ND		
2,4,5-Trichlorophenol							ND		ND		ND		
2,4,6-Trichlorophenol							ND		ND		ND		
2,4-Dichlorophenol							ND		ND		ND		
2,4-Dimethylphenol							ND		ND		ND		
2,4-Dinitrophenol							ND		ND		ND		
2,4-Dinitrotoluene							ND		ND		ND		
2,6-Dinitrotoluene							ND		ND		ND		
2-Chloronaphthalene							ND		ND		ND		
1,4-Dioxane	100	9800	13000	130000	250000		ND		ND		ND		
2-Chlorophenol							ND		ND		ND		
2-Methylnaphthalene							ND		ND		ND		
2-Methylphenol	330	100000	100000	500000	1000000		ND		ND		ND		
2-Nitroaniline							ND		ND		ND		
2-Nitrophenol							ND		ND		ND		
3,3'-Dichlorobenzidine							ND		ND		ND		
3-Nitroaniline							ND		ND		ND		
4,6-Dinitro-2-methylphenol							ND		ND *+		ND *+		

TABLE 2

GRID SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID Sample Depth Date Sampled Sample Matrix Units	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	C5-07212022 15.53 7/21/2022 SO mg/kg	C6-15FT 15 12/08/2021 SO ug/kg	C6-16FT 16 12/08/2021 SO mg/kg	C7-15FT 15 12/07/2021 SO ug/kg	C7-16FT 16 12/07/2021 SO mg/kg	D1-18.5FT 18.5 12/07/2021 SO ug/kg	D1-19.5FT 19.5 12/07/2021 SO mg/kg	D1-082322 19.54 8/23/2022 SO mg/kg
4-Bromophenyl phenyl ether							ND		ND		ND		
4-Chloro-3-methylphenol							ND		ND		ND		
4-Chloroaniline							ND		ND		ND		
4-Chlorophenyl phenyl ether							ND		ND		ND		
4-Methylphenol	330	34000	100000	500000	1000000		ND		ND		ND		
4-Nitroaniline							ND		ND		ND		
4-Nitrophenol							ND		ND		ND		
Acenaphthene	20000	100000	100000	500000	1000000		ND		ND		ND		
Acenaphthylene	100000	100000	100000	500000	1000000		ND		ND		ND		
Acetophenone							ND		ND		ND		
Anthracene	100000	100000	100000	500000	1000000		ND		ND		ND		
Atrazine							ND		ND		ND		
Benzaldehyde							ND		ND		ND		
Benzo[a]anthracene	1000	1000	1000	5600	11000		ND		**89** J		ND		
Benzo[a]pyrene	1000	1000	1000	1000	1100		ND		**70** J		ND		
Benzo[b]fluoranthene	1000	1000	1000	5600	11000		ND		**89** J		ND		
Benzo[g,h,i]perylene	100000	100000	100000	500000	1000000		ND		**37** J		ND		
Benzo[k]fluoranthene	800	1000	3900	56000	110000		ND		**34** J		ND		
Bis(2-chloroethoxy)methane							ND		ND		ND		
Bis(2-chloroethyl)ether							ND		ND		ND		
Bis(2-ethylhexyl) phthalate							ND		ND		ND		
Butyl benzyl phthalate							ND		ND		ND		
Caprolactam							ND		ND		ND		
Carbazole							ND		**25** J		ND		
Chrysene	1000	1000	3900	56000	110000		ND		**85** J		ND		
Di-n-butyl phthalate							ND		ND		ND		
Di-n-octyl phthalate							ND		ND		ND		
Dibenz(a,h)anthracene	330	330	330	560	1100		ND		ND		ND		
Dibenzofuran	7000	14000	59000	350000	1000000		ND		ND		ND		
Diethyl phthalate							ND		ND		ND		
Dimethyl phthalate							ND		ND		ND		
Fluoranthene	100000	100000	100000	500000	1000000		ND		**210** J		ND		
Fluorene	30000	100000	100000	500000	1000000		ND		**26** J		ND		
Hexachlorobenzene	330	330	1200	6000	12000		ND		ND		ND		
Hexachlorobutadiene							ND		ND		ND		
Hexachlorocyclopentadiene							ND		ND		ND		
Hexachloroethane							ND		ND		ND		
Indeno[1,2,3-cd]pyrene	500	500	500	5600	11000		ND		**48** J		ND		
Isophorone							ND		ND		ND		
N-Nitrosodi-n-propylamine							ND		ND		ND		
N-Nitrosodiphenylamine							ND		ND		ND		
Naphthalene	12000	100000	100000	500000	1000000		ND		ND		ND		
Nitrobenzene							ND		ND		ND		
Pentachlorophenol	800	2400	6700	6700	55000		ND		ND		ND		
Phenanthrene	100000	100000	100000	500000	1000000		ND		**220**		ND		
Phenol	330	100000	100000	500000	1000000		ND		ND		ND		

TABLE 2

GRID SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	C5-07212022	C6-15FT	C6-16FT	C7-15FT	C7-16FT	D1-18.5FT	D1-19.5FT	D1-082322
Sample Depth						15.53	15	16	15	16	18.5	19.5	19.54
Date Sampled						7/21/2022	12/08/2021	12/08/2021	12/07/2021	12/07/2021	12/07/2021	12/07/2021	8/23/2022
Sample Matrix						SO	SO	SO	SO	SO	SO	SO	SO
Units						mg/kg	ug/kg	mg/kg	ug/kg	mg/kg	ug/kg	mg/kg	mg/kg
Pyrene	100000	100000	100000	500000	1000000		ND		170 J		ND		
Pesticidies - ug/kg													
4,4'-DDD	3.3	2600	13000	92000	180000		ND		ND		ND		
4,4'-DDE	3.3	1800	8900	62000	120000		ND		ND		ND		
4,4'-DDT	3.3	1700	7900	47000	94000		ND		ND		ND		
Aldrin	5	19	97	680	1400		ND		ND		ND		
alpha-BHC	20	97	480	3400	6800		ND		ND		ND		
cis-Chlordane	94	910	4200	24000	47000		ND		ND		ND		
beta-BHC	36	72	360	3000	14000		ND		ND		ND		
delta-BHC	40	100000	100000	500000	1000000		ND		ND		ND		
Dieldrin	5	39	200	1400	2800		ND		ND		ND		
Endosulfan I	2400	4800	24000	200000	920000		ND		ND		ND		
Endosulfan II	2400	4800	24000	200000	920000		ND		ND		ND		
Endosulfan sulfate	2400	4800	24000	200000	920000		ND		ND		ND		
Endrin	14	2200	11000	89000	410000		ND		ND		ND		
Endrin aldehyde							ND		ND		ND		
Endrin ketone							ND		ND		ND		
gamma-BHC (Lindane)	100	280	1300	9200	23000		ND		ND		0.60 J		
trans-Chlordane							ND		ND		ND		
Heptachlor	42	420	2100	15000	29000		ND		ND		ND		
Heptachlor epoxide							ND		ND		ND		
Methoxychlor							ND		0.93 J		ND		
Toxaphene							ND		ND		ND		
PCBs - mg/kg													
PCB-1016	0.1	1	1	1	25		ND		ND		ND		
PCB-1221	0.1	1	1	1	25		ND		ND		ND		
PCB-1232	0.1	1	1	1	25		ND		ND		ND		
PCB-1242	0.1	1	1	1	25		ND		ND		ND		
PCB-1248	0.1	1	1	1	25		ND		ND		ND		
PCB-1254	0.1	1	1	1	25		ND		ND		ND		
PCB-1260	0.1	1	1	1	25		ND		ND		ND		
Herbicidies - ug/kg													
2,4,5-T							ND		ND		ND		
Silvex (2,4,5-TP)	3800	58000	100000	500000	1000000		ND		ND		ND		
2,4-D							ND		ND		ND		
Dichlorprop							ND		ND		ND		
Picloram							ND		ND *+		ND *+		
Pentachlorophenol	800	2400	6700	6700	55000		ND		ND		ND		
Metals - mg/kg													
Aluminum							14500		14200		16400		
Mercury	0.18	0.81	0.81	2.8	5.7		0.067		0.88	0.032	0.019 J		
Antimony							3.9 J		2.4 J		1.8 J		
Arsenic	13	16	16	16	16		10.9		7.4		3.7		
Barium	350	350	400	400	10000		82.7		92.9		89.1		
Beryllium	7.2	14	72	590	2700		0.77		0.68		0.65		

TABLE 2

GRID SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	C5-07212022	C6-15FT	C6-16FT	C7-15FT	C7-16FT	D1-18.5FT	D1-19.5FT	D1-082322
Sample Depth						15.53	15	16	15	16	18.5	19.5	19.54
Date Sampled						7/21/2022	12/08/2021	12/08/2021	12/07/2021	12/07/2021	12/07/2021	12/07/2021	8/23/2022
Sample Matrix						SO	SO	SO	SO	SO	SO	SO	SO
Units						mg/kg	ug/kg	mg/kg	ug/kg	mg/kg	ug/kg	mg/kg	mg/kg
Cadmium	2.5	2.5	4.3	9.3	60		0.21 J		0.35		0.23 J		
Calcium							2700 B		11400 B		2370 B		
Chromium	30	36	180	1500	6800		20.4		20.4		21.9		
Cobalt							14.7		11.0		12.1		
Copper	50	270	270	270	10000		30.8		33.0		20.8		
Iron							33000 ^+		22800 ^+		20500 ^+		
Lead	63	400	400	1000	3900		28.1		136	10.6	14.8		
Magnesium							3970		5350		4320		
Manganese	1600	2000	2000	10000	10000		427 B		360 B		294 B		
Nickel	30	140	310	310	10000	10.2	40.1	10.1	29.7		34.5	32.1	10.4
Potassium							2290		2500		2390		
Selenium	3.9	36	180	1500	6800		2.9 J		2.3 J		1.6 J		
Silver	2	36	180	1500	6800		ND		ND		ND		
Sodium							399 B		369 B		434 B		
Thallium							ND		ND		ND		
Vanadium							31.2		28.5		29.2		
Zinc	109	2200	10000	10000	10000		83.7		97.3		75.3		

Analytical Data compared to Part 375 Standards and DER-10

ND indicates analyte was not detected.

Blank space indicates analyte was not analyzed for in that sample.

*+ - LCS and/or LCSD is outside acceptance limits, high biased.

^+ - Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

B - Compound was found in the blank and sample.

F1 - MS and/or MSD recovery exceeds control limits.

F2 - MS/MSD RPD exceeds control limits

H - Sample was prepped or analyzed beyond the specified holding time

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

vs - Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being col

TABLE 2

GRID SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID Sample Depth Date Sampled Sample Matrix Units	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	D2-17.5FT 17.5 12/07/2021 SO ug/kg	D3-16.5FT 16.5 12/07/2021 SO ug/kg	D4-16FT 16 12/07/2021 SO ug/kg	D5-15.5FT 15.5 12/07/2021 SO ug/kg	D5-16.5FT 16.5 12/07/2021 SO mg/kg	D6-15.5FT 15.5 12/07/2021 SO ug/kg	D6-16.5FT 16.5 12/07/2021 SO mg/kg	D7-15FT 15 12/07/2021 SO ug/kg	DUP-120721 12/07/2021 SO ug/kg
VOCs - ug/kg														
1,1,1-Trichloroethane	680	100000	100000	500000	1000000	ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
1,1,2,2-Tetrachloroethane						ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
1,1,2-Trichloro-1,2,2-trifluoroethane						ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
1,1,2-Trichloroethane						ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
1,1-Dichloroethane	270	19000	26000	240000	480000	ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
1,1-Dichloroethene	330	100000	100000	500000	1000000	ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
1,2,4-Trichlorobenzene						ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
1,2-Dibromo-3-Chloropropane						ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
1,2-Dibromoethane						ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
1,2-Dichlorobenzene	1100	100000	100000	500000	1000000	ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
1,2-Dichloroethane		2300	3100	30000	60000	ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
1,2-Dichloropropane						ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
1,3-Dichlorobenzene	2400	17000	49000	280000	560000	ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
1,4-Dichlorobenzene	1800	9800	13000	130000	250000	ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
2-Butanone (MEK)	120	100000	100000	500000	1000000	ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
2-Hexanone						ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
4-Methyl-2-pentanone (MIBK)						ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
Acetone	50	100000	100000	500000	1000000	**16 Jvs**	**44 vs**	**8.9 Jvs**	**29 Jvs**		**42 vs**		**18 Jvs**	**14 Jvs**
Benzene	60	2900	4800	44000	89000	ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
Bromodichloromethane						ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
Bromoform						ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
Bromomethane						ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
Carbon disulfide						ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
Carbon tetrachloride	760	1400	2400	22000	44000	ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
Chlorobenzene	1100	100000	100000	500000	1000000	ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
Chloroethane						ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
Chloroform	370	10000	49000	350000	700000	ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
Chloromethane						ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
cis-1,2-Dichloroethene	250	59000	100000	500000	1000000	ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
cis-1,3-Dichloropropene						ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
Cyclohexane						ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
Dibromochloromethane						ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
Dichlorodifluoromethane						ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
Ethylbenzene	1000	30000	41000	390000	780000	ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
Isopropylbenzene						ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
Methyl acetate						ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
Methyl tert-butyl ether	930	62000	100000	500000	1000000	ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
Methylcyclohexane						ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
Methylene Chloride	50	51000	100000	500000	1000000	ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
Styrene						ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
Tetrachloroethene	1300	5500	19000	150000	300000	ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
Toluene	700	100000	100000	500000	1000000	ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
trans-1,2-Dichloroethene	190	100000	100000	500000	1000000	ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
trans-1,3-Dichloropropene						ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
Trichloroethene	470	10000	21000	200000	400000	ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs

TABLE 2

GRID SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID Sample Depth Date Sampled Sample Matrix Units	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	D2-17.5FT 17.5 12/07/2021 SO ug/kg	D3-16.5FT 16.5 12/07/2021 SO ug/kg	D4-16FT 16 12/07/2021 SO ug/kg	D5-15.5FT 15.5 12/07/2021 SO ug/kg	D5-16.5FT 16.5 12/07/2021 SO mg/kg	D6-15.5FT 15.5 12/07/2021 SO ug/kg	D6-16.5FT 16.5 12/07/2021 SO mg/kg	D7-15FT 15 12/07/2021 SO ug/kg	DUP-120721 12/07/2021 SO ug/kg
Trichlorofluoromethane						ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
Vinyl chloride	20	210	900	13000	27000	ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
Xylenes, Total	260	100000	100000	500000	1000000	ND vs	ND vs	ND vs	ND vs		ND vs		ND vs	ND vs
PFAS - ng/g														
Perfluorohexanoic acid						ND	ND	ND	ND		ND		ND	ND
Perfluoroheptanoic acid (PFOA)	0.66	6.6	33	500	600	ND	ND	ND	ND		ND		ND	ND
Perfluorooctanoic acid						ND	ND	ND	ND		ND		ND	ND
Perfluorononanoic acid						ND	ND	ND	ND		ND		ND	ND
Perfluorodecanoic acid						ND	ND	ND	ND		ND		ND	ND
Perfluorotridecanoic acid						ND	ND	ND	ND		ND		ND	ND
Perfluorotetradecanoic acid						ND	ND	ND	ND		ND		ND	ND
Perfluorobutanesulfonic acid						ND	ND	ND	ND		ND		ND	ND
Perfluorohexanesulfonic acid						ND	ND	ND	ND		ND		ND	ND
Perfluorooctanesulfonic acid (PFOS)	0.88	8.8	44	440	440	ND	ND	ND	ND		ND		ND	ND
NEtFOSAA						ND	ND	ND	ND		ND		ND	ND
NMeFOSAA						ND	ND	ND	ND		ND		ND	ND
Perfluoroheptanesulfonic acid						ND	ND	ND	ND		ND		ND	ND
Perfluorodecanesulfonic acid						ND	ND	ND	ND		ND		ND	ND
Perfluorooctanesulfonamide						ND	ND	ND	ND		ND		ND	ND
Perfluorobutanoic acid						ND	ND	ND	ND		ND		ND	ND
Perfluoroundecanoic acid						ND	ND	ND	ND		ND		ND	ND
Perfluorododecanoic acid						ND	ND	ND	ND		ND		ND	ND
6:2 Fluorotelomer sulfonic acid						ND	ND	ND	ND		ND		ND	ND
8:2 Fluorotelomer sulfonic acid						ND	ND	ND	ND		ND		ND	ND
Perfluoropentanoic acid						ND	ND F1	ND	ND		ND		ND	ND
SVOCs - ug/kg														
Biphenyl						ND	ND	ND	ND		ND		ND	ND
bis (2-chloroisopropyl) ether						ND	ND	ND	ND		ND		ND	ND
2,4,5-Trichlorophenol						ND	ND	ND	ND		ND		ND	ND
2,4,6-Trichlorophenol						ND	ND	ND	ND		ND		ND	ND
2,4-Dichlorophenol						ND	ND	ND	ND		ND		ND	ND
2,4-Dimethylphenol						ND	ND	ND	ND		ND		ND	ND
2,4-Dinitrophenol						ND	ND	ND	ND		ND		ND	ND
2,4-Dinitrotoluene						ND	ND	ND	ND		ND		ND	ND *+
2,6-Dinitrotoluene						ND	ND	ND	ND		ND		ND	ND *+
2-Chloronaphthalene						ND	ND	ND	ND		ND		ND	ND
1,4-Dioxane	100	9800	13000	130000	250000	ND	ND	ND	ND		ND		ND	ND
2-Chlorophenol						ND	ND	ND	ND		ND		ND	ND
2-Methylnaphthalene						ND	ND	ND	ND		ND		ND	ND
2-Methylphenol	330	100000	100000	500000	1000000	ND	ND	ND	ND		ND		ND	ND
2-Nitroaniline						ND	ND	ND	ND		ND		ND	ND *+
2-Nitrophenol						ND	ND	ND	ND		ND		ND	ND
3,3'-Dichlorobenzidine						ND	ND	ND	ND		ND		ND	ND
3-Nitroaniline						ND	ND	ND	ND		ND		ND	ND *+
4,6-Dinitro-2-methylphenol						ND *+	ND *+	ND *+	ND *+		ND *+		ND *+	ND *+

TABLE 2

GRID SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	D2-17.5FT	D3-16.5FT	D4-16FT	D5-15.5FT	D5-16.5FT	D6-15.5FT	D6-16.5FT	D7-15FT	DUP-120721
Sample Depth						17.5	16.5	16	15.5	16.5	15.5	16.5	15	
Date Sampled						12/07/2021	12/07/2021	12/07/2021	12/07/2021	12/07/2021	12/07/2021	12/07/2021	12/07/2021	12/07/2021
Sample Matrix						SO	SO	SO	SO	SO	SO	SO	SO	SO
Units						ug/kg	ug/kg	ug/kg	ug/kg	mg/kg	ug/kg	mg/kg	ug/kg	ug/kg
4-Bromophenyl phenyl ether						ND	ND	ND	ND		ND		ND	ND
4-Chloro-3-methylphenol						ND	ND	ND	ND		ND		ND	ND
4-Chloroaniline						ND	ND	ND	ND		ND		ND	ND
4-Chlorophenyl phenyl ether						ND	ND	ND	ND		ND		ND	ND
4-Methylphenol	330	34000	100000	500000	1000000	ND	ND	ND	ND		ND		ND	ND
4-Nitroaniline						ND	ND	ND	ND		ND		ND	ND *+
4-Nitrophenol						ND	ND	ND	ND		ND		ND	ND
Acenaphthene	20000	100000	100000	500000	1000000	ND	ND	ND	ND		ND		ND	ND
Acenaphthylene	100000	100000	100000	500000	1000000	ND	ND	ND	ND		ND		ND	ND
Acetophenone						ND	ND	ND	ND		ND		ND	ND
Anthracene	100000	100000	100000	500000	1000000	ND	ND	ND	ND		ND		ND	ND
Atrazine						ND	ND	ND	ND		ND		ND	ND
Benzaldehyde						ND	ND	ND	ND		ND		ND	ND
Benzo[a]anthracene	1000	1000	1000	5600	11000	**100** J	ND	ND	ND		ND		**25** J	ND
Benzo[a]pyrene	1000	1000	1000	1000	1100	**75** J	ND	ND	ND		ND		ND	ND
Benzo[b]fluoranthene	1000	1000	1000	5600	11000	**110** J	ND	ND	ND		ND		ND	ND *+
Benzo[g,h,i]perylene	100000	100000	100000	500000	1000000	**42** J	ND	ND	ND		ND		ND	ND
Benzo[k]fluoranthene	800	1000	3900	56000	110000	**40** J	ND	ND	ND		ND		ND	ND *+
Bis(2-chloroethoxy)methane						ND	ND	ND	ND		ND		ND	ND
Bis(2-chloroethyl)ether						ND	ND	ND	ND		ND		ND	ND
Bis(2-ethylhexyl) phthalate						ND	ND	ND	ND		ND		ND	ND
Butyl benzyl phthalate						ND	ND	ND	ND		ND		ND	ND *+
Caprolactam						ND	ND	ND	ND		ND		ND	ND
Carbazole						ND	ND	ND	ND		ND		ND	ND
Chrysene	1000	1000	3900	56000	110000	**100** J	ND	ND	ND		ND		ND	ND
Di-n-butyl phthalate						ND	ND	ND	ND		ND		ND	ND
Di-n-octyl phthalate						ND	ND	ND	ND		ND		ND	ND *+
Dibenz(a,h)anthracene	330	330	330	560	1100	ND	ND	ND	ND		ND		ND	ND
Dibenzofuran	7000	14000	59000	350000	1000000	ND	ND	ND	ND		ND		ND	ND
Diethyl phthalate						ND	ND	ND	ND		ND		ND	ND
Dimethyl phthalate						ND	ND	ND	ND		ND		ND	ND
Fluoranthene	100000	100000	100000	500000	1000000	**240**	ND	**24** J	ND		ND		**32** J	ND
Fluorene	30000	100000	100000	500000	1000000	ND	ND	ND	ND		ND		ND	ND
Hexachlorobenzene	330	330	1200	6000	12000	ND	ND	ND	ND		ND		ND	ND *+
Hexachlorobutadiene						ND	ND	ND	ND		ND		ND	ND
Hexachlorocyclopentadiene						ND	ND	ND	ND		ND		ND	ND
Hexachloroethane						ND	ND	ND	ND		ND		ND	ND
Indeno[1,2,3-cd]pyrene	500	500	500	5600	11000	**56** J	ND	ND	ND		ND		ND	ND
Isophorone						ND	ND	ND	ND		ND		ND	ND
N-Nitrosodi-n-propylamine						ND	ND	ND	ND		ND		ND	ND
N-Nitrosodiphenylamine						ND	ND	ND	ND		ND		ND	ND
Naphthalene	12000	100000	100000	500000	1000000	ND	ND	ND	ND		ND		ND	ND
Nitrobenzene						ND	ND	ND	ND		ND		ND	ND
Pentachlorophenol	800	2400	6700	6700	55000	ND	ND	ND	ND		ND		ND	ND
Phenanthrene	100000	100000	100000	500000	1000000	**150** J	ND	ND	ND		ND		ND	ND
Phenol	330	100000	100000	500000	1000000	ND	ND	ND	ND		ND		ND	ND

TABLE 2

GRID SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	D2-17.5FT	D3-16.5FT	D4-16FT	D5-15.5FT	D5-16.5FT	D6-15.5FT	D6-16.5FT	D7-15FT	DUP-120721
Sample Depth						17.5	16.5	16	15.5	16.5	15.5	16.5	15	
Date Sampled						12/07/2021	12/07/2021	12/07/2021	12/07/2021	12/07/2021	12/07/2021	12/07/2021	12/07/2021	12/07/2021
Sample Matrix						SO	SO	SO	SO	SO	SO	SO	SO	SO
Units						ug/kg	ug/kg	ug/kg	ug/kg	mg/kg	ug/kg	mg/kg	ug/kg	ug/kg
Pyrene	100000	100000	100000	500000	1000000	**180** J	ND	ND	ND		ND		**28** J	ND
Pesticides - ug/kg														
4,4'-DDD	3.3	2600	13000	92000	180000	ND	ND	ND	ND		ND		ND	ND
4,4'-DDE	3.3	1800	8900	62000	120000	ND	ND	ND	ND		ND		ND	ND
4,4'-DDT	3.3	1700	7900	47000	94000	ND	ND	ND	ND		**0.80** J		**1.0** J	ND
Aldrin	5	19	97	680	1400	ND	ND	ND	ND		ND		ND	ND
alpha-BHC	20	97	480	3400	6800	ND	**0.47** J	ND	ND		ND		ND	ND
cis-Chlordane	94	910	4200	24000	47000	ND	ND	ND	ND		ND		ND	ND
beta-BHC	36	72	360	3000	14000	ND	ND	ND	**0.54** J		ND		**0.39** J	ND
delta-BHC	40	100000	100000	500000	1000000	ND	**0.58** J	ND	ND		ND		ND	ND
Dieldrin	5	39	200	1400	2800	ND	ND	ND	ND		ND		ND	ND
Endosulfan I	2400	4800	24000	200000	920000	ND	ND	ND	ND		ND		ND	ND
Endosulfan II	2400	4800	24000	200000	920000	ND	ND	ND	ND		ND		ND	ND
Endosulfan sulfate	2400	4800	24000	200000	920000	ND	ND	ND	ND		ND		ND	ND
Endrin	14	2200	11000	89000	410000	ND	ND	ND	ND		ND		ND	ND
Endrin aldehyde						ND	ND	ND	ND		ND		ND	ND
Endrin ketone						ND	ND	ND	ND		ND		ND	ND
gamma-BHC (Lindane)	100	280	1300	9200	23000	**1.0** J	**0.49** J	ND	**0.57** J		ND		**1.3** J	ND
trans-Chlordane						ND	ND	ND	ND		ND		ND	ND
Heptachlor	42	420	2100	15000	29000	ND	ND	ND	ND		ND		ND	ND
Heptachlor epoxide						ND	ND	ND	ND		ND		ND	ND
Methoxychlor						ND	ND	ND	ND		ND		**0.97** J	ND
Toxaphene						ND	ND	ND	ND		ND		ND	ND
PCBs - mg/kg														
PCB-1016	0.1	1	1	1	25	ND	ND	ND	ND		ND		ND	ND
PCB-1221	0.1	1	1	1	25	ND	ND	ND	ND		ND		ND	ND
PCB-1232	0.1	1	1	1	25	ND	ND	ND	ND		ND		ND	ND
PCB-1242	0.1	1	1	1	25	ND	ND	ND	ND		ND		ND	ND
PCB-1248	0.1	1	1	1	25	ND	ND	ND	ND		ND		ND	ND
PCB-1254	0.1	1	1	1	25	ND	ND	ND	ND		ND		ND	ND
PCB-1260	0.1	1	1	1	25	ND	ND	ND	ND		ND		ND	ND
Herbicides - ug/kg														
2,4,5-T						ND	ND	ND	ND		ND		ND	ND
Silvex (2,4,5-TP)	3800	58000	100000	500000	1000000	ND	ND	ND	ND		ND		ND	ND
2,4-D						ND	ND	ND	ND		ND		ND	ND
Dichlorprop						ND	ND	ND	ND		ND		ND	ND
Picloram						ND *+	ND *+	ND *+	ND *+		ND *+		ND *+	ND
Pentachlorophenol	800	2400	6700	6700	55000	ND	ND	ND	ND		ND		ND	ND
Metals - mg/kg														
Aluminum						**7680**	**10800**	**4840**	**17500**		**15400**		**9950**	**17300**
Mercury	0.18	0.81	0.81	2.8	5.7	**0.11**	**0.052**	**0.052**	**0.042**		**0.039**		**0.021** J	**0.029**
Antimony						**0.95** J	**1.9** J	**0.53** J	**3.9** J		**2.8** J		**1.8** J	**1.3** J
Arsenic	13	16	16	16	16	**3.0**	**4.2**	**5.2**	**8.2**		**6.4**		**4.2**	**5.6**
Barium	350	350	400	400	10000	**47.6**	**65.4**	**34.2**	**96.1**		**82.2**		**56.6**	**109**
Beryllium	7.2	14	72	590	2700	**0.33**	**0.49**	**0.20** J	**0.89**		**0.74**		**0.46**	**0.77**

TABLE 2

GRID SOIL SAMPLE RESULTS
HERITAGE POINT SITE
BCP SITE #C915347

Location ID Sample Depth Date Sampled Sample Matrix Units	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial Use	Industrial Use	D2-17.5FT 17.5 12/07/2021 SO ug/kg	D3-16.5FT 16.5 12/07/2021 SO ug/kg	D4-16FT 16 12/07/2021 SO ug/kg	D5-15.5FT 15.5 12/07/2021 SO ug/kg	D5-16.5FT 16.5 12/07/2021 SO mg/kg	D6-15.5FT 15.5 12/07/2021 SO ug/kg	D6-16.5FT 16.5 12/07/2021 SO mg/kg	D7-15FT 15 12/07/2021 SO ug/kg	DUP-120721 12/07/2021 SO ug/kg
Cadmium	2.5	2.5	4.3	9.3	60	**0.24**	**0.51**	**0.21 J**	**0.26 J**		**0.18 J**		**0.10 J**	**0.25**
Calcium						**18000 B**	**4880 B**	**78300 B**	**6310 B**		**2080 B**		**3640 B**	**3310**
Chromium	30	36	180	1500	6800	**11.5**	**15.3**	**8.9**	**26.8**		**20.8**		**14.6**	**22.4**
Cobalt						**5.1**	**7.6**	**2.6**	**15.6**		**12.6**		**7.5**	**12.5**
Copper	50	270	270	270	10000	**13.1**	**20.8**	**8.8**	**33.9**		**21.0**		**16.6**	**24.6**
Iron						**10900 ^+**	**19100 ^+**	**7240 ^+**	**34500 ^+**		**26500 ^+**		**18000 ^+**	**26800**
Lead	63	400	400	1000	3900	**29.6**	**12.6**	**41.5**	**29.1**		**21.4**		**21.0**	**13.3**
Magnesium						**5820**	**2920**	**36400**	**4780**		**4040**		**3120**	**4140**
Manganese	1600	2000	2000	10000	10000	**180 B**	**168 B**	**309 B**	**431 B**		**393 B**		**151 B**	**321 B**
Nickel	30	140	310	310	10000	**13.8**	**22.4**	**6.2**	**43.9**	**17.8**	**35.6**	**25.2**	**21.3**	**39.2**
Potassium						**1510**	**2130**	**1440**	**2540**		**2500**		**2050**	**2790**
Selenium	3.9	36	180	1500	6800	**0.93 J**	**1.4 J**	ND	**3.2 J**		**2.2 J**		**1.0 J**	ND
Silver	2	36	180	1500	6800	ND	ND	ND	ND		ND		ND	ND
Sodium						**547 B**	**365 B**	**425 B**	**482 B**		**432 B**		**451 B**	**429**
Thallium						ND	ND	ND	ND		ND		ND	**0.34 J**
Vanadium						**16.6**	**21.7**	**12.6**	**37.2**		**30.4**		**26.3**	**30.9**
Zinc	109	2200	10000	10000	10000	**57.4**	**57.1**	**48.7**	**91.4**		**77.6**		**56.1**	**73.0**

Analytical Data compared to Part 375 Standards and DER-10

ND indicates analyte was not detected.

Blank space indicates analyte was not analyzed for in that sample.

*+ - LCS and/or LCSD is outside acceptance limits, high biased.

^+ - Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

B - Compound was found in the blank and sample.

F1 - MS and/or MSD recovery exceeds control limits.

F2 - MS/MSD RPD exceeds control limits

H - Sample was prepped or analyzed beyond the specified holding time

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

vs - Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being col

APPENDICES

APPENDIX A

SOIL BORING LOGS

C&S COMPANIES	C&S Engineers, Inc. 141 Elm Street Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454	BORING LOG	Boring No.: P-A1
			Sheet 1 of: 1
			Project No.:

Project Name:	Heritage Point	Surface Elev.:	
Location:	130 Main Street, Erie County, New York	Datum:	
Client:	Sinatra Development Company, LLC	Start Date:	12/7/21
Drilling Firm:	Matrix Environmental Tech	Finish Date:	/

Groundwater	Depth	Date & Time	Drill Rig:				Inspector:	C. Martin
While Drilling:			Casing:		Rock Core:		Undist:	
Before Casing Removal:			Sampler:		Other:			
After Casing Removal:			Hammer:					

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION c - coarse, m - medium, f - fine a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10% S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1					8:45
2					Weather: partly Sunny, 30°F light wind
3				2.6' FILL	
4					0ppm
5					
6				2.5' Gravel FILL	
7					
8					
9					
10					
11					
12				No Sample	
13					
14					
15					
16					
17					
18				1.7' dk br Silt trace Clay moist	
19					
20				0.6' SAND-fine, moist	
21					
22				Sampled @ 2'	
23					

C&S COMPANIES	C&S Engineers, Inc. 141 Elm Street Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454	**BORING LOG**	**Boring No.:**	P-A2
			Sheet 1 of:	
			Project No.:	
Project Name:	Heritage Point		**Surface Elev.:**	
Location:	130 Main Street, Erie County, New York		**Datum:**	
Client:	Sinatra Development Company, LLC		**Start Date:**	12/7/21
Drilling Firm:	Matrix Environmental Tech		**Finish Date:**	
Groundwater	**Depth**	**Date & Time**	**Drill Rig:**	
While Drilling:			**Inspector:**	C. Martin
Before Casing Removal:			**Casing:**	
After Casing Removal:			**Sampler:**	
			Hammer:	
Rock Core:		**Undist:**	**Other:**	

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION (c - coarse, m - medium, f - fine; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey)	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1					8:30
2					0ppm
3					
4				1.7' FILL - moist	
5					
6					
7				1.4' br Silty CLAY w/ FILL - wet	
8					
9					
10					
11					
12				1.5 grey loose SILT - water saturated	
13				1.2' grey Silty CLAY dense wet	
14					
15				2' grey SILT, wet	
16				2.9' grey loose water saturated Silt	
17					
18				2' dk br ~~Silty~~ Clay SILT some Clay low pl	
19					
20					
21				Sampled @ 1-2'	
22					
23					

C&S COMPANIES

C&S Engineers, Inc.
141 Elm Street
Buffalo, New York 14203
Phone: 716-847-1630
Fax: 716-847-1454

BORING LOG

Project Name:	Heritage Point	**Boring No.**	P-A3
Location:	130 Main Street, Erie County, New York	**Sheet 1 of:**	
Client:	Sinatra Development Company, LLC	**Project No.:**	
Drilling Firm:	Matrix Environmental Tech	**Surface Elev.:**	
		Datum:	
		Start Date:	
		Finish Date:	2/10/21
		Inspector:	C. Martin

Groundwater	Depth	Date & Time		
While Drilling:			**Drill Rig:**	
Before Casing Removal:			**Casing:**	
After Casing Removal:			**Sampler:**	
			Hammer:	

Rock Core: | **Undist:** | **Other:**

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION (c - coarse, m - medium, f - fine; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%)	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1					
2					
3					
4					
5				1,8' FILL moist	
6					
7					
8					
9					
10				1.8 FILL Moist	
11				Refusal @ 8'	
12				Moved Refusal	
13					
14				Sampled 7-8'	
15					
16					
17					
18					
19					
20					
21					
22					
23					

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Fax: 716-847-1454

BORING LOG

Project Name:	Heritage Point	**Boring No.:**	P-A4
Location:	130 Main Street, Erie County, New York	**Sheet 1 of:**	
Client:	Sinatra Development Company, LLC	**Project No.:**	
Drilling Firm:	Matrix Environmental Tech	**Surface Elev.:**	
		Datum:	
		Start Date:	12/6/21
		Finish Date:	/ /
		Inspector:	C. Martin

Groundwater	Depth	Date & Time		
While Drilling:			**Drill Rig:**	
Before Casing Removal:			**Casing:**	**Rock Core:** **Undist:**
After Casing Removal:			**Sampler:**	**Other:**
			Hammer:	

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

c - coarse, m - medium, f - fine; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				1.7' FILL - moist -wet	0ppm
2					
3					
4					
5					
6				~~13~~ 2' FILL, moist	
7					
8				1.5' brown Silty CLAY, dense	
9				moist	
10					
11				5' Silty CLAY br to grey	
12				Soft, moist last 1' w/ organic	
13				Matter	
14					
15					
16				2.2' ~~s~~ water Saturated, dk br	
17				Silt and Clay loose	
18				2.3 dk br Clay SILT organic	
19				Matter	
20					
21				Sampled @ 8'	
22					
23					

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C&S Engineers, Inc.
141 Elm Street
Buffalo, New York 14203
Phone: 716-847-1630
Fax: 716-847-1454

BORING LOG

Project Name:	Heritage Point	**Boring No.**	P-A5
Location:	130 Main Street, Erie County, New York	**Sheet 1 of:**	
Client:	Sinatra Development Company, LLC	**Project No.:**	
Drilling Firm:	Matrix Environmental Tech	**Surface Elev.:**	
		Datum:	
		Start Date:	12/6/21
		Finish Date:	
		Inspector:	C. Martin

Groundwater	Depth	Date & Time				
While Drilling:			**Drill Rig:**			
Before Casing Removal:			**Casing:**		**Rock Core:**	**Undist:**
After Casing Removal:			**Sampler:**		**Other:**	
			Hammer:			

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION c - coarse, m - medium, f - fine a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10% S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				1.3' FILL - dry	0ppm
2					
3					
4					
5					
6				2.6' FILL - moist	
7					
8					
9					
10					
11				0.5' gravel water Sat	
12					
13					
14					
15					
16				1.9' dk brown SILT, wet	
17					
18					
19					
20					
21				Sample @ 10'	
22					
23					

C&S COMPANIES	C&S Engineers, Inc. 141 Elm Street Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454	**BORING LOG**	Boring No.: P-A6 Sheet 1 of: Project No.:

Project Name:	Heritage Point	**Surface Elev.:**	
Location:	130 Main Street, Erie County, New York	**Datum:**	
Client:	Sinatra Development Company, LLC	**Start Date:**	12/6/21
Drilling Firm:	Matrix Environmental Tech	**Finish Date:**	

Groundwater	Depth	Date & Time				
			Drill Rig:		**Inspector:**	C. Martin
While Drilling:			**Casing:**		**Rock Core:**	**Undist:**
Before Casing Removal:			**Sampler:**		**Other:**	
After Casing Removal:			**Hammer:**			

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION c - coarse, m - medium, f - fine a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10% S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				1.9' FILL moist	0ppm
2				.5' Gravel, 0.5' Sub-round	
3				FILL, moist	
4					
5					
6				1' Gravel FILL, moist	
7					
8					
9					
10					
11					
12				5' dense grey Silty CLAY moist	
13				last 6" SILT, wet, grey	
14					
15					
16					
17				1' SILT, dk brown, moist	
18					
19					
20					
21				Sample @ 5'	
22					
23					

C&S COMPANIES

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Buffalo, New York 14203
Phone: 716-847-1630
Fax: 716-847-1454

BORING LOG

Boring No.:	PA7
Sheet 1 of:	
Project No.:	
Surface Elev.:	
Datum:	
Start Date:	
Finish Date:	12/6/21
Inspector:	C. Martin

Project Name:	Heritage Point
Location:	130 Main Street, Erie County, New York
Client:	Sinatra Development Company, LLC
Drilling Firm:	Matrix Environmental Tech

Groundwater	Depth	Date & Time		
While Drilling:			Drill Rig:	
Before Casing Removal:			Casing:	Rock Core: / Undist:
After Casing Removal:			Sampler:	Other:
			Hammer:	

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION (c - coarse, m - medium, f - fine; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%)	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				2.6' FILL - dry	0ppm
2					
3					
4					
5					
6					
7				3.7' FILL - dry	
8					
9					
10					
11				.4' Small angular gravel - coarse Sand, wet	
12					
13				1.5' Silty CLAY, dk grey-black, soft, wet	
14					
15					
16					
17				Sample tube bent	
18					
19					
20					
21				Sampled at 5'-8'	
22				DUP-120621	
23					

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Buffalo, New York 14203
Phone: 716-847-1630
Fax: 716-847-1454

BORING LOG

Project Name:	Heritage Point	***Boring No.***	P-B1
Location:	130 Main Street, Erie County, New York	***Sheet 1 of:***	
Client:	Sinatra Development Company, LLC	***Project No.:***	
Drilling Firm:	Matrix Environmental Tech	***Surface Elev.:***	
		Datum:	
		Start Date:	
		Finish Date:	12/7/21
		Inspector:	C. Martin

Groundwater	*Depth*	*Date & Time*				
While Drilling:			***Drill Rig:***		***Rock Core:***	***Undist:***
Before Casing Removal:			***Casing:***		***Other:***	
After Casing Removal:			***Sampler:***			
			Hammer:			

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

c - coarse, m - medium, f - fine; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1					9:15
2					0ppm
3				2.7' FILL-moist	
4					
5					
6					
7				3.5' FILL-moist to wet	
8					
9					
10					
11					
12				4' FILL-moist	
13					
14					
15					
16				0.9' Coarse Sand and Small	
17				Gravel round water Sat. dk br	
18				2.8' Silty CLAY, gray, Soft	
19				Wet	
20					
21				MS/MSD Sampled 4-5'	
22					
23					

C&S COMPANIES	C&S Engineers, Inc. 141 Elm Street Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454	BORING LOG	Boring No.:	P-B7
			Sheet 1 of:	
			Project No.:	

Project Name:	Heritage Point	**Surface Elev.:**	
Location:	130 Main Street, Erie County, New York	**Datum:**	
Client:	Sinatra Development Company, LLC	**Start Date:**	12/6/21
Drilling Firm:	Matrix Environmental Tech	**Finish Date:**	

Groundwater	Depth	Date & Time	Drill Rig:				Inspector:	C. Martin
While Drilling:			Casing:		Rock Core:		Undist:	
Before Casing Removal:			Sampler:		Other:			
After Casing Removal:			Hammer:					

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	c - coarse, m - medium, f - fine — MATERIAL DESCRIPTION — S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey — a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
				1' Rock	
1				2.4' FILL - moist	0ppm
2					
3					
4					
5					
6				1.4' FILL - moist	
7					
8					
9					
10					
11				1.8' Water Saturated Silt and Clay, organic matter, loose, coarse Sand - dk brown	
12					
13				3' Silty CLAY, grey, dense moist	
14					
15					
16				1' Water Saturated, Silt and Clay, brown, coarse Sand	
17				1.7' Silty CLAY, grey, dense wet	
18				1.7' SILT, grey, wet	
19					
20					
21				Sample @ 5-6'	
22				~~DUP 120621~~	
23					

C&S COMPANIES	C&S Engineers, Inc. 141 Elm Street Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454	**BORING LOG**	**Boring No.:**	P-C1
			Sheet 1 of:	
			Project No.:	

Project Name:	Heritage Point			**Surface Elev.:**	
Location:	130 Main Street, Erie County, New York			**Datum:**	
Client:	Sinatra Development Company, LLC			**Start Date:**	12/7/21
Drilling Firm:	Matrix Environmental Tech			**Finish Date:**	

Groundwater	Depth	Date & Time				
While Drilling:			**Drill Rig:**		**Inspector:**	C. Martin
Before Casing Removal:			**Casing:**		**Rock Core:**	**Undist:**
After Casing Removal:			**Sampler:**		**Other:**	
			Hammer:			

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	**MATERIAL DESCRIPTION** c - coarse, m - medium, f - fine a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10% S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey	**COMMENTS** (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
					9:50
1				3.5' FILL	
2					
3					
4					
5					
6				1.5' FILL	
7				Refusal @ 6.5' moved 3' South	
8					
9				5' FILL	
10					
11				2.6' water sat, brown Gravel s.m. and coarse Sand, w/ Silt trace Clay	
12					
13					
14				2.4' Silty grey CLAY, soft, moist	
15					
16					
17					
18				5' FILL	
19					
20					
21					
22				Sampled @ ~~#~~ 5'	
23					

C&S COMPANIES	C&S Engineers, Inc. 141 Elm Street Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454	**BORING LOG**	***Boring No.***	PD4
			Sheet 1 of:	
			Project No.:	

Project Name:	Heritage Point	***Surface Elev.:***	
Location:	130 Main Street, Erie County, New York	***Datum:***	
Client:	Sinatra Development Company, LLC	***Start Date:***	
Drilling Firm:	Matrix Environmental Tech	***Finish Date:***	

Groundwater	***Depth***	***Date & Time***	***Drill Rig:***				***Inspector:***	C. Martin
While Drilling:			***Casing:***		***Rock Core:***		***Undist:***	
Before Casing Removal:			***Sampler:***		***Other:***			
After Casing Removal:			***Hammer:***					

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	c - coarse, m - medium, f - fine; **MATERIAL DESCRIPTION**; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%	**COMMENTS** (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				0-2.8 - Gravel + Sand	
2					
3					
4					
5	X				
6				0-0.4 - Dark brown sand + little gravel	
7				0.4-1.1 - Dense grey sand + silt, trace gravel 1.1-1.3 - Angular gravel	
8				1.3-2.6 - Dark brown sandy silt, moist, trace gravel	
9					
10					
11				0-0.5 - Sand + little gravel	
12				0.5-1.2 - Brown silty clay, moist 1.2-2.2 - Black silty clay, moist	
13					
14					
15					
16				0-0.6 - Sand + gravel	
17				0.6-4.8 - Grey/Brown silty clay, moist	
18					
19					
20					
21				Sample - 5 ft	
22					
23					

C&S COMPANIES	C&S Engineers, Inc. 141 Elm Street Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454	BORING LOG	Boring No.:	P-D1-2
			Sheet 1 of:	
			Project No.:	

Project Name:	Heritage Point	Surface Elev.:	
Location:	130 Main Street, Erie County, New York	Datum:	
Client:	Sinatra Development Company, LLC	Start Date:	
Drilling Firm:	Matrix Environmental Tech	Finish Date:	

Groundwater	Depth	Date & Time						
			Drill Rig:				Inspector:	C. Martin
While Drilling:			Casing:		Rock Core:		Undist:	
Before Casing Removal:			Sampler:		Other:			
After Casing Removal:			Hammer:					

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION c - coarse, m - medium, f - fine a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10% S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				0-0.6 - Sand + Small gravel 0.6-1.6 - Dense brown clay + Trace gravel 1.6-2.8 - Dark brown Sandy clay + Trace gravel 2.8-3.2 - Dark brown Sandy clay, gravel + brick 3.2-3.7 - Sand + gravel	
2					
3					
4					
5	X				
6				0-0.9 - Sandy gravel, some brick, dry 0.9-3.1 - Dark brown Silty Sand, dry	
7					
8					
9					
10					
11				0-0.8 - Brown Sandy gravel, dry 0.8-3.1 - Dark brown Sandy clay, Trace gravel, moist	
12					
13					
14					
15					
16				No Recovery	
17					
18					
19					
20				Sample @ 5 ft	
21					
22					
23					

C&S COMPANIES	C&S Engineers, Inc. 141 Elm Street Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454	**BORING LOG**	**Boring No.**	P-D2
			Sheet 1 of:	
			Project No.:	

Project Name:	Heritage Point	**Surface Elev.:**	
Location:	130 Main Street, Erie County, New York	**Datum:**	
Client:	Sinatra Development Company, LLC	**Start Date:**	12/6/21
Drilling Firm:	Matrix Environmental Tech	**Finish Date:**	

Groundwater	Depth	Date & Time					
			Drill Rig:			**Inspector:**	C. Martin
While Drilling:			**Casing:**		**Rock Core:**		**Undist:**
Before Casing Removal:			**Sampler:**		**Other:**		
After Casing Removal:			**Hammer:**				

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION c - coarse, m - medium, f - fine a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10% S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				FILL 3.5' Recovered	0ppm
2					
3					
4					
5					
6				FILL 3.2' Recovered	0ppm
7					
8					
9					
10					
11				FILL 4' Recovered	0ppm
12	X			Water Saturated @ 11'	Perched water
13				Black water saturated Silt and Clay loose C&D	
14				Last 1' dense Silty CLAY, grey soft	
15					
16				4' dense dry, grey Silty CLAY	0ppm
17				last 1' loose Silt w/ Clay water Saturated	
18					
19				Sample Collected @ 12'	
20					
21					
22					
23					

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BORING LOG

Project Name:	Heritage Point	Boring No.	P-D3
Location:	130 Main Street, Erie County, New York	Sheet 1 of:	
Client:	Sinatra Development Company, LLC	Project No.:	
Drilling Firm:	Matrix Environmental Tech	Surface Elev.:	
		Datum:	
		Start Date:	12/6/21
		Finish Date:	
		Inspector:	C. Martin

Groundwater	Depth	Date & Time				
While Drilling:			Drill Rig:			
Before Casing Removal:			Casing:		Rock Core:	Undist:
After Casing Removal:			Sampler:		Other:	
			Hammer:			

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

c - coarse, m - medium, f - fine
a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%
S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				FILL - dry - moist Concrete	0ppm
2					
3				4' Recovery	
4					
5					
6				FILL - moist to wet	0ppm
7				2.6' Recovery	
8	X				
9					
10					
11				Black Gravel / coarse Sand / organic	0ppm
12				Water Saturated Clay / Soft, brown 2.8' Recovery	
13					
14					
15					
16				1.5' Water / Black loose Silt and Clay	0ppm
17					
18				Silty CLAY - brown to grey	5' Rec
19				organic matter soft water	
20					
21				Sample @ 8'	
22					
23					

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BORING LOG

Boring No.:	P-D4
Sheet 1 of:	
Project No.:	
Surface Elev.:	
Datum:	
Start Date:	12/6/21
Finish Date:	
Inspector:	C. Martin

Project Name:	Heritage Point
Location:	130 Main Street, Erie County, New York
Client:	Sinatra Development Company, LLC
Drilling Firm:	Matrix Environmental Tech

Groundwater	Depth	Date & Time		
While Drilling:			Drill Rig:	
Before Casing Removal:			Casing:	
After Casing Removal:			Sampler:	
			Hammer:	

Rock Core:		Undist:	
Other:			

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

c - coarse, m - medium, f - fine
a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%
S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1	X			FILL - dry	0ppm
2					2' Rec
3					
4					
5					
6				FILL - dry	0ppm
7					1' Rec
8					drove Rock into tube
9					
10					
11				5' Silty CLAY - grey to	0ppm
12				dark grey - Soft - wet	
13				Organic matter	
14					
15					
16				3' Silty CLAY - water sat.	0ppm
17				grey - Soft	
18				2' Silty, grey, wet	
19					
20					
21				Sampled @ 2'	
22					
23					

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BORING LOG

Boring No.	P-D5
Sheet 1 of:	
Project No.:	
Surface Elev.:	
Datum:	
Start Date:	12/6/21
Finish Date:	
Inspector:	C. Martin
Undist:	

Project Name:	Heritage Point
Location:	130 Main Street, Erie County, New York
Client:	Sinatra Development Company, LLC
Drilling Firm:	Matrix Environmental Tech

Groundwater	**Depth**	**Date & Time**		
While Drilling:			**Drill Rig:**	
Before Casing Removal:			**Casing:**	
After Casing Removal:			**Sampler:**	
			Hammer:	

Rock Core: | **Other:**

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

c - coarse, m - medium, f - fine; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				FILL - dry - Moist	3' Rec
2					0ppm
3					
4					
5					
6	X				
7				2'-FILL-Dry	2.5' Rec
8				2-2.5'-Light Brown Silty Sand, Dry	
9					
10					
11				0-0.5': Brown Silty Sand	
12					5' Rec
13				0.5-5.0'-Grey dense Silty Clay	
14				Dry-Moist	
15					
16				2' Silty CLAY - water Sat	
17					
18				3' Silt - grey-olive water Sat	
19					
20					
21					
22				Sample @ 5'	
23					

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BORING LOG

Project Name:	Heritage Point	Boring No.	P-D6
Location:	130 Main Street, Erie County, New York	Sheet 1 of:	
Client:	Sinatra Development Company, LLC	Project No.:	
Drilling Firm:	Matrix Environmental Tech	Surface Elev.:	
		Datum:	
		Start Date:	12/6/21
		Finish Date:	
		Inspector:	C. Martin

Groundwater	Depth	Date & Time		
While Drilling:			Drill Rig:	
Before Casing Removal:			Casing:	
After Casing Removal:			Sampler:	
			Hammer:	

Rock Core: Undist: Other:

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

c - coarse, m - medium, f - fine
a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%
S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				3.3' FILL	0ppm
2					
3					
4					
5					
6				1.6' FILL	
7					0ppm
8					
9					
10					
11				5' Silty CLAY - grey - dense moist	0ppm
12					
13					
14					
15					
16				2.6' Silty CLAY - wate Sat	0ppm
17				6' Silty wet, grey	
18					
19					
20					
21					
22				Sampled 6-7'	
23					

C&S COMPANIES	C&S Engineers, Inc. 141 Elm Street Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454	**BORING LOG**	*Boring No.*	P-D7
			Sheet 1 of:	
			Project No.:	

Project Name:	Heritage Point	*Surface Elev.:*	
Location:	130 Main Street, Erie County, New York	*Datum:*	
Client:	Sinatra Development Company, LLC	*Start Date:*	12/16/21
Drilling Firm:	Matrix Environmental Tech	*Finish Date:*	

Groundwater	*Depth*	*Date & Time*	*Drill Rig:*			*Inspector:*	C. Martin
While Drilling:			*Casing:*		*Rock Core:*	*Undist:*	
Before Casing Removal:			*Sampler:*		*Other:*		
After Casing Removal:			*Hammer:*				

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	c - coarse, m - medium, f - fine; **MATERIAL DESCRIPTION**; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%	**COMMENTS** (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				2' FILL - moist	0ppm
2					
3					
4					
5					
6				2.1 FILL - Moist	
7					
8					
9					
10					
11				1' FILL - moist	
12					
13					
14					
15					
16				1' Soft Silty CLAY - Saturate	
17					
18					
19					
20					
21				Sampled .5'	
22					
23					

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BORING LOG

Boring No.:	A1	Sheet 1 of:	
Project No.:		Surface Elev.:	
Datum:		Start Date:	12/9/21
Finish Date:		Inspector:	C. Martin

Project Name:	Heritage Point
Location:	130 Main Street, Erie County, New York
Client:	Sinatra Development Company, LLC
Drilling Firm:	Matrix Environmental Tech

Groundwater	Depth	Date & Time		
While Drilling:			Drill Rig:	
Before Casing Removal:			Casing:	Rock Core: Undist:
After Casing Removal:			Sampler:	Other:
			Hammer:	

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

c - coarse, m - medium, f - fine; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				23" FILL - moist	8:45
2					Overcast no wind, 27°F 1" snow cover
3					
4					0 PPM
5					
6				21" FILL - wet	
7					
8					
9					
10					
11				23" FILL - moist	
12					
13				14" dk br Silt, organic matter moist	
14					
15				~~loose water sat FILL above~~	
16				32" Silty CLAY, soft, wet grey	
17					
18					
19					
20					
21					
22					
23					

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BORING LOG

Boring No.	A2		
Sheet 1 of:			
Project No.:			
Project Name:	Heritage Point	Surface Elev.:	
Location:	130 Main Street, Erie County, New York	Datum:	
Client:	Sinatra Development Company, LLC	Start Date:	
Drilling Firm:	Matrix Environmental Tech	Finish Date:	
		Inspector:	C. Martin

Groundwater	Depth	Date & Time	Drill Rig:					
While Drilling:			Casing:		Rock Core:		Undist:	
Before Casing Removal:			Sampler:		Other:			
After Casing Removal:			Hammer:					

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION (c - coarse, m - medium, f - fine; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey)	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				40" FILL - dry	9:15
2					0 ppm
3					
4					
5					
6					
7				4' FILL - Moist	
8					
9					
10					
11				14" FILL	
12					
13				15" Silty CLAY, grey, soft moist	
14					
15					
16				24" loose water and dk br Silt Some f. Sand	
17					
18				31" Soft grey Silty CLAY Wet	
19					
20					
21					
22					
23					

C&S COMPANIES	C&S Engineers, Inc. 141 Elm Street Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454	BORING LOG	Boring No.	A3
			Sheet 1 of:	
			Project No.:	

Project Name:	Heritage Point	Surface Elev.:	
Location:	130 Main Street, Erie County, New York	Datum:	
Client:	Sinatra Development Company, LLC	Start Date:	12/9/21
Drilling Firm:	Matrix Environmental Tech	Finish Date:	/ /

Groundwater	Depth	Date & Time	Drill Rig:		Inspector:	C. Martin
While Drilling:			Casing:		Rock Core:		Undist:	
Before Casing Removal:			Sampler:		Other:	
After Casing Removal:			Hammer:			

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION c - coarse, m - medium, f - fine a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10% S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				14" Silty CLAY fill/top soil	9:45
2				dry, lt br	0 ppm
3					
4					
5					
6				25" FILL - moist	
7				last 6" Silty CLAY, soft, moist	2.4 ppm
8					
9					
10				Petro like odor.	5.5 ppm
11				12" Water Sat blackish water w/	
12				Silty Clay loose dk grey, trace Coarse Sand slight petro odor	34 ppm
13					
14				46" grey, wet, Silty CLAY, soft	
15					
16					
17				24" Water Sat Silty CLAY dk grey Soft - loose	0 ppm
18				24" Silt, br, water sat soft-loose	
19				18" Clay SILT, br, moist, trace C	
20					
21					
22					
23					

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BORING LOG

Project Name:	Heritage Point	**Boring No.**	A4
Location:	130 Main Street, Erie County, New York	**Sheet 1 of:**	
Client:	Sinatra Development Company, LLC	**Project No.:**	
Drilling Firm:	Matrix Environmental Tech	**Surface Elev.:**	
		Datum:	
		Start Date:	12/9/21
		Finish Date:	/ /
		Inspector:	C. Martin

Groundwater	**Depth**	**Date & Time**					
While Drilling:			**Drill Rig:**				
Before Casing Removal:			**Casing:**		**Rock Core:**		**Undist:**
After Casing Removal:			**Sampler:**		**Other:**		
			Hammer:				

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	c - coarse, m - medium, f - fine; **MATERIAL DESCRIPTION**; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%	**COMMENTS** (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				21" FILL - dry	10:15
2					0ppm
3					
4					
5					
6					
7				24" FILL - Moist	
8				18" Silty CLAY, br, Soft - dense moist	
9					
10					
11				48" br, Soft - dense moist Silty CLAY	
12					
13				~~T~~ 8" dk grey Silty CLAY organic matter, moist Soft	
14					
15					
16				32" br Silty CLAY, water Sat Soft	
17					
18					
19				22" dk grey Silty CLAY, trace f. S organic matter	
20					
21					
22					
23					

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BORING LOG

Boring No.	A5
Sheet 1 of:	
Project No.:	
Surface Elev.:	
Datum:	
Start Date:	
Finish Date:	12/9/21
Inspector:	C. Martin

Project Name:	Heritage Point
Location:	130 Main Street, Erie County, New York
Client:	Sinatra Development Company, LLC
Drilling Firm:	Matrix Environmental Tech

Groundwater	Depth	Date & Time		
While Drilling:			**Drill Rig:**	
Before Casing Removal:			**Casing:**	
After Casing Removal:			**Sampler:**	
			Hammer:	

Rock Core: **Undist:** **Other:**

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

c - coarse, m - medium, f - fine; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				36" FILL - moist	10:45
2					
3					
4					
5					
6					
7				28" FILL - wet	
8					
9					
10					
11					
12				10" FILL - Poor Recovery & water Saturated	
13					
14					
15					
16				32" dk Silty CLAY, Soft	
17				organic matter - moist	
18					
19					
20					
21					
22					
23					

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BORING LOG

Boring No.:	A6
Sheet 1 of:	
Project No.:	
Surface Elev.:	
Datum:	
Start Date:	12/9/21
Finish Date:	"
Inspector:	C. Martin

Project Name:	Heritage Point
Location:	130 Main Street, Erie County, New York
Client:	Sinatra Development Company, LLC
Drilling Firm:	Matrix Environmental Tech

Groundwater	Depth	Date & Time		
While Drilling:			Drill Rig:	
Before Casing Removal:			Casing:	
After Casing Removal:			Sampler:	
			Hammer:	

Rock Core: | Undist: | Other:

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

c - coarse, m - medium, f - fine; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%
S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				44" FILL - dry	11:15
2					0 ppm
3					
4					
5					
6				34" FILL - dry	
7					Refusal @ 10'
8				Concrete ?	Moved 1' West
9					
10				30" dense br Silty CLAY moist	
11					
12				47" dense br Silty CLAY moist - wet	
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					

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			Boring No.	A7
			Sheet 1 of:	
			Project No.:	

Project Name:	Heritage Point	**Surface Elev.:**	
Location:	130 Main Street, Erie County, New York	**Datum:**	
Client:	Sinatra Development Company, LLC	**Start Date:**	12/9/21
Drilling Firm:	Matrix Environmental Tech	**Finish Date:**	

Groundwater	Depth	Date & Time					
			Drill Rig:			**Inspector:**	C. Martin
While Drilling:			**Casing:**		**Rock Core:**	**Undist:**	
Before Casing Removal:			**Sampler:**		**Other:**		
After Casing Removal:			**Hammer:**				

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	c - coarse m - medium f - fine **MATERIAL DESCRIPTION** S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey a - and - 35-50% s - some - 20-35% l - little - 10-20% t - trace - 0-10%	**COMMENTS** (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				26" FILL moist	12:30
2					0ppm
3					
4					
5					
6					
7				23" FILL moist—wet	
8					
9					
10					
11					
12				22" FILL — wood piece	
13				16" grey dense Silty CLAY moist	
14					
15					
16				29" Some	
17					
18				26" Silt, water Sat, grey Soft	
19					
20					
21					
22					
23					

C&S COMPANIES

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Buffalo, New York 14203
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Fax: 716-847-1454

BORING LOG

Project Name:	Heritage Point	Boring No.:	B1
Location:	130 Main Street, Erie County, New York	Sheet 1 of:	
Client:	Sinatra Development Company, LLC	Project No.:	
Drilling Firm:	Matrix Environmental Tech	Surface Elev.:	
		Datum:	
		Start Date:	12/8/21
		Finish Date:	
		Inspector:	C. Martin

Groundwater	Depth	Date & Time		
While Drilling:			Drill Rig:	
Before Casing Removal:			Casing:	
After Casing Removal:			Sampler:	
			Hammer:	

Rock Core: | Undist: | Other:

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION (c - coarse, m - medium, f - fine; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey)	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1					11:30
2				4.7' — FILL	0 ppm
3					
4					
5					
6					
7				5' FILL	
8					
9					
10					
11				1' FILL	
12				1.9 SILT - trace f Sand moist dk brown	
13				last .8 water sat grey	9' FILL
14					
15				1' FILL	
16				2.6' Coarse Sand Some G dk grey	
17				water sat some br Silt	
18				2.3 grey Silty CLAY, dense wet	
19					
20					
21				MS/MSD	
22					
23					

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BORING LOG

Boring No.	B2		
Sheet 1 of:			
Project No.:			
Project Name:	Heritage Point	**Surface Elev.:**	
Location:	130 Main Street, Erie County, New York	**Datum:**	
Client:	Sinatra Development Company, LLC	**Start Date:**	12/9/21
Drilling Firm:	Matrix Environmental Tech	**Finish Date:**	
		Inspector:	C. Martin

Groundwater	Depth	Date & Time				
			Drill Rig:			
While Drilling:			**Casing:**		**Rock Core:**	**Undist:**
Before Casing Removal:			**Sampler:**		**Other:**	
After Casing Removal:			**Hammer:**			

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

c - coarse, m - medium, f - fine; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				3.1' FILL - moist	12:45
2					0ppm
3					
4					
5					
6				5' FILL - moist - wet	
7					
8					
9					
10					
11				1.7' FILL - wet	
12					
13					
14					
15					
16				.8' dk brown Silty CLAY - water Sat. soft	
17					
18				4.2' grey dense Silty CLAY, wet	
19					
20					
21					
22					
23					

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BORING LOG

Boring No.	B3
Sheet 1 of:	
Project No.:	
Surface Elev.:	
Datum:	
Start Date:	12/8/21
Finish Date:	/ /
Inspector:	C. Martin

Project Name:	Heritage Point
Location:	130 Main Street, Erie County, New York
Client:	Sinatra Development Company, LLC
Drilling Firm:	Matrix Environmental Tech

Groundwater	Depth	Date & Time		
While Drilling:			**Drill Rig:**	
Before Casing Removal:			**Casing:**	
After Casing Removal:			**Sampler:**	
			Hammer:	

Rock Core: **Undist:** **Other:**

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

c - coarse, m - medium, f - fine; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				5' FILL - moist	1:00
2					0ppm
3					
4					
5					
6					
7				5' FILL - moist	
8					
9					
10					
11				1.7' FILL wet	0ppm 1.7'
12					0ppm after
13				1.3' dk brown SILT trace clay organic matter moist	
14					
15					
16				1' Water tr loose Silty CLAY FILL Sheen petro like odor	15-16
17					17 ppm
18				4' dense to soft wet Silty CLAY	6 ppm after
19					
20					
21					
22					
23					

C&S COMPANIES	C&S Engineers, Inc. 141 Elm Street Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454	**BORING LOG**	Boring No.	BL
			Sheet 1 of:	
			Project No.:	

Project Name:	Heritage Point	Surface Elev.:	
Location:	130 Main Street, Erie County, New York	Datum:	
Client:	Sinatra Development Company, LLC	Start Date:	12/8/21
Drilling Firm:	Matrix Environmental Tech	Finish Date:	

Groundwater	Depth	Date & Time	Drill Rig:			Inspector:	C. Martin
While Drilling:			Casing:		Rock Core:	Undist:	
Before Casing Removal:			Sampler:		Other:		
After Casing Removal:			Hammer:				

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION c - coarse, m - medium, f - fine a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10% S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				3.2' FILL - moist	1:30
2					0ppm
3					
4					
5					
6				3.3' FILL - wet	
7					
8					
9					
10					
11				1.5' FILL - wet	
12					
13				2.9' Silty CLAY, brown, dense	
14				moist	
15					
16				1.6' water sat Silty CLAY loose	
17				2.3' br dense Silty CLAY wet	
18					
19				1.2' dk grey SILT, organic moist	
20					
21					
22					
23					

B3

C&S COMPANIES	C&S Engineers, Inc. 141 Elm Street Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454	**BORING LOG**	Boring No.	C3
			Sheet 1 of:	
			Project No.:	B5

Project Name:	Heritage Point			**Surface Elev.:**	
Location:	130 Main Street, Erie County, New York			**Datum:**	
Client:	Sinatra Development Company, LLC			**Start Date:**	
Drilling Firm:	Matrix Environmental Tech			**Finish Date:**	
Inspector:	C. Martin				

Groundwater	Depth	Date & Time					
While Drilling:			Drill Rig:				
Before Casing Removal:			Casing:		Rock Core:		Undist:
After Casing Removal:			Sampler:		Other:		
			Hammer:				

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION c - coarse, m - medium, f - fine a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10% S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				2.9' FILL	2:00
2					0ppm
3					
4					
5					
6					
7				2.7' FILL	
8					
9					
10					
11					
12				1.7' FILL water sat	
13					
14				3.2' Silty CLAY, some Silt, soft, wet, grey	
15					
16				2.6' grey Silty CLAY water sat.	
17					
18				1.9 grey-brow Silt, loose sat	
19					
20					
21					
22					
23					

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BORING LOG

Boring No.:	B2	**Sheet 1 of:**	3
Project No.:	6	**Surface Elev.:**	
Datum:		**Start Date:**	12/9/13
Finish Date:	12/9	**Inspector:**	C. Martin

Project Name:	Heritage Point
Location:	130 Main Street, Erie County, New York
Client:	Sinatra Development Company, LLC
Drilling Firm:	Matrix Environmental Tech

Groundwater	Depth	Date & Time		
While Drilling:			**Drill Rig:**	
Before Casing Removal:			**Casing:**	**Rock Core:**
After Casing Removal:			**Sampler:**	**Other:**
			Hammer:	

Undist:

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

c - coarse, m - medium, f - fine; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1					2:30
2				5' FILL moist	0 ppm
3					
4					
5					
6					
7				1.9' FILL - wet	
8					
9					
10					
11					
12				5' grey SILty CLAY	
13				dense wet	
14					
15					
16					
17				[illegible] Br Silt water loose	
18				1.7' dk br SILT trace	
19				Clay moist	
20					
21					
22					
23					

C&S COMPANIES	C&S Engineers, Inc. 141 Elm Street Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454	**BORING LOG**	**Boring No.** B7 **Sheet 1 of:** **Project No.:**

Project Name:	Heritage Point	**Surface Elev.:**	
Location:	130 Main Street, Erie County, New York	**Datum:**	
Client:	Sinatra Development Company, LLC	**Start Date:**	
Drilling Firm:	Matrix Environmental Tech	**Finish Date:**	

Groundwater	Depth	Date & Time	Drill Rig:			Inspector:	C. Martin
While Drilling:			Casing:		Rock Core:	Undist:	
Before Casing Removal:			Sampler:		Other:		
After Casing Removal:			Hammer:				

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

c - coarse, m - medium, f - fine; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				35" FILL - moist	11:45
2					0 ppm
3					
4					
5					
6					
7				22" FILL - ~~wet~~ moist	
8					
9					
10					
11					
12				18" FILL - Moist	
13					
14					
15					
16				24" dk br Silty CLAY	
17				organic mater moist	
18					
19					
20					
21					
22					
23					

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BORING LOG

Project Name:	Heritage Point	**Boring No.:**	C1
Location:	130 Main Street, Erie County, New York	**Sheet 1 of:**	
Client:	Sinatra Development Company, LLC	**Project No.:**	
Drilling Firm:	Matrix Environmental Tech	**Surface Elev.:**	
		Datum:	
		Start Date:	
		Finish Date:	12/8/21
		Inspector:	C. Martin

Groundwater	Depth	Date & Time		
While Drilling:			**Drill Rig:**	
Before Casing Removal:			**Casing:**	
After Casing Removal:			**Sampler:**	
			Hammer:	

Rock Core:		**Undist:**	
Other:			

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION c - coarse, m - medium, f - fine a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10% S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
					11:00
1				5' FILL - moist	
2					Oppn 1
3					
4					
5					
6				5' FILL - wet	
7					
8					
9					
10					
11				2.3' FILL - wet	
12					
13				2.4' dk br SILT, wet organic matter, ↑ Clay % with depth	
14					
15					
16					
17				3.2' grey to dk grey Silty CLAY, moist	
18					
19					
20					
21					
22					
23					

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BORING LOG

Boring No.	C2
Sheet 1 of:	
Project No.:	
Surface Elev.:	
Datum:	
Start Date:	
Finish Date:	12/8/21
Inspector:	C. Martin

Project Name:	Heritage Point
Location:	130 Main Street, Erie County, New York
Client:	Sinatra Development Company, LLC
Drilling Firm:	Matrix Environmental Tech

Groundwater	**Depth**	**Date & Time**						
			Drill Rig:					
While Drilling:			**Casing:**		**Rock Core:**		**Undist:**	
Before Casing Removal:			**Sampler:**		**Other:**			
After Casing Removal:			**Hammer:**					

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION (c - coarse, m - medium, f - fine; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey)	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1					10:20
2				8' FILL moist	0ppm
3					
4					
5					
6					
7				3.5' FILL moist	0ppM
8					
9					
10					
11					
12				2.9 FILL - moist wood pieces old pilings?	0ppm
13					
14					
15					
16					
17				5' Silty CLAY, grey dense	0ppm
18					
19					
20					
21					
22					
23					

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BORING LOG

Project Name:	Heritage Point	**Boring No.**	C3
Location:	130 Main Street, Erie County, New York	**Sheet 1 of:**	
Client:	Sinatra Development Company, LLC	**Project No.:**	
Drilling Firm:	Matrix Environmental Tech	**Surface Elev.:**	
		Datum:	
		Start Date:	12/8/21
		Finish Date:	
		Inspector:	C. Martin

Groundwater	Depth	Date & Time		
While Drilling:			Drill Rig:	
Before Casing Removal:			Casing:	Rock Core: Undist:
After Casing Removal:			Sampler:	Other:
			Hammer:	

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

c - coarse, m - medium, f - fine; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1					0ppm
2				3.1' ~~F~~ FILL, moist	
3					
4					
5					
6				1.9' FILL - wet	
7					
8					
9					
10					
11				1' FILL - wet Wood piece black FILL petro like color	11 ppm
12					~~B~~ 6" lower 0.5ppm
13				2.1' Silty CLAY - high Clay % clawngrade dk br to olive ~~dense~~ Soft → dense ~~w~~ moist	
14					0ppm
15					
16				2.6' Silty CLAY, dense, grey moist	0ppm
17					
18				1.3' SILT, grey, loose Water Sat	
19					
20					
21					
22					
23					

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BORING LOG

Project Name:	Heritage Point	**Boring No.:**	C4
Location:	130 Main Street, Erie County, New York	**Sheet 1 of:**	
Client:	Sinatra Development Company, LLC	**Project No.:**	
Drilling Firm:	Matrix Environmental Tech	**Surface Elev.:**	
		Datum:	
		Start Date:	
		Finish Date:	
		Inspector:	C. Martin

Groundwater	Depth	Date & Time		
While Drilling:			**Drill Rig:**	
Before Casing Removal:			**Casing:**	
After Casing Removal:			**Sampler:**	
			Hammer:	

Rock Core: | **Undist:** | **Other:**

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	c - coarse, m - medium, f - fine / **MATERIAL DESCRIPTION** / S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey / a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%	**COMMENTS** (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1					9:30
2				3.4' FILL	0ppm
3					
4					
5					
6					
7				1.9' FILL	
8					
9					
10					
11				Water no Sample	
12					
13					
14					
15					
16				2.8' brown Silty CLAY - dense Wet	
17					
18				1.9' - dk brown Silt trace Clay Moist organic Matter	
19					
20					
21					
22					
23					

C&S COMPANIES	C&S Engineers, Inc. 141 Elm Street Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454	**BORING LOG**	Boring No.	G5
			Sheet 1 of:	
			Project No.:	

Project Name:	Heritage Point	**Surface Elev.:**	
Location:	130 Main Street, Erie County, New York	**Datum:**	
Client:	Sinatra Development Company, LLC	**Start Date:**	12/8/21
Drilling Firm:	Matrix Environmental Tech	**Finish Date:**	

Groundwater	Depth	Date & Time	Drill Rig:				Inspector:	C. Martin
While Drilling:			Casing:		Rock Core:		Undist:	
Before Casing Removal:			Sampler:		Other:			
After Casing Removal:			Hammer:					

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION (c - coarse, m - medium, f - fine; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey)	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				2.2' FILL Moist	9:00
2					0ppm
3					
4					
5					
6					
7				1.4' FILL - Wet	
8					
9					
10					
11				Water no Sample	
12					
13					
14					
15					
16				1.7' Silty CLAY, dense, grey wet	
17				1.2' SILT, grey, loose, water Sat	
18					
19				1.9' dk brown SILT, trace Clay moist, soft	
20					
21					
22					
23					

C&S COMPANIES	C&S Engineers, Inc. 141 Elm Street Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454	**BORING LOG**	**Boring No.:** C6
			Sheet 1 of:
			Project No.:

Project Name:	Heritage Point	***Surface Elev.:***	
Location:	130 Main Street, Erie County, New York	***Datum:***	
Client:	Sinatra Development Company, LLC	***Start Date:***	12/8/21
Drilling Firm:	Matrix Environmental Tech	***Finish Date:***	

Groundwater	Depth	Date & Time	Drill Rig:			Inspector:	C. Martin
While Drilling:			Casing:		Rock Core:		Undist:
Before Casing Removal:			Sampler:		Other:		
After Casing Removal:			Hammer:				

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION c - coarse, m - medium, f - fine a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10% S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1					8:30
2				4.1' FILL moist	Overcast, light Wind 30°F 1" Snow cover
3					
4					0ppm
5					
6					
7				1.9' FILL wet	
8					
9					
10					
11				0.8' Water w/ FILL	
12					
13				0.4' dk grey Silty CLAY w/ black organic matter Soft wet	
14					
15					
16				1.5' Silty CLAY dense grey wet	
17					
18				1.6' SILT - grey loose water Sat	
19				1.6' SILT moist dk br trace Clay	
20					
21					
22					
23					

C&S COMPANIES	C&S Engineers, Inc. 141 Elm Street Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454	BORING LOG	Boring No.:	C7
			Sheet 1 of:	
			Project No.:	

Project Name:	Heritage Point	Surface Elev.:	
Location:	130 Main Street, Erie County, New York	Datum:	
Client:	Sinatra Development Company, LLC	Start Date:	12/7/21
Drilling Firm:	Matrix Environmental Tech	Finish Date:	/ /

Groundwater	Depth	Date & Time					
			Drill Rig:			Inspector:	C. Martin
While Drilling:			Casing:		Rock Core:	Undist:	
Before Casing Removal:			Sampler:		Other:		
After Casing Removal:			Hammer:				

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION c - coarse, m - medium, f - fine a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10% S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1					2:45
2				4.2' FILL mostly Silty C	0ppm
3				br dry	
4					
5					
6					
7				2.3' FILL - moist	
8					
9					
10					
11				1.3' grey Silty CLAY w/	
12				Mixed organic matter. moist	
13					
14					
15					
16				1.5' Same, Water Saturated loose	
17					
18				3.2' ~~S~~ SILT - little Clay grey wet	
19					
20					
21					
22					
23					

C&S COMPANIES

C&S Engineers, Inc.
141 Elm Street
Buffalo, New York 14203
Phone: 716-847-1630
Fax: 716-847-1454

BORING LOG

Project Name:	Heritage Point	**Boring No.**	D1
		Sheet 1 of:	
		Project No.:	
		Surface Elev.:	
Location:	130 Main Street, Erie County, New York	**Datum:**	
Client:	Sinatra Development Company, LLC	**Start Date:**	12/7/21
Drilling Firm:	Matrix Environmental Tech	**Finish Date:**	/ /
		Inspector:	C. Martin

Groundwater	Depth	Date & Time				
While Drilling:			**Drill Rig:**			
Before Casing Removal:			**Casing:**		**Rock Core:**	**Undist:**
After Casing Removal:			**Sampler:**		**Other:**	
			Hammer:			

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION (c - coarse, m - medium, f - fine; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey)	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1					10:50
2				4.5' FILL - moist	0 ppm
3					
4					
5					
6					
7				5' FILL - moist	
8					
9					
10					
11					
12				1.8' Coarse Sand and small Gravel - wet dk grey	
13					
14					
15					
16					
17				5' Silty CLAY, dense, grey	
18	X				
19					
20					
21					
22					
23					

BORING LOG

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141 Elm Street
Buffalo, New York 14203
Phone: 716-847-1630
Fax: 716-847-1454

Project Name:	Heritage Point	**Boring No.:**	D2
Location:	130 Main Street, Erie County, New York	**Sheet 1 of:**	
Client:	Sinatra Development Company, LLC	**Project No.:**	
Drilling Firm:	Matrix Environmental Tech	**Surface Elev.:**	
		Datum:	
		Start Date:	12/7/21
		Finish Date:	
		Inspector:	C. Martin

Groundwater	Depth	Date & Time		
While Drilling:			**Drill Rig:**	
Before Casing Removal:			**Casing:**	**Rock Core:** / **Undist:**
After Casing Removal:			**Sampler:**	**Other:**
			Hammer:	

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

c - coarse, m - medium, f - fine; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1					11:15
2					
3				2.7' FILL moist	0 ppm
4					
5					
6					
7				1.4' FILL - moist	
8					
9					
10					
11				1.7 FILL - mist	
12				0.6' Gravel, Sand grey, wet	
13					
14				2' ~~Silt~~ ~~and~~ Clay - dk br organic matter ~~low~~ pl - wet	
15					
16					1st attempt
17				2' water saturated Silty CLAY loose	No sample loose wet
18					
19					
20					
21					
22					
23					

C&S COMPANIES
C&S Engineers, Inc.
141 Elm Street
Buffalo, New York 14203
Phone: 716-847-1630
Fax: 716-847-1454

BORING LOG

Project Name:	Heritage Point	Boring No.:	B-3
Location:	130 Main Street, Erie County, New York	Sheet 1 of:	
Client:	Sinatra Development Company, LLC	Project No.:	
Drilling Firm:	Matrix Environmental Tech	Surface Elev.:	
		Datum:	
		Start Date:	
		Finish Date:	12/7/21
		Inspector:	C. Martin

Groundwater	Depth	Date & Time		
While Drilling:			Drill Rig:	
Before Casing Removal:			Casing:	Rock Core: / Undist:
After Casing Removal:			Sampler:	Other:
			Hammer:	

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

c - coarse, m - medium, f - fine; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				5' FILL - Moist	12:00
2					0ppm
3					
4					
5					
6					
7				2' FILL - Moist	
8					
9					
10					
11					
12				3.5' Silty CLAY, olive grey	
13				Soft - dense, wet	
14					
15					
16				2.8' Silty CLAY, olive grey	
17				dense - wet	
18				1.4 SILT trace Clay, brown	
19				wet	
20					
21					
22					
23					

C&S COMPANIES	C&S Engineers, Inc. 141 Elm Street Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454	BORING LOG	Boring No.	D4
			Sheet 1 of:	
			Project No.:	

Project Name:	Heritage Point			Surface Elev.:	
Location:	130 Main Street, Erie County, New York			Datum:	
Client:	Sinatra Development Company, LLC			Start Date:	
Drilling Firm:	Matrix Environmental Tech			Finish Date:	12/7/21
Groundwater	Depth	Date & Time	Drill Rig:	Inspector:	C. Martin
While Drilling:			Casing:	Rock Core:	Undist:
Before Casing Removal:			Sampler:	Other:	
After Casing Removal:			Hammer:		

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

MATERIAL DESCRIPTION: c - coarse, m - medium, f - fine; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1				3' FILL - moist	12:50
2					0ppm
3					
4					
5					
6					
7				2.8 FILL - wet	
8					
9					
10					
11				3.4 Silty CLAY - br, dense moist	
12					
13					
14					
15					
16				1' Water saturated Silty CLAY loose, br	
17				1.4' Same Soft - wet	
18					
19				1.4' dk grey Silt ~~or~~ Some Clay moist organic matter	
20					
21					
22					
23					

C&S COMPANIES

C&S Engineers, Inc.
141 Elm Street
Buffalo, New York 14203
Phone: 716-847-1630
Fax: 716-847-1454

BORING LOG

Project Name:	Heritage Point	**Boring No.**	D5
Location:	130 Main Street, Erie County, New York	**Sheet 1 of:**	
Client:	Sinatra Development Company, LLC	**Project No.:**	
Drilling Firm:	Matrix Environmental Tech	**Surface Elev.:**	
		Datum:	
		Start Date:	
		Finish Date:	
		Inspector:	C. Martin

Groundwater	Depth	Date & Time				
While Drilling:			Drill Rig:			
Before Casing Removal:			Casing:		Rock Core:	Undist:
After Casing Removal:			Sampler:		Other:	
			Hammer:			

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

c - coarse, m - medium, f - fine
a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%
S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1					1:15
2				2.5' FILL - wet	0ppm
3					
4					
5					
6					
7				1.6' FILL - dry	
8					
9					
10					
11					
12				5' Silty CLAY, grey to olive - moist Some organic Matter	
13					
14					
15					
16					
17				5' Same Water Sat.	
18					
19					
20					
21				DUP-120721	
22					
23					

C&S COMPANIES

C&S Engineers, Inc.
141 Elm Street
Buffalo, New York 14203
Phone: 716-847-1630
Fax: 716-847-1454

BORING LOG

Project Name:	Heritage Point	**Boring No.:**	D6
Location:	130 Main Street, Erie County, New York	**Sheet 1 of:**	
Client:	Sinatra Development Company, LLC	**Project No.:**	
Drilling Firm:	Matrix Environmental Tech	**Surface Elev.:**	
		Datum:	
		Start Date:	12/7/21
		Finish Date:	/ /
		Inspector:	C. Martin

Groundwater	Depth	Date & Time		
While Drilling:			**Drill Rig:**	
Before Casing Removal:			**Casing:**	
After Casing Removal:			**Sampler:**	
			Hammer:	

Rock Core: | **Undist:** | **Other:**

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	MATERIAL DESCRIPTION (c - coarse, m - medium, f - fine; a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%; S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey)	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1					2:00
2				3' FILL - dry	0ppm
3					
4					
5					
6					
7				1.9' FILL moist - wet	
8					
9					
10					
11					
12				5' Silty CLAY, dense grey to brown - moist	
13					
14					
15					
16					
17				1.4' dk brown Silt and Clay organic matter moist	
18					
19					
20					
21					
22					
23					

C&S COMPANIES	C&S Engineers, Inc. 141 Elm Street Buffalo, New York 14203 Phone: 716-847-1630 Fax: 716-847-1454	BORING LOG	Boring No.	D7
			Sheet 1 of:	
			Project No.:	

Project Name:	Heritage Point	Surface Elev.:	
Location:	130 Main Street, Erie County, New York	Datum:	
Client:	Sinatra Development Company, LLC	Start Date:	12/7/21
Drilling Firm:	Matrix Environmental Tech	Finish Date:	

Groundwater	Depth	Date & Time	Drill Rig:			Inspector:	C. Martin
While Drilling:			Casing:		Rock Core:	Undist:	
Before Casing Removal:			Sampler:		Other:		
After Casing Removal:			Hammer:				

(N -- No. of blows to drive sampler 12" w/140 lb. hammer falling 30" ASTM D-1586, Standard Penetration Test)

Depth (ft)	Sample No.	Symbol	Blows on Sampler per 6"	c - coarse, m - medium, f - fine — MATERIAL DESCRIPTION — S - Sand, $ - Silt, G - Gravel, C - Clay, cly - clayey — a - and - 35-50%, s - some - 20-35%, l - little - 10-20%, t - trace - 0-10%	COMMENTS (e.g., N-value, recovery, relative moisture, core run, RQD, % recovered)
1					2:15
2				3.3' FILL - moist to wet	0ppm
3					
4					
5					
6					
7				2' FILL - moist to wet	
8					
9					
10					
11				1' Water / Gravel (Rock?) 1" angular	
12					
13				0.8' Silty CLAY, dense dk ~~gr~~ br, wet	
14					
15					
16				1.4' Coarse Sand follow by Silty CLAY dense, grey, moist	
17					
18				1.7' Water Sat, loose Silt trace CLAY	
19				1.9' $Clay SILT, dk br, moist	
20					
21					
22					
23					

APPENDIX B

DATA USABILITY SUMMARY REPORT

DATA USABILITY SUMMARY REPORT (DUSR)

Heritage Point BCP Site
Buffalo, NY
Project # Y03001001

SDGs: 480-193325-64, L2239183, L2239188, L2239193, L2239204, L2244221, L2244520, L2244526, and L2245591

9 Soil Samples

Prepared for:

C&S Companies
141 Elm Street, Suite 100
Buffalo, NY 14203
Attention: Cody Martin

September 2022

EDU *Environmental Data Usability 10028 Deer Park Dr. Dansville, NY 14437 585-991-9156*

Table of Contents

Tables

REVIEWER'S NARRATIVE
C&S Companies - Heritage Point BCP Site – September 2022

The data associated with these Sample Delivery Groups (SDGs), were analyzed by Eurofins, Buffalo, NY and Alpha Anlytical, Westborough, MA have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, “R”. Results qualified as estimated “J”, or as non-detects, “U”, are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the “R” qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an “R” should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 9/16/2022

Michael K. Perry
Chemist

1.0 EVENT SUMMARY

SITE:	Heritage Point BCP Site Buffalo, NY Project #: Y03001001
SAMPLING DATE:	December 08, 2021 – August 23, 2022
SAMPLE TYPE:	9 soil samples
LABORATORY:	Eurofins Buffalo, NY
SDG No.:	480-193325-64, L2239183, L2239188, L2239193, L2239204, L2244221, L2244520, L2244526, and L2245591

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,

Compliance with established analyte holding times,

Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,

Adherence to established analytical protocols,

Conformance of data summary sheets with raw analytical data, and

Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for 9 soil samples collected on December 08, 2021 – August 23, 2022. These samples were analyzed for Volatile Organic Compounds (VOCs) or Metals.

All laboratory analyses were submitted to Alpha Analytical, Westborough, MA except SDG 489-193325 was sent to Eurofins, Buffalo, NY. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents appropriate for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results were selected from those listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

Guidance Used For Validating Laboratory Analytical Data

Analyte Group	Guidance	Date
Metals (ICP-AES)	USEPA SOP HW-3a, Rev. 1	September 2016
Metals (Hg & CN)	USEPA SOP HW-3c, Rev. 1	September 2016
Volatile Organic Compounds (by Methods 8260B & 8260C)	USEPA SOP HW-24, Rev. 4	September 2014
Semi-Volatile Organic Compounds (by Method 8270D)	USEPA SOP HW-22 Rev. 5	December 2010
Pesticides (by Method 8181B)	USEPA SOP HW-44, Rev. 1.1	December 2010
Chlorinated Herbicides (by Method 8151A)	USEPA SOP HW-17, Rev. 3.1	December 2010
Polychlorinated Biphenyls (PCBs)	USEPA SOP HW-37A, Rev. 0	June 2015
Volatile Organic Compounds (Air) (by Method TO-15)	USEPA SOP HW-31, Rev. 6	September 2016
Per- and PolyFluoroAlkyl Substances (PFAS)	* NYSDEC	January 2021
General Chemistry Parameters	per NYSDEC ASP	July 2005

* Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, Appendix I

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	PFAS
Completeness of Pkg Sample Preservation Holding Time System Monitoring Compounds Lab Control Sample Matrix Spikes Blanks Instrument Tuning Internal Standards Initial Calibration Continuing Calibration Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Preservation Holding Time Surrogate Recoveries Lab Control Sample Matrix Spikes Blanks Instrument Tuning Internal Standards Initial Calibration Continuing Calibration Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Preservation Holding Time Surrogate Recoveries Matrix Spikes Blanks Instrument Calibration & Verification Comparison of duplicate GC column results Analyte ID Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Preservation Holding Time Initial/Continuing Calibration CRDL Standards Blanks Interference Check Sample Spike Recoveries Lab Duplicate Lab Control Sample ICP Serial Dilutions Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Preservation Holding Times Calibration Lab Control Samples Blanks Spike Recoveries Lab Duplicates	Completeness of Pkg Sample Preservation Holding Time Instr Performance Check Initial Calibration Continuing Calibration Blanks Surrogates Lab Fortified Blank Matrix Spikes Internal Standards

Method TO-15 (Air)
Completeness of Pkg Sample Preservation Holding Time Canister Certification Instrument Tuning Initial Calibration and Instrument Performance Daily Calibration Blanks Lab Control Sample Field Duplicate

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the concentration of the analyte in the sample. (The magnitude of any value associated with the result is not determined by data validation).

J+ The result is an estimated quantity and may be biased high.

J- The result is an estimated quantity and may be biased low.

UJ The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may inaccurate or imprecise.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

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

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated in red print. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the data review are summarized in Tables 6-1 through 6-9. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For Heritage Point BCP SDGs, nine samples were analyzed and results were reported for 12 analytes. Even though some results were flagged with a “J” as estimated, all results (100 %) are considered usable.

Table 6-1 J193325 - Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-2 L2239183 - Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
A7-072122	Ni	J- detects UJ non-detects	MS < QC limit	Data are biased low

Table 6-3 L2239188 - Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
C5-072122	Ni	J- detects UJ non-detects	MS < QC limit	Data are biased low

Table 6-4 L2239193 - VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-5 L2239204 - Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-6 L2239221 - Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
C3-081622	Ni	J- detects UJ non-detects	MS < QC limit	Data are biased low

Table 6-7 L2244520 - Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-8 L2244526 - Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-9 L2245591 - Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

ALPHA ANALYTICAL

World Class Chemistry

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Alpha Analytical

Laboratory Code: 11148

SDG Number: L2239183

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2239183-01	A7-072122	SOIL	BUFFALO, NY	07/21/22 12:15	07/21/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

The WG1666042-3 MS recovery, performed on L2239183-01, is outside the acceptance criteria for nickel (71%). A post digestion spike was performed and yielded an unacceptable recovery for nickel (73%). The serial dilution recovery was not applicable; therefore, this element fails the matrix test and the result reported in the native sample should be considered estimated.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Tiffani Morrissey   Report Date: 07/22/22

Title: Technical Director/Representative

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab 7/22/22

ALPHA Job # L2239183

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Project Information
Project Name: Heritage Point BCP
Project Location: Buffalo, NY
Project # Y03.001.001
(Use Project name as Project #) ☐
Project Manager: Cody Martin
ALPHAQuote #:

Turn-Around Time
Standard ☐
Rush (only if pre approved) ☒
Due Date:
# of Days: 1 DAY

Client Information
Client: C+S Companies
Address: 141 Elm St, Suite 100
Buffalo, NY 14203
Phone: (716) 847-1630
Fax:
Email: cmartin@cscos.com

Deliverables
☐ ASP-A ☒ ASP-B
☒ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☒ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☒ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS: Waste only; TS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Waste only	TS							Sample Specific Comments	Total Bottles
39183-01	A7-072122	7/21/22	12:15	SO	SAW	X	X								2

Preservative Code:	Container Code
A = None	P = Plastic
B = HCl	A = Amber Glass
C = HNO_3	V = Vial
D = H_2SO_4	G = Glass
E = NaOH	B = Bacteria Cup
F = MeOH	C = Cube
G = $NaHSO_4$	O = Other
H = $Na_2S_2O_3$	E = Encore
K/E = Zn Ac/NaOH	D = BOD Bottle
O = Other	

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	G	P
Preservative	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
[signature] (C+S)	7/21/22 1530	[signature] AAL	7/21 1730
[signature] AAL	7/21 1620	[signature]	7/22/22 00:00

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Inorganic Data
(ICP Analysis)

Form 1
METALS

Client	: C&S Companies		Lab Number	: L2239183
Project Name	: HERITAGE POINT BCP		Project Number	: Y03.001.001
Lab ID	: L2239183-01		Date Collected	: 07/21/22 12:15
Client ID	: A7-072122		Date Received	: 07/21/22
Sample Location	: BUFFALO, NY		Date Analyzed	: 07/22/22 12:17
Sample Matrix	: SOIL		Dilution Factor	: 2
Analytical Method	: 1,6010D		Analyst	: JF
Lab File ID	: WG1666147.pdf		Instrument ID	: TRACE8
Sample Amount	: 1.33g		%Solids	: 80
Digestion Method	: EPA 3050B		Date Digested	: 07/22/22

CAS NO.	Parameter	mg/kg Results	RL	MDL	Qualifier
7440-02-0	Nickel, Total	25.5	2.36	0.228	J-

MKP 9/16/2022

Total Solids / Percent Moisture Analysis

Form 1
WETCHEM

Client	: C&S Companies	Lab Number	: L2239183
Project Name	: HERITAGE POINT BCP	Project Number	: Y03.001.001
Lab ID	: L2239183-01	Date Collected	: 07/21/22 12:15
Client ID	: A7-072122	Date Received	: 07/21/22
Sample Location	: BUFFALO, NY	Date Analyzed	: 07/22/22 01:58
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 121,2540G	Analyst	: MA
Lab File ID	: WG1665969.pdf	Instrument ID	: BALANCE#53
Sample Amount	:	%Solids	: 80
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	Results (%)	RL (%)	MDL (%)	Qualifier
NONE	Solids, Total	79.7	0.100	NA	

ALPHA ANALYTICAL

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Alpha Analytical

Laboratory Code: 11148

SDG Number: L2239188

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Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2239188-01	C5-07212022	SOIL	BUFFALO, NY	07/21/22 13:30	07/21/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Tiffani Morrissey Report Date: 07/22/22

Title: Technical Director/Representative

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 7/22/22

ALPHA Job #: L2239188

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Project Information

Project Name: Heritage Point BCP
Project Location: Buffalo NY
Project #: Y03.001.001
(Use Project name as Project #) ☐
Project Manager: Cody Martin
ALPHAQuote #:

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☒ # of Days: 1 DAY

Client Information

Client: C+S Engineers
Address: 141 Elm
Phone:
Fax:
Email: Cmartin@cscos.com

Deliverables

☐ ASP-A ☒ ASP-B
☒ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☒ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☒ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☒ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS: Nickel Only; TS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Nickel Only	TS	Sample Specific Comments	Total Bottles
39188-01	C5-07212022	7/21/22	1330	SO	JAW	X	X		2

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

	Nickel Only	TS
Container Type	G	P
Preservative	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible] (C+S)	7/21/22 1530	[illegible] AAL	7/22/21 1530
[illegible] AAL	7/21 1620	[illegible]	7/22/22 0000

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Inorganic Data
(ICP Analysis)

Form 1
METALS

Client	: C&S Companies	Lab Number	: L2239188
Project Name	: HERITAGE POINT BCP	Project Number	: Y03.001.001
Lab ID	: L2239188-01	Date Collected	: 07/21/22 13:30
Client ID	: C5-07212022	Date Received	: 07/21/22
Sample Location	: BUFFALO, NY	Date Analyzed	: 07/22/22 12:54
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: JF
Lab File ID	: WG1666147.pdf	Instrument ID	: TRACE8
Sample Amount	: 1.287g	%Solids	: 79
Digestion Method	: EPA 3050B	Date Digested	: 07/22/22

CAS NO.	Parameter	mg/kg Results	mg/kg RL	mg/kg MDL	Qualifier
7440-02-0	Nickel, Total	10.2	2.45	0.237	J-

MKP 9/16/2022

Total Solids / Percent Moisture Analysis

Form 1
WETCHEM

Client	: C&S Companies	Lab Number	: L2239188
Project Name	: HERITAGE POINT BCP	Project Number	: Y03.001.001
Lab ID	: L2239188-01	Date Collected	: 07/21/22 13:30
Client ID	: C5-07212022	Date Received	: 07/21/22
Sample Location	: BUFFALO, NY	Date Analyzed	: 07/22/22 01:58
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 121,2540G	Analyst	: MA
Lab File ID	: WG1665969.pdf	Instrument ID	: BALANCE#53
Sample Amount	:	%Solids	: 79
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	Results (%)	RL (%)	MDL (%)	Qualifier
NONE	Solids, Total	79.4	0.100	NA	

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Alpha Analytical

Laboratory Code: 11148

SDG Number: L2239193

Project Name:	HERITAGE POINT BCP	**Lab Number:**	L2239193
Project Number:	Y03.001.001	**Report Date:**	07/22/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2239193-01	B7-072122	SOIL	BUFFALO, NY	07/21/22 12:30	07/21/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Caitlin Walukevich Report Date: 07/22/22

Title: Technical Director/Representative

ALPHA

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab 7/22/22

ALPHA Job # L2239193

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Project Information

Project Name: Heritage Point BCP
Project Location: Buffalo, NY
Project # V03.001.001
(Use Project name as Project #) ☐
Project Manager: Cody Martin
ALPHAQuote #:

Client Information

Client: CES Engineers
Address: 141 Elm St
Phone:
Fax:
Email: CMartin@CSCOSSEM

Turn-Around Time

Standard ☐
Rush (only if pre approved) ☒
Due Date:
# of Days: 1-day

Deliverables

☐ ASP-A ☒ ASP-B
☒ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☒ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☒ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☒ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: Acetone	TS							Sample Specific Comments	Total Bottles
39193-01	B7-072122	7/21/22	12:30	SO	SAW	+	X								5

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

	Acetone	TS
Container Type	E	P
Preservative	O	A

Relinquished By:	Date/Time	Received By:	Date/Time
[signature] (CES)	7/21/22 1530	[signature] AAL	7/21/22 1530
[signature] AAL	7/21/22 1620	[signature]	7/22/22 0050

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Form No: 01-25 HC (rev. 30-Sept-2013)

GC/MS 8260
Analysis

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: C&S Companies	Lab Number	: L2239193
Project Name	: HERITAGE POINT BCP	Project Number	: Y03.001.001
Lab ID	: L2239193-01	Date Collected	: 07/21/22 12:30
Client ID	: B7-072122	Date Received	: 07/21/22
Sample Location	: BUFFALO, NY	Date Analyzed	: 07/22/22 08:57
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V27220722A06	Instrument ID	: VOA127
Sample Amount	: 11.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 80
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
67-64-1	Acetone	7.6	5.7	2.7	

Total Solids / Percent Moisture Analysis

Form 1
WETCHEM

Client	: C&S Companies	Lab Number	: L2239193
Project Name	: HERITAGE POINT BCP	Project Number	: Y03.001.001
Lab ID	: L2239193-01	Date Collected	: 07/21/22 12:30
Client ID	: B7-072122	Date Received	: 07/21/22
Sample Location	: BUFFALO, NY	Date Analyzed	: 07/22/22 01:58
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 121,2540G	Analyst	: MA
Lab File ID	: WG1665969.pdf	Instrument ID	: BALANCE#53
Sample Amount	:	%Solids	: 80
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	% Results	RL	MDL	Qualifier
NONE	Solids, Total	80.4	0.100	NA	

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Alpha Analytical

Laboratory Code: 11148

SDG Number: L2239204

Project Name: HERITAGE POINT BCP
Project Number: Y03.001.001

Lab Number: L2239204
Report Date: 07/22/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2239204-01	A5-07212022	SOIL	BUFFALO, NY	07/21/22 13:00	07/21/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Tiffani Morrissey Report Date: 07/22/22

Title: Technical Director/Representative

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 7/22/22

ALPHA Job #: L2239204

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Project Information
Project Name: Heritage Point BCP
Project Location: Buffalo, NY
Project #: Y03.001.001
(Use Project name as Project #) ☐
Project Manager: Cody Martin
ALPHAQuote #:

Turn-Around Time
Standard ☐
Rush (only if pre approved) ☒
Due Date:
# of Days: 1 DAY

Client Information
Client: C+S Engineers
Address: 141 Elm
Phone:
Fax:
Email: Cmartin@Cscos.com

Deliverables
☐ ASP-A ☒ ASP-B
☒ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☒ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☒ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: Zinc Only	ANALYSIS: TS							Sample Specific Comments	Total Bottles
39204-01	AS-07212022	7/21/22	1300	SO	JAW	X	X								2

	Zinc Only	TS
Container Type	G	P
Preservative	A	A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[signature] (C+S)	7/21/22 1530	4 Rept AAL	7/21/22 1530
4 Rept AAL	7/21/22 18:30	[signature]	7/22/22 0000

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Inorganic Data
(ICP Analysis)

Form 1
METALS

Client	: C&S Companies	Lab Number	: L2239204
Project Name	: HERITAGE POINT BCP	Project Number	: Y03.001.001
Lab ID	: L2239204-01	Date Collected	: 07/21/22 13:00
Client ID	: A5-07212022	Date Received	: 07/21/22
Sample Location	: BUFFALO, NY	Date Analyzed	: 07/22/22 13:13
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: JF
Lab File ID	: WG1666147.pdf	Instrument ID	: TRACE8
Sample Amount	: 1.322g	%Solids	: 76
Digestion Method	: EPA 3050B	Date Digested	: 07/22/22

CAS NO.	Parameter	mg/kg Results	RL	MDL	Qualifier
7440-66-6	Zinc, Total	40.3	4.96	0.291	

Total Solids / Percent Moisture Analysis

Form 1
WETCHEM

Client	: C&S Companies	Lab Number	: L2239204
Project Name	: HERITAGE POINT BCP	Project Number	: Y03.001.001
Lab ID	: L2239204-01	Date Collected	: 07/21/22 13:00
Client ID	: L2239190	Date Received	: 07/21/22
Sample Location	: BUFFALO, NY	Date Analyzed	: 07/22/22 01:58
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 121,2540G	Analyst	: MA
Lab File ID	: WG1665969.pdf	Instrument ID	: BALANCE#53
Sample Amount	:	%Solids	: 76
Digestion Method	:	Date Digested	:

		%			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
NONE	Solids, Total	76.2	0.100	NA	

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Alpha Analytical

Laboratory Code: 11148

SDG Number: L2244221

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2244221-01	C3-081622	SOIL	BUFFALO,NY	08/16/22 12:00	08/16/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

L2244221-01: The sample has an elevated detection limit for nickel due to the dilution required by matrix interferences encountered during analysis.

The WG1676179-3 MS recovery, performed on L2244221-01, is outside the acceptance criteria for nickel (63%). A post digestion spike was performed and yielded an unacceptable recovery of 60%. The serial dilution recovery was not applicable; therefore, this element fails the matrix test and the result reported in the native sample should be considered estimated.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom Kelly Stenstrom Report Date: 08/17/22

Title: Technical Director/Representative

ALPHA

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab 08/17/22

ALPHA Job # L2244221

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Project Information

Project Name: Heritage Point BCP
Project Location: Buffalo, NY
Project # V03.001.001
(Use Project name as Project #) ☐
Project Manager: Cody Martin
ALPHAQuote #:

Deliverables

☐ ASP-A ☒ ASP-B
☒ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☒ Same as Client Info
PO #

Client Information

Client: C&S Engineers
Address: 141 Elm St.
Phone:
Fax:
Email: cmartin@cscos.com

Turn-Around Time

Standard ☐
Rush (only if pre approved) ☒
Due Date:
# of Days: 1 day

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☒ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS: Nickel Only; TS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Nickel Only	TS	Sample Specific Comments	Total Bottles
44221-01	C3-081622	8/16/22	12:00	SO	JAW	X	X		2

Container Type	G	P
Preservative	A	A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Cody Martin	8/16/22 1530	[signature] AAL	8/16/22 15:30
[signature] AAL	8/16/22 16:00	[signature]	8/17/22 0020

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Inorganic Data
(ICP Analysis)

Form 1
METALS

Client	: C&S Companies	Lab Number	: L2244221
Project Name	: HERITAGE POINT BCP	Project Number	: Y03.001.001
Lab ID	: L2244221-01	Date Collected	: 08/16/22 12:00
Client ID	: C3-081622	Date Received	: 08/16/22
Sample Location	: BUFFALO,NY	Date Analyzed	: 08/17/22 17:09
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: MC
Lab File ID	: WG1676119.pdf	Instrument ID	: TRACE7
Sample Amount	: 1.29g	%Solids	: 81
Digestion Method	: EPA 3050B	Date Digested	: 08/17/22

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-02-0	Nickel, Total	21.9	2.41	0.233	J-

MKP 9/16/2022

Total Solids / Percent Moisture Analysis

Form 1
WETCHEM

Client	: C&S Companies	Lab Number	: L2244221
Project Name	: HERITAGE POINT BCP	Project Number	: Y03.001.001
Lab ID	: L2244221-01	Date Collected	: 08/16/22 12:00
Client ID	: C3-081622	Date Received	: 08/16/22
Sample Location	: BUFFALO,NY	Date Analyzed	: 08/17/22 01:46
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 121,2540G	Analyst	: MW
Lab File ID	: WG1676064.pdf	Instrument ID	: BALANCE#53
Sample Amount	:	%Solids	: 81
Digestion Method	:	Date Digested	:

		%			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
NONE	Solids, Total	80.5	0.100	NA	

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Alpha Analytical

Laboratory Code: 11148

SDG Number: L2244520

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2244520-01	C2-081722	SOIL	BUFFALO,NY	08/17/22 13:00	08/17/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

L2244520-01: The sample has an elevated detection limit for nickel, due to the dilution required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Tiffani Morrissey Report Date: 08/18/22

Title: Technical Director/Representative

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab 08/18/22

ALPHA Job # L2244520

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Project Information
Project Name: Heritage Point BCP
Project Location: Buffalo, NY
Project # Y03.001.001
(Use Project name as Project #) ☐
Project Manager: Cody Martin
ALPHAQuote #:

Client Information
Client: C+S Engineers
Address: 141 Elm Street
Phone:
Fax:
Email: cmartin@cscos.com

Turn-Around Time
Standard ☐
Rush (only if pre approved) ☒
Due Date:
# of Days: 1 DAY

Deliverables
☐ ASP-A ☒ ASP-B
☒ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☒ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Nickel Only	TS							Sample Specific Comments	Total Bottles
44520-01	C2-081722	08/17/22	13:06	SO	JAW	X	X								2
Container Type						G	P								
Preservative						A	A								

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Cody Martin	8/17/22 15:15	Jim AL AAL	8/17/22 15:15
Jim AL AAL	8/17/22 16:30	[illegible]	8/18/22 0020

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Inorganic Data
(ICP Analysis)

Form 1
METALS

Client	: C&S Companies	Lab Number	: L2244520
Project Name	: HERITAGE POINT BCP	Project Number	: Y03.001.001
Lab ID	: L2244520-01	Date Collected	: 08/17/22 13:00
Client ID	: C2-081722	Date Received	: 08/17/22
Sample Location	: BUFFALO,NY	Date Analyzed	: 08/18/22 16:44
Sample Matrix	: SOIL	Dilution Factor	: 5
Analytical Method	: 1,6010D	Analyst	: EW
Lab File ID	: WG1676653.pdf	Instrument ID	: TRACE4
Sample Amount	: 1.332g	%Solids	: 80
Digestion Method	: EPA 3050B	Date Digested	: 08/18/22

CAS NO.	Parameter	mg/kg Results	RL	MDL	Qualifier
7440-02-0	Nickel, Total	25.2	5.87	0.568	

Total Solids / Percent Moisture Analysis

Form 1
WETCHEM

Client	: C&S Companies	Lab Number	: L2244520
Project Name	: HERITAGE POINT BCP	Project Number	: Y03.001.001
Lab ID	: L2244520-01	Date Collected	: 08/17/22 13:00
Client ID	: C2-081722	Date Received	: 08/17/22
Sample Location	: BUFFALO,NY	Date Analyzed	: 08/18/22 03:05
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 121,2540G	Analyst	: MA
Lab File ID	: WG1676597.pdf	Instrument ID	: BALANCE#53
Sample Amount	:	%Solids	: 80
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	% Results	RL	MDL	Qualifier
NONE	Solids, Total	79.9	0.100	NA	

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Alpha Analytical

Laboratory Code: 11148

SDG Number: L2244526

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2244526-01	C1-081722	SOIL	BUFFALO,NY	08/17/22 12:30	08/17/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Tiffani Morrissey Report Date: 08/18/22

Title: Technical Director/Representative

ALPHA

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page | of

Date Rec'd in Lab 08/18/22

ALPHA Job # L2244526

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Project Information
Project Name: Heritage Point BCP
Project Location: Buffalo, NY
Project # Y03.001.001
(Use Project name as Project #) ☐
Project Manager: Cody Martin
ALPHAQuote #:

Turn-Around Time
Standard ☐
Rush (only if pre approved) ☒
Due Date:
# of Days: 1 DAY

Client Information
Client: C+S Engineers
Address: 141 Elm Street
Phone:
Fax:
Email: Cmartin@cscos.com

Deliverables
☐ ASP-A ☒ ASP-B
☒ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☒ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐
Other project specific requirements/comments:

Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: Nickel Only	TS							Sample Specific Comments	Total Bottles
44526-01	C1-081722	08/17/22	12:30	SO	JAW	X	X								2

Preservative Code:	Container Code
A = None	P = Plastic
B = HCl	A = Amber Glass
C = HNO_3	V = Vial
D = H_2SO_4	G = Glass
E = NaOH	B = Bacteria Cup
F = MeOH	C = Cube
G = $NaHSO_4$	O = Other
H = $Na_2S_2O_3$	E = Encore
K/E = Zn Ac/NaOH	D = BOD Bottle
O = Other	

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

	Nickel Only	TS
Container Type	G	P
Preservative	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
Cody Martin	8/17/22 15:15	Jom AL AAL	8/17/22 15:15
Jom AL AAL	8/17/22 16:30	[illegible]	8/18/22 0020

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Inorganic Data
(ICP Analysis)

Form 1
METALS

Client	: C&S Companies	Lab Number	: L2244526
Project Name	: HERITAGE POINT BCP	Project Number	: Y03.001.001
Lab ID	: L2244526-01	Date Collected	: 08/17/22 12:30
Client ID	: C1-081722	Date Received	: 08/17/22
Sample Location	: BUFFALO,NY	Date Analyzed	: 08/18/22 15:35
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,6010D	Analyst	: EW
Lab File ID	: WG1676653.pdf	Instrument ID	: TRACE4
Sample Amount	: 1.312g	%Solids	: 83
Digestion Method	: EPA 3050B	Date Digested	: 08/18/22

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-02-0	Nickel, Total	8.87	1.15	0.111	

Total Solids / Percent Moisture Analysis

Form 1
WETCHEM

Client	: C&S Companies	Lab Number	: L2244526
Project Name	: HERITAGE POINT BCP	Project Number	: Y03.001.001
Lab ID	: L2244526-01	Date Collected	: 08/17/22 12:30
Client ID	: C1-081722	Date Received	: 08/17/22
Sample Location	: BUFFALO,NY	Date Analyzed	: 08/18/22 03:05
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 121,2540G	Analyst	: MA
Lab File ID	: WG1676597.pdf	Instrument ID	: BALANCE#53
Sample Amount	:	%Solids	: 83
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	% Results	RL	MDL	Qualifier
NONE	Solids, Total	83.0	0.100	NA	

ALPHA ANALYTICAL

World Class Chemistry

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Alpha Analytical

Laboratory Code: 11148

SDG Number: L2245591

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2245591-01	D1-082322	SOIL	BUFFALO, NY	08/23/22 11:00	08/23/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Caitlin Walukevich Report Date: 08/24/22

Title: Technical Director/Representative

ALPHA	NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 of 1	Date Rec'd in Lab 8/24/22	ALPHA Job # L2245591

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Project Information

Project Name: Heritage Point BCP
Project Location: Buffalo, NY
Project # Y03.001.001
(Use Project name as Project #) ☐
Project Manager: Cody Martin
ALPHAQuote #:

Turn-Around Time

Standard ☐
Rush (only if pre approved) ☒
Due Date: 1 DAY
# of Days:

Client Information

Client: C+S Engineers
Address: 141 Elm Street

Phone:
Fax:
Email: Cmartin@cscos.com

Deliverables

☐ ASP-A ☒ ASP-B
☒ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☒ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☒ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: Nickel Only	TS							Sample Specific Comments	Total Bottles
45591-01	D1-082322	8/23/2022	11:00	SO	JAW	X	X								2

Preservative Code:	Container Code
A = None	P = Plastic
B = HCl	A = Amber Glass
C = HNO_3	V = Vial
D = H_2SO_4	G = Glass
E = NaOH	B = Bacteria Cup
F = MeOH	C = Cube
G = $NaHSO_4$	O = Other
H = $Na_2S_2O_3$	E = Encore
K/E = Zn Ac/NaOH	D = BOD Bottle
O = Other	

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

	Nickel Only	TS
Container Type	G	P
Preservative	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
[signature] (C+S)	9/23/22 12:15	Jocelyn Fiby (AAL)	8/23/22 12:15
Jocelyn Fiby (AAL)	8/23/22 12:15	[signature]	8/24/22 00:10

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Inorganic Data
(ICP Analysis)

Form 1
METALS

Client	: C&S Companies	Lab Number	: L2245591
Project Name	: HERITAGE POINT BCP	Project Number	: Y03.001.001
Lab ID	: L2245591-01	Date Collected	: 08/23/22 11:00
Client ID	: D1-082322	Date Received	: 08/23/22
Sample Location	: BUFFALO, NY	Date Analyzed	: 08/24/22 15:07
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,6010D	Analyst	: MC
Lab File ID	: WG1678947.pdf	Instrument ID	: TRACE7
Sample Amount	: 1.3g	%Solids	: 75
Digestion Method	: EPA 3050B	Date Digested	: 08/24/22

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-02-0	Nickel, Total	10.4	1.28	0.124	

Total Solids / Percent Moisture Analysis

Form 1
WETCHEM

Client	**: C&S Companies**	**Lab Number**	**: L2245591**
Project Name	**: HERITAGE POINT BCP**	**Project Number**	**: Y03.001.001**
Lab ID	**: L2245591-01**	**Date Collected**	**: 08/23/22 11:00**
Client ID	**: D1-082322**	**Date Received**	**: 08/23/22**
Sample Location	**: BUFFALO, NY**	**Date Analyzed**	**: 08/24/22 03:57**
Sample Matrix	**: SOIL**	**Dilution Factor**	**: 1**
Analytical Method	**: 121,2540G**	**Analyst**	**: MA**
Lab File ID	**: WG1678902.pdf**	**Instrument ID**	**: BALANCE#53**
Sample Amount	**:**	**%Solids**	**: 75**
Digestion Method	**:**	**Date Digested**	**:**

		%			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total	75.1	0.100	NA	

eurofins | Environment Testing America

ANALYTICAL REPORT

Job Number: 480-193325-3

Job Description: Heritage Point BCP Site - Buffalo, NY

For:
C&S Engineers, Inc.
141 Elm Street
Suite 100
Buffalo, NY 14203

Attention: Cody Martin

Approved for release.
Judy L Stone
Senior Project Manager
1/17/2022 10:59 AM

Designee for
Steve Hartmann, Service Center Manager
10 Hazelwood Drive, Amherst, NY, 14228-2298
(413)572-4000
Steve.Hartmann@Eurofinset.com
01/17/2022

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NYDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Northeast Project Manager.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Eurofins Buffalo
10 Hazelwood Drive, Amherst, NY 14228-2298
Tel (716) 691-2600 Fax (716) 691-7991 www.EurofinsUS.com

Job Narrative
480-193325-3

Comments
Sample C4-17.5ft (480-193325 -64) was taken off hold and analyzed for select metals as requested by the client and is reporter here.

Receipt
The samples were received on 12/9/2021 2:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 8 coolers at receipt time were 2.2º C, 2.4º C, 2.7º C, 2.8º C, 2.9º C, 3.0º C, 3.1º C and 3.3º C.

Receipt Exceptions
The following samples were listed on the Chain of Custody (COC); however, no samples were received: B1-20FT (480-193325-8[MS]), B1-20FT (480-193325-8[MSD]), P-B1 (480-193325-31[MS]) and P-B1 (480-193325-31[MSD]). Volume from the parent sample was used for analysis.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: C&S Engineers, Inc.
Project/Site: Heritage Point BCP Site - Buffalo, NY

Job ID: 480-193325-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-193325-64	C4-17.5FT	Solid	12/08/21 09:35	12/09/21 14:00

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler:	Lab PM: Hartmann, Steve	Carrier Tracking No(s):	COC No: 480-168283-36820.6
Client Contact: Cody Martin	Phone:	E-Mail: Steve.Hartmann@Eurofinset.com	State of Origin:	Page: Page 6 of 7
Company: C&S Engineers, Inc.	PWSID:			Job #:
Address: 141 Elm Street Suite 100	Due Date Requested:			
City: Buffalo	TAT Requested (days): Standard			
State, Zip: NY, 14203	Compliance Project: Δ Yes Δ No			
Phone: 716-847-1630(Tel)	PO #: Purchase Order Requested			
Email: cmartin@cscos.com	WO #:			
Project Name: Heritage Point BCP Site - Buffalo, NY	Project #: 48024630			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA - NY 21 PFAS	8260C - TCL VOC's	6010C, 7471B	8081B, 8082A, 8151A, 8270D	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N		
B3-18.5FT	12/8/21	1:05	G	Solid			X	X	X	X	5	HOLD
B4-18FT	12/8/21	1:35		Solid			X	X	X	X		HOLD
B5-16.5FT	12/8/21	2:05		Solid			X	X	X	X		HOLD
B6-15.5FT	12/8/21	2:35		Solid			X	X	X	X		HOLD
B7-16FT	12/9/21	11:50		Solid			X	X	X	X		HOLD
C1-19.5FT	12/8/21	11:05		Solid			X	X	X	X		HOLD
C2-19FT	12/8/21	10:20		Solid			X	X	X	X		HOLD
C3-17.5FT	12/8/21	10:15		Solid			X	X	X	X		HOLD
C4-17.5FT	12/8/21	9:35		Solid			X	X	X	X		HOLD
C5-15.5FT	12/8/21	9:05		Solid			X	X	X	X		HOLD
C6-16FT	12/8/21	8:45		Solid			X	X	X	X		HOLD

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify) Cat B

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ______ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Cody A Martin	Date/Time: 12/9/21 1:56	Company: C&S	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/9/21 1400	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 06/08/2021

METALS

COVER PAGE
METALS

Lab Name: Eurofins Buffalo   Job Number: 480-193325-3

SDG No.:

Project: Heritage Point BCP Site - Buffalo, NY

Client Sample ID	Lab Sample ID
C4-17.5FT	480-193325-64

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: C4-17.5FT

Lab Sample ID: 480-193325-64

Lab Name: Eurofins Buffalo

Job No.: 480-193325-3

SDG ID.:

Matrix: Solid

Date Sampled: 12/08/2021 09:35

Reporting Basis: DRY

Date Received: 12/09/2021 14:00

% Solids: 90.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-50-8	Copper	14.1	1.1	0.23	mg/Kg			1	6010C
7439-92-1	Lead	16.3	1.1	0.26	mg/Kg			1	6010C
7782-49-2	Selenium	ND	4.3	0.43	mg/Kg			1	6010C
7440-66-6	Zinc	56.6	2.2	0.69	mg/Kg			1	6010C

Appendix B

Laboratory QC Documentation

Form 5a
Matrix Spike

Client	:	C&S Companies	Lab Number	:	L2239183
Project Name	:	HERITAGE POINT BCP	Project Number	:	Y03.001.001
Client Sample ID	:	A7-072122	Matrix	:	SOIL
Lab Sample ID	:	L2239183-01			
Matrix Spike	:	WG1666042-3	MS Analysis Date	:	07/22/22 12:21
Matrix Spike Dup	:		MSD Analysis Date	:	

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/kg)	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R	RPD	Recovery Limits	RPD Limit
Nickel, Total	25.5	48.5	59.9	71 Q					75-125	20

Form 5b
Post Digest Spike Recovery

Client	: C&S Companies	Lab Number	: L2239183
Project Name	: HERITAGE POINT BCP	Project Number	: Y03.001.001
Client Sample ID	: A7-072122	Matrix	: SOIL
Lab Sample ID	: L2239183-01		
Post Spike	: WG1666042-5	PS Analysis Date	: 07/22/22 12:27

Parameter	Sample Conc. (mg/kg)	Post Spike Sample Spike Added (mg/kg)	Post Spike Sample Spike Conc. (mg/kg)	%R	Recovery Limits
Nickel, Total	25.5	47.2	60.1	73	75-125

Form 5a
Matrix Spike

Client	:	C&S Companies	Lab Number	:	L2239188
Project Name	:	HERITAGE POINT BCP	Project Number	:	Y03.001.001
Client Sample ID	:	NA	Matrix	:	SOIL
Lab Sample ID	:	L2239183-01			
Matrix Spike	:	WG1666042-3	MS Analysis Date	:	07/22/22 12:21
Matrix Spike Dup	:		MSD Analysis Date	:	

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/kg)	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R	RPD	Recovery Limits	RPD Limit
Nickel, Total	25.5	48.5	59.9	71 Q					75-125	20

Form 5a
Matrix Spike

Client	: **C&S Companies**	**Lab Number**	: **L2244221**
Project Name	: **HERITAGE POINT BCP**	**Project Number**	: **Y03.001.001**
Client Sample ID	: **C3-081622**	**Matrix**	: **SOIL**
Lab Sample ID	: **L2244221-01**		
Matrix Spike	: **WG1676179-3**	**MS Analysis Date**	: **08/17/22 17:14**
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/kg)**	**Spike Added (mg/kg)**	**Spike Conc. (mg/kg)**	**%R**	**Spike Added (mg/kg)**	**Spike Conc. (mg/kg)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nickel, Total	21.9	47.3	51.6	63 Q					75-125	20

Form 5b
Post Digest Spike Recovery

Client	:	**C&S Companies**	**Lab Number**	:	**L2244221**
Project Name	:	**HERITAGE POINT BCP**	**Project Number**	:	**Y03.001.001**
Client Sample ID	:	**C3-081622**	**Matrix**	:	**SOIL**
Lab Sample ID	:	**L2244221-01**			
Post Spike	:	**WG1676179-5**	**PS Analysis Date**	:	**08/17/22 17:23**

		Post Spike Sample			
Parameter	Sample Conc. (mg/kg)	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R	Recovery Limits
Nickel, Total	21.9	48.1	50.9	60	75-125

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

APPENDIX C

IMPORT / EXPORT MATERIAL LOGS

HERITAGE POINT SITE
BCP SITE #C915347

Waste Manifest: Scale Tickets - Waste Management

Load #	Daily Load Total	Date	Manifest #	Ticket #	Description	Wt (Per load) Tons	Running Total Wt (Tons)	Total for Day	Estimated Total CY To Date
1	1	7/13/2022	11765960	722373	Unspecified Contaminated Soil, PMT RCG	24.76	24.76	24.76	12
2	2	7/13/2022	11765959	722374	Unspecified Contaminated Soil, PMT RCG	24.88	49.64	49.64	24
3	3	7/13/2022	11765961	722375	Unspecified Contaminated Soil, PMT RCG	24.43	74.07	74.07	36
4	4	7/13/2022	11765962	722378	Unspecified Contaminated Soil, PMT RCG	21.76	95.83	95.83	48
5	5	7/13/2022	11765963	722379	Unspecified Contaminated Soil, PMT RCG	18.2	114.03	114.03	60
6	6	7/13/2022	11765964	722381	Unspecified Contaminated Soil, PMT RCG	24.03	138.06	138.06	72
7	7	7/13/2022	11765965	722384	Unspecified Contaminated Soil, PMT RCG	21.34	159.4	159.4	84
8	8	7/13/2022	11765966	722386	Unspecified Contaminated Soil, PMT RCG	21.06	180.46	180.46	96
9	9	7/13/2022	11765967	722399	Unspecified Contaminated Soil, PMT RCG	24.59	205.05	205.05	108
10	10	7/13/2022	11765968	722400	Unspecified Contaminated Soil, PMT RCG	20.91	225.96	225.96	120
11	11	7/13/2022	11765969	722405	Unspecified Contaminated Soil, PMT RCG	25.43	251.39	251.39	132
12	12	7/13/2022	11765971	722407	Unspecified Contaminated Soil, PMT RCG	20.77	272.16	272.16	144
13	13	7/13/2022	11765970	722410	Unspecified Contaminated Soil, PMT RCG	21.34	293.5	293.5	156
14	14	7/13/2022	11765972	722411	Unspecified Contaminated Soil, PMT RCG	19.7	313.2	313.2	168
15	15	7/13/2022	11765973	722413	Unspecified Contaminated Soil, PMT RCG	17.96	331.16	331.16	180
16	16	7/13/2022	11765975	722414	Unspecified Contaminated Soil, PMT RCG	21.9	353.06	353.06	192
17	17	7/13/2022	11765974	722428	Unspecified Contaminated Soil, PMT RCG	23.15	376.21	376.21	204
18	18	7/13/2022	11765976	722429	Unspecified Contaminated Soil, PMT RCG	25.43	401.64	401.64	216
19	19	7/13/2022	11765977	722433	Unspecified Contaminated Soil, PMT RCG	25	426.64	426.64	228
20	20	7/13/2022	11765978	722434	Unspecified Contaminated Soil, PMT RCG	19.13	445.77	445.77	240
21	21	7/13/2022	11765979	722440	Unspecified Contaminated Soil, PMT RCG	21.27	467.04	467.04	252
22	22	7/13/2022	11765980	722449	Unspecified Contaminated Soil, PMT RCG	22.6	489.64	489.64	264
23	23	7/13/2022	11765981	722450	Unspecified Contaminated Soil, PMT RCG	20.72	510.36	510.36	276
24	24	7/13/2022	11765982	722451	Unspecified Contaminated Soil, PMT RCG	18.04	528.4	528.4	288
25	25	7/13/2022	11765983	722465	Unspecified Contaminated Soil, PMT RCG	22.15	550.55	550.55	300
26	26	7/13/2022	11765984	722469	Unspecified Contaminated Soil, PMT RCG	18.46	569.01	569.01	312
27	27	7/13/2022	11765985	722473	Unspecified Contaminated Soil, PMT RCG	22.12	591.13	591.13	324
28	1	7/14/2022	11765986	722512	Unspecified Contaminated Soil, PMT RCG	22.6	613.73	22.6	336
29	2	7/14/2022	11765987	722515	Unspecified Contaminated Soil, PMT RCG	17.29	631.02	39.89	348
30	3	7/14/2022	11765988	722517	Unspecified Contaminated Soil, PMT RCG	21.98	653	61.87	360
31	4	7/14/2022	11765989	722518	Unspecified Contaminated Soil, PMT RCG	21.56	674.56	83.43	372
32	5	7/14/2022	11765990	722519	Unspecified Contaminated Soil, PMT RCG	19.17	693.73	102.6	384
33	6	7/14/2022	11765991	722520	Unspecified Contaminated Soil, PMT RCG	17.57	711.3	120.17	396
34	7	7/14/2022	11765992	722522	Unspecified Contaminated Soil, PMT RCG	20.79	732.09	140.96	408
35	8	7/14/2022	11765993	722524	Unspecified Contaminated Soil, PMT RCG	20.55	752.64	161.51	420
36	9	7/14/2022	11765994	722530	Unspecified Contaminated Soil, PMT RCG	23.38	776.02	184.89	432
37	10	7/14/2022	11765995	722538	Unspecified Contaminated Soil, PMT RCG	25.97	801.99	210.86	444
38	11	7/14/2022	11765996	722539	Unspecified Contaminated Soil, PMT RCG	23.05	825.04	233.91	456
39	12	7/14/2022	11765997	722541	Unspecified Contaminated Soil, PMT RCG	20.2	845.24	254.11	468
40	13	7/14/2022	11765998	722543	Unspecified Contaminated Soil, PMT RCG	23.79	869.03	277.9	480
41	14	7/14/2022	11765999	722546	Unspecified Contaminated Soil, PMT RCG	23.09	892.12	300.99	492
42	15	7/14/2022	11766000	722547	Unspecified Contaminated Soil, PMT RCG	21.37	913.49	322.36	504
43	16	7/14/2022	11766001	722552	Unspecified Contaminated Soil, PMT RCG	21.36	934.85	343.72	516
44	17	7/14/2022	11766002	722565	Unspecified Contaminated Soil, PMT RCG	20.71	955.56	364.43	528
45	18	7/14/2022	11766003	722567	Unspecified Contaminated Soil, PMT RCG	23.12	978.68	387.55	540
46	19	7/14/2022	11766004	722568	Unspecified Contaminated Soil, PMT RCG	18.48	997.16	406.03	552
47	20	7/14/2022	11766005	722570	Unspecified Contaminated Soil, PMT RCG	21.32	1018.48	427.35	564
48	21	7/14/2022	11766006	722578	Unspecified Contaminated Soil, PMT RCG	22.57	1041.05	449.92	576
49	22	7/14/2022	11766007	722579	Unspecified Contaminated Soil, PMT RCG	17.72	1058.77	467.64	588
50	23	7/14/2022	11766010	722581	Unspecified Contaminated Soil, PMT RCG	19.9	1078.67	487.54	600
51	24	7/14/2022	11766008	722582	Unspecified Contaminated Soil, PMT RCG	18.05	1096.72	505.59	612
52	25	7/14/2022	11766009	722583	Unspecified Contaminated Soil, PMT RCG	16.58	1113.3	522.17	624
53	26	7/14/2022	11766011	722590	Unspecified Contaminated Soil, PMT RCG	19.52	1132.82	541.69	636
54	27	7/14/2022	11766013	722598	Unspecified Contaminated Soil, PMT RCG	20.57	1153.39	562.26	648
55	28	7/14/2022	11766012	722601	Unspecified Contaminated Soil, PMT RCG	20.61	1174	582.87	660
56	29	7/14/2022	11766014	722603	Unspecified Contaminated Soil, PMT RCG	25.83	1199.83	608.7	672
57	30	7/14/2022	11766015	722616	Unspecified Contaminated Soil, PMT RCG	23.22	1223.05	631.92	684
58	31	7/14/2022	11766016	722622	Unspecified Contaminated Soil, PMT RCG	19.83	1242.88	651.75	696
59	1	7/15/2022	11766017	722665	Unspecified Contaminated Soil, PMT RCG	22.9	1265.78	22.9	708
60	2	7/15/2022	11766018	722668	Unspecified Contaminated Soil, PMT RCG	21.58	1287.36	44.48	720
61	3	7/15/2022	11766019	722675	Unspecified Contaminated Soil, PMT RCG	22.22	1309.58	66.7	732
62	4	7/15/2022	11766020	722678	Unspecified Contaminated Soil, PMT RCG	26.17	1335.75	92.87	744
63	5	7/15/2022	11766021	722681	Unspecified Contaminated Soil, PMT RCG	26.62	1362.37	119.49	756
64	6	7/15/2022	11766022	722683	Unspecified Contaminated Soil, PMT RCG	16.74	1379.11	136.23	768
65	7	7/15/2022	11766023	722686	Unspecified Contaminated Soil, PMT RCG	20.61	1399.72	156.84	780
66	8	7/15/2022	11766024	722687	Unspecified Contaminated Soil, PMT RCG	19.6	1419.32	176.44	792
67	9	7/15/2022	11766025	722689	Unspecified Contaminated Soil, PMT RCG	20.34	1439.66	196.78	804
68	10	7/15/2022	11766027	722691	Unspecified Contaminated Soil, PMT RCG	21.03	1460.69	217.81	816
69	11	7/15/2022	11766026	722692	Unspecified Contaminated Soil, PMT RCG	19.61	1480.3	237.42	828
70	12	7/15/2022	11766028	722695	Unspecified Contaminated Soil, PMT RCG	22.9	1503.2	260.32	840
71	13	7/15/2022	11766029	722703	Unspecified Contaminated Soil, PMT RCG	21.47	1524.67	281.79	852
72	14	7/15/2022	11766030	722704	Unspecified Contaminated Soil, PMT RCG	23.03	1547.7	304.82	864
73	15	7/15/2022	11766031	722709	Unspecified Contaminated Soil, PMT RCG	20.14	1567.84	324.96	876
74	16	7/15/2022	11766032	722714	Unspecified Contaminated Soil, PMT RCG	22.96	1590.8	347.92	888
75	17	7/15/2022	11766033	722718	Unspecified Contaminated Soil, PMT RCG	17.29	1608.09	365.21	900
76	18	7/15/2022	11766034	722721	Unspecified Contaminated Soil, PMT RCG	21.39	1629.48	386.6	912
77	19	7/15/2022	11766036	722728	Unspecified Contaminated Soil, PMT RCG	19.79	1649.27	406.39	924
78	20	7/15/2022	11766037	722733	Unspecified Contaminated Soil, PMT RCG	21.35	1670.62	427.74	936
79	21	7/15/2022	11766039	722735	Unspecified Contaminated Soil, PMT RCG	16.39	1687.01	444.13	948
80	22	7/15/2022	11766038	722736	Unspecified Contaminated Soil, PMT RCG	19.92	1706.93	464.05	960
81	23	7/15/2022	11766035	722738	Unspecified Contaminated Soil, PMT RCG	17.82	1724.75	481.87	972
82	24	7/15/2022	11766040	722739	Unspecified Contaminated Soil, PMT RCG	22.74	1747.49	504.61	984
83	25	7/15/2022	11766041	722750	Unspecified Contaminated Soil, PMT RCG	20.13	1767.62	524.74	996
84	26	7/15/2022	11766042	722753	Unspecified Contaminated Soil, PMT RCG	21.18	1788.8	545.92	1008
85	27	7/15/2022	11766043	722756	Unspecified Contaminated Soil, PMT RCG	17.49	1806.29	563.41	1020
86	28	7/15/2022	11766044	722761	Unspecified Contaminated Soil, PMT RCG	16.21	1822.5	579.62	1032
87	29	7/15/2022	11766045	722766	Unspecified Contaminated Soil, PMT RCG	20.29	1842.79	599.91	1044
88	30	7/15/2022	11766046	722773	Unspecified Contaminated Soil, PMT RCG	18.13	1860.92	618.04	1056
89	31	7/15/2022	11766047	722776	Unspecified Contaminated Soil, PMT RCG	19.76	1880.68	637.8	1068
90	32	7/15/2022	11766048	722784	Unspecified Contaminated Soil, PMT RCG	17.08	1897.76	654.88	1080
91	33	7/15/2022	11766050	722789	Unspecified Contaminated Soil, PMT RCG	20.39	1918.15	675.27	1092
92	34	7/15/2022	11766051	722791	Unspecified Contaminated Soil, PMT RCG	20.15	1938.3	695.42	1104
93	35	7/15/2022	11766049	722794	Unspecified Contaminated Soil, PMT RCG	16.32	1954.62	711.74	1116
94	36	7/15/2022	11766052	722796	Unspecified Contaminated Soil, PMT RCG	22.21	1976.83	733.95	1128
95	37	7/15/2022	11766053	722801	Unspecified Contaminated Soil, PMT RCG	19.29	1996.12	753.24	1140
96	38	7/15/2022	11766054	722804	Unspecified Contaminated Soil, PMT RCG	22.06	2018.18	775.3	1152
97	39	7/15/2022	11766055	722818	Unspecified Contaminated Soil, PMT RCG	23.25	2041.43	798.55	1164
98	40	7/15/2022	11766056	722828	Unspecified Contaminated Soil, PMT RCG	24.01	2065.44	822.56	1176
99	1	7/18/2022	11766057	722867	Unspecified Contaminated Soil, PMT RCG	19.4	2084.84	19.4	1188
100	2	7/18/2022	11766058	722868	Unspecified Contaminated Soil, PMT RCG	21.43	2106.27	40.83	1200
101	3	7/18/2022	11766060	722869	Unspecified Contaminated Soil, PMT RCG	21.92	2128.19	62.75	1212
102	4	7/18/2022	11766061	722871	Unspecified Contaminated Soil, PMT RCG	14.89	2143.08	77.64	1224
103	5	7/18/2022	11766059	722873	Unspecified Contaminated Soil, PMT RCG	21.15	2164.23	98.79	1236
104	6	7/18/2022	11766062	722874	Unspecified Contaminated Soil, PMT RCG	18.78	2183.01	117.57	1248
105	7	7/18/2022	11766063	722875	Unspecified Contaminated Soil, PMT RCG	16.88	2199.89	134.45	1260
106	8	7/18/2022	11766064	722877	Unspecified Contaminated Soil, PMT RCG	19.13	2219.02	153.58	1272
107	9	7/18/2022	11766170	722987	Unspecified Contaminated Soil, PMT RCG	16.07	2235.09	169.65	1284
108	1	7/19/2022	11766173	723027	Unspecified Contaminated Soil, PMT RCG	17.63	2252.72	17.63	1296
109	2	7/19/2022	11766174	723032	Unspecified Contaminated Soil, PMT RCG	21.74	2274.46	39.37	1308
110	3	7/19/2022	11766175	723034	Unspecified Contaminated Soil, PMT RCG	18.84	2293.3	58.21	1320
111	4	7/19/2022	11766176	723037	Unspecified Contaminated Soil, PMT RCG	17.38	2310.68	75.59	1332
112	5	7/19/2022	11766177	723041	Unspecified Contaminated Soil, PMT RCG	21.3	2331.98	96.89	1344
113	6	7/19/2022	11766178	723044	Unspecified Contaminated Soil, PMT RCG	20.61	2352.59	117.5	1356
114	7	7/19/2022	11766179	723046	Unspecified Contaminated Soil, PMT RCG	20.63	2373.22	138.13	1368
115	8	7/19/2022	11766180	723050	Unspecified Contaminated Soil, PMT RCG	24.46	2397.68	162.59	1380
116	9	7/19/2022	11766181	723052	Unspecified Contaminated Soil, PMT RCG	26.56	2424.24	189.15	1392
117	10	7/19/2022	11766182	723053	Unspecified Contaminated Soil, PMT RCG	19.53	2443.77	208.68	1404
118	11	7/19/2022	11766183	723057	Unspecified Contaminated Soil, PMT RCG	24.15	2467.92	232.83	1416
119	12	7/19/2022	11766184	723061	Unspecified Contaminated Soil, PMT RCG	22.39	2490.31	255.22	1428

HERITAGE POINT SITE
BCP SITE #C915347

Waste Manifest: Scale Tickets - Waste Management

Load #	Daily Load Total	Date	Manifest #	Ticket #	Description	Wt (Per load) Tons	Running Total Wt (Tons)	Total for Day	Estimated Total CY To Date
120	13	7/19/2022	11766185	723062	Unspecified Contaminated Soil, PMT RCG	16.67	2506.98	271.89	1440
121	14	7/19/2022	11766186	723065	Unspecified Contaminated Soil, PMT RCG	22.66	2529.64	294.55	1452
122	15	7/19/2022	11766187	723069	Unspecified Contaminated Soil, PMT RCG	19.36	2549	313.91	1464
123	16	7/19/2022	11766188	723072	Unspecified Contaminated Soil, PMT RCG	24.45	2573.45	338.36	1476
124	17	7/19/2022	11766189	723077	Unspecified Contaminated Soil, PMT RCG	20.71	2594.16	359.07	1488
125	18	7/19/2022	11766190	723078	Unspecified Contaminated Soil, PMT RCG	21.22	2615.38	380.29	1500
126	19	7/19/2022	11766191	723079	Unspecified Contaminated Soil, PMT RCG	22.87	2638.25	403.16	1512
127	20	7/19/2022	11766192	723085	Unspecified Contaminated Soil, PMT RCG	23.35	2661.6	426.51	1524
128	21	7/19/2022	11766194	723090	Unspecified Contaminated Soil, PMT RCG	19.88	2681.48	446.39	1536
129	22	7/19/2022	11766195	723096	Unspecified Contaminated Soil, PMT RCG	16.48	2697.96	462.87	1548
130	23	7/19/2022	11766196	723097	Unspecified Contaminated Soil, PMT RCG	13.3	2711.26	476.17	1560
131	24	7/19/2022	11766197	723104	Unspecified Contaminated Soil, PMT RCG	19.87	2731.13	496.04	1572
132	25	7/19/2022	11766193	723105	Unspecified Contaminated Soil, PMT RCG	25	2756.13	521.04	1584
133	26	7/19/2022	11766198	723106	Unspecified Contaminated Soil, PMT RCG	17.56	2773.69	538.6	1596
134	27	7/19/2022	11766199	723107	Unspecified Contaminated Soil, PMT RCG	18.78	2792.47	557.38	1608
135	28	7/19/2022	11766200	723108	Unspecified Contaminated Soil, PMT RCG	15.88	2808.35	573.26	1620
136	29	7/19/2022	11766201	723110	Unspecified Contaminated Soil, PMT RCG	15.5	2823.85	588.76	1632
137	30	7/19/2022	11766202	723112	Unspecified Contaminated Soil, PMT RCG	24.21	2848.06	612.97	1644
138	31	7/19/2022	11766203	723117	Unspecified Contaminated Soil, PMT RCG	23.03	2871.09	636	1656
139	32	7/19/2022	11766204	723123	Unspecified Contaminated Soil, PMT RCG	24.33	2895.42	660.33	1668
140	33	7/19/2022	11766206	723133	Unspecified Contaminated Soil, PMT RCG	24.63	2920.05	684.96	1680
141	34	7/19/2022	11766207	723135	Unspecified Contaminated Soil, PMT RCG	21.07	2941.12	706.03	1692
142	35	7/19/2022	11766208	723136	Unspecified Contaminated Soil, PMT RCG	18.72	2959.84	724.75	1704
143	36	7/19/2022	11766209	723137	Unspecified Contaminated Soil, PMT RCG	19.76	2979.6	744.51	1716
144	37	7/19/2022	11766210	723144	Unspecified Contaminated Soil, PMT RCG	20.17	2999.77	764.68	1728
145	1	7/20/2022	11766211	723176	Unspecified Contaminated Soil, PMT RCG	17.55	3017.32	17.55	1740
146	2	7/20/2022	11766212	723178	Unspecified Contaminated Soil, PMT RCG	21.62	3038.94	39.17	1752
147	3	7/20/2022	11766213	723179	Unspecified Contaminated Soil, PMT RCG	22.78	3061.72	61.95	1764
148	4	7/20/2022	11766214	723182	Unspecified Contaminated Soil, PMT RCG	17.02	3078.74	78.97	1776
149	5	7/20/2022	11766215	723186	Unspecified Contaminated Soil, PMT RCG	19.9	3098.64	98.87	1788
150	6	7/20/2022	11766216	723190	Unspecified Contaminated Soil, PMT RCG	16.29	3114.93	115.16	1800
151	7	7/20/2022	11766217	723191	Unspecified Contaminated Soil, PMT RCG	21.1	3136.03	136.26	1812
152	8	7/20/2022	11766218	723192	Unspecified Contaminated Soil, PMT RCG	17.66	3153.69	153.92	1824
153	9	7/20/2022	11766219	723194	Unspecified Contaminated Soil, PMT RCG	21.18	3174.87	175.1	1836
154	10	7/20/2022	11766220	723196	Unspecified Contaminated Soil, PMT RCG	19.43	3194.3	194.53	1848
155	11	7/20/2022	11766221	723200	Unspecified Contaminated Soil, PMT RCG	21.51	3215.81	216.04	1860
156	12	7/20/2022	11766222	723201	Unspecified Contaminated Soil, PMT RCG	14.72	3230.53	230.76	1872
157	13	7/20/2022	11766223	723219	Unspecified Contaminated Soil, PMT RCG	21.07	3251.6	251.83	1884
158	14	7/20/2022	11766224	723220	Unspecified Contaminated Soil, PMT RCG	21.06	3272.66	272.89	1896
159	15	7/20/2022	11766225	723222	Unspecified Contaminated Soil, PMT RCG	22.55	3295.21	295.44	1908
160	16	7/20/2022	11766226	723224	Unspecified Contaminated Soil, PMT RCG	17.89	3313.1	313.33	1920
161	17	7/20/2022	11766227	723225	Unspecified Contaminated Soil, PMT RCG	21.39	3334.49	334.72	1932
162	18	7/20/2022	11766228	723227	Unspecified Contaminated Soil, PMT RCG	20.23	3354.72	354.95	1944
163	19	7/20/2022	11766229	723232	Unspecified Contaminated Soil, PMT RCG	24.05	3378.77	379	1956
164	20	7/20/2022	11766230	723234	Unspecified Contaminated Soil, PMT RCG	19.12	3397.89	398.12	1968
165	21	7/20/2022	11766065	723237	Unspecified Contaminated Soil, PMT RCG	21.76	3419.65	419.88	1980
166	22	7/20/2022	11766066	723240	Unspecified Contaminated Soil, PMT RCG	19	3438.65	438.88	1992
167	23	7/20/2022	11766067	723242	Unspecified Contaminated Soil, PMT RCG	17.2	3455.85	456.08	2004
168	24	7/20/2022	11766068	723262	Unspecified Contaminated Soil, PMT RCG	19.21	3475.06	475.29	2016
169	25	7/20/2022	11766070	723265	Unspecified Contaminated Soil, PMT RCG	21.26	3496.32	496.55	2028
170	26	7/20/2022	11766069	723267	Unspecified Contaminated Soil, PMT RCG	21.55	3517.87	518.1	2040
171	27	7/20/2022	11766071	723268	Unspecified Contaminated Soil, PMT RCG	18.19	3536.06	536.29	2052
172	28	7/20/2022	11766072	723269	Unspecified Contaminated Soil, PMT RCG	19.97	3556.03	556.26	2064
173	29	7/20/2022	11766073	723270	Unspecified Contaminated Soil, PMT RCG	19.32	3575.35	575.58	2076
174	30	7/20/2022	11766074	723277	Unspecified Contaminated Soil, PMT RCG	22.91	3598.26	598.49	2088
175	31	7/20/2022	11766075	723280	Unspecified Contaminated Soil, PMT RCG	22.56	3620.82	621.05	2100
176	32	7/20/2022	11766076	723282	Unspecified Contaminated Soil, PMT RCG	21.75	3642.57	642.8	2112
177	33	7/20/2022	11766077	723286	Unspecified Contaminated Soil, PMT RCG	15.49	3658.06	658.29	2124
178	34	7/20/2022	11766078	723287	Unspecified Contaminated Soil, PMT RCG	16.24	3674.3	674.53	2136
179	35	7/20/2022	11766079	723297	Unspecified Contaminated Soil, PMT RCG	22.38	3696.68	696.91	2148
180	36	7/20/2022	11766080	723299	Unspecified Contaminated Soil, PMT RCG	22.96	3719.64	719.87	2160
181	37	7/20/2022	11766081	723300	Unspecified Contaminated Soil, PMT RCG	17.82	3737.46	737.69	2172
182	38	7/20/2022	11766082	723304	Unspecified Contaminated Soil, PMT RCG	21.6	3759.06	759.29	2184
183	39	7/20/2022	11766083	723306	Unspecified Contaminated Soil, PMT RCG	17.67	3776.73	776.96	2196
184	40	7/20/2022	11766084	723313	Unspecified Contaminated Soil, PMT RCG	20.51	3797.24	797.47	2208
185	41	7/20/2022	11766085	723316	Unspecified Contaminated Soil, PMT RCG	20.45	3817.69	817.92	2220
186	42	7/20/2022	11766086	723318	Unspecified Contaminated Soil, PMT RCG	19.88	3837.57	837.8	2232
187	43	7/20/2022	11766087	723323	Unspecified Contaminated Soil, PMT RCG	18.8	3856.37	856.6	2244
188	44	7/20/2022	11766088	723326	Unspecified Contaminated Soil, PMT RCG	14.31	3870.68	870.91	2256
189	45	7/20/2022	11766089	723327	Unspecified Contaminated Soil, PMT RCG	23.27	3893.95	894.18	2268
190	46	7/20/2022	11766090	723339	Unspecified Contaminated Soil, PMT RCG	25.65	3919.6	919.83	2280
191	47	7/20/2022	11766091	723341	Unspecified Contaminated Soil, PMT RCG	19.76	3939.36	939.59	2292
192	48	7/20/2022	11766092	723347	Unspecified Contaminated Soil, PMT RCG	19.48	3958.84	959.07	2304
193	49	7/20/2022	11766093	723351	Unspecified Contaminated Soil, PMT RCG	19.41	3978.25	978.48	2316
194	50	7/20/2022	11766094	723353	Unspecified Contaminated Soil, PMT RCG	19.01	3997.26	997.49	2328
195	51	7/20/2022	11766095	723356	Unspecified Contaminated Soil, PMT RCG	19.28	4016.54	1016.77	2340
196	1	7/21/2022	11766098	723376	Unspecified Contaminated Soil, PMT RCG	20.44	4036.98	20.44	2352
197	2	7/21/2022	11766096	723379	Unspecified Contaminated Soil, PMT RCG	22.37	4059.35	42.81	2364
198	3	7/21/2022	11766097	723381	Unspecified Contaminated Soil, PMT RCG	17.55	4076.9	60.36	2376
199	4	7/21/2022	11766099	723383	Unspecified Contaminated Soil, PMT RCG	20.52	4097.42	80.88	2388
200	5	7/21/2022	11766100	723384	Unspecified Contaminated Soil, PMT RCG	22.8	4120.22	103.68	2400
201	6	7/21/2022	11766101	723386	Unspecified Contaminated Soil, PMT RCG	26.06	4146.28	129.74	2412
202	7	7/21/2022	11766102	723389	Unspecified Contaminated Soil, PMT RCG	21.35	4167.63	151.09	2424
203	8	7/21/2022	11766103	723390	Unspecified Contaminated Soil, PMT RCG	21.95	4189.58	173.04	2436
204	9	7/21/2022	11766104	723393	Unspecified Contaminated Soil, PMT RCG	19.12	4208.7	192.16	2448
205	10	7/21/2022	11766105	723394	Unspecified Contaminated Soil, PMT RCG	20.7	4229.4	212.86	2460
206	11	7/21/2022	11766106	723400	Unspecified Contaminated Soil, PMT RCG	21.72	4251.12	234.58	2472
207	12	7/21/2022	11766107	723417	Unspecified Contaminated Soil, PMT RCG	20.73	4271.85	255.31	2484
208	13	7/21/2022	11766108	723418	Unspecified Contaminated Soil, PMT RCG	21.69	4293.54	277	2496
209	14	7/21/2022	11766109	723420	Unspecified Contaminated Soil, PMT RCG	21.66	4315.2	298.66	2508
210	15	7/21/2022	11766110	723421	Unspecified Contaminated Soil, PMT RCG	23.6	4338.8	322.26	2520
211	16	7/21/2022	11766111	723426	Unspecified Contaminated Soil, PMT RCG	20.07	4358.87	342.33	2532
212	17	7/21/2022	11766112	723429	Unspecified Contaminated Soil, PMT RCG	26.26	4385.13	368.59	2544
213	18	7/21/2022	11766114	723430	Unspecified Contaminated Soil, PMT RCG	20	4405.13	388.59	2556
214	19	7/21/2022	11766115	723434	Unspecified Contaminated Soil, PMT RCG	16.57	4421.7	405.16	2568
215	20	7/21/2022	11766113	723436	Unspecified Contaminated Soil, PMT RCG	23.57	4445.27	428.73	2580
216	21	7/21/2022	11766116	723438	Unspecified Contaminated Soil, PMT RCG	21.72	4466.99	450.45	2592
217	22	7/21/2022	11766117	723454	Unspecified Contaminated Soil, PMT RCG	18.06	4485.05	468.51	2604
218	23	7/21/2022	11766118	723456	Unspecified Contaminated Soil, PMT RCG	18.08	4503.13	486.59	2616
219	24	7/21/2022	11766120	723457	Unspecified Contaminated Soil, PMT RCG	17.41	4520.54	504	2628
220	25	7/21/2022	11766119	723460	Unspecified Contaminated Soil, PMT RCG	22.63	4543.17	526.63	2640
221	26	7/21/2022	11766121	723461	Unspecified Contaminated Soil, PMT RCG	21.42	4564.59	548.05	2652
222	27	7/21/2022	11766122	723463	Unspecified Contaminated Soil, PMT RCG	21.15	4585.74	569.2	2664
223	28	7/21/2022	11766123	723465	Unspecified Contaminated Soil, PMT RCG	22.92	4608.66	592.12	2676
224	29	7/21/2022	1176614	723470	Unspecified Contaminated Soil, PMT RCG	22.58	4631.24	614.7	2688
225	30	7/21/2022	11766126	723481	Unspecified Contaminated Soil, PMT RCG	17.62	4648.86	632.32	2700
226	31	7/21/2022	11766125	723482	Unspecified Contaminated Soil, PMT RCG	20.64	4669.5	652.96	2712
227	32	7/21/2022	11766127	723498	Unspecified Contaminated Soil, PMT RCG	22.92	4692.42	675.88	2724
228	33	7/21/2022	11766128	723499	Unspecified Contaminated Soil, PMT RCG	19.66	4712.08	695.54	2736
229	34	7/21/2022	11766129	723503	Unspecified Contaminated Soil, PMT RCG	22.82	4734.9	718.36	2748
230	35	7/21/2022	11766130	723506	Unspecified Contaminated Soil, PMT RCG	22.85	4757.75	741.21	2760
231	36	7/21/2022	11766131	723510	Unspecified Contaminated Soil, PMT RCG	25.85	4783.6	767.06	2772
232	37	7/21/2022	11766132	723511	Unspecified Contaminated Soil, PMT RCG	19.79	4803.39	786.85	2784
233	38	7/21/2022	11766133	723514	Unspecified Contaminated Soil, PMT RCG	20.55	4823.94	807.4	2796
234	39	7/21/2022	11766134	723515	Unspecified Contaminated Soil, PMT RCG	21.85	4845.79	829.25	2808
235	1	7/22/2022	11766135	723542	Unspecified Contaminated Soil, PMT RCG	19.79	4865.58	19.79	2820
236	2	7/22/2022	11766136	723543	Unspecified Contaminated Soil, PMT RCG	23.55	4889.13	43.34	2832
237	3	7/22/2022	11766137	723544	Unspecified Contaminated Soil, PMT RCG	21.53	4910.66	66.89	2844
238	4	7/22/2022	11766138	723546	Unspecified Contaminated Soil, PMT RCG	17.6	4928.26	84.49	2856

Waste Manifest: Scale Tickets - Waste Management

Load #	Daily Load Total	Date	Manifest #	Ticket #	Description	Wt (Per load) Tons	Running Total Wt (Tons)	Total for Day	Estimated Total CY To Date
239	5	7/22/2022	11766139	723547	Unspecified Contaminated Soil, PMT RCG	20.88	4949.14	102.09	2868
240	6	7/22/2022	11766140	723550	Unspecified Contaminated Soil, PMT RCG	15.08	4964.22	117.17	2880
241	7	7/22/2022	11766141	723552	Unspecified Contaminated Soil, PMT RCG	21.97	4986.19	132.25	2892
242	8	7/22/2022	11766142	723553	Unspecified Contaminated Soil, PMT RCG	23.46	5009.65	155.71	2904
243	9	7/22/2022	11766143	723555	Unspecified Contaminated Soil, PMT RCG	16.52	5026.17	179.17	2916
244	10	7/22/2022	11766144	723559	Unspecified Contaminated Soil, PMT RCG	24.09	5050.26	203.26	2928
245	11	7/22/2022	11766145	723561	Unspecified Contaminated Soil, PMT RCG	23.61	5073.87	227.35	2940
246	12	7/22/2022	11766146	723562	Unspecified Contaminated Soil, PMT RCG	16.26	5090.13	243.61	2952
247	13	7/22/2022	11766147	723572	Unspecified Contaminated Soil, PMT RCG	18.64	5108.77	259.87	2964
248	14	7/22/2022	11766148	723573	Unspecified Contaminated Soil, PMT RCG	21.68	5130.45	281.55	2976
249	15	7/22/2022	11766149	723574	Unspecified Contaminated Soil, PMT RCG	23.57	5154.02	303.23	2988
250	16	7/22/2022	11766150	723578	Unspecified Contaminated Soil, PMT RCG	18.07	5172.09	321.3	3000
251	17	7/22/2022	11766152	723581	Unspecified Contaminated Soil, PMT RCG	18.05	5190.14	339.37	3012
252	18	7/22/2022	11766153	723583	Unspecified Contaminated Soil, PMT RCG	26.42	5216.56	365.79	3024
253	19	7/22/2022	11766154	723584	Unspecified Contaminated Soil, PMT RCG	17.8	5234.36	392.21	3036
254	20	7/22/2022	11766155	723586	Unspecified Contaminated Soil, PMT RCG	20.01	5254.37	412.22	3048
255	21	7/22/2022	11766156	723590	Unspecified Contaminated Soil, PMT RCG	21.91	5276.28	434.13	3060
256	22	7/22/2022	11766157	723595	Unspecified Contaminated Soil, PMT RCG	23.85	5300.13	456.04	3072
257	23	7/22/2022	11766158	723607	Unspecified Contaminated Soil, PMT RCG	18.27	5318.4	474.31	3084
258	24	7/22/2022	11766159	723608	Unspecified Contaminated Soil, PMT RCG	19.49	5337.89	492.58	3096
259	25	7/22/2022	11766160	723610	Unspecified Contaminated Soil, PMT RCG	21.35	5359.24	513.93	3108
260	26	7/22/2022	11766161	723612	Unspecified Contaminated Soil, PMT RCG	22.56	5381.8	535.28	3120
261	27	7/22/2022	11766162	723614	Unspecified Contaminated Soil, PMT RCG	15.51	5397.31	550.79	3132
262	28	7/22/2022	11766163	723615	Unspecified Contaminated Soil, PMT RCG	17.12	5414.43	566.3	3144
263	29	7/22/2022	11766164	723619	Unspecified Contaminated Soil, PMT RCG	23.24	5437.67	589.54	3156
264	30	7/22/2022	11766165	723623	Unspecified Contaminated Soil, PMT RCG	23.78	5461.45	612.78	3168
265	31	7/22/2022	11766166	723624	Unspecified Contaminated Soil, PMT RCG	19.4	5480.85	632.18	3180
266	32	7/22/2022	11766167	723625	Unspecified Contaminated Soil, PMT RCG	15.86	5496.71	651.58	3192
267	33	7/22/2022	11766151	723629	Unspecified Contaminated Soil, PMT RCG	22.34	5519.05	673.92	3204
268	34	7/22/2022	11766168	723635	Unspecified Contaminated Soil, PMT RCG	19.36	5538.41	696.26	3216
269	35	7/22/2022	11766169	723640	Unspecified Contaminated Soil, PMT RCG	18.32	5556.73	714.58	3228
270	36	7/22/2022	11766231	723642	Unspecified Contaminated Soil, PMT RCG	17.42	5574.15	732.9	3240
271	37	7/22/2022	11766232	723644	Unspecified Contaminated Soil, PMT RCG	20.64	5594.79	753.54	3252
272	38	7/22/2022	11766233	723648	Unspecified Contaminated Soil, PMT RCG	25.02	5619.81	774.18	3264
273	39	7/22/2022	11766234	723649	Unspecified Contaminated Soil, PMT RCG	16.96	5636.77	791.14	3276
274	40	7/22/2022	11766235	723650	Unspecified Contaminated Soil, PMT RCG	21.58	5658.35	812.72	3288
275	41	7/22/2022	11766236	723651	Unspecified Contaminated Soil, PMT RCG	19.8	5678.15	834.3	3300
276	42	7/22/2022	11766237	723659	Unspecified Contaminated Soil, PMT RCG	18.95	5697.1	853.25	3312
277	43	7/22/2022	11766238	723661	Unspecified Contaminated Soil, PMT RCG	21.75	5718.85	872.2	3324
278	44	7/22/2022	11766239	723662	Unspecified Contaminated Soil, PMT RCG	20.71	5739.56	892.91	3336
279	45	7/22/2022	11766240	723663	Unspecified Contaminated Soil, PMT RCG	18.84	5758.4	913.62	3348
280	46	7/22/2022	11766241	723669	Unspecified Contaminated Soil, PMT RCG	26.72	5785.12	940.34	3360
281	47	7/22/2022	11766242	723671	Unspecified Contaminated Soil, PMT RCG	13.45	5798.57	967.06	3372
282	48	7/22/2022	11766243	723674	Unspecified Contaminated Soil, PMT RCG	17.78	5816.35	984.84	3384
283	1	7/26/2022	11766205	723809	Unspecified Contaminated Soil, PMT RCG	20.5	5836.85	20.5	3396
284	2	7/26/2022	11766244	723810	Unspecified Contaminated Soil, PMT RCG	16.7	5853.55	37.2	3408
285	3	7/26/2022	11766245	723815	Unspecified Contaminated Soil, PMT RCG	19.64	5873.19	56.84	3420
286	4	7/26/2022	11766246	723816	Unspecified Contaminated Soil, PMT RCG	20.73	5893.92	77.57	3432
287	5	7/26/2022	11766247	723819	Unspecified Contaminated Soil, PMT RCG	16.5	5910.42	94.07	3444
288	6	7/26/2022	11766249	723821	Unspecified Contaminated Soil, PMT RCG	22.09	5932.51	116.16	3456
289	7	7/26/2022	11766248	723822	Unspecified Contaminated Soil, PMT RCG	20.21	5952.72	136.37	3468
290	8	7/26/2022	11766251	723855	Unspecified Contaminated Soil, PMT RCG	20.27	5972.99	156.64	3480
291	9	7/26/2022	11766250	723857	Unspecified Contaminated Soil, PMT RCG	22.63	5995.62	179.27	3492
292	10	7/26/2022	11766	723858	Unspecified Contaminated Soil, PMT RCG	20.83	6016.45	200.1	3504
293	11	7/26/2022	11766253	723864	Unspecified Contaminated Soil, PMT RCG	21.43	6037.88	221.53	3516
294	12	7/26/2022	11766255	723869	Unspecified Contaminated Soil, PMT RCG	17.26	6055.14	238.79	3528
295	13	7/26/2022	11766254	723870	Unspecified Contaminated Soil, PMT RCG	19.15	6074.29	257.94	3540
296	14	7/26/2022	11766256	723889	Unspecified Contaminated Soil, PMT RCG	16.49	6090.78	274.43	3552
297	15	7/26/2022	11766257	723893	Unspecified Contaminated Soil, PMT RCG	19.48	6110.26	293.91	3564
298	16	7/26/2022	11766258	723894	Unspecified Contaminated Soil, PMT RCG	20.04	6130.3	313.95	3576
299	17	7/26/2022	11766259	723895	Unspecified Contaminated Soil, PMT RCG	22.43	6152.73	336.38	3588
300	18	7/26/2022	11766260	723900	Unspecified Contaminated Soil, PMT RCG	19.52	6172.25	355.9	3600
301	19	7/26/2022	11766261	723903	Unspecified Contaminated Soil, PMT RCG	24.47	6196.72	380.37	3612
302	20	7/26/2022	11766262	723932	Unspecified Contaminated Soil, PMT RCG	16.73	6213.45	397.1	3624
303	21	7/26/2022	11766263	723934	Unspecified Contaminated Soil, PMT RCG	22.06	6235.51	419.16	3636
304	22	7/26/2022	11766264	723940	Unspecified Contaminated Soil, PMT RCG	21.64	6257.15	440.8	3648
305	23	7/26/2022	11766266	723943	Unspecified Contaminated Soil, PMT RCG	21.41	6278.56	462.21	3660
306	24	7/26/2022	11766267	723945	Unspecified Contaminated Soil, PMT RCG	23.23	6301.79	485.44	3672
307	25	7/26/2022	11766265	723948	Unspecified Contaminated Soil, PMT RCG	15.09	6316.88	500.53	3684
308	1	7/27/2022	11766268	723996	Unspecified Contaminated Soil, PMT RCG	14.65	6331.53	14.65	3696
309	2	7/27/2022	11766269	723997	Unspecified Contaminated Soil, PMT RCG	14.03	6345.56	28.68	3708
310	3	7/27/2022	11766270	723998	Unspecified Contaminated Soil, PMT RCG	17.89	6363.45	46.57	3720
311	4	7/27/2022	11766271	724000	Unspecified Contaminated Soil, PMT RCG	19.01	6382.46	65.58	3732
312	5	7/27/2022	11766272	724003	Unspecified Contaminated Soil, PMT RCG	16.84	6399.3	82.42	3744
313	6	7/27/2022	11766273	724004	Unspecified Contaminated Soil, PMT RCG	19.57	6418.87	101.99	3756
314	7	7/27/2022	11766274	724007	Unspecified Contaminated Soil, PMT RCG	13.86	6432.73	115.85	3768
315	8	7/27/2022	11766275	724027	Unspecified Contaminated Soil, PMT RCG	19.52	6452.25	135.37	3780
316	9	7/27/2022	11766276	724030	Unspecified Contaminated Soil, PMT RCG	18.99	6471.24	154.36	3792
317	10	7/27/2022	11766277	724031	Unspecified Contaminated Soil, PMT RCG	21.05	6492.29	175.41	3804
318	11	7/27/2022	11766278	724036	Unspecified Contaminated Soil, PMT RCG	14.49	6506.78	189.9	3816
319	12	7/27/2022	11766279	724062	Unspecified Contaminated Soil, PMT RCG	14.98	6521.76	204.88	3828
320	1	8/1/2022	11766280	724378	Unspecified Contaminated Soil, PMT RCG	23.38	6545.14	23.38	3840
321	2	8/1/2022	11766281	724397	Unspecified Contaminated Soil, PMT RCG	25.05	6570.19	48.43	3852
322	3	8/1/2022	11766282	724410	Unspecified Contaminated Soil, PMT RCG	19.55	6589.74	67.98	3864
323	4	8/1/2022	11766283	724422	Unspecified Contaminated Soil, PMT RCG	21.04	6610.78	89.02	3876
324	1	8/2/2022	11766284	724504	Unspecified Contaminated Soil, PMT RCG	19.11	6629.89	19.11	3888
325	2	8/2/2022	11766285	724508	Unspecified Contaminated Soil, PMT RCG	23.22	6653.11	42.33	3900
326	3	8/2/2022	11766286	724510	Unspecified Contaminated Soil, PMT RCG	23.71	6676.82	66.04	3912
327	4	8/2/2022	11766287	724511	Unspecified Contaminated Soil, PMT RCG	21.04	6697.86	87.08	3924
328	5	8/2/2022	11766288	724515	Unspecified Contaminated Soil, PMT RCG	19.62	6717.48	106.7	3936
329	6	8/2/2022	11766290	724533	Unspecified Contaminated Soil, PMT RCG	18.21	6735.69	124.91	3948
330	7	8/2/2022	11766289	724535	Unspecified Contaminated Soil, PMT RCG	20.85	6756.54	145.76	3960
331	8	8/2/2022	11766291	724536	Unspecified Contaminated Soil, PMT RCG	21.09	6777.63	166.85	3972
332	9	8/2/2022	11766292	724538	Unspecified Contaminated Soil, PMT RCG	17.41	6795.04	184.26	3984
333	10	8/2/2022	11766293	724542	Unspecified Contaminated Soil, PMT RCG	21.65	6816.69	205.91	3996
334	11	8/2/2022	11766294	724548	Unspecified Contaminated Soil, PMT RCG	22.81	6839.5	228.72	4008
335	12	8/2/2022	11766295	724570	Unspecified Contaminated Soil, PMT RCG	24.13	6863.63	252.85	4020
336	13	8/2/2022	11766296	724571	Unspecified Contaminated Soil, PMT RCG	22.09	6885.72	274.94	4032
337	14	8/2/2022	11766297	724573	Unspecified Contaminated Soil, PMT RCG	26.03	6911.75	300.97	4044
338	15	8/2/2022	11766298	724574	Unspecified Contaminated Soil, PMT RCG	21.98	6933.73	322.95	4056
339	16	8/2/2022	11766299	724576	Unspecified Contaminated Soil, PMT RCG	19.5	6953.23	342.45	4068
340	17	8/2/2022	11766300	724585	Unspecified Contaminated Soil, PMT RCG	22.88	6976.11	365.33	4080
341	18	8/2/2022	11766301	724598	Unspecified Contaminated Soil, PMT RCG	26.58	7002.69	391.91	4092
342	19	8/2/2022	11766302	724600	Unspecified Contaminated Soil, PMT RCG	19.99	7022.68	411.9	4104
343	20	8/2/2022	11766303	724601	Unspecified Contaminated Soil, PMT RCG	23.21	7045.89	435.11	4116
344	21	8/2/2022	11766304	724603	Unspecified Contaminated Soil, PMT RCG	19.04	7064.93	454.15	4128
345	22	8/2/2022	11766305	724608	Unspecified Contaminated Soil, PMT RCG	17.57	7082.5	471.72	4140
346	1	8/3/2022	11766306	724664	Unspecified Contaminated Soil, PMT RCG	25.73	7108.23	25.73	4152
347	2	8/3/2022	11766307	724666	Unspecified Contaminated Soil, PMT RCG	23.27	7131.5	49	4164
348	3	8/3/2022	11766308	724667	Unspecified Contaminated Soil, PMT RCG	22.16	7153.66	71.16	4176
349	4	8/3/2022	11766309	724671	Unspecified Contaminated Soil, PMT RCG	21.01	7174.67	92.17	4188
350	5	8/3/2022	11766311	724675	Unspecified Contaminated Soil, PMT RCG	20.37	7195.04	112.54	4200
351	6	8/3/2022	11766310	724676	Unspecified Contaminated Soil, PMT RCG	16.87	7211.91	129.41	4212
352	7	8/3/2022	11766312	724684	Unspecified Contaminated Soil, PMT RCG	13.37	7225.28	142.78	4224
353	8	8/3/2022	11766313	724712	Unspecified Contaminated Soil, PMT RCG	22.09	7247.37	164.87	4236
354	9	8/3/2022	11766314	724716	Unspecified Contaminated Soil, PMT RCG	19.88	7267.25	184.75	4248
355	10	8/3/2022	11766315	724717	Unspecified Contaminated Soil, PMT RCG	18.76	7286.01	203.51	4260
356	11	8/3/2022	11766316	724718	Unspecified Contaminated Soil, PMT RCG	21.63	7307.64	225.14	4272
357	12	8/3/2022	11766317	724724	Unspecified Contaminated Soil, PMT RCG	23.49	7331.13	248.63	4284

Waste Manifest: Scale Tickets - Waste Management

Load #	Daily Load Total	Date	Manifest #	Ticket #	Description	Wt (Per load) Tons	Running Total Wt (Tons)	Total for Day	Estimated Total CY To Date
358	13	8/3/2022	11766318	724728	Unspecified Contaminated Soil, PMT RCG	18.72	7349.85	267.35	4296
359	14	8/3/2022	11766319	724746	Unspecified Contaminated Soil, PMT RCG	24.22	7374.07	291.57	4308
360	15	8/3/2022	11766320	724748	Unspecified Contaminated Soil, PMT RCG	23.53	7397.6	315.1	4320
361	16	8/3/2022	11766321	724751	Unspecified Contaminated Soil, PMT RCG	11.99	7409.59	327.09	4332
362	17	8/3/2022	11766322	724752	Unspecified Contaminated Soil, PMT RCG	18.04	7427.63	345.13	4344
363	18	8/3/2022	11766323	724756	Unspecified Contaminated Soil, PMT RCG	19.32	7446.95	364.45	4356
364	1	8/4/2022	11766324	724830	Unspecified Contaminated Soil, PMT RCG	23.17	7470.12	23.17	4368
365	2	8/4/2022	11766325	724832	Unspecified Contaminated Soil, PMT RCG	24.32	7494.44	47.49	4380
366	3	8/4/2022	11766326	724833	Unspecified Contaminated Soil, PMT RCG	19.28	7513.72	66.77	4392
367	4	8/4/2022	11766327	724835	Unspecified Contaminated Soil, PMT RCG	21.47	7535.19	88.24	4404
368	5	8/4/2022	11766328	724836	Unspecified Contaminated Soil, PMT RCG	17.82	7553.01	106.06	4416
369	6	8/4/2022	11766329	724839	Unspecified Contaminated Soil, PMT RCG	17.2	7570.21	123.26	4428
370	7	8/4/2022	11766330	724858	Unspecified Contaminated Soil, PMT RCG	24.44	7594.65	147.7	4440
371	8	8/4/2022	11766331	724862	Unspecified Contaminated Soil, PMT RCG	21.52	7616.17	169.22	4452
372	9	8/4/2022	11766332	724865	Unspecified Contaminated Soil, PMT RCG	23.02	7639.19	192.24	4464
373	10	8/4/2022	11766333	724868	Unspecified Contaminated Soil, PMT RCG	18.06	7657.25	210.3	4476
374	11	8/4/2022	11766334	724872	Unspecified Contaminated Soil, PMT RCG	17.21	7674.46	227.51	4488
375	12	8/4/2022	11766335	724874	Unspecified Contaminated Soil, PMT RCG	14.82	7689.28	242.33	4500
376	13	8/4/2022	11766336	724891	Unspecified Contaminated Soil, PMT RCG	19.98	7709.26	262.31	4512
377	14	8/4/2022	11766337	724896	Unspecified Contaminated Soil, PMT RCG	18.05	7727.31	280.36	4524
378	15	8/4/2022	11766338	724898	Unspecified Contaminated Soil, PMT RCG	18.11	7745.42	298.47	4536
379	16	8/4/2022	11766339	724899	Unspecified Contaminated Soil, PMT RCG	18.89	7764.31	317.36	4548
380	17	8/4/2022	11766340	724901	Unspecified Contaminated Soil, PMT RCG	15.23	7779.54	332.59	4560
381	18	8/4/2022	11766341	724903	Unspecified Contaminated Soil, PMT RCG	16.05	7795.59	348.64	4572
382	19	8/4/2022	11766342	724948	Unspecified Contaminated Soil, PMT RCG	20.37	7815.96	369.01	4584
383	1	8/5/2022	11766343	724987	Unspecified Contaminated Soil, PMT RCG	18.62	7834.58	18.62	4596
384	2	8/5/2022	11766344	724989	Unspecified Contaminated Soil, PMT RCG	18.59	7853.17	37.21	4608
385	3	8/5/2022	11766345	724993	Unspecified Contaminated Soil, PMT RCG	21.24	7874.41	58.45	4620
386	4	8/5/2022	11766347	724995	Unspecified Contaminated Soil, PMT RCG	19.39	7893.8	77.84	4632
387	5	8/5/2022	11766346	724997	Unspecified Contaminated Soil, PMT RCG	17.7	7911.5	95.54	4644
388	6	8/5/2022	11766348	725000	Unspecified Contaminated Soil, PMT RCG	19.72	7931.22	115.26	4656
389	7	8/5/2022	11766349	725001	Unspecified Contaminated Soil, PMT RCG	21.44	7952.66	136.7	4668
390	8	8/5/2022	11766350	725002	Unspecified Contaminated Soil, PMT RCG	21.74	7974.4	158.44	4680
391	9	8/5/2022	11766351	725015	Unspecified Contaminated Soil, PMT RCG	17.9	7992.3	176.34	4692
392	10	8/5/2022	11766352	725016	Unspecified Contaminated Soil, PMT RCG	11.75	8004.05	188.09	4704
393	11	8/5/2022	11766353	725019	Unspecified Contaminated Soil, PMT RCG	13.83	8017.88	201.92	4716
394	12	8/5/2022	11766354	725021	Unspecified Contaminated Soil, PMT RCG	16.17	8034.05	218.09	4728
395	13	8/5/2022	11766355	725027	Unspecified Contaminated Soil, PMT RCG	12.63	8046.68	230.72	4740
396	14	8/5/2022	11766356	725035	Unspecified Contaminated Soil, PMT RCG	12.46	8059.14	243.18	4752
397	15	8/5/2022	11766357	725036	Unspecified Contaminated Soil, PMT RCG	15.02	8074.16	258.2	4764
398	16	8/5/2022	11766359	725038	Unspecified Contaminated Soil, PMT RCG	15.98	8090.14	274.18	4776
399	17	8/5/2022	11766358	725048	Unspecified Contaminated Soil, PMT RCG	16.6	8106.74	290.78	4788
400	18	8/5/2022	11766360	725051	Unspecified Contaminated Soil, PMT RCG	14.31	8121.05	305.09	4800
401	19	8/5/2022	11766361	725053	Unspecified Contaminated Soil, PMT RCG	15.41	8136.46	320.5	4812
402	20	8/5/2022	11766362	725057	Unspecified Contaminated Soil, PMT RCG	14.24	8150.7	334.74	4824
403	21	8/5/2022	11766363	725061	Unspecified Contaminated Soil, PMT RCG	13.83	8164.53	348.57	4836
404	22	8/5/2022	11766364	725069	Unspecified Contaminated Soil, PMT RCG	12.92	8177.45	361.49	4848
405	23	8/5/2022	11766365	725070	Unspecified Contaminated Soil, PMT RCG	11.53	8188.98	373.02	4860
406	24	8/5/2022	11766366	725075	Unspecified Contaminated Soil, PMT RCG	17.58	8206.56	390.6	4872
407	1	8/8/2022	11766367	725126	Unspecified Contaminated Soil, PMT RCG	17.58	8224.14	17.58	4884
408	2	8/8/2022	11766368	725129	Unspecified Contaminated Soil, PMT RCG	18.83	8242.97	36.41	4896
409	3	8/8/2022	11766369	725132	Unspecified Contaminated Soil, PMT RCG	15.85	8258.82	52.26	4908
410	4	8/8/2022	11766370	725141	Unspecified Contaminated Soil, PMT RCG	21.22	8280.04	73.48	4920
411	5	8/8/2022	11766371	725153	Unspecified Contaminated Soil, PMT RCG	26.27	8306.31	99.75	4932
412	6	8/8/2022	11766372	725158	Unspecified Contaminated Soil, PMT RCG	17.78	8324.09	117.53	4944
413	7	8/8/2022	11766373	725163	Unspecified Contaminated Soil, PMT RCG	22.16	8346.25	139.69	4956
414	8	8/8/2022	11766374	725185	Unspecified Contaminated Soil, PMT RCG	25.25	8371.5	164.94	4968
415	9	8/8/2022	11766375	725186	Unspecified Contaminated Soil, PMT RCG	15.2	8386.7	180.14	4980
416	10	8/8/2022	11766376	725196	Unspecified Contaminated Soil, PMT RCG	20.82	8407.52	200.96	4992
417	11	8/8/2022	11766377	725212	Unspecified Contaminated Soil, PMT RCG	20.18	8427.7	221.14	5004
418	12	8/8/2022	11766378	725217	Unspecified Contaminated Soil, PMT RCG	18.48	8446.18	239.62	5016
419	13	8/8/2022	11766379	725224	Unspecified Contaminated Soil, PMT RCG	18.76	8464.94	258.38	5028
420	1	8/9/2022	11766380	725262	Unspecified Contaminated Soil, PMT RCG	22.17	8487.11	22.17	5040
421	2	8/9/2022	11766381	725263	Unspecified Contaminated Soil, PMT RCG	19.95	8507.06	42.12	5052
422	3	8/9/2022	11766382	725264	Unspecified Contaminated Soil, PMT RCG	24.42	8531.48	66.54	5064
423	4	8/9/2022	11766383	725267	Unspecified Contaminated Soil, PMT RCG	23.61	8555.09	90.15	5076
424	5	8/9/2022	11766384	725269	Unspecified Contaminated Soil, PMT RCG	19.99	8575.08	110.14	5088
425	1	8/11/2022	11766385	725520	Unspecified Contaminated Soil, PMT RCG	17.72	8592.8	17.72	5100
426	2	8/11/2022	11766386	725522	Unspecified Contaminated Soil, PMT RCG	18.3	8611.1	36.02	5112
427	3	8/11/2022	11766387	725523	Unspecified Contaminated Soil, PMT RCG	18.64	8629.74	54.66	5124
428	4	8/11/2022	11766388	725525	Unspecified Contaminated Soil, PMT RCG	24.96	8654.7	79.62	5136
429	5	8/11/2022	11766389	725528	Unspecified Contaminated Soil, PMT RCG	17.81	8672.51	97.43	5148
430	6	8/11/2022	11766390	725531	Unspecified Contaminated Soil, PMT RCG	16.29	8688.8	113.72	5160
431	7	8/11/2022	11766391	725532	Unspecified Contaminated Soil, PMT RCG	20.19	8708.99	133.91	5172
432	8	8/11/2022	11766392	725533	Unspecified Contaminated Soil, PMT RCG	16.42	8725.41	150.33	5184
433	9	8/11/2022	11766393	725534	Unspecified Contaminated Soil, PMT RCG	17.48	8742.89	167.81	5196
434	10	8/11/2022	11766394	725546	Unspecified Contaminated Soil, PMT RCG	18.21	8761.1	186.02	5208
435	11	8/11/2022	11766396	725550	Unspecified Contaminated Soil, PMT RCG	23.04	8784.14	209.06	5220
436	12	8/11/2022	11766397	725554	Unspecified Contaminated Soil, PMT RCG	20.48	8804.62	229.54	5232
437	13	8/11/2022	11766398	725558	Unspecified Contaminated Soil, PMT RCG	18.92	8823.54	248.46	5244
438	14	8/11/2022	11766395	725560	Unspecified Contaminated Soil, PMT RCG	16.45	8839.99	264.91	5256
439	15	8/11/2022	11766399	725562	Unspecified Contaminated Soil, PMT RCG	23.58	8863.57	288.49	5268
440	16	8/11/2022	11766400	725564	Unspecified Contaminated Soil, PMT RCG	21.03	8884.6	309.52	5280
441	17	8/11/2022	11766401	725566	Unspecified Contaminated Soil, PMT RCG	19.58	8904.18	329.1	5292
442	18	8/11/2022	11766403	725572	Unspecified Contaminated Soil, PMT RCG	17.8	8921.98	346.9	5304
443	19	8/11/2022	11766402	725573	Unspecified Contaminated Soil, PMT RCG	14.92	8936.9	361.82	5316
444	20	8/11/2022	11766404	725582	Unspecified Contaminated Soil, PMT RCG	21.64	8958.54	383.46	5328
445	21	8/11/2022	11766405	725585	Unspecified Contaminated Soil, PMT RCG	20.37	8978.91	403.83	5340
446	22	8/11/2022	11766406	725587	Unspecified Contaminated Soil, PMT RCG	19.25	8998.16	423.08	5352
447	23	8/11/2022	11766407	725591	Unspecified Contaminated Soil, PMT RCG	21.61	9019.77	444.69	5364
448	24	8/11/2022	11766408	725593	Unspecified Contaminated Soil, PMT RCG	18.19	9037.96	462.88	5376
449	25	8/11/2022	11766409	725595	Unspecified Contaminated Soil, PMT RCG	17.94	9055.9	480.82	5388
450	26	8/11/2022	11766410	725596	Unspecified Contaminated Soil, PMT RCG	20.3	9076.2	501.12	5400
451	27	8/11/2022	11766412	725604	Unspecified Contaminated Soil, PMT RCG	18.63	9094.83	519.75	5412
452	28	8/11/2022	11766411	725605	Unspecified Contaminated Soil, PMT RCG	22.22	9117.05	541.97	5424
453	29	8/11/2022	11766413	725607	Unspecified Contaminated Soil, PMT RCG	18.26	9135.31	560.23	5436
454	30	8/11/2022	11766414	725613	Unspecified Contaminated Soil, PMT RCG	17.73	9153.04	577.96	5448
455	31	8/11/2022	11766415	725626	Unspecified Contaminated Soil, PMT RCG	21.05	9174.09	599.01	5460
456	32	8/11/2022	11766416	725627	Unspecified Contaminated Soil, PMT RCG	19.66	9193.75	618.67	5472
457	33	8/11/2022	11766417	725629	Unspecified Contaminated Soil, PMT RCG	21.1	9214.85	639.77	5484
458	34	8/11/2022	11766418	725643	Unspecified Contaminated Soil, PMT RCG	17.63	9232.48	657.4	5496
459	35	8/11/2022	11766419	725645	Unspecified Contaminated Soil, PMT RCG	14.7	9247.18	672.1	5508
460	1	8/12/2022	11766420	725678	Unspecified Contaminated Soil, PMT RCG	15.73	9262.91	15.73	5520
461	2	8/12/2022	11766421	725679	Unspecified Contaminated Soil, PMT RCG	20.68	9283.59	36.41	5532
462	3	8/12/2022	11766422	725682	Unspecified Contaminated Soil, PMT RCG	20.14	9303.73	56.55	5544
463	4	8/12/2022	11766424	725688	Unspecified Contaminated Soil, PMT RCG	18.72	9322.45	75.27	5556
464	5	8/12/2022	11766423	725689	Unspecified Contaminated Soil, PMT RCG	21.18	9343.63	96.45	5568
465	6	8/12/2022	11766425	725692	Unspecified Contaminated Soil, PMT RCG	22.32	9365.95	118.77	5580
466	7	8/12/2022	11766426	725693	Unspecified Contaminated Soil, PMT RCG	18.16	9384.11	136.93	5592
467	8	8/12/2022	11766427	725695	Unspecified Contaminated Soil, PMT RCG	21.49	9405.6	158.42	5604
468	9	8/12/2022	11766428	725699	Unspecified Contaminated Soil, PMT RCG	20.93	9426.53	179.35	5616
469	10	8/12/2022	11766429	725713	Unspecified Contaminated Soil, PMT RCG	20.1	9446.63	199.45	5628
470	11	8/12/2022	11766430	725718	Unspecified Contaminated Soil, PMT RCG	16.58	9463.21	216.03	5640
471	12	8/12/2022	11766431	725722	Unspecified Contaminated Soil, PMT RCG	17.73	9480.94	233.76	5652
472	13	8/12/2022	11766432	725726	Unspecified Contaminated Soil, PMT RCG	24.51	9505.45	258.27	5664
473	14	8/12/2022	11766433	725728	Unspecified Contaminated Soil, PMT RCG	19.02	9524.47	277.29	5676
474	15	8/12/2022	11766434	725730	Unspecified Contaminated Soil, PMT RCG	21.75	9546.22	299.04	5688
475	16	8/12/2022	11766435	725732	Unspecified Contaminated Soil, PMT RCG	21.43	9567.65	320.47	5700
476	17	8/12/2022	11766436	725747	Unspecified Contaminated Soil, PMT RCG	19.55	9587.2	340.02	5712

HERITAGE POINT SITE
BCP SITE #C915347

Waste Manifest: Scale Tickets - Waste Management

Load #	Daily Load Total	Date	Manifest #	Ticket #	Description	Wt (Per load) Tons	Running Total Wt (Tons)	Total for Day	Estimated Total CY To Date
477	18	8/12/2022	11766437	725751	Unspecified Contaminated Soil, PMT RCG	21.95	9609.15	361.97	5724
478	19	8/12/2022	11766438	725757	Unspecified Contaminated Soil, PMT RCG	21.07	9630.22	383.04	5736
479	20	8/12/2022	11766439	725759	Unspecified Contaminated Soil, PMT RCG	21.02	9651.24	404.06	5748
480	21	8/12/2022	11766440	725762	Unspecified Contaminated Soil, PMT RCG	15.44	9666.68	419.5	5760
481	22	8/12/2022	11766441	725764	Unspecified Contaminated Soil, PMT RCG	17.17	9683.85	436.67	5772
482	23	8/12/2022	11766442	725766	Unspecified Contaminated Soil, PMT RCG	19.42	9703.27	456.09	5784
483	24	8/12/2022	11766443	725768	Unspecified Contaminated Soil, PMT RCG	18.13	9721.4	474.22	5796
484	25	8/12/2022	11766444	725779	Unspecified Contaminated Soil, PMT RCG	22.5	9743.9	496.72	5808
485	26	8/12/2022	11766445	725790	Unspecified Contaminated Soil, PMT RCG	23.58	9767.48	520.3	5820
486	27	8/12/2022	11766446	725791	Unspecified Contaminated Soil, PMT RCG	20.03	9787.51	540.33	5832
487	28	8/12/2022	11766447	725792	Unspecified Contaminated Soil, PMT RCG	24.31	9811.82	564.64	5844
488	29	8/12/2022	11766448	725793	Unspecified Contaminated Soil, PMT RCG	24.86	9836.68	589.5	5856
489	30	8/12/2022	11766449	725795	Unspecified Contaminated Soil, PMT RCG	21.99	9858.67	611.49	5868
490	31	8/12/2022	11766450	725801	Unspecified Contaminated Soil, PMT RCG	16.7	9875.37	628.19	5880
491	1	8/15/2022	11759491	725854	Unspecified Contaminated Soil, PMT RCG	18.6	9893.97	18.6	5892
492	2	8/15/2022	11759493	725856	Unspecified Contaminated Soil, PMT RCG	16.51	9910.48	35.11	5904
493	3	8/15/2022	11759494	725886	Unspecified Contaminated Soil, PMT RCG	18.48	9928.96	53.59	5916
494	4	8/15/2022	11759495	725888	Unspecified Contaminated Soil, PMT RCG	19.82	9948.78	73.41	5928
495	5	8/15/2022	11759497	725904	Unspecified Contaminated Soil, PMT RCG	18.88	9967.66	92.29	5940
496	6	8/15/2022	11759496	725906	Unspecified Contaminated Soil, PMT RCG	20.18	9987.84	112.47	5952
497	7	8/15/2022	11759492	725907	Unspecified Contaminated Soil, PMT RCG	16.44	10004.28	128.91	5964
498	8	8/15/2022	11759499	725910	Unspecified Contaminated Soil, PMT RCG	19.32	10023.6	148.23	5976
499	9	8/15/2022	11759500	725911	Unspecified Contaminated Soil, PMT RCG	21.3	10044.9	169.53	5988
500	10	8/15/2022	11759501	725913	Unspecified Contaminated Soil, PMT RCG	22.59	10067.49	192.12	6000
501	11	8/15/2022	117759498	725919	Unspecified Contaminated Soil, PMT RCG	19.53	10087.02	211.65	6012
502	12	8/15/2022	11759502	725920	Unspecified Contaminated Soil, PMT RCG	16.47	10103.49	228.12	6024
503	13	8/15/2022	11759503	725922	Unspecified Contaminated Soil, PMT RCG	16.64	10120.13	244.76	6036
504	14	8/15/2022	11759504	725936	Unspecified Contaminated Soil, PMT RCG	18.31	10138.44	263.07	6048
505	15	8/15/2022	11759505	725937	Unspecified Contaminated Soil, PMT RCG	18.56	10157	281.63	6060
506	16	8/15/2022	11759506	725939	Unspecified Contaminated Soil, PMT RCG	20.23	10177.23	301.86	6072
507	17	8/15/2022	11759507	725940	Unspecified Contaminated Soil, PMT RCG	15.88	10193.11	317.74	6084
508	18	8/15/2022	11759508	725943	Unspecified Contaminated Soil, PMT RCG	23.25	10216.36	340.99	6096
509	19	8/15/2022	11759509	725949	Unspecified Contaminated Soil, PMT RCG	21.13	10237.49	362.12	6108
510	20	8/15/2022	11759510	725954	Unspecified Contaminated Soil, PMT RCG	16.01	10253.5	378.13	6120
511	1	8/16/2022	11759511	725990	Unspecified Contaminated Soil, PMT RCG	21.59	10275.09	21.59	6132
512	2	8/16/2022	11759512	725993	Unspecified Contaminated Soil, PMT RCG	20.87	10295.96	42.46	6144
513	3	8/16/2022	11759513	725996	Unspecified Contaminated Soil, PMT RCG	20.25	10316.21	62.71	6156
514	4	8/16/2022	11759514	725998	Unspecified Contaminated Soil, PMT RCG	12.42	10328.63	75.13	6168
515	5	8/16/2022	11759515	725999	Unspecified Contaminated Soil, PMT RCG	13.8	10342.43	88.93	6180
516	6	8/16/2022	11759516	726001	Unspecified Contaminated Soil, PMT RCG	16.14	10358.57	105.07	6192
517	7	8/16/2022	11759517	726004	Unspecified Contaminated Soil, PMT RCG	20.5	10379.07	125.57	6204
518	8	8/16/2022	11759518	726005	Unspecified Contaminated Soil, PMT RCG	19.1	10398.17	144.67	6216
519	9	8/16/2022	121759519	726007	Unspecified Contaminated Soil, PMT RCG	20.91	10419.08	165.58	6228
520	10	8/16/2022	11759520	726010	Unspecified Contaminated Soil, PMT RCG	14.15	10433.23	179.73	6240
521	11	8/16/2022	11759521	726012	Unspecified Contaminated Soil, PMT RCG	22.35	10455.58	202.08	6252
522	12	8/16/2022	11759522	726014	Unspecified Contaminated Soil, PMT RCG	24.83	10480.41	226.91	6264
523	13	8/16/2022	11759524	726067	Unspecified Contaminated Soil, PMT RCG	20.92	10501.33	247.83	6276
524	14	8/16/2022	11759525	726084	Unspecified Contaminated Soil, PMT RCG	23.89	10525.22	271.72	6288
525	15	8/16/2022	11759526	726085	Unspecified Contaminated Soil, PMT RCG	24.72	10549.94	296.44	6300
526	16	8/16/2022	11759523	726089	Unspecified Contaminated Soil, PMT RCG	23.11	10573.05	319.55	6312
527	17	8/16/2022	11759527	726095	Unspecified Contaminated Soil, PMT RCG	24.2	10597.25	343.75	6324
528	18	8/16/2022	11759529	726101	Unspecified Contaminated Soil, PMT RCG	19.57	10616.82	363.32	6336
529	19	8/16/2022	11759530	726107	Unspecified Contaminated Soil, PMT RCG	21.84	10638.66	385.16	6348
530	20	8/16/2022	11759531	726109	Unspecified Contaminated Soil, PMT RCG	23.08	10661.74	408.24	6360
531	21	8/16/2022	11759532	726114	Unspecified Contaminated Soil, PMT RCG	21.02	10682.76	429.26	6372
532	22	8/16/2022	11759533	726115	Unspecified Contaminated Soil, PMT RCG	17.39	10700.15	446.65	6384
533	23	8/16/2022	11759534	726119	Unspecified Contaminated Soil, PMT RCG	20.37	10720.52	467.02	6396
534	24	8/16/2022	11759528	726120	Unspecified Contaminated Soil, PMT RCG	22.29	10742.81	489.31	6408
535	25	8/16/2022	11759535	726122	Unspecified Contaminated Soil, PMT RCG	16.56	10759.37	505.87	6420
536	1	8/17/2022	11759536	726175	Unspecified Contaminated Soil, PMT RCG	21.48	10780.85	16.56	6432
537	2	8/17/2022	11759537	726177	Unspecified Contaminated Soil, PMT RCG	20.86	10801.71	37.42	6444
538	3	8/17/2022	11759538	726180	Unspecified Contaminated Soil, PMT RCG	16.99	10818.7	54.41	6456
539	4	8/17/2022	11759539	726183	Unspecified Contaminated Soil, PMT RCG	21	10839.7	75.41	6468
540	5	8/17/2022	11759540	726184	Unspecified Contaminated Soil, PMT RCG	19.55	10859.25	94.96	6480
541	6	8/17/2022	11759541	726186	Unspecified Contaminated Soil, PMT RCG	21.74	10880.99	116.7	6492
542	7	8/17/2022	11759542	726189	Unspecified Contaminated Soil, PMT RCG	13.52	10894.51	130.22	6504
543	8	8/17/2022	11759543	726193	Unspecified Contaminated Soil, PMT RCG	15.41	10909.92	145.63	6516
544	9	8/17/2022	11759545	726194	Unspecified Contaminated Soil, PMT RCG	20.35	10930.27	165.98	6528
545	10	8/17/2022	11759544	726195	Unspecified Contaminated Soil, PMT RCG	15.2	10945.47	181.18	6540
546	11	8/17/2022	11759547	726199	Unspecified Contaminated Soil, PMT RCG	21.16	10966.63	202.34	6552
547	12	8/17/2022	11759546	726200	Unspecified Contaminated Soil, PMT RCG	16.74	10983.37	219.08	6564
548	13	8/17/2022	11759548	726201	Unspecified Contaminated Soil, PMT RCG	24.08	11007.45	243.16	6576
549	14	8/17/2022	11759549	726203	Unspecified Contaminated Soil, PMT RCG	21.45	11028.9	264.61	6588
550	15	8/17/2022	11759550	726210	Unspecified Contaminated Soil, PMT RCG	19.77	11048.67	284.38	6600
551	16	8/17/2022	11759551	726215	Unspecified Contaminated Soil, PMT RCG	19.14	11067.81	303.52	6612
552	17	8/17/2022	11759552	726216	Unspecified Contaminated Soil, PMT RCG	18.23	11086.04	321.75	6624
553	18	8/17/2022	11759553	726219	Unspecified Contaminated Soil, PMT RCG	19.32	11105.36	341.07	6636
554	19	8/17/2022	11759554	726222	Unspecified Contaminated Soil, PMT RCG	17.82	11123.18	358.89	6648
555	20	8/17/2022	11759555	726224	Unspecified Contaminated Soil, PMT RCG	19.08	11142.26	377.97	6660
556	21	8/17/2022	11759556	726230	Unspecified Contaminated Soil, PMT RCG	14.5	11156.76	392.47	6672
557	22	8/17/2022	11759557	726231	Unspecified Contaminated Soil, PMT RCG	17.53	11174.29	410	6684
558	23	8/17/2022	11759558	726233	Unspecified Contaminated Soil, PMT RCG	20.05	11194.34	430.05	6696
559	24	8/17/2022	11759559	726234	Unspecified Contaminated Soil, PMT RCG	16.48	11210.82	446.53	6708
560	25	8/17/2022	11759560	726236	Unspecified Contaminated Soil, PMT RCG	20.19	11231.01	466.72	6720
561	26	8/17/2022	11759561	726238	Unspecified Contaminated Soil, PMT RCG	16.84	11247.85	483.56	6732
562	27	8/17/2022	11759562	726240	Unspecified Contaminated Soil, PMT RCG	15.72	11263.57	499.28	6744
563	28	8/17/2022	11759563	726242	Unspecified Contaminated Soil, PMT RCG	21.04	11284.61	520.32	6756
564	29	8/17/2022	11759564	726250	Unspecified Contaminated Soil, PMT RCG	18.34	11302.95	538.66	6768
565	30	8/17/2022	11759565	726251	Unspecified Contaminated Soil, PMT RCG	20.12	11323.07	558.78	6780
566	31	8/17/2022	11759566	726253	Unspecified Contaminated Soil, PMT RCG	21.84	11344.91	580.62	6792
567	32	8/17/2022	11759567	726257	Unspecified Contaminated Soil, PMT RCG	22.13	11367.04	602.75	6804
568	33	8/17/2022	11759569	726265	Unspecified Contaminated Soil, PMT RCG	20.27	11387.31	623.02	6816
569	34	8/17/2022	11759568	726267	Unspecified Contaminated Soil, PMT RCG	20.89	11408.2	643.91	6828
570	35	8/17/2022	11759572	726271	Unspecified Contaminated Soil, PMT RCG	21.52	11429.72	665.43	6840
571	36	8/17/2022	11759573	726273	Unspecified Contaminated Soil, PMT RCG	21.47	11451.19	686.9	6852
572	37	8/17/2022	11759574	726274	Unspecified Contaminated Soil, PMT RCG	19.9	11471.09	706.8	6864
573	38	8/17/2022	11759575	726278	Unspecified Contaminated Soil, PMT RCG	20.83	11491.92	727.63	6876
574	39	8/17/2022	11759576	726279	Unspecified Contaminated Soil, PMT RCG	17.56	11509.48	745.19	6888
575	40	8/17/2022	11759570	726280	Unspecified Contaminated Soil, PMT RCG	18.92	11528.4	764.11	6900
576	41	8/17/2022	11759571	726281	Unspecified Contaminated Soil, PMT RCG	20.54	11548.94	784.65	6912
577	42	8/17/2022	11759577	726289	Unspecified Contaminated Soil, PMT RCG	25.08	11574.02	809.73	6924
578	43	8/17/2022	11759578	726290	Unspecified Contaminated Soil, PMT RCG	21.71	11595.73	831.44	6936
579	44	8/17/2022	11759580	726297	Unspecified Contaminated Soil, PMT RCG	23.06	11618.79	854.5	6948
580	45	8/17/2022	11759579	726298	Unspecified Contaminated Soil, PMT RCG	20.16	11638.95	874.66	6960
581	46	8/17/2022	11759581	726310	Unspecified Contaminated Soil, PMT RCG	22.72	11661.67	897.38	6972
582	47	8/17/2022	11759582	726313	Unspecified Contaminated Soil, PMT RCG	24.99	11686.66	922.37	6984
583	48	8/17/2022	11759583	726314	Unspecified Contaminated Soil, PMT RCG	19.02	11705.68	941.39	6996
584	49	8/17/2022	11759585	726320	Unspecified Contaminated Soil, PMT RCG	19.84	11725.52	961.23	7008
585	50	8/17/2022	11759584	726324	Unspecified Contaminated Soil, PMT RCG	19.83	11745.35	981.06	7020
586	51	8/17/2022	11759588	726334	Unspecified Contaminated Soil, PMT RCG	22.34	11767.69	1003.4	7032
587	52	8/17/2022	11759589	726335	Unspecified Contaminated Soil, PMT RCG	19.06	11786.75	1022.46	7044
588	53	8/17/2022	11759590	726340	Unspecified Contaminated Soil, PMT RCG	26.42	11813.17	1048.88	7056
589	54	8/17/2022	11759586	726345	Unspecified Contaminated Soil, PMT RCG	23.58	11836.75	1072.46	7068
590	1	8/19/2022	11759591	726501	Unspecified Contaminated Soil, PMT RCG	23.92	11860.67	23.92	7080
591	2	8/19/2022	11759592	726502	Unspecified Contaminated Soil, PMT RCG	19.05	11879.72	42.97	7092
592	3	8/19/2022	11759593	726504	Unspecified Contaminated Soil, PMT RCG	22.31	11902.03	65.28	7104
593	4	8/19/2022	11759594	726505	Unspecified Contaminated Soil, PMT RCG	22.23	11924.26	87.51	7116
594	5	8/19/2022	11759595	726531	Unspecified Contaminated Soil, PMT RCG	23.2	11947.46	110.71	7128
595	6	8/19/2022	11759596	726533	Unspecified Contaminated Soil, PMT RCG	20	11967.46	130.71	7140

HERITAGE POINT SITE
BCP SITE #C915347

Waste Manifest: Scale Tickets - Waste Management

Load #	Daily Load Total	Date	Manifest #	Ticket #	Description	Wt (Per load) Tons	Running Total Wt (Tons)	Total for Day	Estimated Total CY To Date
596	7	8/19/2022	11759597	726535	Unspecified Contaminated Soil, PMT RCG	21.28	11988.74	151.99	7152
597	8	8/19/2022	11759598	726537	Unspecified Contaminated Soil, PMT RCG	25.62	12014.36	177.61	7164
598	9	8/19/2022	11759599	726551	Unspecified Contaminated Soil, PMT RCG	22.5	12036.86	200.11	7176
599	10	8/19/2022	11759600	726552	Unspecified Contaminated Soil, PMT RCG	23.08	12059.94	223.19	7188
600	11	8/19/2022	11759601	726555	Unspecified Contaminated Soil, PMT RCG	24.16	12084.1	247.35	7200
601	12	8/19/2022	11759602	726565	Unspecified Contaminated Soil, PMT RCG	25.62	12109.72	272.97	7212
602	1	8/22/2022	11759603	726631	Unspecified Contaminated Soil, PMT RCG	20.14	12129.86	20.14	7224
603	2	8/22/2022	11759604	726634	Unspecified Contaminated Soil, PMT RCG	17.81	12147.67	37.95	7236
604	3	8/22/2022	11759606	726660	Unspecified Contaminated Soil, PMT RCG	20.63	12168.3	58.58	7248
605	4	8/22/2022	11759607	726667	Unspecified Contaminated Soil, PMT RCG	23.43	12191.73	82.01	7260
606	5	8/22/2022	11759608	726700	Unspecified Contaminated Soil, PMT RCG	19.78	12211.51	101.79	7272
607	6	8/22/2022	11759609	726710	Unspecified Contaminated Soil, PMT RCG	19.43	12230.94	121.22	7284
608	7	8/22/2022	11759610	726743	Unspecified Contaminated Soil, PMT RCG	17.77	12248.71	138.99	7296
609	8	8/22/2022	11759611	726748	Unspecified Contaminated Soil, PMT RCG	20.57	12269.28	159.56	7308
610	1	8/23/2022	11759612	726807	Unspecified Contaminated Soil, PMT RCG	14.51	12283.79	14.51	7320
611	2	8/23/2022	11759613	726814	Unspecified Contaminated Soil, PMT RCG	20.11	12303.9	34.62	7332
612	3	8/23/2022	11759614	726818	Unspecified Contaminated Soil, PMT RCG	16.74	12320.64	51.36	7344
613	4	8/23/2022	11759615	726820	Unspecified Contaminated Soil, PMT RCG	19.23	12339.87	70.59	7356
614	5	8/23/2022	11759616	726840	Unspecified Contaminated Soil, PMT RCG	19.35	12359.22	89.94	7368
615	6	8/23/2022	11759617	726845	Unspecified Contaminated Soil, PMT RCG	18.86	12378.08	108.8	7380
616	7	8/23/2022	11759618	726848	Unspecified Contaminated Soil, PMT RCG	12.06	12390.14	120.86	7392
617	8	8/23/2022	11759605	726853	Unspecified Contaminated Soil, PMT RCG	21.01	12411.15	141.87	7404
618	9	8/23/2022	11759619	726869	Unspecified Contaminated Soil, PMT RCG	21.1	12432.25	162.97	7416
619	10	8/23/2022	11759620	726878	Unspecified Contaminated Soil, PMT RCG	18.45	12450.7	181.42	7428
620	11	8/23/2022	11759621	726880	Unspecified Contaminated Soil, PMT RCG	17.47	12468.17	198.89	7440
621	12	8/23/2022	11759622	726886	Unspecified Contaminated Soil, PMT RCG	15.23	12483.4	214.12	7452
622	13	8/23/2022	11759623	726902	Unspecified Contaminated Soil, PMT RCG	16.8	12500.2	230.92	7464
623	14	8/23/2022	11759624	726914	Unspecified Contaminated Soil, PMT RCG	15.01	12515.21	245.93	7476
624	15	8/23/2022	11759625	726916	Unspecified Contaminated Soil, PMT RCG	19.45	12534.66	265.38	7488
625	16	8/23/2022	11759626	726918	Unspecified Contaminated Soil, PMT RCG	13.25	12547.91	278.63	7500
626	1	8/25/2022	11759627	727166	Unspecified Contaminated Soil, PMT RCG	15.27	12563.18	15.27	7512
627	2	8/25/2022	11759628	727169	Unspecified Contaminated Soil, PMT RCG	15.99	12579.17	31.26	7524
628	3	8/25/2022	11759629	727170	Unspecified Contaminated Soil, PMT RCG	16.7	12595.87	47.96	7536
629	4	8/25/2022	11759632	727192	Unspecified Contaminated Soil, PMT RCG	20.46	12616.33	68.42	7548
630	5	8/25/2022	11759631	727193	Unspecified Contaminated Soil, PMT RCG	20.71	12637.04	89.13	7560
631	6	8/25/2022	11759630	727196	Unspecified Contaminated Soil, PMT RCG	20.26	12657.3	109.39	7572
632	7	8/25/2022	11759633	727224	Unspecified Contaminated Soil, PMT RCG	17.66	12674.96	127.05	7584
633	8	8/25/2022	11759634	727230	Unspecified Contaminated Soil, PMT RCG	13.54	12688.5	140.59	7596

HERITAGE POINT SITE
BCP SITE #C915347

C&S COMPANIES

Waste Manifest: Scale Tickets - Modern Disposal

Load #	Daily Load Total	Date	Manifest #	Ticket #	Wt (Per load) tons	Running Total Wt (Tons)	Total for Day	Estimated Total CY To Date
1	1	2/24/2022	12671	1003165531	19.01	19.01	19.01	12
2	2	2/24/2022	12670	1003165527	17.96	36.97	36.97	24
3	3	2/24/2022	12669	1003165497	18.88	55.85	55.85	36
4	4	2/24/2022	12668	1003165494	18.88	74.73	74.73	48
5	5	2/24/2022	12667	1003165485	20.76	95.49	95.49	60
6	6	2/24/2022	12666	1003165465	18.61	114.10	114.10	72
7	7	2/24/2022	12664	1003165461	21.89	135.99	135.99	84
8	8	2/24/2022	12665	1003165460	18.05	154.04	154.04	96
9	9	2/24/2022	12663	1003165403	18.07	172.11	172.11	108
10	10	2/24/2022	12662	1003165393	20.67	192.78	192.78	120
11	11	2/24/2022	12661	1003165386	20.62	213.40	213.40	132
12	12	2/24/2022	12665	1003165367	18.09	231.49	231.49	144
13	13	2/24/2022	12660	1003165360	16.62	248.11	248.11	156
14	14	2/24/2022	12659	1003165355	16.48	264.59	264.59	168
15	15	2/24/2022	12658	1003165308	22.14	286.73	286.73	180
16	16	2/24/2022	12657	1003165301	21.43	308.16	308.16	192
17	17	2/24/2022	12656	1003165299	20.51	328.67	328.67	204
18	18	2/24/2022	12654	1003165278	18.59	347.26	347.26	216
19	19	2/24/2022	12806	1003165275	22.96	370.22	370.22	228
20	20	2/24/2022	12805	1003165197	17.10	387.32	387.32	240
21	21	2/24/2022	12804	1003165196	15.06	402.38	402.38	252
22	22	2/24/2022	12803	1003165194	14.18	416.56	416.56	264
23	23	2/24/2022	12802	1003165190	11.35	427.91	427.91	276
24	24	2/24/2022	12801	1003165188	12.22	440.13	440.13	288
25	25	2/24/2022	12800	1003165185	14.25	454.38	**454.38**	300
26	1	2/28/2022	12782	1003166440	21.20	475.58	21.20	312
27	2	2/28/2022	12781	1003166427	19.11	494.69	40.31	324
28	3	2/28/2022	12780	1003166423	21.09	515.78	61.40	336
29	4	2/28/2022	12710	1003166384	22.91	538.69	84.31	348
30	5	2/28/2022	12711	1003166378	17.95	556.64	102.26	360
31	6	2/28/2022	12709	1003166359	20.83	577.47	123.09	372
32	7	2/28/2022	12706	1003166350	21.17	598.64	144.26	384
33	8	2/28/2022	12707	1003166347	20.89	619.53	165.15	396
34	9	2/28/2022	12705	1003166344	19.83	639.36	184.98	408
35	10	2/28/2022	12708	1003166339	22.48	661.84	207.46	420
36	11	2/28/2022	12704	1003166332	20.02	681.86	227.48	432
37	12	2/28/2022	12703	1003166330	23.00	704.86	250.48	444
38	13	2/28/2022	12702	1003166325	23.11	727.97	273.59	456
39	14	2/28/2022	12701	1003166280	20.78	748.75	294.37	468
40	15	2/28/2022	12700	1003166269	22.68	771.43	317.05	480
41	16	2/28/2022	12699	1003166250	19.77	791.20	336.82	492
42	17	2/28/2022	12698	1003166243	18.15	809.35	354.97	504
43	18	2/28/2022	12697	1003166237	21.46	830.81	376.43	516
44	19	2/28/2022	12696	1003166229	19.45	850.26	395.88	528
45	20	2/28/2022	12695	1003166227	20.69	870.95	416.57	540
46	21	2/28/2022	12694	1003166223	22.50	893.45	439.07	552
47	22	2/28/2022	12693	1003166220	21.28	914.73	460.35	564
48	23	2/28/2022	12692	1003166212	23.99	938.72	484.34	576
49	24	2/28/2022	12691	1003166178	21.03	959.75	505.37	588
50	25	2/28/2022	12690	1003166155	20.43	980.18	525.80	600
51	26	2/28/2022	12689	1003166150	20.84	1001.02	546.64	612
52	27	2/28/2022	12688	1003166146	25.88	1026.90	572.52	624
53	28	2/28/2022	12687	1003166134	26.98	1053.88	599.50	636
54	29	2/28/2022	12685	1003166124	20.62	1074.50	620.12	648
55	30	2/28/2022	12686	1003166119	23.14	1097.64	643.26	660
56	31	2/28/2022	12684	1003166118	27.33	1124.97	670.59	672
57	32	2/28/2022	12682	1003166117	24.93	1149.90	695.52	684
58	33	2/28/2022	12683	1003166112	23.21	1173.11	718.73	696
59	34	2/28/2022	12681	1003166085	20.93	1194.04	739.66	708
60	35	2/28/2022	12680	1003166070	20.58	1214.62	760.24	720
61	36	2/28/2022	12679	1003166057	21.47	1236.09	781.71	732
62	37	2/28/2022	12678	1003166056	19.06	1255.15	800.77	744
63	38	2/28/2022	12677	1003166044	24.45	1279.60	825.22	756
64	39	2/28/2022	12676	1003166037	20.24	1299.84	845.46	768
65	40	2/28/2022	12675	1003166036	18.99	1318.83	864.45	780
66	41	2/28/2022	12674	1003166034	17.58	1336.41	882.03	792
67	42	2/28/2022	12673	1003166032	17.00	1353.41	899.03	804
68	43	2/28/2022	12672	1003166031	20.88	1374.29	**919.91**	816
69	1	3/1/2022	12814	1003166689	19.95	1394.24	19.95	828
70	2	3/1/2022	12812	1003166686	21.08	1415.32	41.03	840
71	3	3/1/2022	12811	1003166655	20.57	1435.89	61.60	852

Waste Manifest: Scale Tickets - Modern Disposal

Load #	Daily Load Total	Date	Manifest #	Ticket #	Wt (Per load) tons	Running Total Wt (Tons)	Total for Day	Estimated Total CY To Date
72	4	3/1/2022	12810	1003166652	20.98	1456.87	82.58	864
73	5	3/1/2022	12809	1003166650	16.83	1473.70	99.41	876
74	6	3/1/2022	12808	1003166632	13.20	1486.90	112.61	888
75	7	3/1/2022	12807	1003166625	19.36	1506.26	131.97	900
76	8	3/1/2022	12799	1003166614	16.67	1522.93	148.64	912
77	9	3/1/2022	12798	1003166603	19.60	1542.53	168.24	924
78	10	3/1/2022	12797	1003166598	20.59	1563.12	188.83	936
79	11	3/1/2022	12794	1003166595	20.37	1583.49	209.20	948
80	12	3/1/2022	12796	1003166587	15.10	1598.59	224.30	960
81	13	3/1/2022	12795	1003166585	17.82	1616.41	242.12	972
82	14	3/1/2022	12793	1003166557	20.86	1637.27	262.98	984
83	15	3/1/2022	12792	1003166541	17.57	1654.84	280.55	996
84	16	3/1/2022	12791	1003166538	20.31	1675.15	300.86	1008
85	17	3/1/2022	12789	1003166536	19.27	1694.42	320.13	1020
86	18	3/1/2022	12790	1003166533	18.94	1713.36	339.07	1032
87	19	3/1/2022	12783	1003166523	18.29	1731.65	357.36	1044
88	20	3/1/2022	12788	1003166522	19.30	1750.95	376.66	1056
89	21	3/1/2022	12787	1003166520	22.04	1772.99	398.70	1068
90	22	3/1/2022	12786	1003166511	18.89	1791.88	417.59	1080
91	23	3/1/2022	12785	1003166508	23.28	1815.16	440.87	1092
92	24	3/1/2022	12784	1003166504	20.83	1835.99	461.70	1104
93	25	3/1/2022	12735	1003166933	19.66	1855.65	481.36	1116
94	26	3/1/2022	12734	1003166929	19.89	1875.54	501.25	1128
95	27	3/1/2022	12733	1003166923	21.81	1897.35	523.06	1140
96	28	3/1/2022	12732	1003166922	23.80	1921.15	546.86	1152
97	29	3/1/2022	12731	1003166909	24.47	1945.62	571.33	1164
98	30	3/1/2022	12730	1003166906	20.54	1966.16	591.87	1176
99	31	3/1/2022	12729	1003166894	23.57	1989.73	615.44	1188
100	32	3/1/2022	12728	1003166887	21.20	2010.93	636.64	1200
101	33	3/1/2022	12725	1003166878	23.69	2034.62	660.33	1212
102	34	3/1/2022	12727	1003166873	20.58	2055.20	680.91	1224
103	35	3/1/2022	12726	1003166871	15.94	2071.14	696.85	1236
104	36	3/1/2022	12724	1003166851	20.67	2091.81	717.52	1248
105	37	3/1/2022	12723	1003166843	21.40	2113.21	738.92	1260
106	38	3/1/2022	12722	1003166826	19.46	2132.67	758.38	1272
107	39	3/1/2022	12721	1003166823	23.05	2155.72	781.43	1284
108	40	3/1/2022	12720	1003166815	21.44	2177.16	802.87	1296
109	41	3/1/2022	12719	1003166801	22.78	2199.94	825.65	1308
110	42	3/1/2022	12718	1003166797	21.88	2221.82	847.53	1320
111	43	3/1/2022	12717	1003166783	20.82	2242.64	868.35	1332
112	44	3/1/2022	12716	1003166781	21.63	2264.27	889.98	1344
113	45	3/1/2022	12715	1003166775	21.13	2285.40	911.11	1356
114	46	3/1/2022	12714	1003166771	25.67	2311.07	936.78	1368
115	47	3/1/2022	12713	1003166758	21.11	2332.18	957.89	1380
116	48	3/1/2022	12712	1003166754	19.37	2351.55	977.26	1392
117	49	3/1/2022	12821	1003166748	20.97	2372.52	998.23	1404
118	50	3/1/2022	12819	1003166736	21.80	2394.32	1020.03	1416
119	51	3/1/2022	12820	1003166732	19.76	2414.08	1039.79	1428
120	52	3/1/2022	12818	1003166715	23.14	2437.22	1062.93	1440
121	53	3/1/2022	12817	1003166706	23.70	2460.92	1086.63	1452
122	54	3/1/2022	12816	1003166702	18.62	2479.54	1105.25	1464
123	55	3/1/2022	12815	1003166700	21.64	2501.18	1126.89	1476
124	56	3/1/2022	12813	1003166695	21.35	2522.53	**1148.24**	1488
125	1	3/2/2022	12841	1003167468	18.13	2540.66	18.13	1500
126	2	3/2/2022	12840	1003167467	20.17	2560.83	38.30	1512
127	3	3/2/2022	12839	1003167464	21.14	2581.97	59.55	1524
128	4	3/2/2022	12838	1003167458	21.25	2603.22	80.67	1536
129	5	3/2/2022	12837	1003167456	21.12	2624.34	101.85	1548
130	6	3/2/2022	12836	1003167449	21.18	2645.52	123.78	1560
131	7	3/2/2022	12835	1003167447	21.93	2667.45	143.97	1572
132	8	3/2/2022	12834	1003167443	20.19	2687.64	166.18	1584
133	9	3/2/2022	12833	1003167441	22.21	2709.85	187.95	1596
134	10	3/2/2022	12832	1003167434	21.77	2731.62	212.67	1608
135	11	3/2/2022	12831	1003167411	24.72	2756.34	234.01	1620
136	12	3/2/2022	12830	1003167404	21.34	2777.68	255.98	1632
137	13	3/2/2022	12829	1003167377	21.97	2799.65	276.34	1644
138	14	3/2/2022	12828	1003167371	20.36	2820.01	298.40	1656
139	15	3/2/2022	12827	1003167365	22.06	2842.07	319.86	1668
140	16	3/2/2022	12826	1003167355	21.46	2863.53	341.65	1680
141	17	3/2/2022	12825	1003167352	21.79	2885.32	365.19	1692

Waste Manifest: Scale Tickets - Modern Disposal

Load #	Daily Load Total	Date	Manifest #	Ticket #	Wt (Per load) tons	Running Total Wt (Tons)	Total for Day	Estimated Total CY To Date
142	18	3/2/2022	12824	1003167350	23.54	2908.86	386.10	1704
143	19	3/2/2022	12823	1003167349	20.91	2929.77	404.45	1716
144	20	3/2/2022	12822	1003167344	18.35	2948.12	422.42	1728
145	21	3/2/2022	12779	1003167342	17.97	2966.09	443.05	1740
146	22	3/2/2022	12778	1003167331	20.63	2986.72	464.13	1752
147	23	3/2/2022	12777	1003167314	21.08	3007.80	487.61	1764
148	24	3/2/2022	12776	1003167310	23.48	3031.28	506.23	1776
149	25	3/2/2022	12772	1003167282	18.62	3049.90	526.74	1788
150	26	3/2/2022	12775	1003167271	20.51	3070.41	549.89	1800
151	27	3/2/2022	12774	1003167266	23.15	3093.56	570.99	1812
152	28	3/2/2022	12764	1003167252	21.10	3114.66	591.08	1824
153	29	3/2/2022	12773	1003167250	20.09	3134.75	610.95	1836
154	30	3/2/2022	12771	1003167244	19.87	3154.62	632.22	1848
155	31	3/2/2022	12770	1003167242	21.27	3175.89	652.90	1860
156	32	3/2/2022	12769	1003167240	20.68	3196.57	674.69	1872
157	33	3/2/2022	12768	1003167236	21.79	3218.36	696.52	1884
158	34	3/2/2022	12767	1003167233	21.83	3240.19	718.99	1896
159	35	3/2/2022	12766	1003167215	22.47	3262.66	739.01	1908
160	36	3/2/2022	12765	1003167207	20.02	3282.68	765.36	1920
161	37	3/2/2022	12762	1003167174	26.35	3309.03	786.09	1932
162	38	3/2/2022	12763	1003167172	20.73	3329.76	806.29	1944
163	39	3/2/2022	12761	1003167154	20.20	3349.96	825.12	1956
164	40	3/2/2022	12760	1003167149	18.83	3368.79	846.99	1968
165	41	3/2/2022	12759	1003167134	21.87	3390.66	867.47	1980
166	42	3/2/2022	12754	1003167129	20.48	3411.14	891.03	1992
167	43	3/2/2022	12753	1003167127	23.56	3434.70	916.17	2004
168	44	3/2/2022	12752	1003167124	25.14	3459.84	939.28	2016
169	45	3/2/2022	12750	1003167122	23.11	3482.95	959.55	2028
170	46	3/2/2022	12751	1003167121	20.27	3503.22	982.42	2040
171	47	3/2/2022	12749	1003167108	22.87	3526.09	1008.61	2052
172	48	3/2/2022	12748	1003167103	26.19	3552.28	1030.80	2064
173	49	3/2/2022	12747	1003167069	22.19	3574.47	1050.75	2076
174	50	3/2/2022	12746	1003167066	19.95	3594.42	1075.34	2088
175	51	3/2/2022	12744	1003167057	24.59	3619.01	1097.97	2100
176	52	3/2/2022	12745	1003167054	22.63	3641.64	1119.89	2112
177	53	3/2/2022	12743	1003167046	21.92	3663.56	1138.22	2124
178	54	3/2/2022	12742	1003167044	18.33	3681.89	1157.39	2136
179	55	3/2/2022	12741	1003167043	19.17	3701.06	1175.87	2148
180	56	3/2/2022	12740	1003167041	18.48	3719.54	1195.37	2160
181	57	3/2/2022	12739	1003167039	19.50	3739.04	1216.62	2172
182	58	3/2/2022	12738	1003167034	21.25	3760.29	1239.52	2184
183	59	3/2/2022	12736	1003167028	22.90	3783.19	1263.36	2196
184	60	3/2/2022	12737	1003167026	23.84	3807.03	**1285.21**	2208
185	1	3/3/2022	12898	1003167953	21.85	3828.88	21.85	2220
186	2	3/3/2022	12897	1003167949	17.01	3845.89	38.86	2232
187	3	3/3/2022	12896	1003167946	17.91	3863.80	56.77	2244
188	4	3/3/2022	12895	1003167945	17.85	3881.65	74.62	2256
189	5	3/3/2022	12894	1003167943	20.04	3901.69	94.66	2268
190	6	3/3/2022	12893	1003167928	15.91	3917.60	110.57	2280
191	7	3/3/2022	12892	1003167922	19.30	3936.90	129.87	2292
192	8	3/3/2022	12891	1003167916	20.40	3957.30	150.27	2304
193	9	3/3/2022	12890	1003167913	20.44	3977.74	170.71	2316
194	10	3/3/2022	12889	1003167912	22.21	3999.95	192.92	2328
195	11	3/3/2022	12888	1003167908	23.72	4023.67	216.64	2340
196	12	3/3/2022	12887	1003167904	23.30	4046.97	239.94	2352
197	13	3/3/2022	12886	1003167863	21.42	4068.39	261.36	2364
198	14	3/3/2022	12885	1003167856	22.26	4090.65	283.62	2376
199	15	3/3/2022	12884	1003167855	23.13	4113.78	306.75	2388
200	16	3/3/2022	12883	1003167845	21.67	4135.45	328.42	2400
201	17	3/3/2022	12882	1003167843	25.52	4160.97	353.94	2412
202	18	3/3/2022	12881	1003167839	20.05	4181.02	373.99	2424
203	19	3/3/2022	12880	1003167837	16.72	4197.74	390.71	2436
204	20	3/3/2022	12879	10031678835	23.79	4221.53	414.50	2448
205	21	3/3/2022	12878	1003167834	24.58	4246.11	439.08	2460
206	22	3/3/2022	12877	1003167828	22.22	4268.33	461.30	2472
207	23	3/3/2022	12876	1003167825	24.31	4292.64	485.61	2484
208	24	3/3/2022	12875	1003167821	22.52	4315.16	508.13	2496
209	25	3/3/2022	12874	1003167780	26.10	4341.26	534.23	2508
210	26	3/3/2022	12873	1003167767	21.49	4362.75	555.72	2520
211	27	3/3/2022	12872	1003167765	26.83	4389.58	582.55	2532

C&S COMPANIES

Waste Manifest: Scale Tickets - Modern Disposal

Load #	Daily Load Total	Date	Manifest #	Ticket #	Wt (Per load) tons	Running Total Wt (Tons)	Total for Day	Estimated Total CY To Date
212	28	3/3/2022	12871	1003167763	21.69	4411.27	604.24	2544
213	29	3/3/2022	12869	1003167755	24.47	4435.74	628.71	2556
214	30	3/3/2022	12868	1003167754	20.23	4455.97	648.94	2568
215	31	3/3/2022	12870	1003167752	19.33	4475.30	668.27	2580
216	32	3/3/2022	12866	1003167749	18.64	4493.94	686.91	2592
217	33	3/3/2022	12867	1003167743	18.66	4512.60	705.57	2604
218	34	3/3/2022	12865	1003167741	21.43	4534.03	727.00	2616
219	35	3/3/2022	12864	1003167738	21.65	4555.68	748.65	2628
220	36	3/3/2022	12863	1003167732	21.61	4577.29	770.26	2640
221	37	3/3/2022	12862	1003167674	20.08	4597.37	790.34	2652
222	38	3/3/2022	12861	1003167672	20.96	4618.33	811.30	2664
223	39	3/3/2022	12860	1003167666	17.99	4636.32	829.29	2676
224	40	3/3/2022	12859	1003167665	20.03	4656.35	849.32	2688
225	41	3/3/2022	12858	1003167662	18.37	4674.72	867.69	2700
226	42	3/3/2022	12856	1003167660	19.71	4694.43	887.40	2712
227	43	3/3/2022	12857	1003167657	21.95	4716.38	909.35	2724
228	44	3/3/2022	12855	1003167652	17.54	4733.92	926.89	2736
229	45	3/3/2022	12854	1003167646	19.13	4753.05	946.02	2748
230	46	3/3/2022	12853	1003167643	18.56	4771.61	964.58	2760
231	47	3/3/2022	12852	1003167628	19.06	4790.67	983.64	2772
232	48	3/3/2022	12851	1003167603	15.82	4806.49	999.46	2784
233	49	3/3/2022	12850	1003167592	18.83	4825.32	1018.29	2796
234	50	3/3/2022	12849	1003167590	18.41	4843.73	1036.70	2808
235	51	3/3/2022	12848	1003167585	19.34	4863.07	1056.04	2820
236	52	3/3/2022	12847	1003167583	16.70	4879.77	1072.74	2832
237	53	3/3/2022	12846	1003167581	15.95	4895.72	1088.69	2844
238	54	3/3/2022	12845	1003167578	21.67	4917.39	1110.36	2856
239	55	3/3/2022	12844	1003167576	18.44	4935.83	1128.80	2868
240	56	3/3/2022	12843	1003167575	19.95	4955.78	1148.75	2880
241	57	3/3/2022	12842	1003167573	20.91	4976.69	**1169.66**	2892
242	1	3/4/2022	12958	1003168432	22.70	4999.39	22.70	2904
243	2	3/4/2022	12957	1003168431	20.93	5020.32	43.63	2916
244	3	3/4/2022	12956	1003168423	21.21	5041.53	64.84	2928
245	4	3/4/2022	12955	1003168415	23.73	5065.26	88.57	2940
246	5	3/4/2022	12954	1003168411	23.06	5088.32	111.63	2952
247	6	3/4/2022	12953	1003168401	24.24	5112.56	135.87	2964
248	7	3/4/2022	12952	1003168391	20.33	5132.89	156.20	2976
249	8	3/4/2022	12951	1003168390	23.42	5156.31	179.62	2988
250	9	3/4/2022	12950	1003168389	22.88	5179.19	202.50	3000
251	10	3/4/2022	12949	1003168385	24.30	5203.49	226.80	3012
252	11	3/4/2022	12948	1003168378	24.29	5227.78	251.09	3024
253	12	3/4/2022	12947	1003168367	24.09	5251.87	275.18	3036
254	13	3/4/2022	12945	1003168346	19.37	5271.24	294.55	3048
255	14	3/4/2022	12944	1003168344	20.86	5292.10	315.41	3060
256	15	3/4/2022	12946	1003168340	21.14	5313.24	336.55	3072
257	16	3/4/2022	12943	1003168334	19.99	5333.23	356.54	3084
258	17	3/4/2022	12942	1003168329	21.32	5354.55	377.86	3096
259	18	3/4/2022	12941	1003168318	18.16	5372.71	396.02	3108
260	19	3/4/2022	12940	1003168317	20.34	5393.05	416.36	3120
261	20	3/4/2022	12939	1003168313	16.51	5409.56	432.87	3132
262	21	3/4/2022	12938	1003168308	18.99	5428.55	451.86	3144
263	22	3/4/2022	12937	1003168304	23.42	5451.97	475.28	3156
264	23	3/4/2022	12936	1003168301	21.53	5473.50	496.81	3168
265	24	3/4/2022	12935	1003168291	18.61	5492.11	515.42	3180
266	25	3/4/2022	12934	1003168250	14.31	5506.42	529.73	3192
267	26	3/4/2022	12933	1003168249	20.01	5526.43	549.74	3204
268	27	3/4/2022	12931	1003168245	19.04	5545.47	568.78	3216
269	28	3/4/2022	12932	1003168242	19.79	5565.26	588.57	3228
270	29	3/4/2022	12930	1003168226	21.80	5587.06	610.37	3240
271	30	3/4/2022	12929	1003168216	18.13	5605.19	628.50	3252
272	31	3/4/2022	12928	1003168215	18.53	5623.72	647.03	3264
273	32	3/4/2022	12927	1003168212	20.02	5643.74	667.05	3276
274	33	3/4/2022	12925	1003168207	20.75	5664.49	687.80	3288
275	34	3/4/2022	12926	1003168205	19.68	5684.17	707.48	3300
276	35	3/4/2022	12924	1003168200	22.30	5706.47	729.78	3312
277	36	3/4/2022	12923	1003168198	19.90	5726.37	749.68	3324
278	37	3/4/2022	12921	1003168159	17.59	5743.96	767.27	3336
279	38	3/4/2022	12922	1003168155	15.38	5759.34	782.65	3348
280	39	3/4/2022	12920	1003168146	20.76	5780.10	803.41	3360
281	40	3/4/2022	12918	1003168145	19.12	5799.22	822.53	3372

C&S COMPANIES

Waste Manifest: Scale Tickets - Modern Disposal

Load #	Daily Load Total	Date	Manifest #	Ticket #	Wt (Per load) tons	Running Total Wt (Tons)	Total for Day	Estimated Total CY To Date
282	41	3/4/2022	12919	1003168143	19.25	5818.47	841.78	3384
283	42	3/4/2022	12917	1003168129	16.52	5834.99	858.30	3396
284	43	3/4/2022	12916	1003168127	18.34	5853.33	876.64	3408
285	44	3/4/2022	12915	1003168124	19.90	5873.23	896.54	3420
286	45	3/4/2022	12914	1003168119	21.77	5895.00	918.31	3432
287	46	3/4/2022	12913	1003168116	19.38	5914.38	937.69	3444
288	47	3/4/2022	12911	1003168112	21.33	5935.71	959.02	3456
289	48	3/4/2022	12912	1003168108	22.35	5958.06	981.37	3468
290	49	3/4/2022	12910	1003168072	22.89	5980.95	1004.26	3480
291	50	3/4/2022	12909	1003168071	15.65	5996.60	1019.91	3492
292	51	3/4/2022	12908	1003168070	21.42	6018.02	1041.33	3504
293	52	3/4/2022	12907	1003168068	21.52	6039.54	1062.85	3516
294	53	3/4/2022	12906	1003168067	21.42	6060.96	1084.27	3528
295	54	3/4/2022	12905	1003168056	19.12	6080.08	1103.39	3540
296	55	3/4/2022	12904	1003168053	20.07	6100.15	1123.46	3552
297	56	3/4/2022	12903	1003168049	18.54	6118.69	1142.00	3564
298	57	3/4/2022	12902	1003168047	19.67	6138.36	1161.67	3576
299	58	3/4/2022	12901	1003168041	21.97	6160.33	1183.64	3588
300	59	3/4/2022	12900	1003168039	24.16	6184.49	1207.80	3600
301	60	3/4/2022	12899	1003168037	19.95	6204.44	**1227.75**	3612
302	1	3/7/2022	12973	1003168851	24.19	6228.63	24.19	3624
303	2	3/7/2022	12972	1003168845	21.91	6250.54	46.10	3636
304	3	3/7/2022	12971	1003168836	22.80	6273.34	68.90	3648
305	4	3/7/2022	12970	1003168818	24.60	6297.94	93.50	3660
306	5	3/7/2022	12969	1003168790	25.36	6323.30	118.86	3672
307	6	3/7/2022	12968	1003168746	21.48	6344.78	140.34	3684
308	7	3/7/2022	12967	1003168732	23.04	6367.82	163.38	3696
309	8	3/7/2022	12966	1003168724	22.48	6390.30	185.86	3708
310	9	3/7/2022	12965	1003168712	21.60	6411.90	207.46	3720
311	10	3/7/2022	12964	1003168705	23.22	6435.12	230.68	3732
312	11	3/7/2022	12963	1003168651	23.64	6458.76	254.32	3744
313	12	3/7/2022	12962	1003168647	22.00	6480.76	276.32	3756
314	13	3/7/2022	12961	1003168632	17.24	6498.00	293.56	3768
315	14	3/7/2022	12960	1003168624	22.42	6520.42	315.98	3780
316	15	3/7/2022	12959	1003168617	19.93	6540.35	**335.91**	3792
317	1	3/8/2022	12983	1003169356	17.14	6557.49	17.14	3804
318	2	3/8/2022	12982	1003169318	15.77	6573.26	32.91	3816
319	3	3/8/2022	12981	1003169280	13.49	6586.75	46.40	3828
320	4	3/8/2022	12980	1003169270	16.39	6603.14	62.79	3840
321	5	3/8/2022	12979	1003169265	18.97	6622.11	81.76	3852
322	6	3/8/2022	12978	1003169253	18.79	6640.90	100.55	3864
323	7	3/8/2022	12977	1003169244	16.59	6657.49	117.14	3876
324	8	3/8/2022	12976	1003169218	24.44	6681.93	141.58	3888
325	9	3/8/2022	12974	1003169100	21.65	6703.58	163.23	3900
326	10	3/8/2022	12975	1003169112	22.63	6726.21	**185.86**	3912
327	1	3/9/2022	12988	1003169838	23.62	6749.83	**23.62**	3924
328	1	3/10/2022	12987	1003170355	24.16	6773.99	24.16	3936
329	2	3/10/2022	12986	1003170280	17.27	6791.26	41.43	3948
340	3	3/10/2022	12985	1003170246	17.11	6808.37	58.54	3960
341	4	3/10/2022	12984	1003170116	26.16	6834.53	**84.70**	3972
342	1	3/11/2022	12990	1003170831	15.02	6849.55	15.02	4056
343	2	3/11/2022	12989	1003170658	17.85	6867.40	**32.87**	4068
344	1	3/14/2022	12994	1003171491	22.19	6889.59	22.19	4080
345	2	3/14/2022	12993	1003171355	22.7	6912.29	44.89	4092
346	3	3/14/2022	12991	1003171204	16.94	6929.23	**61.83**	4104
347	1	3/15/2022	12997	1003172086	17.96	6947.19	17.96	4116
348	2	3/15/2022	12996	1003171977	20.19	6967.38	38.15	4128
349	3	3/15/2022	12995	1003171816	20.36	6987.74	58.51	4140
350	4	3/15/2022	12992	1003171729	19.6	7007.34	**78.11**	4152
351	1	3/16/2022	13000	1003172404	20.63	7027.97	20.63	4164
352	2	3/16/2022	12999	1003172293	22.64	7050.61	43.27	4176
353	3	3/16/2022	12998	1003172175	17.56	7068.17	**60.83**	4188
354	1	3/18/2022	13003	1003173427	19.5	7087.67	19.5	4200
355	2	3/18/2022	13002	1003173280	19.84	7107.51	39.34	4212
356	3	3/18/2022	13001	1003173144	17.76	7125.27	**57.1**	4224
357	1	3/21/2022	13004	1003173980	24.41	7149.68	**24.42**	4236
358	1	3/22/2022	13006	1003174547	21.49	7171.17	21.49	4248
359	2	3/22/2022	13005	1003174222	16.48	7187.65	**37.97**	4260
360	1	3/30/2022	13009	1003177489	23.45	7211.10	23.45	4272
361	2	3/30/2022	13008	1003177383	18.99	7230.09	42.44	4284

HERITAGE POINT SITE
BCP SITE #C915347

C&S COMPANIES

Waste Manifest: Scale Tickets - Modern Disposal

Load #	Daily Load Total	Date	Manifest #	Ticket #	Wt (Per load) tons	Running Total Wt (Tons)	Total for Day	Estimated Total CY To Date
362	3	3/30/2022	13007	1003177300	16.11	7246.20	58.55	4296
363	1	4/7/2022	13010	1003180795	19.99	7266.19	19.99	4308
354	1	7/11/2022	13039	1003214909	27.89	7294.08	27.89	4200
355	2	7/11/2022	13038	1003214902	23.74	7317.82	51.63	4212
356	3	7/11/2022	13037	1003214898	20.51	7338.33	72.14	4224
357	4	7/11/2022	13036	1003214895	22.44	7360.77	94.58	4236
358	5	7/11/2022	13034	1003214888	20.22	7380.99	114.8	4248
359	6	7/11/2022	13035	1003214883	19.49	7400.48	134.29	4260
360	7	7/11/2022	13033	1003214873	18.55	7419.03	152.84	4272
361	8	7/11/2022	13032	1003214870	20.94	7439.97	173.78	4284
362	9	7/11/2022	13031	1003214767	27.21	7467.18	200.99	4296
363	10	7/11/2022	13027	1003214727	24.62	7491.80	225.61	4308
364	11	7/11/2022	13025	1003214717	22.6	7514.40	248.21	4320
365	12	7/11/2022	13030	1003214764	24.94	7539.34	273.15	4332
366	13	7/11/2022	13029	1003214760	24.11	7563.45	297.26	4344
367	14	7/11/2022	13028	1003214752	23.72	7587.17	320.98	4356
368	15	7/11/2022	13026	1003214737	23.32	7610.49	344.3	4368
369	16	7/11/2022	13024	1003214639	22.37	7632.86	366.67	4380
370	17	7/11/2022	13023	1003214632	23.48	7656.34	390.15	4392
371	18	7/11/2022	13019	1003214618	22.64	7678.98	412.79	4404
372	19	7/11/2022	13022	1003214616	23.39	7702.37	436.18	4416
373	20	7/11/2022	13021	1003214612	24.39	7726.76	460.57	4428
374	21	7/11/2022	13020	1003214607	22.71	7749.47	483.28	4440
375	22	7/11/2022	13018	1003214599	21.54	7771.01	504.82	4452
376	23	7/11/2022	13017	1003214517	25.12	7796.13	529.94	4464
377	24	7/11/2022	13016	1003214499	21.7	7817.83	551.64	4476
378	25	7/11/2022	13015	1003214490	18.17	7836.00	569.81	4488
379	26	7/11/2022	13014	1003214477	17.26	7853.26	587.07	4500
380	27	7/11/2022	13013	1003214472	20.76	7874.02	607.83	4512
381	28	7/11/2022	13012	1003214458	22.59	7896.61	630.42	4524
382	29	7/11/2022	13011	1003214446	23.76	7920.37	**654.18**	4536
383	1	7/12/2022	13986	1003215475	19.29	7939.66	19.29	4548
384	2	7/12/2022	13985	1003215472	22.17	7961.83	41.46	4560
385	3	7/12/2022	13983	1003215468	22.41	7984.24	63.87	4572
386	4	7/12/2022	13984	1003215467	18.25	8002.49	82.12	4584
387	5	7/12/2022	13982	1003215452	20.64	8023.13	102.76	4596
388	6	7/12/2022	13981	1003215441	25.51	8048.64	128.27	4608
389	7	7/12/2022	13980	1003215436	22.51	8071.15	150.78	4620
390	8	7/12/2022	13979	1003215418	19.46	8090.61	170.24	4632
391	9	7/12/2022	13978	1003215410	21.82	8112.43	192.06	4644
392	10	7/12/2022	13977	1003215386	22.99	8135.42	215.05	4656
393	11	7/12/2022	13976	1003215367	22.67	8158.09	237.72	4668
394	12	7/12/2022	13975	1003215360	20.85	8178.94	258.57	4680
395	13	7/12/2022	13974	1003215350	22.32	8201.26	280.89	4692
396	14	7/12/2022	13973	1003215344	22.2	8223.46	303.09	4704
397	15	7/12/2022	13972	1003215326	20.92	8244.38	324.01	4716
398	16	7/12/2022	13971	1003215308	21.42	8265.80	345.43	4728
399	17	7/12/2022	13970	1003215288	15.24	8281.04	360.67	4740
400	18	7/12/2022	13969	1003215275	17.46	8298.50	378.13	4752
401	19	7/12/2022	13061	1003215271	21.25	8319.75	399.38	4764
402	20	7/12/2022	13060	1003215268	23.23	8342.98	422.61	4776
403	21	7/12/2022	13059	1003215257	20.95	8363.93	443.56	4788
404	22	7/12/2022	13058	1003215252	21.32	8385.25	464.88	4800
405	23	7/12/2022	13057	1003215235	22.09	8407.34	486.97	4812
406	24	7/12/2022	13056	1003215217	20.83	8428.17	507.8	4824
407	25	7/12/2022	13055	1003215173	18.87	8447.04	526.67	4836
408	26	7/12/2022	13054	1003215170	19.01	8466.05	545.68	4848
409	27	7/12/2022	13053	1003215166	23.98	8490.03	569.66	4860
410	28	7/12/2022	13052	1003215162	22.5	8512.53	592.16	4872
411	29	7/12/2022	13051	1003215150	21.85	8534.38	614.01	4884
412	30	7/12/2022	13050	1003215134	23.16	8557.54	637.17	4896
413	31	7/12/2022	13049	1003215122	24.34	8581.88	661.51	4908
414	32	7/12/2022	13048	1003215107	22.11	8603.99	683.62	4920
415	33	7/12/2022	13047	1003215056	26.21	8630.20	709.83	4932
416	34	7/12/2022	13046	1003215045	27.48	8657.68	737.31	4944
417	35	7/12/2022	13045	1003215041	28.82	8686.50	766.13	4956
418	36	7/12/2022	13044	1003215036	25.18	8711.68	791.31	4968
419	37	7/12/2022	13043	1003215027	24.59	8736.27	815.9	4980
420	38	7/12/2022	13042	1003215021	22.16	8758.43	838.06	4992
421	39	7/12/2022	13041	1003215019	21.16	8779.59	859.22	5004

Waste Manifest: Scale Tickets - Modern Disposal

Load #	Daily Load Total	Date	Manifest #	Ticket #	Wt (Per load) tons	Running Total Wt (Tons)	Total for Day	Estimated Total CY To Date
422	40	7/12/2022	13040	1003215015	23.35	8802.94	**882.57**	5016
423	1	7/13/2022	13990	1003216005	19.7	8822.64	19.7	5028
424	2	7/13/2022	13989	1003215996	20.02	8842.66	39.72	5040
425	3	7/13/2022	13988	1003215974	23.52	8866.18	63.24	5052
426	4	7/13/2022	13987	1003215962	24.16	8890.34	**87.4**	5064
427	1	7/14/2022	13994	1003216572	21.2	8911.54	21.2	5076
428	2	7/14/2022	13992B	1003216547	20.45	8931.99	41.65	5088
429	3	7/14/2022	13992	1003216529	28.18	8960.17	69.83	5100
430	4	7/14/2022	13991	1003216529	26.23	8986.40	**96.06**	5112
431	1	7/15/2022	14001	1003217131	20.81	9007.21	20.81	5124
432	2	7/15/2022	14000	1003217125	20.97	9028.18	41.78	5136
433	3	7/15/2022	13999	1003217116	17.48	9045.66	59.26	5148
434	4	7/15/2022	13998	1003217098	15.57	9061.23	74.83	5160
435	5	7/15/2022	13997	1003217070	24.11	9085.34	**98.94**	5172
436	1	7/18/2022	13944	1003217746	16.82	9102.16	16.82	5184
437	2	7/18/2022	13943	1003217742	16.73	9118.89	33.55	5196
438	3	7/18/2022	13942	1003217736	23.29	9142.18	56.84	5208
439	4	7/18/2022	13941	1003217733	19.34	9161.52	76.18	5220
440	5	7/18/2022	13940	1003217713	17.01	9178.53	93.19	5232
441	6	7/18/2022	13939	1003217709	21.17	9199.70	114.36	5244
442	7	7/18/2022	13937	1003217699	19.6	9219.30	133.96	5256
443	8	7/18/2022	13936	1003217689	20.52	9239.82	154.48	5268
444	9	7/18/2022	13935	1003217675	17.23	9257.05	171.71	5280
445	10	7/18/2022	13934	1003217663	23.74	9280.79	195.45	5292
446	11	7/18/2022	13933	1003217660	20.73	9301.52	216.18	5304
447	12	7/18/2022	13932	1003217641	16.31	9317.83	232.49	5316
448	13	7/18/2022	13931	1003217630	20.21	9338.04	252.7	5328
449	14	7/18/2022	13930	1003217623	20.24	9358.28	272.94	5340
450	15	7/18/2022	13928	1003217620	22.96	9381.24	295.9	5352
451	16	7/18/2022	13929	1003217601	22.3	9403.54	318.2	5364
452	17	7/18/2022	13926	1003217596	20.38	9423.92	338.58	5376
453	18	7/18/2022	13927	1003217595	22.93	9446.85	361.51	5388
454	19	7/18/2022	13925	1003217563	18.52	9465.37	380.03	5400
455	20	7/18/2022	13924	1003217560	22.8	9488.17	402.83	5412
456	21	7/18/2022	13922	1003217558	20.34	9508.51	423.17	5424
457	22	7/18/2022	13923	1003217556	17	9525.51	440.17	5436
458	23	7/18/2022	13921	1003217545	20.05	9545.56	460.22	5448
459	24	7/18/2022	13920	1003217535	19.69	9565.25	479.91	5460
460	25	7/18/2022	13919	1003217530	22.46	9587.71	502.37	5472
461	26	7/18/2022	13918	1003217526	24.43	9612.14	526.8	5484
462	27	7/18/2022	13917	1003217520	21.87	9634.01	548.67	5496
463	28	7/18/2022	13916	1003217515	25.1	9659.11	573.77	5508
464	29	7/18/2022	13915	1003217480	23.45	9682.56	597.22	5520
465	30	7/18/2022	13914	1003217453	20.6	9703.16	617.82	5532
466	31	7/18/2022	13913	1003217449	18.71	9721.87	636.53	5544
467	32	7/18/2022	13912	1003217444	17.43	9739.30	653.96	5556
468	33	7/18/2022	13911	1003217439	18.5	9757.80	672.46	5568
469	34	7/18/2022	14011	1003217437	21.25	9779.05	693.71	5580
470	35	7/18/2022	14010	1003217426	19.3	9798.35	713.01	5592
471	36	7/18/2022	14009	1003217423	20.89	9819.24	733.9	5604
472	37	7/18/2022	14008	1003217414	19.99	9839.23	753.89	5616
473	38	7/18/2022	14007	1003217391	21.1	9860.33	774.99	5628
474	39	7/18/2022	14005	1003217349	21.48	9881.81	796.47	5640
475	40	7/18/2022	14006	1003217346	20.64	9902.45	817.11	5652
476	41	7/18/2022	14004	1003217339	22.95	9925.40	840.06	5664
477	42	7/18/2022	14003	1003217334	19.23	9944.63	**859.29**	5676
478	1	7/19/2022	13951	1003217866	23.69	9968.32	23.69	5688
479	2	7/19/2022	13952	1003217857	18.58	9986.90	42.27	5700
480	3	7/19/2022	13950	1003217842	22.32	10009.22	64.59	5712
481	4	7/19/2022	13949	1003217840	20.88	10030.10	85.47	5724
482	5	7/19/2022	13948	1003217831	22.21	10052.31	107.68	5736
483	6	7/19/2022	13947	1003217826	22.49	10074.80	130.17	5748
484	7	7/19/2022	13946	1003217821	17.43	10092.23	147.6	5760
485	8	7/19/2022	13945	1003217818	21.65	10113.88	**169.25**	5772
486	1	7/25/2022	15995	1003220292	20.35	10134.23	20.35	5784
487	2	7/25/2022	15994	1003220280	19.52	10153.75	39.87	5796
488	3	7/25/2022	15993	1003220278	20.91	10174.66	60.78	5808
489	4	7/25/2022	15992	1003220244	21.71	10196.37	82.49	5820
490	5	7/25/2022	15991	1003220226	16.12	10212.49	98.61	5832
491	6	7/25/2022	15990	1003220219	21.24	10233.73	119.85	5844

HERITAGE POINT SITE
BCP SITE #C915347

Waste Manifest: Scale Tickets - Modern Disposal

Load #	Daily Load Total	Date	Manifest #	Ticket #	Wt (Per load) tons	Running Total Wt (Tons)	Total for Day	Estimated Total CY To Date
492	7	7/25/2022	15989	1003220214	17.53	10251.26	137.38	5856
493	8	7/25/2022	15988	1003220205	21.57	10272.83	158.95	5868
494	9	7/25/2022	15987	1003220193	16.77	10289.60	175.72	5880
495	10	7/25/2022	15986	1003220186	20.04	10309.64	195.76	5892
496	11	7/25/2022	15985	1003220111	17.95	10327.59	213.71	5904
497	12	7/25/2022	15984	1003220105	19.96	10347.55	233.67	5916
498	13	7/25/2022	13968	1003220101	18.97	10366.52	252.64	5928
499	14	7/25/2022	13967	1003220095	17.28	10383.80	269.92	5940
500	15	7/25/2022	13966	1003220088	15.54	10399.34	285.46	5952
501	16	7/25/2022	13965	1003220086	17.67	10417.01	303.13	5964
502	17	7/25/2022	13964	1003219955	24.68	10441.69	327.81	5976
503	18	7/25/2022	13963	1003219948	20.09	10461.78	347.9	5988
504	19	7/25/2022	13962	1003219945	24.09	10485.87	371.99	6000
505	20	7/25/2022	13961	1003219934	17.34	10503.21	389.33	6012
506	21	7/25/2022	13960	1003219933	18.22	10521.43	407.55	6024
507	22	7/25/2022	13959	1003219918	19.82	10541.25	427.37	6036
508	23	7/25/2022	13958	1003219864	24.9	10566.15	452.27	6048
509	24	7/25/2022	13957	1003219857	21.28	10587.43	473.55	6060
510	25	7/25/2022	13956	1003219850	17.47	10604.90	491.02	6072
511	26	7/25/2022	13955	1003219849	20.11	10625.01	511.13	6084
512	27	7/25/2022	13953	1003219845	16.24	10641.25	527.37	6096
513	28	7/25/2022	13954	1003219843	19.51	10660.76	**546.88**	6108
514	1	8/2/2022	15996	1003223230	20.65	10681.41	20.65	6120
515	2	8/2/2022	15998	1003223256	21.57	10702.98	42.22	6132
516	3	8/2/2022	15997	1003223253	21.16	10724.14	**63.38**	6144
517	1	8/4/2022	15999	1003224206	15.25	10739.39	15.25	6156
518	2	8/4/2022	16000	1003224220	20.47	10759.86	**35.72**	6168
519	1	8/9/2022	16002	1003225491	18.47	10778.33	18.47	6180
520	2	8/9/2022	16003	1003225495	20.51	10798.84	38.98	6192
521	3	8/9/2022	16004	1003225503	21.18	10820.02	60.16	6204
522	4	8/9/2022	16005	1003225533	19.23	10839.25	79.39	6216
523	5	8/9/2022	16006	1003225579	23.9	10863.15	103.29	6228
524	6	8/9/2022	16007	1003225588	22.57	10885.72	125.86	6240
525	7	8/9/2022	16008	1003225595	23.22	10908.94	149.08	6252
526	8	8/9/2022	16009	1003225660	16.4	10925.34	**165.48**	6264
527	1	8/11/2022	16010	1003226689	18.18	10943.52	18.18	6276
528	2	8/11/2022	16011	1003226697	19.95	10963.47	38.13	6288
529	3	8/11/2022	16012	1003226731	16.91	10980.38	**55.04**	6300
530	1	8/16/2022	16018	1003227894	24.16	11004.54	24.16	6312
531	2	8/16/2022	16019	1003227915	23.43	11027.97	47.59	6324
532	3	8/16/2022	16020	1003227919	19.49	11047.46	67.08	6336
533	4	8/16/2022	16021	1003227923	16.73	11064.19	83.81	6348
534	5	8/16/2022	16022	1003227927	19.41	11083.60	103.22	6360
535	6	8/16/2022	16023	1003227932	19.15	11102.75	122.37	6372
536	7	8/16/2022	16024	1003227933	22.51	11125.26	144.88	6384
537	8	8/16/2022	16025	1003227936	19.93	11145.19	164.81	6396
538	9	8/16/2022	16026	1003227938	22.87	11168.06	187.68	6408
539	10	8/16/2022	16027	1003227941	21.25	11189.31	208.93	6420
540	11	8/16/2022	16028	1003227944	22.49	11211.80	231.42	6432
541	12	8/16/2022	16030	1003227953	21.82	11233.62	253.24	6444
542	13	8/16/2022	16029	1003227957	16.34	11249.96	269.58	6456
543	14	8/16/2022	16031	1003227998	25.16	11275.12	294.74	6468
544	15	8/16/2022	16032	1003228010	20.3	11295.42	315.04	6480
545	16	8/16/2022	16033	1003228014	21.18	11316.60	336.22	6492
546	17	8/16/2022	16114	1003228028	23.47	11340.07	359.69	6504
547	18	8/16/2022	16112	1003228033	19.69	11359.76	379.38	6516
548	19	8/16/2022	16115	1003228037	20.42	11380.18	399.8	6528
549	20	8/16/2022	16113	1003228039	23.31	11403.49	423.11	6540
550	21	8/16/2022	16116	1003228046	19.74	11423.23	442.85	6552
551	22	8/16/2022	16117	1003228048	23.07	11446.30	465.92	6564
552	23	8/16/2022	16118	1003228049	21.22	11467.52	487.14	6576
553	24	8/16/2022	16119	1003228057	14.05	11481.57	501.19	6588
554	25	8/16/2022	16120	1003228246	23.41	11504.98	**524.6**	6600
555	1	8/19/2022	16121	1003229498	20.61	11525.59	20.61	6612
556	2	8/19/2022	16122	1003229507	22	11547.59	42.61	6624
557	3	8/19/2022	16123	1003229513	17.29	11564.88	59.9	6636
558	4	8/19/2022	16124	1003229592	22	11586.88	**81.9**	6648
559	1	8/25/2022	16125	1003231296	14.47	11601.35	**14.47**	6660

From: Skaros, Damianos T (DEC) <damianos.skaros@dec.ny.gov>
Sent: Wednesday, February 9, 2022 11:34 AM
To: Cody Martin
Cc: Daniel Riker; Jesse Alt-Winzig
Subject: RE: Heritage Point C915347

Approved. Thank you

Damianos T. Skaros, P.E.
Professional Engineer 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
270 Michigan Avenue, Buffalo, NY 14203
P: (716) 851-7220 | damianos.skaros@dec.ny.gov
www.dec.ny.gov | | |

NEW YORK STATE | Department of Environmental Conservation

From: Cody Martin <cmartin@cscos.com>
Sent: Wednesday, February 9, 2022 11:17 AM
To: Skaros, Damianos T (DEC) <damianos.skaros@dec.ny.gov>
Cc: Daniel Riker <DRiker@cscos.com>; jaltwinzig@cscos.com
Subject: RE: Heritage Point C915347

Damianos,

Attached is our backfill import request. All the backfill material for this job will be 2" crushed rock, #1 stone and #2 stone.

Cody Martin
C&S Engineers, Inc.
Direct: (716) 955-3021
Cell: (716) 864-3752

From: Skaros, Damianos T (DEC) <damianos.skaros@dec.ny.gov>
Sent: Friday, February 4, 2022 2:12 PM
To: Cody Martin <cmartin@cscos.com>
Cc: Daniel Riker <DRiker@cscos.com>; Jesse Alt-Winzig <JAltWinzig@cscos.com>
Subject: Re: Heritage Point C915347

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Unrestricted

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? >1000

If greater than 1000 cubic yards will be imported, enter volume to be imported: 7,300

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

This request is for 2" crushed rock, #1 stone and #2 stone. This material passes the 80 sieve test that waives the DER-10 sampling requirement.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

NA

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

David Youngblood, Quality Control Manager for LafargeHolcim

Location where fill was obtained:

400 Hinman Road, Lockport, NY 14094 and 8875 Quarry Road, Niagara Falls, NY 14304

Identification of any state or local approvals as a fill source:

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Virgin stone and aggregate quarry in Niagara County, NY

Provide a list of supporting documentation included with this request:

See attached.

The information provided on this form is accurate and complete.

Signature

2/9/2022

Date

Cody Martin

Print Name

C&S Engineers, Inc.

Firm

For PIKE use
(1) Submittal#:
(2) Paragraph#:
(3) Title:

For Contractor Use Only

Review no.

Forecasted Return Date:

SUBMITTAL COVER

Actual Return Date:

Heritage Point
120 Main Street, Buffalo, NY 14202
Job #191207

Sent to:	Camina Wood Morris
Address:	487 Main St #55
	Buffalo, NY 14203

Contractor:	The Pike Company
Address:	740 Seneca Street
	Buffalo, NY 14210

(4) Sub-Contractor: **Mark Cerrone, Inc.**
(5) Address: **2368 Maryland Ave**
Niagara Falls, NY 14305
(6) Phone: **716-282-5244**
(7) Sub-Contractor Signature: Charles Aleman **Date:** 2/9/2022

(8) Type of Submittal: (please check)

X	**Product Data**		**Test Report**
	Sample		**Certification**
	Color Selection		**Shop Drawing**
	Other		**Record Document**

(9) Date of Submittal: **02/09/22**
(10) Resubmitted:
(11) Number of Attached:

(12) SUBSTITUTION (see general conditions & substitutions form) ( ) **YES** ( ) **NO**

(13) Submittal Details **Submittal# 005 - NYSDOT #1 Stone**
(13a) Spec. Section No: **Required BCP Submittals #2**
(13b) Part/ Paragraph:
(13c) Product Name: **NYSDOT #1 Stone**
(13d) Manufacturer: **LaFarge Great Lakes**
(13e) Dwg. No.:
(13f) Detail Ref:

CONTRACTOR APPROVAL

By submission of this submittal, the Undersigned hereby certifies that review, verification of Product required, field dimensions, adjacent construction work and coordination of information has been completed and is in accordance with the requirements of the Work and the Contract Documents.

Name: **Date:**

DEVIATION FROM CONTRACT DOCUMENTS

CONTRACTOR COMMENTS:

ARCHITECT COMMENTS:

ADDITIONAL COMMENTS:

RECEIVED STAMP

HOLCIM

David Youngblood
400 Hinman Rd.
Lockport, NY 14094
571-752-1111-cell

2/8/22

Mark Cerrone

Att:
Re: Heritage Point
Email:

To whom it may concern:

This is to certify that the material being supplied to the above project conforms to the outlined NYSDOT requirements for Section 703-02 Coarse Aggregate. Below is a gradation for NYSDOT Clear #1 Stone

Location: Lockport   Source No. 5-5R
Material Type: NYSDOT #1 Stone   Test No. 21AR087

Sieve Size	Weight	% Ret	% Pass	Spec
1"	0.0	0.0	100.0	100
3/4"	0.0	0.0	100.0	
1/2"	519.5	5.8	94.2	90-100
3/8"	3162.0	35.3	58.9	
1/4"	4201.1	46.9	12.0	0-15
#4	600.2	6.7	5.3	
#8	206.0	2.3	3.0	
pan	268.7	3.0		
Total	8957.6			

Sincerely,

David Youngblood
Quality Control Manager
Holcim Aggregates and Asphalt

HOLCIM

David Youngblood
400 Hinman Rd.
Lockport, NY 14094
571-752-1111 (cell)
716-433-4930 (fax)

2/8/22

Mark Cerrone

Att:
Re: Heritage Point
Email:

To whom it may concern:

This is to certify that the material being supplied to the above project conforms to the outlined NYSDOT requirements for Section 703-02 Coarse Aggregate. Below is a gradation for NYSDOT Clear #1's

Location: Niagara Falls   Source No. 5-4R
Material Type: NYSDOT #1 Stone   Test No. 19AR020

Sieve Size	Weight	% Ret	% Pass	Spec
1"	0.0	0.0	100.0	100
3/4"	0.0	0.0	100.0	
1/2"	771.7	7.8	92.2	90-100
3/8"	3819.0	38.6	53.6	
1/4"	4363.1	44.1	9.5	0-15
#4	712.3	7.2	2.3	
#8	138.5	1.4	0.9	
pan	89.0	0.9		
Total	9893.7			

Sincerely,

David Youngblood
Quality Control Manager
Holcim Aggregates and Asphalt

For PIKE use **(1) Submittal#:** **(2) Paragraph#:** **(3) Title:**		SUBMITTAL COVER	PIKE
For Contractor Use Only			
Review no.			
Forecasted Return Date:			Actual Return Date:

Heritage Point
120 Main Street, Buffalo, NY 14202
Job #191207

Sent to:	Camina Wood Morris
Address:	487 Main St #55
	Buffalo, NY 14203

Contractor:	The Pike Company
Address:	740 Seneca Street
	Buffalo, NY 14210

(4) Sub-Contractor: **Mark Cerrone, Inc.**
(5) Address: **2368 Maryland Ave**
Niagara Falls, NY 14305
(6) Phone: **716-282-5244**
(7) Sub-Contractor Signature: Charles Beiman **Date:** 2/9/2022

(8) Type of Submittal: (please check)

X	**Product Data**		**Test Report**
	Sample		**Certification**
	Color Selection		**Shop Drawing**
	Other		**Record Document**

(9) Date of Submittal: **02/09/22**
(10) Resubmitted:
(11) Number of Attached:

(12) SUBSTITUTION (see general conditions & substitutions form) ( ) **YES** ( ) **NO**

(13) Submittal Details **Submittal# 004 - 2" ROC**
(13a) Spec. Section No: **Required BCP Submittals #2**
(13b) Part/ Paragraph:
(13c) Product Name: **2" ROC**
(13d) Manufacturer: **LaFarge Great Lakes**
(13e) Dwg. No.:
(13f) Detail Ref:

CONTRACTOR APPROVAL

By submission of this submittal, the Undersigned hereby certifies that review, verification of Product required, field dimensions, adjacent construction work and coordination of information has been completed and is in accordance with the requirements of the Work and the Contract Documents.

Name: **Date:**

DEVIATION FROM CONTRACT DOCUMENTS

CONTRACTOR COMMENTS:

ARCHITECT COMMENTS:

ADDITIONAL COMMENTS:

RECEIVED STAMP

HOLCIM

David Youngblood
400 Hinman Rd.
Lockport, NY 14094
571-752-1111 (cell)
716-433-4930 (fax)

2/8/2022

Mark Cerrone

Att:
Re: Heritage Point
Email:

To whom it may concern:

This is to certify that the material being supplied to the above project conforms to the outlined NYSDOT requirements for 304-2.02 Bases and Subbases and 703.0201 Crushed Bedrock
Below is the gradation for 2" ROC Subbase Course Type 2 Item # 304.12

Location: Niagara — Source No. 5-4R
Material Type: 2" ROC — Test No. 19AR020
Geotech Source # 3250

Sieve Size	Weight	% Ret	% Pass	Spec
2"	0.0	0.0	100.0	100
1 1/2"	1058.4	9.6	90.4	
1"	1951.4	17.7	72.7	
3/4"	705.6	6.4	66.3	
1/2"	1334.0	12.1	54.2	
1/4"	1477.3	13.4	40.8	25-60
1/8"	1356.0	12.3	28.5	
#20	1664.7	15.1	13.4	
#40	385.9	3.5	9.9	5-40
#80	286.6	2.6	7.3	
#200	297.7	2.7	4.6	0-10
pan	507.1	4.6		
Total	11024.7			

Sincerely,

David Youngblood
Quality Control Manager
Holcim Aggregates and Asphalt

HOLCIM

David Youngblood
400 Hinman Rd.
Lockport, NY 14094
571-752-1111-cell

2/8/2022

Mark Cerrone

Att:
Re: Heritage Point
Email:

To whom it may concern:

This is to certify that the material being supplied to the above project conforms to the outlined NYSDOT requirements for 304-2.02 Bases and Subbases and 703.0201 Crushed Bedrock Below is the gradation for 2" ROC Subbase Course Type 2 Item # 304.12.

Location: Lockport
Material Type: 2" ROC

Source No. 5-5R
Test No. 21AR087
Geotech Source # 2985

Sieve Size	Weight	% Ret	% Pass	Spec
2"	0.0	0.0	100.0	100
1 1/2"	361.0	3.2	96.8	
1"	2143.2	19.0	77.8	
3/4"	1861.2	16.5	61.3	
1/2"	958.8	8.5	52.8	
1/4"	1759.7	15.6	37.2	25-60
1/8"	1049.0	9.3	27.9	
#20	1173.1	10.4	17.5	
#40	327.1	2.9	14.6	5-40
#80	372.2	3.3	11.3	
#200	304.6	2.7	8.6	0-10
pan	970.1	8.6		
Total	11280.0			

Sincerely,

David Youngblood
Quality Control Manager
Holcim Aggregates and Asphalt

For PIKE use **(1) Submittal#:** **(2) Paragraph#:** **(3) Title:**	SUBMITTAL COVER	PIKE
For Contractor Use Only		
Review no.		
Forecasted Return Date:		Actual Return Date:

Heritage Point
120 Main Street, Buffalo, NY 14202
Job #191207

Sent to:	Camina Wood Morris
Address:	487 Main St #55
	Buffalo, NY 14203

Contractor:	The Pike Company
Address:	740 Seneca Street
	Buffalo, NY 14210

(4) Sub-Contractor: Mark Cerrone, Inc.
(5) Address: 2368 Maryland Ave
Niagara Falls, NY 14305
(6) Phone: 716-282-5244
(7) Sub-Contractor Signature: Charles Beerman **Date:** 2/9/2022

(8) Type of Submittal: (please check)

X	**Product Data**		**Test Report**
	Sample		**Certification**
	Color Selection		**Shop Drawing**
	Other		**Record Document**

(9) Date of Submittal: 02/09/22
(10) Resubmitted:
(11) Number of Attached:

(12) SUBSTITUTION (see general conditions & substitutions form) ( ) YES ( ) NO

(13) Submittal Details Submittal# 006 - NYSDOT #2 Stone
(13a) Spec. Section No: Required BCP Submittals #2
(13b) Part/ Paragraph:
(13c) Product Name: NYSDOT #2 Stone
(13d) Manufacturer: LaFarge Great Lakes
(13e) Dwg. No.:
(13f) Detail Ref:

CONTRACTOR APPROVAL

By submission of this submittal, the Undersigned hereby certifies that review, verification of Product required, field dimensions, adjacent construction work and coordination of information has been completed and is in accordance with the requirements of the Work and the Contract Documents.

Name: **Date:**

DEVIATION FROM CONTRACT DOCUMENTS

CONTRACTOR COMMENTS:

ARCHITECT COMMENTS:

ADDITIONAL COMMENTS:

RECEIVED STAMP

HOLCIM

David Youngblood
400 Hinman Rd.
Lockport, NY 14094
571-752-1111-cell

2/8/22

Mark Cerrone

Att:
Re: Heritage Point
Email:

To whom it may concern:

This is to certify that the material being supplied to the above project conforms to the outlined NYSDOT requirements for Section 703-02 Coarse Aggregate. Below is a gradation for NYSDOT Clear #1 Stone

Location: Lockport — Source No. 5-5R
Material Type: NYSDOT #1 Stone — Test No. 21AR087

Sieve Size	Weight	% Ret	% Pass	Spec
1"	0.0	0.0	100.0	100
3/4"	0.0	0.0	100.0	
1/2"	519.5	5.8	94.2	90-100
3/8"	3162.0	35.3	58.9	
1/4"	4201.1	46.9	12.0	0-15
#4	600.2	6.7	5.3	
#8	206.0	2.3	3.0	
pan	268.7	3.0		
Total	8957.6			

Sincerely,

David Youngblood
Quality Control Manager
Holcim Aggregates and Asphalt

HOLCIM

David Youngblood
400 Hinman Rd.
Lockport, NY 14094
571-752-1111 (cell)
716-433-4930 (fax)

2/8/22

Mark Cerrone

Att:
Re: Heritage Point
Email:

To whom it may concern:

This is to certify that the material being supplied to the above project conforms to the outlined NYSDOT requirements for Section 703-02 Coarse Aggregate. Below is a gradation for Clear #2 Stone

Location: Niagara Falls
Material Type: NYSDOT #2 Stone

Source #: 5-4R
Test No. 19AR020

Sieve Size	Weight	% Ret	% Pass	Spec
1 1/2"	0.0	0.0	100.0	100
1"	295.9	2.8	97.2	90-100
3/4"	3888.8	36.8	60.4	
5/8"	2599.6	24.6	35.8	
1/2"	3127.9	29.6	6.2	0-15
3/8"	264.2	2.5	3.7	
1/4"	137.4	1.3	2.4	
pan	253.6	2.4		
Total	10567.3			

Sincerely,

David Youngblood
Quality Control Manager
Holcim Aggregates and Asphalt

From:	Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Sent:	Thursday, August 25, 2022 12:44 PM
To:	Cody Martin
Cc:	Skaros, Damianos T (DEC)
Subject:	RE: Heritage Point

Cody,

The Department has reviewed the Import Request submittal for the temporary material used onsite at Heritage Point (C915347). Based on the information provided, the request is hereby approved.

Feel free to reach out with any questions.

Sincerely,

Taylor J. Monnin
she/her/hers
Assistant Engineer (Environmental), Division of Environmental Remediation

New York State Department of Environmental Conservation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226 | taylor.monnin@dec.ny.gov
www.dec.ny.gov | | |

NEW YORK STATE | Department of Environmental Conservation

From: Cody Martin <cmartin@cscos.com>
Sent: Thursday, August 25, 2022 11:59 AM
To: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Subject: RE: Heritage Point

Taylor,

Import request for the crushed concrete with sieve analysis.

Cody Martin
C&S Engineers, Inc.
Direct: (716) 955-3021
Cell: (716) 864-3752

From: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Sent: Tuesday, July 12, 2022 2:58 PM

To: Cody Martin <cmartin@cscos.com>
Cc: Daniel Riker <DRiker@cscos.com>
Subject: RE: Heritage Point

Cody,

The Department has reviewed the Import Request Form. Additional information is required to determine the acceptability of the proposed material. Please re-submit the Import Request Form with additional documentation detailing the gradation of the material (less than 10% by weight material that would pass a size 80 sieve).

Please let me know if you have any questions.

Sincerely,

Taylor J. Monnin
she/her/hers
Assistant Engineer (Environmental), Division of Environmental Remediation

New York State Department of Environmental Conservation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226 | taylor.monnin@dec.ny.gov
www.dec.ny.gov | | |

NEW YORK STATE Department of Environmental Conservation

From: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Sent: Friday, July 8, 2022, 2:29 PM
To: Cody Martin
Cc: Skaros, Damianos T (DEC); Daniel Riker; Melnyk, Eugene W (DEC)
Subject: RE: Heritage Point

Thank you Cody! The Department will review and reach out with any questions.

Eugene and I will be at the site on Monday, 7/11 for the excavation. What time will field work start?

Sincerely,

Taylor J. Monnin
she/her/hers
Assistant Engineer (Environmental), Division of Environmental Remediation

New York State Department of Environmental Conservation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226 | taylor.monnin@dec.ny.gov

www.dec.ny.gov | | |

From: Cody Martin <cmartin@cscos.com>
Sent: Friday, July 8, 2022 2:12 PM
To: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Cc: Skaros, Damianos T (DEC) <damianos.skaros@dec.ny.gov>; Daniel Riker <DRiker@cscos.com>
Subject: RE: Heritage Point

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Here you go.

Cody Martin
C&S Engineers, Inc.
Direct: (716) 955-3021
Cell: (716) 864-3752

From: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Sent: Friday, July 8, 2022 10:55 AM
To: Cody Martin <cmartin@cscos.com>
Cc: Skaros, Damianos T (DEC) <damianos.skaros@dec.ny.gov>; Daniel Riker <DRiker@cscos.com>
Subject: RE: Heritage Point

Good Morning Cody,

Using the material to backfill the areas outside of the BCP property limit does not have any additional requirements since it is outside of the limits. The only requirement we have is to submit an Import Request Form for any material being brought to the site, even temporarily. In the future, please submit this request form prior to bringing any materials to the site so the Department can approve.

Sincerely,

Taylor J. Monnin
she/her/hers
Assistant Engineer (Environmental), Division of Environmental Remediation

New York State Department of Environmental Conservation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226 | taylor.monnin@dec.ny.gov
www.dec.ny.gov | | |

Department of Environmental Conservation

From: Cody Martin <cmartin@cscos.com>
Sent: Thursday, July 7, 2022 12:49 PM
To: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Cc: Skaros, Damianos T (DEC) <damianos.skaros@dec.ny.gov>; Daniel Riker <DRiker@cscos.com>
Subject: RE: Heritage Point

I apologize that the request form slipped through the cracks. The original intent was to use the material temporarily, then it would be disposed with everything else. That may still be the path forward, but the CM wanted to know if saving the material and using outside the BCP limits is possible and what are the requirements.

Attached is a map that hopefully helps explain what I am trying to describe.

Cody Martin
C&S Engineers, Inc.
Direct: (716) 955-3021
Cell: (716) 864-3752

From: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Sent: Wednesday, July 6, 2022 11:49 AM
To: Cody Martin <cmartin@cscos.com>
Cc: Skaros, Damianos T (DEC) <damianos.skaros@dec.ny.gov>; Daniel Riker <DRiker@cscos.com>
Subject: RE: Heritage Point

Cody,

Would you be able to provide further clarification about the area you're referring to? Perhaps provide a figure/snip with this area called out as well so I know exactly where the area is?

Sincerely,

Taylor J. Monnin
she/her/hers
Assistant Engineer (Environmental), Division of Environmental Remediation

New York State Department of Environmental Conservation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226 | taylor.monnin@dec.ny.gov
www.dec.ny.gov | | |

From: Cody Martin <cmartin@cscos.com>
Sent: Wednesday, July 6, 2022 11:32 AM
To: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Cc: Skaros, Damianos T (DEC) <damianos.skaros@dec.ny.gov>; Daniel Riker <DRiker@cscos.com>
Subject: RE: Heritage Point

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

What about using the material outside the BCP boundary?

Cody Martin
C&S Engineers, Inc.
Direct: (716) 955-3021
Cell: (716) 864-3752

From: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Sent: Wednesday, July 6, 2022 11:10 AM
To: Cody Martin <cmartin@cscos.com>
Cc: Skaros, Damianos T (DEC) <damianos.skaros@dec.ny.gov>; Daniel Riker <DRiker@cscos.com>
Subject: RE: Heritage Point

Hi Cody,

You will need to submit an Import Request form (see attached). This form needs to be submitted when bringing any material to the site, even temporarily.

Please let me know if you have any additional questions.

Sincerely,

Taylor J. Monnin
she/her/hers
Assistant Engineer (Environmental), Division of Environmental Remediation

New York State Department of Environmental Conservation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226 | taylor.monnin@dec.ny.gov
www.dec.ny.gov | | |

From: Cody Martin <cmartin@cscos.com>
Sent: Wednesday, July 6, 2022 10:31 AM
To: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Cc: Skaros, Damianos T (DEC) <damianos.skaros@dec.ny.gov>; Daniel Riker <DRiker@cscos.com>
Subject: RE: Heritage Point

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Taylor,

Question for you. The contractor brought in crushed concrete to use as a crane pad when they installed the shoring piles. The material was intended to be temporary. A geotextile barrier separates the crushed concrete from the urban fill. The CM would like to use the material to backfill areas behind the shoring (outside the BCP site). The crushed concrete will be collected and temporarily stockpiled on a neighboring property. Do you need to see anything from me in order to do this?

Cody Martin
C&S Engineers, Inc.
Direct: (716) 955-3021
Cell: (716) 864-3752

From: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Sent: Tuesday, July 5, 2022 3:15 PM
To: Cody Martin <cmartin@cscos.com>
Cc: Skaros, Damianos T (DEC) <damianos.skaros@dec.ny.gov>; Daniel Riker <DRiker@cscos.com>
Subject: RE: Heritage Point

Thanks Cody! Feel free to let me know if you have any questions.

Sincerely,

Taylor J. Monnin
she/her/hers
Assistant Engineer (Environmental), Division of Environmental Remediation

New York State Department of Environmental Conservation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226 | taylor.monnin@dec.ny.gov
www.dec.ny.gov | | |

NEW YORK STATE | Department of Environmental Conservation

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Unrestricted

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 500-800

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? no

Is this material recycled concrete or brick from a DEC registered processing facility? yes

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

NA
Material other than soil imported to a site. The following material may be imported, without chemical testing, to be used as backfill beneath pavement, buildings or as part of the final site cover, provided that it contains less than 10% by weight material which would pass through a size 80 sieve and consists of:

ii. recycled concrete or brick from a DEC registered construction and demolition debris processing facility if the material conforms to the requirements of Section 304 of the New York State Department of Transportation Standard Specifications Construction and Materials Volume 1 (2002).

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

The material is from a DEC registered facility and meets NYSDOT specifications.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Kenneth H. Rawe Jr.

Location where fill was obtained:

4051 River Road, Tonawanda, New York

Identification of any state or local approvals as a fill source:

Facility Registration Number 15W01

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Part 360 Permit
Screenshot of NYSDOT registered facilities that meet NYSDOT specifications
Facility's NYSDOT Geotechnical Control Plan

The information provided on this form is accurate and complete.

Signature

7/8/2022

Date

Cody Martin

Print Name

C&S Engineers, Inc.

Firm

CME Associates, Inc.

2727 Broadway St. Suite 2
Cheektowaga, New York 14227
(716) 877-9577
(716) 877-9629 (Fax)

www.cmeassociates.com

TRANSMITTAL

Date: 07/07/2022

To: Swift River Associates, Inc.
4051 River Rd
Tonawanda, NY 14150

Attn: Mr. Ken Rawe

Re: Source Pre-Qualification - 2021

Gentlepeople,

Enclosed you will find:

Number of Copies	Report No.:
1	17320L-07

Respectfully Submitted:

CME ASSOCIATES, INC.

Brian P. Andrzejewski

Brian Andrzejewski, PE
Supervisor of Special Inspections

CME Associates, Inc.

2727 Broadway St., Suite 2
Cheektowaga, New York 14227
(716) 877-9577
(716) 877-9629 (Fax)

www.cmeassociates.com

LAB REPORT SUMMARY

PROJECT: Source Pre-Qualification
REPORT NO.: 17320L-07
CLIENT: Swift River
REPRESENTATIVE: Austin Glasier
DATE: 07/06/2022

This CME Associates, Inc. representative performed a sieve analysis and moisture density test (modified proctor) on a soil sample picked up by N. Dillon of CME Associates and delivered to CME's Buffalo laboratory on 06/28/2022.

Structural fill material, should, at a minimum, meet the requirements of the New York State Department of Transportation, Standard Specifications, Item 304.15 and Item 203.07.

Sample No.:	Location:
BL3151	Swift River 4051 River Rd. Stockpile 22-03

MECHANICAL ANALYSIS (ASTM C136, C117)

Sieve Size	Percent Passing by Weight Sample BL3151	NYSDOT Item 304.15 Subbase Course, Optional Type	NYSDOT Item 203.07 Select Granular Fill
4"	100		100
2"	100	100	
1"	80		
3/4"	73		
1/2"	61		
3/8"	53		
1/4"	44	30-65	
No. 4	38		
No. 10	24		
No. 40	13	5-40	0 - 70
No. 200	7	0-10	0 - 15

CLASSIFICATION

Gray cmf Gravel; some cmf Sand; trace Silt/Clay

LABORATORY MOISTURE-DENSITY RELATIONSHIP (ASTM D698)

Corrected Maximum Dry Density	=	**127.4**	**Pcf**
Corrected Optimum Moisture Content	=	**8.7**	**%**

It is recommended the engineer of record review and comment on the use of this material. Please see attached documents for lab test results.

Feel free to contact this office should you have any questions.

2727 Broadway Ave, Suite #2
Buffalo, New York 14227
(716) 877-9577
(716) 877-9629 (Fax)

www.cmeassociates.com

LABORATORY TEST SUMMARY
Swift River Associates
Source Pre-Qualification
CME Report Number: 17320L-07
7/6/2021
Page 2 of 3

The CME Associates Representative obtained a sample at the above referenced project. The sample was delivered to CME's Buffalo facility, an AASHTO[1] accredited laboratory, for a Particle Size Analysis and a Moisture Density Relationship determination. The results are as follow:

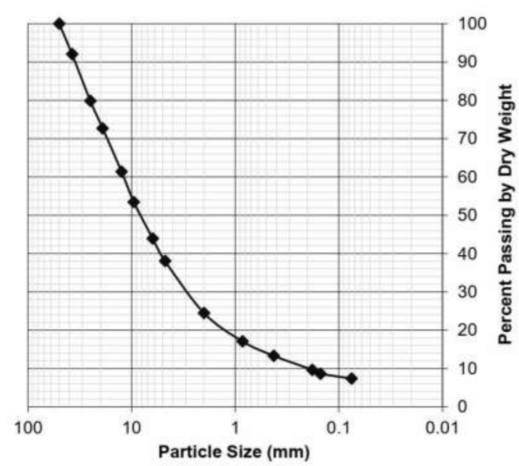
1) Material Identification

Sample #	Date Sampled	Classification	Source
BL3151	06/28/21	Gray cmf Gravel; some cmf Sand; trace Fines	Swift River 4051 River Rd. Stockpile 22-03

2) Particle Size Analysis ASTM D422

Sieve Size	Sieve Size (mm)	% Passing by Dry Weight Sample # BL3151
2"	50	100
1-1/2'	37.5	92
1"	25	80
3/4"	19	73
1/2"	12.5	61
3/8"	9.50	53
1/4"	6.25	44
#4	4.75	38
#10	2.00	24
#20	0.850	17
#40	0.425	13
#80	0.180	10
#100	0.150	9
#200	0.075	7

Grain Size Distribution



Note: Proposed use of material not provided.

3) Moisture-Density Relationship (ASTM D-1557: Modified Proctor)

		Sample # BL3151
Corrected Maximum Dry Density (pcf)	=	**127.4**
Corrected Optimum Moisture Content (%)	=	**8.7**
Oversized Particles, Percent by Weight (%)	=	**27** *

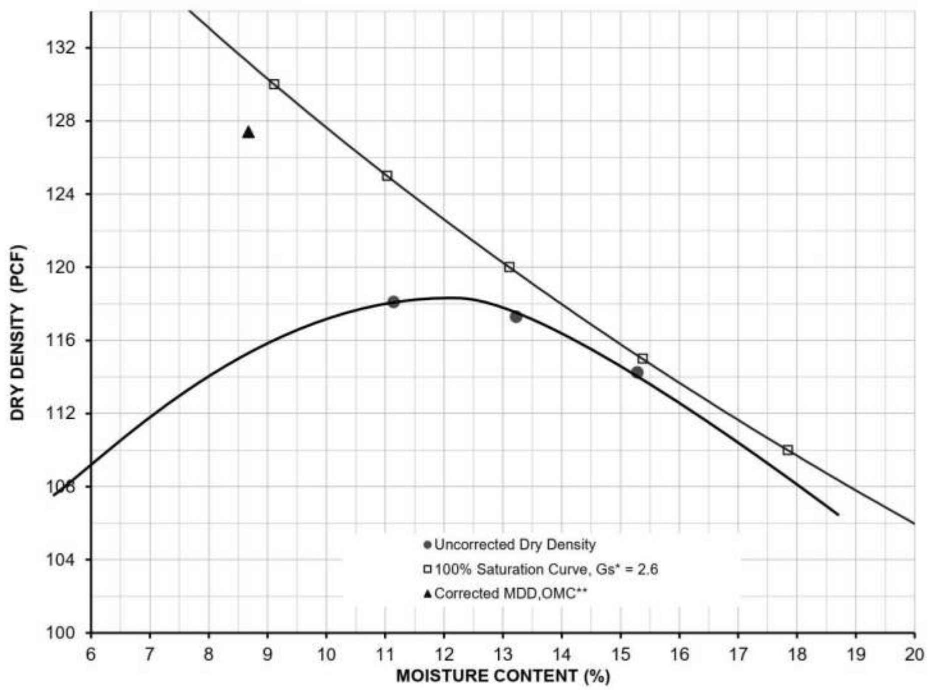
* Particles retained on 3/4-inch sieve

[1]AASHTO - American Association of State Highway & Transportation Officials (AASHTO) Materials Reference Laboratory. CME Buffalo accreditation includes tests of Portland Cement Concrete, Aggregate and Soil Materials. www.aashtoresource.org

LABORATORY TEST SUMMARY
Swift River Associates
Source Pre-Qualification
CME Report Number: 17320L-07
Page 3 of 3

SAMPLE LOCATION:	**Swift River 4051 River Rd. Stockpile 22-03**	DATE SAMPLED:	**6/28/21**
SOIL CLASSIFICATION:	**Gray cmf Gravel; some cmf Sand; trace Fines**	SAMPLE NO.:	**BL3151**

Moisture - Density Relationship Curve



Particle Size Analysis ASTM D422

Sieve Size	% Passing
2"	**100**
1-1/2"	**92**
1"	**80**
3/4"	**73**
1/2"	**61**
3/8"	**53**
1/4"	**44**
No.4	**38**
No.10	**24**
No.20	**17**
No.40	**13**
No.80	**10**
No.100	**9**
No.200	**7**

Test Procedure Information

Test Method	☑ ASTM D-1557 (Modified)		☐ ASTM D-698 (Standard)
Procedure Used	☐ A	☐ B	☑ C
Preparation Method	☐ Dry	☑ Moist	
Description of Rammer	☐ Manual	☑ Mechanical	

Oversize Fraction by Dry Weight
27 % Retained on ☐ No.4 Sieve ☐ 3/8" Sieve ☑ 3/4" Sieve

Test Results

Corrected MDD (PCF) = **127.4**
Corrected OMC (%) = **8.7**

* Specific Gravity, estimated
** MDD = Maximum Dry Density, OMC = Optimum Moisture Content
Please feel free to contact our office if you have any questions.

Austin Glasier
Supervising Laboratory Technician

New York State Department of Environmental Conservation
Division of Solid & Hazardous Materials, Region 9
270 Michigan Avenue, Buffalo, New York, 14203-2915
Phone: (716) 851-7220 • **FAX:** (716) 851-7226
Website: www.dec.ny.gov

Alexander B. Grannis
Commissioner

February 25, 2009

Mr. Kenneth H. Rawe, Jr., P.E.
Swift River Associates, Inc.
4051 River Road
Tonawanda, New York 14150

Dear Mr.Rawe:

Registered Facility #15W01
Adding BUD Corian material to process

Enclosed is a validated copy of your registration form submitted to the New York State Department of Environmental Conservation pursuant to 6 NYCRR Part 360, effective October 9, 1993. Previously, this facility has been registered to process only recognizable uncontaminated concrete, asphalt pavement, brick, soil or rock and to process uncontaminated unadulterated wood..

With the newly submitted registration form, the facility may also process source separated, nonputrescible solid waste recyclables. Included in "recyclables" is the waste Corian countertop composite material produced by E.I. DuPont de Nemours & Co. approved for use in the Department's Beneficial Use Determination (BUD) # 924-9-15, dated February 10, 2009.

This letter only acknowledges receipt of your registration form and does not, in any way, verify that the information which you provided on the form is true or correct.

You are reminded that 6 NYCRR Part 360 contains various requirements that must be followed to warrant your facility's continued status as a registered facility. This information was provided to you in the registration package.

STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SOLID & HAZARDOUS MATERIALS

REGISTRATION FORM FOR A SOLID WASTE MANAGEMENT FACILITY

Please read and follow all instructions before completing this registration form

PLEASE TYPE OR PRINT CLEARLY **THIS IS NOT A UPA PERMIT**

DEPARTMENT USE ONLY

DEC REGISTRATION # 15W01

DEC ADMINISTRATION #

DATE RECEIVED 2/18/09

1. FACILITY NAME AND LOCATION
Swift River Associates, Inc.

Street
4051 River Road

City/Village

Town: Tonawanda County: Erie

Telephone Number (716) 875-0902

2. FACILITY OWNER'S NAME
Swift River Associates, Inc.

Mailing Address
4051 River Road

City/Town/Village
Tonawanda

State/Zip Code
New York 14150

Telephone Number (716) 875-0902

3. FACILITY OPERATOR'S NAME (if different)
SAME

Mailing Address

City/Town/Village

State/Zip Code

Telephone Number ( )

4. SITE OWNER'S NAME (if different)
Carmen M. Pariso, Inc.

Mailing Address
3649 River Road

City/Town/Village
Tonawanda

State/Zip Code
New York 14150

Telephone Number (716) 875-6158

5. TYPE OF FACILITY REGISTRATION (check all applicable)

- [ ] Energy Recovery Incinerators or Pyrolysis Units [360-3.1(c)]
- [ ] Land Clearing Debris Landfills three acres or less [360-7.2(a)]
- [ ] Transfer Stations (municipally owned/operated/contracted) receiving less than 50,000 cubic yards or 12,500 tons of household solid waste annually [360-11.1(b)(1)]
- [ ] Transfer Stations (municipally owned/operated/contracted) receiving less than 50,000 cubic yards or 12,500 tons of containerized solid waste annually [360-11.1(b)(2)]
- [x] Source Separated, Nonputrescible Solid Waste Recyclables Handling and Recovery Facilities [360-12.1(d)]
- [ ] Waste Tire Retreaders [360-13.1(d)(1)(i)]
- [ ] Waste Tire Stored for On-site Energy Recovery [360-13.1(d)(1)(ii)]
- [ ] Tire Dealers Selling Waste Tires [360-13.1(d)(1)(iii)]
- [ ] Tire Manufacturing Facilities [360-13.1(d)(1)(iv)]
- [x] Processing Facilities Receiving Only Recognizable Uncontaminated Concrete, Asphalt Pavement, Brick, Soil or Rock [360-16.1(d)(1)(i)]
- [x] Uncontaminated Unadulterated Wood Processing Facilities [360-16.1(d)(1)(ii)]
- [x] Other Facilities not specifically described above, specify type Recyclables handling (360-12.1(d))

6. SOLID WASTE HANDLED

a. List wastes and/or materials to be accepted
Uncontaminated concrete, asphalt pavement, brick, soil, or rock, uncontaminated wood, [illegible]

b. Quantity (specify Units - see instructions)
design capacity [illegible] ton per day
storage on site 20,000 tons

7. OPERATIONS SCHEDULE - Normal schedule of operation
Monday - Saturday 7:00 AM - 5:00 PM

8. NAME(S) OF ALL MUNICIPALITIES SERVED City of N. Tonawanda, Tonawanda, Town of Tonawanda, Buffalo, Erie and Niagara County

9. CERTIFICATION: I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits was prepared by me or under my supervision and direction and is true to the best of my knowledge and belief, and that I have the authority as managing partner (title) of Swift River (Entity) to sign this registration form pursuant to 6 NYCRR Part 360. By signing this registration form, I affirm that I have read the applicable regulations and will abide by all conditions of the registration requirements. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Printed/Typed Name	Signature	Mo. Day Year
Kenneth H. Rawe, Jr.	Kenneth H. Rawe	2 / 16 / 09

DISTRIBUTION: White - Regional Office Copy; Yellow - Central Office Copy; Pink - Registrant's Validated Copy (to be returned by DEC); Green - Registration Facility Copy

New York State Department of Environmental Conservation
270 Michigan Avenue, Buffalo, New York 14203-2999
(716) 851-7220

Michael D. Zagata
Commissioner

July 1, 1996

Frey Site

Mr. Anthony Pariso
Swift River Associates
4051 River Road
Tonawanda, New York 14150

Dear Mr. Pariso:

Enclosed is a validated copy of your registration form submitted to the New York State Department of Environmental Conservation pursuant to 6 NYCRR Part 360, effective October 9, 1993.

This letter only acknowledges receipt of your registration form and does not, in any way, verify that the information which you provided on the form is true or correct.

You are reminded that 6 NYCRR Part 360 contains various requirements that must be followed to warrant your facility's continued status as a registered facility. This information was provided in the registration package.

Finally, please be advised that local (County, Town, etc.) approvals may also be required before you can start your operation.

If you have any questions regarding this matter, please contact me at 716/851-7220.

Sincerely,

Mark J Hans

Mark J. Hans, P.E.
Regional Solid Materials Engineer

Enclosure

(b:cwform)

STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID WASTE

REGISTRATION FORM FOR A
SOLID WASTE MANAGEMENT FACILITY

Please read and follow all instructions before completing this registration form

Please Type or Print clearly THIS IS NOT A UPA PERMIT

DEPARTMENT USE ONLY	
DEC REGISTRATION #	1 5 W 1 7
DEC ADMINISTRATION #	
DATE RECEIVED	7/1/96

1. FACILITY NAME AND LOCATION	2. FACILITY OWNER'S NAME
Swift River Associates, Inc.	Swift River Associates, Inc.
Street: 561 Pavement Rd.	Mailing Address: 4051 River Rd.
City/Village: Lancaster	City/Town/Village: Tonawanda
Town: Lancaster County: Erie	State/Zip Code: New York 14150
Telephone Number: (716) 875-0902	Telephone Number: (716) 875-0902

3. FACILITY OPERATOR'S NAME (if different)	4. SITE OWNER'S NAME (if different)
	Frey Concrete
Mailing Address	Mailing Address: 561 Pavement Rd.
City/Town/Village	City/Town/Village: Lancaster
State/Zip Code	State/Zip Code: New York 14086
Telephone Number ( )	Telephone Number: (716) 683-1432

5. TYPE OF FACILITY REGISTRATION (check all applicable boxes)

- [ ] Energy Recovery Incinerators or Pyrolysis Units [360-3.1(c)]
- [ ] Land Application and Sludge Storage Facilities [360-4.1(c)]
- [ ] Composting and Other Distribution and Marketing Facilities [360-5.3(b)]
- [ ] Land Clearing Debris Landfills three acres or less [360-7.2(a)]
- [ ] Transfer Stations (municipally owned/operated/contracted) receiving less than 50,000 cubic yards or 12,500 tons of household solid waste annually [360-11.1(b)(1)]
- [ ] Transfer Stations (municipally owned/operated/contracted) receiving less than 50,000 cubic yards or 12,500 tons of containerized solid waste annually [360-11.1(b)(2)]
- [ ] Source Separated, Nonputrescible Solid Waste Recyclables Handling and Recovery Facilities [360-12.1(d)]
- [ ] Waste Tire Retreaders [360-13.1(d)(1)(i)]
- [ ] Waste Tires Stored for On-site Energy Recovery [360-13.1(d)(1)(ii)]
- [ ] Tire Dealers Selling Waste Tires [360-13.1(d)(1)(iii)]
- [ ] Tire Manufacturing Facilities [360-13.1(d)(1)(iv)]
- [x] Processing Facilities Receiving Only Recognizable Uncontaminated Concrete, Asphalt Pavement, Brick, Soil or Rock [360-16.1(d)(1)(i)]
- [x] Uncontaminated Unadulterated Wood Processing Facilities [360-16.1(d)(1)(ii)]
- [ ] Other Facilities not specifically described above, Specify Type ____

6. SOLID WASTE HANDLED

a. List wastes and/or materials to be accepted: Brick, uncontaminated concrete, asphalt ~~pavement, rock~~, uncontaminated soil, unadulterated wood

b. Quantity (Specify Units - see instructions)
design capacity: 800 TON per DAY
storage on site: 20,000 TON

7. OPERATIONS SCHEDULE - Normal schedule of operation: Monday - Friday 7Am - 5pm

8. NAME(S) OF ALL MUNICIPALITIES SERVED: Amherst, Clarence, Lancaster, Depew, W. Seneca, Buffalo, Erie + Genesee County

9. CERTIFICATION:
I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits was prepared by me or under my supervision and direction and is true to the best of my knowledge and belief, and that I have the authority as Secretary / Treasurer (title) of SWIFT RIVER ASSOC. INC (Entity) to sign this registration form pursuant to 6 NYCRR Part 360. By signing this registration form, I affirm that I have read the applicable regulations and will abide by all conditions of the registration requirements. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Printed/Typed Name	Signature	Mo.	Day	Year
Anthony B. PARISO	Anthony B. Pariso	06	28	96

REGISTRANT'S VALIDATED COPY - COPY #3
(To Be Returned by Dec.)

New York State Department of Environmental Conservation
Division of Solid and Hazardous Materials, Region 9
270 Michigan Avenue, Buffalo, New York, 14203-2915
Phone: (716) 851-7220 • **FAX:** (716) 851-7226
Website: www.dec.ny.gov

Alexander B. Grannis
Commissioner

April 7, 2010

Mr. Kenneth Rawe, Jr.
Swift River Associates, Inc.
4051 River Road
Tonawanda, New York 14150

Dear Mr. Rawe:

47th Street Facility
Facility #32W12

Enclosed is a validated copy of your registration form submitted to the New York State Department of Environmental Conservation pursuant to 6 NYCRR Part 360. The newly registered facility located at 47th Street, Niagara Falls, New York, may process only recognizable uncontaminated concrete, asphalt pavement, brick, soil or rock and uncontaminated, unadulterated wood.

This letter only acknowledges receipt of your registration form and does not, in any way, verify that the information which you provided on the form is true or correct.

You are reminded that 6 NYCRR Part 360 contains various requirements that must be followed to warrant your facility's continued status as a registered facility. This information is enclosed with this letter.

Please be advised that this registration does not relieve you from the responsibility of complying with other Federal, State, and/or local laws, permits, rules and regulations. Should you have any questions, please call Ms. Nancy Loster at (716) 851-7220.

Sincerely,

Mark J Hans

Mark J. Hans, P.E.
Regional Solid Materials Engineer

MJH:sz

Enclosures

cc: Ms. Nancy Loster - NYSDEC, Division of Solid & Hazardous Materials
Mr. Scott Menrath - NYSDEC, Division of Solid & Hazardous Materials, Albany

47-14-020 (04/00)
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

REGISTRATION FORM FOR A SOLID WASTE MANAGEMENT FACILITY

Please read and follow all instructions before completing this registration form

PLEASE TYPE OR PRINT CLEARLY

DEPARTMENT USE ONLY

DEC REGISTRATION # 32W12

DEC ADMINISTRATION #

DATE RECEIVED 2/16/10

THIS IS NOT AN UPA PERMIT

1. **FACILITY NAME AND LOCATION** SWIFT RIVER ASSOCIATES, INC.	2. **FACILITY OWNER'S NAME** SWIFT RIVER ASSOCIATES, INC.
Street 47 TH STREET	Mailing Address 4051 RIVER ROAD
City/Village NIAGARA FALLS	City/Town/Village TONAWANDA
Town County NIAGARA	State/Zip Code NEW YORK 14150
Telephone Number (716) 875-0902	Telephone Number (716) 875-0902
3. **FACILITY OPERATOR'S NAME (if different)** SAME	4. **SITE OWNER'S NAME (if different)** NIAGARA METALS
Mailing Address	Mailing Address 4861 PACKARD ROAD
City/Town/Village	City/Town/Village NIAGARA FALLS
State/Zip Code	State/Zip Code NEW YORK 14304
Telephone Number	Telephone Number (716) 282-6200

5. **TYPE OF FACILITY REGISTRATION** (check all applicable)

- ☐ Energy Recovery Incinerators or Pyrolysis Units [360-3.1(c)]
- ☐ Land Clearing Debris Landfills three acres or less [360-7.2(a)]
- ☐ Transfer Stations (municipally owned/operated/contracted) receiving less than 50,000 cubic yards or 12,500 tons of household solid waste annually [360-11.1(b)(i)]
- ☐ Transfer Stations (municipally owned/operated/contracted) receiving less than 50,000 cubic yards or 12,500 tons of containerized solid waste annually [360-11.1(b)(2)]
- ☐ Source Separated, Nonputrescible Solid Waste Recyclables Handling and Recovery Facilities [360-12.1(d)]
- ☐ Waste Tire Retreaders [360-13.1(d)(1)(i)]
- ☐ Waste Tire Stored for On-site Energy Recovery [360-13.1(d)(1)(ii)]
- ☐ Tire Dealers Selling Waste Tires [360-13.1(d)(1)(iii)]
- ☐ Tire Manufacturing Facilities [360-13.1(d)(1)(iv)]
- ☑ Processing Facilities Receiving Only Recognizable Uncontaminated Concrete, Asphalt Pavement, Brick, Soil or Rock [360-16.1(d)(1)(i)]
- ☑ Uncontaminated Unadulterated Wood Processing Facilities [360-16.1(d)(1)(ii)]
- ☐ Other Facilities not specifically described above, specify type

6. **SOLID WASTE HANDLED**
a. List wastes and/or materials to be accepted
UNCONTAMINATED CONCRETE, ASPHALT PAVEMENT, BRICK, SOIL OR ROCK, UNCONTAMINATED UNADULTERATED WOOD
b. Quantity (specify Units - see instructions)
design capacity 1200 TON PER DAY
storage on site 20,000 TONS

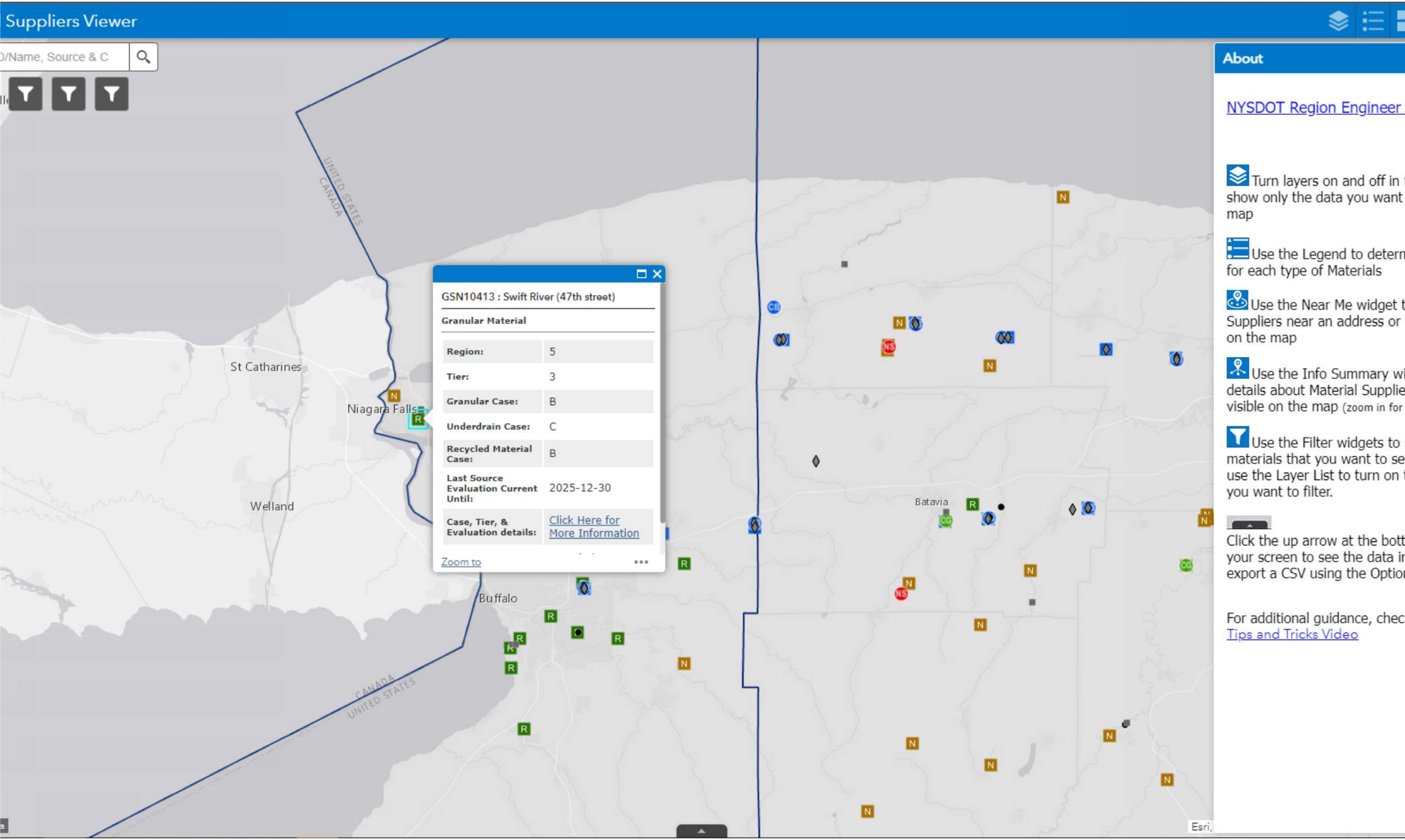
7. **OPERATIONS SCHEDULE** - Normal schedule of operation
MONDAY - SATURDAY 7:00 AM - 5:00 PM

8. **NAME(S) OF ALL MUNICIPALITIES SERVED**
GRAND ISLAND, NIAGARA FALLS, NIAGARA COUNTY

9. **CERTIFICATION:** I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits was prepared by me or under my supervision and direction and is true to the best of my knowledge and belief, and that I have the authority as VICE PRESIDENT (title) of SWIFT RIVER ASSOCIATES, INC. (Entity) to sign this registration form pursuant to 6 NYCRR Part 360. By signing this registration form, I affirm that I have read the applicable regulations and will abide by all conditions of the registration requirements. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Printed/Typed Name	Signature	Mo.	Day	Year
KENNETH H. RAWE, JR. P.E.	Kenneth H. Rawe Jr.	2	12	2010

REGIONAL OFFICE COPY - COPY #1


Suppliers Viewer
D/Name, Source & C
GSN10413 : Swift River (47th street)
Granular Material
Region: 5
Tier: 3
Granular Case: B
Underdrain Case: C
Recycled Material Case: B
Last Source Evaluation Current Until: 2025-12-30
Case, Tier, & Evaluation details: Click Here for More Information
Zoom to
St Catharines
Niagara Falls
Welland
Buffalo
Batavia
UNITED STATES
CANADA
About
NYSDOT Region Engineer
Turn layers on and off in
show only the data you want
map
Use the Legend to determ
for each type of Materials
Use the Near Me widget t
Suppliers near an address or
on the map
Use the Info Summary wi
details about Material Supplie
visible on the map (zoom in for
Use the Filter widgets to
materials that you want to se
use the Layer List to turn on
you want to filter.
Click the up arrow at the bott
your screen to see the data in
export a CSV using the Option
For additional guidance, chec
Tips and Tricks Video
Esri,

GCP-17

PROCEDURE FOR THE CONTROL AND QUALITY ASSURANCE OF GRANULAR MATERIALS

GEOTECHNICAL CONTROL PROCEDURE
GCP-17
Revision #9

AUGUST 2018

NEW YORK STATE OF OPPORTUNITY. | Department of Transportation | Office of Technical Services | Geotechnical Engineering Bureau

GEOTECHNICAL CONTROL PROCEDURE:
PROCEDURE FOR THE CONTROL AND QUALITY ASSURANCE OF GRANULAR MATERIALS

GCP-17
Revision #9

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL ENGINEERING BUREAU

AUGUST 2018

TABLE OF CONTENTS

1. INTRODUCTION

1.1 Purpose

This manual establishes statewide control, quality assurance (QA), and documentation procedures for evaluating granular materials, natural or recycled, used for construction items. The intent of this manual is to assure that the Department receives a product that meets the specifications for the Item for which it is used. The procedures in this manual have been developed to assure that sampling is representative of the entire source or stockpile. Deviation from these procedures therefore is not allowed without the expressed written permission of the Director, Geotechnical Engineering Bureau (GEB).

The controls for the various construction materials are specific to the type and application. The material types are sensitive to permeability, segregation and contamination and the requirements are intended to ensure that performance of the product in its final position is consistent, predictable, and meets expectations over the lifetime of the installation. For example, subbase material must have similar drainage and stability characteristics so that the pavement structure is adequately drained and supported. Similarly, backfill for Mechanically Stabilized Earth Structures (MSES) must have consistent physical, and, for systems utilizing metal reinforcing straps or mesh, electro-chemical properties to ensure that the overall structure is constructable, and meets predicted, long-term performance requirements.

The Supplier/Producer assumes full responsibility for all quality control (QC) activities for the production of the material. QC activities include assuring the material meets the specification requirements for which it is manufactured, as well as a plan to manage the inventory. Nevertheless, the Department has instituted additional controls and will perform QA on the final product to ensure that it meets specification requirements as outlined in this manual.

QA of granular materials involves collecting samples and performing testing at various points in the process. Depending on the Item, this can include some or all of the following:

- Source evaluation
- Stockpile sampling and testing
- Sampling and testing material on the contract site. This may be from on the grade or from behind a MSE Structure after placement by the Contractor or at any other location where the material is being stored or used.

Test results are tied to the origin of material for natural material, or to the processing operation for recycled materials. Each source is assigned a unique Granular Source Number (GSN) when first evaluated.

Failure of material to meet specification requirements at any point in the QA process will result in rejection of that material, as described in this manual.

All samples submitted to the GEB shall be noted on the current *GRANULAR MATERIALS EVALUATION FORM.*

The test results of each stockpile will be indicated on the current *GRANULAR MATERIAL DOCUMENTATION FORM.*

2. STOCKPILED MATERIAL

2.1 General

The purpose of stockpiling material is to allow the Department to effectively evaluate granular material to ensure that it meets Specification requirements. Stockpiling is required for applications where the quality of the material is critical for the long term performance of the structure, for examination and assessment of recycled materials, and for all winter earthwork material substitutions as these items experience environmental influences affecting their placement. This section describes the steps necessary for the Department to evaluate such material. Note that other controls are necessary, in addition to the sampling requirements described below, in order for the Department to be confident that the material placed in the work meets specification requirements. These include:

- **"Chain of Custody"**. This describes the documentation process by which the Department ensures that the material being placed in the work is from a given approved stockpile. This process is the responsibility of the Contractor and Supplier, and it may include the employment of Contractor staff at the stockpile source, and the use of delivery tickets.
- **The effects of handling on the material**. It is the responsibility of the Contractor/Supplier to make sure that the methods used for delivering and handling the material does not result in a significant change in the material's properties, such that the material goes "out of spec" due to segregation of particles. The Department will employ QA procedures, such as sampling material placed on the grade, to ensure that the material placed still meets specification requirements.

A Contractor/Supplier may elect to stockpile a material that is not required to be stockpiled by the item specification. If the Contractor/Supplier so elects, that material will be evaluated as stockpiled material, in accordance with the provisions contained herein.

A Contractor/Supplier has the option to construct stockpiles of most granular materials items, without reference to a specific contract. The exception to this option is MSES Backfill material. **The intent of this provision is to supply Department contracts with all of the material from this type of stockpile.** Permission to construct this type of stockpile is based on conformance with the intent of this option and all the requirements. This permission may be suspended by a Department Geotechnical Engineer based on violations of the procedures established in this manual.

The Regional Geotechnical Engineer (RGE), or his/her Representative, has the option of inspecting the construction of each stockpile to ensure that the requirements of this manual are met. Failure by the Contractor/Supplier to comply can result in the rejection of the stockpile by the RGE.

A stockpile may be rejected, based on visual inspection, by a Departmental Geotechnical Engineer, or his/her Representative. Samples will not be collected. Written documentation will be provided to the Engineer (for contract specific stockpiles) or the Contractor/Supplier (for non-contract specific stockpiles) with a copy to the RGE and GEB's General Soils Laboratory (GSL), describing the reason for the rejection. Photographs and/or other evidence can also be provided to support a decision to reject a stockpile (see Section 2.6, "Documentation").

2.2 Stockpile(s) Constructed for a Specific Contract

2.2.1 Requirements: The Contractor/Supplier shall meet the following requirements in the construction of each stockpile:

A. *NOTIFICATION:* Contractor/Supplier shall notify the Engineer of the intent to construct a stockpile, a minimum of ***three work days*** prior to beginning construction of any stockpile. The Engineer shall then notify the RGE that a stockpile is being constructed.

B. *STRIPPING SOURCE:* At all times the source of the material used for the manufacture of the stockpiled material shall be stripped of all organic and deleterious material for a minimum distance of 30 feet (9 m) from the top of the working face.

C. *STOCKPILE LOCATION:* Stockpiles shall be located a minimum of 50 feet (15 m) from the nearest edge of a storage pile built up under a processing plant conveyor, and from the toe of the working face of the source. Sufficient access shall be provided around the entire stockpile to sample and remove material in accordance with the requirements in Section 2.4.2, "Sampling Procedure".

D. *STOCKPILE CONSTRUCTION:* Stockpiles shall be constructed of unfrozen material on a prepared surface of similar material, in stages not exceeding 4 ft. (1.2 m) in thickness. If a stockpile is constructed by alternately placing coarse and fine material, each layer of coarse or fine material in a stage shall not exceed 2 ft. (0.6 m) in thickness. The total height of the stockpile shall not exceed the reach of the equipment employed to remove material for sampling and use, nor be greater than 16 ft. (5 m).

E. *STOCKPILE SIZE*: The minimum size of a stockpile shall be 1,000 yd^3 (800 m^3). If the contract quantity is less than 1,000 yd^3 (800 m^3), the Contractor may construct a stockpile smaller than the minimum size, but not less than the contract quantity.

There is no maximum size restriction. However, large stockpiles may affect sampling frequency. The Department reserves the right to collect quality assurance samples at any time while material is being removed from the stockpile.

The Department performs QA testing only on granular material intended for use on Department contracts. Therefore, the total quantity of stockpiled material of each Item evaluated and approved for a specific contract should be within reasonable agreement with the quantities required by the Contract documents. If a Contractor/Supplier builds stockpiles in excess of the contract quantity, the RGE may require the Contractor/Supplier to provide justification for the extra material. The RGE and GEB will review the justification to determine whether to continue with the QA process.

F. *RAMPS:* Ramps formed for stockpile construction shall be the same material as that being stockpiled and will be considered part of the stockpile. Any contaminated surface material shall be removed before steepening (ramp removal) and/or sampling.

G. *STOCKPILE IDENTIFICATION:* All stockpiles shall be identified with at least one weather-resistant sign, placed with a sturdy support, on or in the pile within easy viewing from the ground. The information on the sign must be legibly written using weather-resistant paint or marker, and be easily readable from ground level. Minimum dimensions shall be 24 in. x 24 in (0.6 m x 0.6 m.). All signs must be in place prior to sample collection, and shall remain in place until the stockpile is depleted or disposed of in accordance with SECTION 2.9.

The information on the sign shall include:

- Contract number,
- Stockpile number,
  - Stockpiles should be numbered consecutively, regardless of pile type or item and will be in the form of ***GSN – 2 Digit Year – Consecutive pile number***: e.g. 99999 – 17 – 01, 99999 – 17 – 02, 99999-17-03, etc.
- Item number(s),
- Estimated quantity as Volume in yd^3.

<u>2.3 Stockpile(s) Constructed Without Reference to a Specific Contract</u>

Non Project-Specific (NPS) stockpiles allow Contractors/Suppliers to develop a ready supply of approved stockpiled granular material for use on multiple and/or projected Department contracts. **All of the material from the approved stockpiles is intended for use in Department or Federally Funded contracts.**

If the approved material is not used within a reasonable period of time (not less than the duration of one full construction season), the Contractor/Supplier may submit a written request to the RGE, to be allowed to sell part or all of the approved material for use on non-Department work.

Reasonable requests will be granted. All material usage will be documented on a NEW YORK STATE DEPARTMENT OF TRANSPORTATION STOCKPILED MATERIAL SHIPMENT form (see Appendix), and may be used to re-evaluate the Contractor/Supplier's privilege to construct such stockpiles in the future. Permission to construct this type of stockpile is contingent upon conformance with this, and the following requirements.
This option is not available for stockpiles of MSES Backfill material

A. *NOTIFICATION:* The Contractor/Supplier shall notify the RGE at least ***three work days*** prior to beginning construction of any stockpile.

B. *STRIPPING:* At all times the source of the material used for the manufacture of the stockpiled material shall be stripped of all organic and deleterious material for a minimum distance of 30 feet (9 m) from the top of the working face.

C. *STOCKPILE LOCATION:* Stockpiles shall be located a minimum of 50 ft. (15 m) from the nearest edge of a storage pile built up under the processing plant conveyor and from the toe of the working face of the source. Sufficient access shall be provided around the entire stockpile to sample and remove material in accordance with the requirements in Section 2.4.2, "Sampling Procedure".

D. *STOCKPILE CONSTRUCTION*: Stockpiles shall be constructed of unfrozen material on a prepared surface of similar material, in stages not exceeding 4 ft. (1.2 m) in thickness. However, if a stockpile is constructed by alternately placing coarse and fine material, each layer of coarse or fine material in a stage shall not exceed 2 ft. (0.6 m) in thickness. The total height of the stockpile shall not exceed the reach of the equipment employed to remove material for sampling and use, nor be greater than 16 ft. (5 m).

E. The MINIMUM size of a stockpile of Underdrain Filter material shall be 1,000 yd^3 (800 m^3). For all other granular material items, the MINIMUM size of a stockpile shall be 3,000 yd^3 (2,500 m^3).

The MAXIMUM size of a stockpile shall be 10,000 yd^3 (7,600 m^3) unless the Contractor/Supplier submits, in writing, an acceptable quality control plan to the RGE. The quality control plan must be approved by the RGE and the GEB prior to the Contractor/Supplier beginning the construction of the stockpile. The Department reserves the right to collect quality assurance samples at any time while material is being removed from the stockpile.

F. *RAMPS*: Ramps formed for stockpile construction shall be the same material as that being stockpiled and will be considered part of the stockpile. Any contaminated surface material shall be removed before steepening (ramp removal) and/or sampling.

G. *STOCKPILE IDENTIFICATION:* All stockpiles shall be identified with at least one weather-resistant sign, placed with a sturdy support, on or in the pile within easy viewing from the ground. The information on the sign must be legibly written using weather-resistant paint or marker, and be easily readable from ground level. Minimum dimensions shall be 24 in. x 24 in (0.6 m x 0.6 m.). All signs must be in place prior to sample collection, and shall remain in place until the stockpile is depleted or disposed of in accordance with SECTION 2.9.

The information on the sign shall include:

- Stockpile number,
  - Stockpiles should be numbered consecutively, regardless of pile type or item and will be in the form of ***GSN – 2 Digit Year – Consecutive pile number***: e.g. 99999 – 17 - 01
- Item number(s),
- Initial quantity,
- Prior to supplying material to a Departmental contract, the Contractor/Supplier shall add the contract numbers to the sign.

H. *DOCUMENTATION:* The Contractor/Supplier of stockpiles is required to provide a completed NEW YORK STATE DEPARTMENT OF TRANSPORTATION STOCKPILED MATERIAL SHIPMENT DOCUMENTATION form (see Appendix A). This form must be submitted to the RGE no later than three work days after the first and fifteenth day of each month that material was taken from a stockpile. Information on the form shall include all quantities taken from the stockpile, both Department and non-Department contracts.

The STOCKPILED MATERIAL SHIPMENT DOCUMENTATION form is included in the appendix of this manual.

I. *STOCKPILE REJECTION:* Non-compliance with any of these requirements will result in rejection of the stockpile by the RGE. Any rejected stockpile shall be disposed of in accordance with Section 2.9 of this manual.

REJECTION NOTIFICATION: The RGE will notify the Contractor/Supplier, via letter, of a stockpile rejection for non-compliance with the intent and/or requirements. A copy of this letter will be sent to the Director of the GEB. **The Regional Geotechnical Engineer may prohibit the Contractor/Supplier from constructing a NPS stockpile (stockpile without reference to a specific contract) for a period of up to two years**. During this period when the Contractor/Supplier is restricted to building only contract-specific stockpiles, those stockpiles will be limited to the contract quantity.

REJECTION APPEAL PROCESS: The Contractor/Supplier may appeal the decision to the Director of the GEB by requesting, in writing, a meeting between themselves, the RGE and representatives from the GEB stating the basis of the appeal. This request must be made within two weeks of the written notification of rejection. The Contractor/Supplier may request representation from the Empire State Concrete and Aggregate Producers Association, Inc. and/or the Associated General Contractors. The meeting will be scheduled within one week of receipt of this request. The Contractor/Supplier will present his/her appeal at this meeting. A final determination will be made by the Director of the GEB and forwarded in writing to the Contractor/Supplier within one week of the date of the meeting.

2.4 Sampling of Stockpile(s)

2.4.1 General

A. After a stockpile has been sampled, it shall not be modified, moved, or reshaped. Material removed from the stockpile during the sampling process as described in this manual may be replaced with the following restrictions:
   - A Departmental Representative must be present to witness the work and/or approve the Contractor/Supplier's method of replacing the material in a manner that retains the general shape and maximum height required of stockpiles.
   - Material shall be replaced so as to minimize segregation.

B. Material shall not be added to a stockpile after sampling. If material is added after the stockpile has been sampled, or the stockpile is otherwise tampered with, the RGE will declare the stockpile rejected and it shall be disposed of in accordance with Section 2.9.

C. A stockpile may not be moved or relocated, unless the following requirements are met:
   - A written request to move a stockpile must be sent to the RGE (copy to the Engineer). The request shall include an explanation as to why it is necessary, or why it is in the Department's best interest, to move the stockpile. Work shall not proceed without written permission by the RGE.
   - The operation must be inspected by a Department Representative at both the sources and at the new location.
   - The relocated stockpile shall only consist of material from the approved stockpile being moved. Other material shall not be added to the relocated stockpile.
   - The relocated stockpile shall be constructed in accordance with the requirements of Section 2.2.1 D through 2.2.1 G.
   - The new footprint of the stockpile shall not overlap the previous footprint at any point. The stockpile must be relocated in its entirety.

2.4.2 Sampling Procedure

A. *RESPONSIBILITY:* The RGE is responsible for sampling all stockpiles.

B. *NOTIFICATION:* The Engineer will notify the RGE when a stockpile constructed for a **SPECIFIC CONTRACT** has been completed and is ready to be sampled. A Departmental Geotechnical Engineer or Representative will sample the stockpile within five work days of notification.

The Contractor/Supplier will notify the RGE when a NPS stockpile constructed **WITHOUT REFERENCE TO A SPECIFIC CONTRACT** has been completed and is ready to be sampled. A Departmental Geotechnical Engineer or Representative will sample the stockpile within five work days of notification.

C. *PERSONNEL AND EQUIPMENT FOR SAMPLING:*

1. A Departmental Geotechnical Engineer or Representative will direct all sampling operations.
2. The Contractor/Supplier shall provide the personnel and equipment necessary to assist in sampling. If the Contractor/Supplier fails to provide the personnel and equipment necessary to assist in sampling in accordance with this provision, the stockpile will be rejected and disposed of in accordance with Section 2.9

D. *SAMPLING:*

1. A stockpile will be visually divided into four approximately equal quadrants.

2. Within each quadrant, the Contractor/Supplier shall:
   a. Remove all frozen material prior to sampling.
   b. Using a front-end loader of sufficient size, dig into the stockpile to form a continuous slope by grading the full height of the stockpile so that material does not collapse and result in segregated material at the toe.
   c. The loader operator shall then channel the slope, beginning 1 ft. (0.3 m) from the bottom and continuing to the top of the slope in one operation, to fill the bucket.
   d. The bucket shall then be lowered to ground level and slowly emptied by rotation to form a small pile at each quadrant.

3. Collect a sample from each small pile by following these steps:
   a. Visually divide the small pile into four equal quadrants. In each quadrant:

b. Using a <u>square-point</u> shovel, grade the slope from top to bottom such that material does not collapse and result in segregation.

c. Obtain a large shovelful of material by channeling up the length of the middle third of the slope. Place the material in an approved granular materials sample container.

***<u>Note</u>*:** An approved container is a sample bag (supplied by the GEB), or sufficiently sized bucket with tight fitting lid.

Repeat **Steps 3.b** and **3.c** in all four quadrants to obtain one full sample.

***<u>Monitoring Sample collection</u>*:** Perform **Step 3.c** in each of the four small piles from the stockpile, resulting in a sample made up of a composite of material from all four quadrants of the stockpile.

***<u>Stockpile QA Sample collection</u>*:** Perform **Steps 2.b** through **2.d**, and **Steps 3.a** through **3.c**. from the working face of the stockpile.

***<u>Note</u>*:** The minimum sample size is 45 lbs. (20 kg). Generally, four large shovelfuls of material are adequate to attain this minimum. However, occasionally it may be necessary to repeat **Step 3.c** to assure the minimum sample weight has been collected.

d. Place documentation containing sample information in a small plastic bag and then place the bag into the sample container. The documentation should include:
   i. Source Name and GSN
   ii. Stockpile number
   iii. Stockpile quantity
   iv. Item Number(s)
   v. Sample Number
   vi. Sample location (North, East, South, or West)
   vii. Date
   viii. Sampler Name
   ix. Any other pertinent information (site map, stockpile shape, etc.).

e. Securely seal the sample container. Include a label identifying the sample on the outside of the sample container.

f. All samples shall be transported by a Departmental Geotechnical Engineer, or Representative, for testing and evaluation.

E. *SAMPLING ERROR:* If the Contractor/Supplier claims that a sampling error has been committed, and it is not resolved at the site at the time of sampling, the alleged error shall be resolved by the RGE. The Contractor/Supplier shall, within one work day, provide a detailed written description of the alleged error to the RGE, who will make a decision as soon as possible concerning the validity of the claim. If the allegation is upheld, the RGE, or Representative, shall immediately re-sample the stockpile in accordance with the requirements in Section 2.4.2 D. All prior samples and/or test results will be considered void.

2.5 Stockpile Waivers

The following procedures can be implemented by the RGE in lieu of stockpile requirements:

2.5.1 Material Transported by Barge

The method used to load the barge shall be approved by the RGE. The RGE will stipulate the procedure for and direct the sampling of the barge. The Contractor/Supplier shall supply the personnel and equipment necessary to assist in sampling. A minimum of one sample shall be obtained. It may be obtained either before or after loading the barge. If the material is sampled before being loaded, the sample(s) shall be obtained from a location where material can not be added or removed before being directly loaded into the barge.

Material testing and evaluation shall be in accordance with the requirements for stockpiled material. The material shall be unloaded from the barge for transportation to the contract so that the material placed on the grade conforms to the specification requirements of the item(s).

2.5.2 Material for Temporary Use

The following procedure may be used for approval of granular material items used in the construction of temporary work. This procedure shall not apply if the material from the temporary work is to become incorporated into the final contract.

A Departmental Geotechnical Engineer will visually inspect each proposed source of material for compliance with specification requirements and submit an evaluation of the material, in writing, including any limiting conditions, to the Engineer and RGE.

If, in the judgment of the RGE, the proposed material is not satisfactory for the intended item, the Contractor shall follow the procedures in this manual for evaluation of the material as the intended item requires.

2.6 Documentation

TEST RESULTS: The samples submitted to the GEB shall be noted on the *GRANULAR MATERIALS EVALUATION FORM SM-453*. Test results will be noted on the Form by the GEB and submitted to the RGE.

APPROVAL/REJECTION: For all items except MSES Backfill, the RGE will list test results on the *GRANULAR MATERIAL DOCUMENTATION FORM SM-454,* document whether the material is approved or rejected, and distribute the Form to the Engineer, the Contractor and the Supplier (for contract-specific stockpiles) or to the Contractor/Supplier (for NPS stockpiles constructed without reference to a specific contract).

For MSES Backfill, the GEB General Soils Laboratory Supervisor, or representative, will list test results on the *GRANULAR MATERIAL DOCUMENTATION FORM SM-454,* document whether the material is approved or rejected, and distribute the Form to the RGE and the Engineer. The Engineer will distribute it to the Contractor and the Supplier.

Stockpiles visually rejected by a Departmental Geotechnical Engineer must be documented, in writing, indicating the basis of rejection and distributed as indicated above.

2.7 Use of Approved Material

Only stockpiles that have been approved as noted above shall be used as sources of stockpiled material.

Stockpiled material may be used for any item for which the test results indicate the material meets the specification requirements. **The Engineer using material from a NPS stockpile approved without reference to a specific contract must obtain documentation of stockpile approval from the RGE prior to placing the material on the grade.**

Approval of a stockpile shall not relieve the Contractor of the responsibility to place in its final position a material conforming to all the specification requirements for the intended item. If the Engineer observes material being placed on the grade that appears to be outside of the specification requirements or observes a visual difference in the material, the Engineer may request the RGE to obtain quality assurance samples at any location and reject all material not conforming to the specification requirements.

In addition, the Department may elect to take samples from the grade at any time as part of the overall QA process. The frequency and approximate location of these additional samples will be determined by the GEB's General Soils Laboratory Supervisor, or representative, based on a history of the source and the quantity of material being placed. Note that because of the critical importance of backfill placed for MSES applications, the Department **will** always take additional samples from behind the new structure for additional testing. QA samples for MSES backfill material shall be taken in accordance with GCP-20 *Procedure for Taking Random Samples of*

Backfill Material for Mechanically Stabilized Earth Systems. Note that the typical turn-around time for these test results is two weeks. Every effort will be made to expedite this testing.

In the event that test results from QA samples indicate that the material does not meet specification requirements, that material will be rejected. Determination of the amount and extent of rejected material depends on the importance of the application (i.e. MSES backfill requirements are more critical than those for backfill around a concrete pipe), as well as the nature of the deviation from the specifications. Possible consequences could include but not be limited to:

- Issuance of a Stop Work order by the Engineer;
- Requiring the contractor to remove and replace the material placed that day;
- Requiring the contractor to conduct an investigation to determine the full extent of the unacceptable material, followed by removal and replacement.

If the Contractor/Supplier fails to provide the personnel and equipment necessary to assist in sampling in accordance with this provision, the stockpile will be rejected and disposed of in accordance with Section 2.9.

USE OF APPROVED MATERIAL: Material removed for contract use from accepted stockpiles shall be by side excavation for the full height of the stockpile, unless otherwise approved by the Soils Engineering Laboratory Supervisor.

STOCKPILE EXPIRATION: All stockpiles will expire two years from the date of acceptance. After the expiration date, the stockpile shall be disposed of in accordance with Section 2.9.

2.8 Transfer of Stockpile(s)

A RGE may approve transfer of all or a portion of the material from an approved stockpile to another contract according to the following procedure:

A. The Contractor requesting the transfer shall submit the following information to the Engineer:
   1. The location and number of the stockpile.
   2. The contract for which the stockpile was originally approved.
   3. The present owner of the material, including address.
   4. The estimated quantity of material remaining in the stockpile.
   5. The quantity of material to be utilized from the stockpile on the applicant's contract.
   6. The item(s) for which the material will be used by the Contractor.

B. The Engineer shall submit the information from the Contractor to the RGE and request, in writing, a transfer of material from the stockpile.

C. The RGE shall contact the Engineer of the contract for which the stockpile was originally approved and discuss the impact of transferring material from the stockpile. If the material to be transferred will be used as MSES backfill, the RGE shall discuss the transfer request with the GEB. Transfer quantities of MSES should be such that it meets or exceeds the anticipated job quantities, as backfill material for any MSES shall be provided from a single source unless the GEB along with the RGE approve of obtaining material from multiple sources.

D. The RGE shall review the records from the stockpile to determine the quantity used and the quantity remaining with the initial estimate of the quantity evaluated in the stockpile. If the review uncovers discrepancies in the quantity of material evaluated in the stockpile, the request for transfer of approval will be denied.

E. The RGE shall provide a written notification to each involved Engineer and the Contractor/Supplier stating final determination on the stockpile transfer request. If the request is approved, the transfer approval shall include the location and number of the stockpile, a copy of the original approval, a list of the previous contracts using the stockpile and all appropriate restrictions.

F. The Engineer of the contract receiving the transfer shall provide the RGE with the quantity of material actually used on the contract from the stockpile.

2.9 Disposal of Stockpile(s)

Material from a rejected or expired stockpile may be disposed of or may be used in the construction of another stockpile provided no portion of the new stockpile overlaps the location of the existing stockpile. Stockpiles rejected because of deleterious (sod, topsoil etc.) or hazardous (fuel, asbestos etc.) material shall not be used in the construction of another stockpile.

Stockpiles for MSES Backfill that are rejected due to failure to meet chemical requirements shall not be used in the construction of another stockpile for MSES Backfill.

If requested by the Contractor/Supplier, material from an expired stockpile that does not contain hazardous material may, at the direction of the RGE, be reshaped to remove surface growth and be re-evaluated.

3. STOCKPILED MATERIAL EVALUATION

3.1 General

This process involves tests on the samples of material, review of the test results, decision on the current stockpile and determination of the case designation for the material source.

The case designation determines the course of action to be followed for subsequent stockpile(s).

- **Case A** indicates that material testing will be performed in the Region, except for the first stockpile of each year. Samples from these initial stockpiles will be forwarded to the GEB's General Soils Laboratory for evaluation.

- **Case B** indicates that the material testing will be performed in the Region. A monitoring sample will be forwarded to the GEB for testing. Test results obtained from monitoring samples will not necessarily affect the acceptance of the stockpile being evaluated, but may change the case designation for subsequent stockpiles.

- **Case C** indicates that the testing will be performed at the GEB's General Soils Laboratory.

3.2 Material Testing

The samples from each stockpile are tested and the results are evaluated in accordance with the subsequent portions of this section. Note that soundness and plasticity index are central to this manual, as the results of these tests are used to designate the stockpile Case and Tier. Depending on the specification item requirements, however, other tests may be conducted.

Laboratory testing for:

- Magnesium Sulfate Soundness,
- Plasticity Index,
- Gradation,
- Resistivity, pH, Sulfides and Sulfates Ions, and Chlorides Ions for MSES backfill,
- Cadmium, Chromium, Lead and Silver (per Toxicity Characteristic Leaching Procedure, EPA Test Method 1311),
- Any other properties, as required by the Item specification, will be conducted in accordance with current Departmental procedures.

All individual test results and the mean of the results will be rounded to a whole number. If the decimal portion is less than 0.5, round downward to the nearest whole number; if the decimal portion is greater than 0.5, round upward to the nearest whole number; if the decimal portion is 0.5, round to the nearest even whole number, or zero.

If a testing error is alleged, the Contractor/Supplier shall, within ten work days of the receipt of the GRANULAR MATERIALS DOCUMENTATION FORM, submit a written detailed description of the alleged testing error to the RGE. The RGE will refer the information to the Soils Engineering Laboratory Supervisor for resolution. If re-sampling is ordered, all prior samples and/or test results will be considered void and the stockpile will be re-sampled.

3.3 Stockpile Evaluation Criteria

The test results are evaluated in accordance with following criteria:

3.3.1 Magnesium Sulfate Soundness Loss

The mean soundness loss of the samples submitted shall be within the specification limits.

No more than one of the soundness loss values of the samples submitted shall exceed the value of the maximum specification limit. In no case shall the maximum specification limit be exceeded by more than 5 percent.

3.3.2 Plasticity Index

The mean Plasticity Index of the samples submitted shall be within the specification limits.

No more than one of the Plasticity Index values of the samples submitted shall exceed the value of the maximum specification limit. In no case shall the maximum specification limit be exceeded by more than 1.

3.3.3 Gradation

The gradation of each sample from the stockpile, excluding monitoring samples, shall meet the specification requirements for the item.

3.4 Material Source Type(s)

The material sources are designated as shown in the following chart:

Tier 1	Tier 2	Tier 3
Stockpiles of Granular Materials (except MSES Backfill Material)	Stockpiles of Granular Materials from Sources listed in NYSDOT Materials Bureau Approved List *SOURCES OF FINE AND COARSE AGGREGATES*	Stockpiles Containing Recycled Materials

3.4.1 Tier 1 – Stockpile(s) of Granular Materials

All new production sources shall have four samples from each of the first six stockpiles forwarded to the GEB for evaluation as **Case "C"**. A Case Determination will be made based on the results of these evaluations, in accordance with Section 3.5, "Case Determination Criteria - Tier 1 and Tier 3".

In any 12 month cycle the initial stockpile, from a **Tier 1** Source, will have four samples submitted to the GEB for Magnesium Sulfate Soundness, Plasticity Index and Gradation, regardless of Case Determination status of the Source. The GEB will select a course of action to be followed for samples from subsequent stockpiles obtained from the same source.

Test results from stockpiles of Subbase (all Types) will only be used in determining the course of action for subsequent stockpiles of Subbase. Similarly, test results from stockpiles of Underdrain Filter Material will only be used in determining the course of action for subsequent stockpiles of Underdrain Filter Material. The results and course of action will be recorded on the *GRANULAR MATERIAL EVALUATION FORM* and forwarded to the appropriate RGE.

3.4.2 Tier 2 – Stockpile(s) of Granular Materials from Sources identified on the Approved List of "Sources of Fine and Coarse Aggregates"

The GEB will designate **Case "B"** as the course of action to be followed for samples from stockpiles obtained from those areas of Sources placed on the most current New York State Materials Bureau Approved List "SOURCES OF FINE AND COARSE AGGREGATES ("Stone" or "Gravel" categories only).

If prior testing indicates a Case "A" designation these sources will remain Tier 1, Case "A", regardless of Materials Bureau Approved List status. These sources will remain as Tier 1, Case "A" until testing indicates a change from Case "A"

For new sources, the initial stockpile will have four samples submitted to the GEB for Magnesium Sulfate Soundness, Plasticity Index and Gradation, regardless of Materials Bureau Approved List status. A new source is one with a GSN which has not previously submitted a stockpile for evaluation.

The GEB may waive the testing of the Magnesium Sulfate Soundness and Plasticity Index of material from these Sources.

Sources will remain in Tier 2 unless:

- The source is removed from "SOURCES OF FINE AND COARSE AGGREGATES."

- Material from areas not approved by the Materials Bureau, is being used to construct stockpiles.

- Test results from monitoring samples meets or exceeds the maximum specification value for Magnesium Sulfate Soundness or Plasticity Index.

Sources that are removed from Tier 2 shall be placed in Tier 1 and remain in Tier 1 for a minimum of six stockpiles.

3.4.3 Tier 3 – Stockpile(s) Containing Recycled Materials

All new production sources* shall have four samples from each of the first six stockpiles forwarded to the GEB for evaluation as **Case "C"**. A Case Determination will be made based on the results of these evaluations, in accordance with Section 3.5, "Case Determination Criteria - Tier 1 and Tier 3".

Subject to material characteristics, GEB may waive the requirement to have four samples from each of the first six stockpiles forwarded to the GEB for evaluation as **Case "C"**.

In any 12 month cycle the initial stockpile, from a **Tier 3** Source, will have four samples submitted to the GEB for Magnesium Sulfate Soundness, Plasticity Index and Gradation, regardless of Case Determination status of the Source. The GEB will select a course of action to be followed for samples from subsequent stockpiles obtained from the same source.

* A portable crushing operation run by a specific company is considered a production source, similar to stationary operations. As such, they are evaluated in the same manner as stationary operations as notes above, regardless of the location of the portable operation.

3.5 Case Determination Criteria - Tier 1 and Tier 3

3.5.1 General

If **Case "A"** or **Case "B"** is assigned to the source, but visual observation of subsequent stockpiles indicates a change in the material, a Departmental Geotechnical Engineer may select a course of action in accordance with **Case "B"** or **Case "C"**. When this change occurs, all samples will be submitted to the GEB for testing and determination of a course of action.

If the maximum specification limit is met or exceeded by one or more samples, Case "C" will be assigned.

3.5.2 Case Criteria

The following will be applied to the test results, combined with the test results from the past five stockpiles that have had four samples tested by the General Soils Laboratory, when determining the case designation for each subsequent stockpile from a Source:

3.5.2.1 Stockpiles containing **only** Crushed Ledgerock or Blast Furnace Slag

Case	% Soundness Loss (Mean)	Plasticity Index (Mean)
A	≤ 10	Non Plastic (NP)
B	≤ 15	≤ 4
C	All Other Results	All Other Results

3.5.2.2 Stockpiles containing **only** Gravel or Crushed Gravel

Case	% Soundness Loss (Mean)	Plasticity Index (Mean)
A	≤ 10	NP
B	≤ 15	≤ 2
C	All Other Results	All Other Results

3.5.2.3 Stockpiles containing **only** Recycled Materials

Case	% Soundness Loss (Mean)*	Plasticity Index (Mean)
A	NA	NA
B	≤ 15	≤ 4
C	All Other Results	All Other Results

* The GEB may waive Soundness Loss or Plasticity Index testing for Recycled Materials.

3.5.2.4 Stockpiles containing **BLENDS** of Crushed Ledgerock, Gravel or Crushed Gravel or Recycled Materials.

Case	% Soundness Loss (Mean)	Plasticity Index (Mean)
A	NA	NA
B	NA	NA
C	All Values	All Values

3.5.2.5 Stockpiles containing **MSES BACKFILL**.

Case*	% Soundness Loss (Mean)	Plasticity Index (Mean)
NA	NA	NA

* Case Criteria does not apply to MSES Backfill.

3.6 Case Designations

Note: Case Criteria and designations do not apply to MSES Backfill Material.

All sources providing material to Department contracts will be placed in one of the following case designations:

3.6.1 Case "A"

If **Case "A"** is assigned to a Source, the Magnesium Sulfate Soundness and Plasticity Index of the samples from subsequent stockpiles will be accepted on the basis of the 4 sample stockpile evaluation of the Source completed no longer than 12 months prior. Four samples will be collected in accordance with Section 2.4.2 D, "Sampling", and evaluated for Gradation by the RGE. Based on the test results, the RGE will Approve or Reject the stockpile

There will be no Case "A" course of action for stockpiles containing Recycled Materials.

3.6.2 Case "B"

If **Case "B"** is assigned to a Source, the Magnesium Sulfate Soundness and Plasticity Index of the samples from subsequent stockpiles will be accepted on the basis of the most recent evaluations of the Source. Four samples will be collected in accordance with Section 2.4.2 D, "Sampling", and evaluated for Gradation by the RGE. Based on the test results, the RGE will Approve or Reject the stockpile

In addition, a Monitoring Sample from each stockpile will be collected in accordance with Section 2.4.2 D, "Sampling", and forwarded to the GEB for evaluation. Results of tests conducted by the GEB on this sample will not necessarily affect the status of the stockpile from which it was obtained. However, based on the test results, the GEB may change the course of action for the next stockpiles (for example, from **Case "B"** to either **Case "A"** or **Case "C"**).

3.6.3 Case "C"

If **Case "C"** is assigned to a Source, four samples from subsequent stockpiles will be submitted to the GEB for Magnesium Sulfate Soundness, Plasticity Index, and Gradation testing.

4. NON-STOCKPILED MATERIAL

4.1 General

Materials which do not require stockpiling for assessment of one or more of the material's engineering properties (e.g. gradation, durability, pH, or plasticity, metals) will be evaluated according to the procedures of non-stockpiled materials in this manual. Sources for non-stockpiled materials generally consist of run-of-bank pits or borrow sites, quarries, storage piles, or surge piles consisting of natural and/or man-made materials.

Each year, a list of sources anticipated to be used for upcoming Department contracts shall be submitted by the RGE to the GEB for a determination of the number of samples that will be required for an evaluation. The GEB will return the list to the RGE and indicate the number of samples required to be forwarded to the GEB, General Soils Laboratory for testing.

Material from each Source will be evaluated for Magnesium Sulfate Soundness and Plasticity Index before it is allowed to supply material to Department contracts. The evaluation will be valid for a 12 month period unless, on the most recent *GRANULAR MATERIAL DOCUMENTATION FORM,* a more frequent monitoring cycle is set for the source.

Sources which are more than 30 days past due for evaluation or monitoring will be marked inactive within Site Manager for non-stockpiled material items with a Magnesium Sulfate Soundness or Plasticity Index requirement.

The gradation of the material is evaluated on the contract site by the project inspection personnel.

4.2 Sampling of Non-Stockpiled Material

The samples shall be obtained under the direction of the Departmental Geotechnical Engineer.

4.2.1 Sampling Procedure

A. *RESPONSIBILITY:* The RGE is responsible for sampling all sources.

B. *NOTIFICATION:* The Engineer will notify the RGE of their intent to use a source. If no valid source evaluation is available, a Departmental Geotechnical Engineer or Representative will sample the source within five work days of notification.

C. *PERSONNEL AND EQUIPMENT FOR SAMPLING:*
   1. A Departmental Geotechnical Engineer or Representative will direct all sampling operations.
   2. The Contractor/Supplier shall provide the personnel and equipment necessary to assist in sampling. If the Contractor/Supplier fails to provide the personnel and equipment necessary to assist in sampling in

accordance with this provision, the source will be rejected for use for non-stockpiled material with a Magnesium Sulfate Soundness or Plasticity Index requirement.

D. *SAMPLING:*

1. The number and depth of samples will be dependent upon the topography of the area, stratification of the deposit and quality of the material. Samples will be chosen to characterize the quantity of material required.

2. Within each sample location, the Contractor/Supplier shall:
   a. Remove all frozen material prior to sampling.
   b. Using a front-end loader of sufficient size, dig into the material to form a continuous slope that does not collapse and result in segregated material.
   c. The loader operator shall then channel the face vertically to represent the materials proposed for use.
   d. The bucket shall then be lowered to ground level and slowly emptied by rotation to form a small pile at each location.

3. Collect a sample from each small pile by following these steps:
   a. Visually divide the small pile into four equal quadrants. In each quadrant:
   b. Using a square-point shovel, grade the slope from top to bottom such that material does not collapse and result in segregation.
   c. Obtain a large shovelful of material by channeling up the length of the middle third of the slope. Place the material in an approved granular materials sample container

   Repeat **Steps 3.b** and **3.c** in all four quadrants to obtain one full sample.

   ***Note*:** The minimum sample size is 45 lbs. (20 kg). Generally, four large shovelfuls of material are adequate to attain this minimum. However, occasionally it may be necessary to repeat **Step 3.c** to assure the minimum sample weight has been collected.

   d. Place documentation containing sample information in a small plastic bag, and then place the bag into the sample container. The documentation should include:
      i. Source Name and GSN
      ii. Item Number(s)
      iii. Sample Number
      iv. Sample location
      v. Date
      vi. Sampler Name

vii. Any other pertinent information

e. Securely seal the sample container. Include a label, identifying the sample, on the outside of the sample container.

f. All samples shall be transported by a Departmental Geotechnical Engineer, or Representative, for testing and evaluation.

4.3 Sampling Options

4.3.1 Material from Test Pits

Non-stockpiled material obtained from test pits will be taken to represent the materials beyond the pit face proposed for use. Samples shall be submitted in accordance with Section 4.2. An excavator may be used to obtain samples from Test Pits.

4.3.2 Material Transported by Barge

Non-stockpiled material transported by barge shall be sampled in accordance with the requirements in Section 2.5.1.

4.3.3 Material for Temporary Use

Non-stockpiled material for Temporary Use shall be sampled in accordance with the requirements in Section 2.5.2.

4.3.4 Visual

A visual inspection may be used by a Departmental Geotechnical Engineer or Geologist for the evaluation of the Magnesium Sulfate Soundness for non-stockpiled material to be used as a construction lift, underwater fill or slope protection. A visual inspection may also be used by a Departmental Geotechnical Engineer for the evaluation of a storage pile of recycled material as required by the specification. The Engineer and RGE will receive a written evaluation of the material which will include any limiting conditions.

4.4 Documentation

The samples submitted to the GEB shall be noted on the *GRANULAR MATERIALS EVALUATION FORM*. Test results will be noted on the Form by the GEB and returned to the RGE.

The results of the evaluation of the source are indicated on the *GRANULAR MATERIAL DOCUMENTATION FORM,* which will be prepared by the RGE. The RGE will forward a copy of the *GRANULAR MATERIAL DOCUMENTATION FORM* to the Engineer and Contractor/Supplier.

4.5 Use of Source

Only material approved in writing shall be used. At all times the source of the material shall be stripped of all sod, topsoil and other objectionable material, for a minimum distance of 30 ft. (9 m) from the top of the working face. All removal of oversized material, blending, or crushing operations shall be completed at the source of the material. Gradation of the material will be tested by the Engineer in accordance with current Departmental procedures.

5. NON-STOCKPILED MATERIAL EVALUATION

5.1 General

Any required, non-stockpiled material samples obtained from a source will be tested and evaluated by the GEB.

Monitoring samples requested by the GEB may be obtained on the grade by the RGE or Engineer, or from the source by the RGE. In either case the RGE will forward the samples to the GEB, General Soils Laboratory.

A source evaluation for the Magnesium Sulfate Soundness and Plasticity Index requirements of non-stockpiled material will remain valid only as long as the monitoring samples indicate continuous compliance with the requirements in Section 5.2.

If required by the specification, a visual inspection of a storage pile of recycled material will be performed by the RGE.

5.2 Evaluation Criteria

The specification requirements are evaluated in accordance with the following criteria:

5.2.1 Magnesium Sulfate Soundness Loss

A. The mean soundness loss of the sample(s) submitted shall be within the specification limits.

B. In no case shall the maximum specification limit be exceeded by more than five (5).

5.2.2 Plasticity Index

A. The mean Plasticity Index of the sample(s) submitted shall be within the specification limits.

B. In no case shall the maximum specification limit be exceeded by more than 1.

5.2.3 Gradation

The gradation is evaluated by the Engineer and the material will be approved for gradation when the individual gradation test results meet the specification requirements for the item.

5.2.4 Visual

A storage pile of recycled material may be evaluated by the RGE and the material will be approved for use upon the RGE's determination that the material meets the specification requirements.

REFERENCES

1. NYSDOT - Test Method for Magnesium Sulfate Soundness of Granular Materials

2. NYSDOT - Test Method for Liquid Limit, Plastic Limit and Plasticity Index

3. NYSDOT - Test Method for The Grain-Size Analysis of Granular Soil Materials

4. NYSDOT - Inspection and Calibration of Soil Stabilization Plants

5. NYSDOT – Test Method for the Determination of pH Value of Soil or Water by pH Meter.

6. NYSDOT Standard Specifications

7. AASHTO T 288: Determining Minimum Laboratory Soil Resistivity.

8. AASHTO T 290: Standard Method of Test for Determining Water-Soluble Sulfate Ion Content in Soil.

9. AASHTO T 291: Standard Method of Test for Determining Water-Soluble Chloride Ion Content in Soil.

10. NYSDOT Materials Bureau Test Method 711-12C, Sulfide Content.

APPENDIX

NEW YORK STATE DEPARTMENT OF TRANSPORTATION

STOCKPILED MATERIAL SHIPMENT DOCUMENTATION

This is to certify that NYSDOT-approved material was shipped to the following:

DATE	CONTRACT NO. (if applicable)	ITEM NO. (if applicable)	STOCKPILE NO.	QTY. SHIPPED (yd^3)	
				DOT	Non-DOT

SUPPLIER NAME: ________________________________ GEB SOURCE # ____________________________

SUPPLIER ADDRESS:____

SIGNED BY: ____DATE: ___________________________________

PRINTED NAME:____

HERITAGE POINT SITE
BCP SITE #C915347

New Enterprise - Item 304.12 Stone Subbase

Load #	Date	Ticket #	Description	Wt (Per load) tons	Running Total Wt (Tons)
1	7/27/2022	50250846	STONE, 2" CRUSHER RUN	20.72	20.72
2	7/27/2022	50250852	STONE, 2" CRUSHER RUN	20.77	41.49
3	7/27/2022	50250853	STONE, 2" CRUSHER RUN	21.23	62.72
4	7/27/2022	50250869	STONE, 2" CRUSHER RUN	20.91	83.63
5	7/27/2022	50250885	STONE, 2" CRUSHER RUN	21.18	104.81
6	7/27/2022	50250903	STONE, 2" CRUSHER RUN	20.35	125.16
7	7/27/2022	50250906	STONE, 2" CRUSHER RUN	22.70	147.86
8	7/27/2022	50250909	STONE, 2" CRUSHER RUN	21.01	168.87
9	7/27/2022	50250953	STONE, 2" CRUSHER RUN	21.53	190.40
10	7/27/2022	50250959	STONE, 2" CRUSHER RUN	21.21	211.61
11	7/27/2022	50250962	STONE, 2" CRUSHER RUN	20.07	231.68
12	7/28/2022	50251001	STONE, 2" CRUSHER RUN	20.26	251.94
13	7/28/2022	50251005	STONE, 2" CRUSHER RUN	19.34	271.28
14	7/28/2022	50251008	STONE, 2" CRUSHER RUN	21.87	293.15
15	7/28/2022	50251010	STONE, 2" CRUSHER RUN	21.63	314.78
16	7/28/2022	50251011	STONE, 2" CRUSHER RUN	21.32	336.10
17	7/28/2022	50251012	STONE, 2" CRUSHER RUN	20.86	356.96
18	7/28/2022	50251041	STONE, 2" CRUSHER RUN	21.90	378.86
19	7/28/2022	50251044	STONE, 2" CRUSHER RUN	20.57	399.43
20	7/28/2022	50251046	STONE, 2" CRUSHER RUN	20.36	419.79
21	7/28/2022	50251049	STONE, 2" CRUSHER RUN	18.45	438.24
22	7/28/2022	50251051	STONE, 2" CRUSHER RUN	20.45	458.69
23	7/28/2022	50251052	STONE, 2" CRUSHER RUN	21.68	480.37
24	7/28/2022	50251081	STONE, 2" CRUSHER RUN	21.84	502.21
25	7/28/2022	50251086	STONE, 2" CRUSHER RUN	21.60	523.81
26	7/28/2022	50251091	STONE, 2" CRUSHER RUN	20.98	544.79
27	7/28/2022	50251093	STONE, 2" CRUSHER RUN	20.90	565.69
28	7/28/2022	50251098	STONE, 2" CRUSHER RUN	20.94	586.63
29	7/28/2022	50251102	STONE, 2" CRUSHER RUN	19.99	606.62
30	7/28/2022	50251118	STONE, 2" CRUSHER RUN	22.32	628.94
31	7/28/2022	50251123	STONE, 2" CRUSHER RUN	20.42	649.36
32	7/28/2022	50251126	STONE, 2" CRUSHER RUN	20.94	670.30
33	7/28/2022	50251127	STONE, 2" CRUSHER RUN	19.78	690.08
34	7/28/2022	50251139	STONE, 2" CRUSHER RUN	20.64	710.72
35	7/28/2022	50251141	STONE, 2" CRUSHER RUN	20.94	731.66
36	7/28/2022	50251161	STONE, 2" CRUSHER RUN	20.71	752.37
37	7/28/2022	50251165	STONE, 2" CRUSHER RUN	21.78	774.15
38	7/28/2022	50251175	STONE, 2" CRUSHER RUN	20.45	794.60
39	7/28/2022	50251182	STONE, 2" CRUSHER RUN	21.81	816.41
40	7/28/2022	50251196	STONE, 2" CRUSHER RUN	20.64	837.05
41	7/28/2022	50251210	STONE, 2" CRUSHER RUN	20.90	857.95
42	7/28/2022	50251216	STONE, 2" CRUSHER RUN	13.60	871.55
43	7/28/2022	50251223	STONE, 2" CRUSHER RUN	20.56	892.11
44	7/28/2022	50251237	STONE, 2" CRUSHER RUN	20.93	913.04
45	7/28/2022	50251243	STONE, 2" CRUSHER RUN	21.79	934.83
46	7/28/2022	50251253	STONE, 2" CRUSHER RUN	20.74	955.57
47	7/28/2022	50251261	STONE, 2" CRUSHER RUN	20.83	976.40
48	7/28/2022	50251266	STONE, 2" CRUSHER RUN	21.36	997.76
49	8/4/2022	50252531	STONE, 2" CRUSHER RUN	21.61	1019.37
50	8/4/2022	50252532	STONE, 2" CRUSHER RUN	21	1040.37
51	8/4/2022	50252534	STONE, 2" CRUSHER RUN	21.06	1061.43
52	8/4/2022	50252536	STONE, 2" CRUSHER RUN	20.68	1082.11
53	8/4/2022	50252556	STONE, 2" CRUSHER RUN	23.81	1105.92
54	8/4/2022	50252558	STONE, 2" CRUSHER RUN	22.12	1128.04
55	8/9/2022	50253449	STONE, 2" CRUSHER RUN	20.71	1148.75
56	8/9/2022	50253476	STONE, 2" CRUSHER RUN	22.21	1170.96
57	8/9/2022	50253480	STONE, 2" CRUSHER RUN	20.16	1191.12
58	8/9/2022	50253487	STONE, 2" CRUSHER RUN	19.89	1211.01
59	8/9/2022	50253491	STONE, 2" CRUSHER RUN	20.37	1231.38
60	8/9/2022	50253504	STONE, 2" CRUSHER RUN	20.43	1251.81
61	8/9/2022	50253513	STONE, 2" CRUSHER RUN	23.5	1275.31
62	8/9/2022	50253521	STONE, 2" CRUSHER RUN	20.35	1295.66
63	8/9/2022	50253524	STONE, 2" CRUSHER RUN	19.58	1315.24
64	8/9/2002	50253527	STONE, 2" CRUSHER RUN	21.21	1336.45
65	8/9/2022	50253533	STONE, 2" CRUSHER RUN	20.68	1357.13
66	8/9/2022	50253536	STONE, 2" CRUSHER RUN	19.93	1377.06
67	8/10/2022	50253648	STONE, 2" CRUSHER RUN	21.11	1398.17
68	8/10/2022	50253657	STONE, 2" CRUSHER RUN	20.65	1418.82
69	8/10/2022	50253683	STONE, 2" CRUSHER RUN	21.39	1440.21
70	8/10/2022	50253689	STONE, 2" CRUSHER RUN	20.49	1460.70
71	8/10/2022	50253729	STONE, 2" CRUSHER RUN	20.64	1481.34
72	8/10/2022	50253731	STONE, 2" CRUSHER RUN	21.22	1502.56
73	8/10/2022	50253762	STONE, 2" CRUSHER RUN	19.61	1522.17
74	8/10/2022	50253770	STONE, 2" CRUSHER RUN	20.87	1543.04
75	8/10/2022	50253812	STONE, 2" CRUSHER RUN	20.41	1563.45
76	8/10/2022	50253815	STONE, 2" CRUSHER RUN	20.37	1583.82
77	8/11/2022	50254047	STONE, 2" CRUSHER RUN	20.93	1604.75
78	8/11/2022	50254057	STONE, 2" CRUSHER RUN	20.01	1624.76
79	8/11/2022	50254058	STONE, 2" CRUSHER RUN	20.3	1645.06
80	8/11/2022	50254107	STONE, 2" CRUSHER RUN	21.54	1666.60
81	8/11/2022	50254115	STONE, 2" CRUSHER RUN	21.35	1687.95
82	8/12/2022	50254191	STONE, 2" CRUSHER RUN	20.92	1708.87
83	8/12/2022	50254198	STONE, 2" CRUSHER RUN	20.91	1729.78
84	8/12/2022	50254227	STONE, 2" CRUSHER RUN	20.37	1750.15
85	8/12/2022	50254228	STONE, 2" CRUSHER RUN	20.17	1770.32
86	8/12/2022	50254267	STONE, 2" CRUSHER RUN	20.73	1791.05
87	8/12/2022	50254272	STONE, 2" CRUSHER RUN	19.64	1810.69
88	8/12/2022	50254307	STONE, 2" CRUSHER RUN	18.01	1828.70
89	8/12/2022	50254308	STONE, 2" CRUSHER RUN	20.19	1848.89
90	8/12/2022	50254340	STONE, 2" CRUSHER RUN	20.68	1869.57
91	8/12/2022	50254341	STONE, 2" CRUSHER RUN	20.85	1890.42
92	8/13/2022	50254374	STONE, 2" CRUSHER RUN	20.73	1911.15
93	8/13/2022	50254375	STONE, 2" CRUSHER RUN	20.54	1931.69
94	8/13/2022	50254376	STONE, 2" CRUSHER RUN	20.04	1951.73
95	8/13/2022	50254377	STONE, 2" CRUSHER RUN	19.44	1971.17
96	8/13/2022	50254378	STONE, 2" CRUSHER RUN	20.19	1991.36
97	8/13/2022	50254380	STONE, 2" CRUSHER RUN	19.63	2010.99
98	8/13/2022	50254382	STONE, 2" CRUSHER RUN	20.49	2031.48
99	8/13/2022	50254405	STONE, 2" CRUSHER RUN	20.11	2051.59
100	8/13/2022	50254407	STONE, 2" CRUSHER RUN	21.61	2073.20
101	8/13/2022	50254408	STONE, 2" CRUSHER RUN	22.14	2095.34
102	8/13/2022	50254409	STONE, 2" CRUSHER RUN	22.69	2118.03
103	8/13/2022	50254412	STONE, 2" CRUSHER RUN	21.8	2139.83
104	8/13/2022	50254416	STONE, 2" CRUSHER RUN	21.69	2161.52
105	8/13/2022	50254438	STONE, 2" CRUSHER RUN	20.3	2181.82
106	8/13/2022	50254439	STONE, 2" CRUSHER RUN	20.13	2201.95
107	8/13/2022	50254440	STONE, 2" CRUSHER RUN	20.13	2222.08
108	8/13/2022	50254441	STONE, 2" CRUSHER RUN	20.08	2242.16
109	8/13/2022	50254443	STONE, 2" CRUSHER RUN	20.93	2263.09
110	8/13/2022	50254445	STONE, 2" CRUSHER RUN	21.54	2284.63
111	8/13/2022	50254467	STONE, 2" CRUSHER RUN	19.78	2304.41
112	8/13/2022	50254470	STONE, 2" CRUSHER RUN	19.9	2324.31
113	8/13/2022	50254472	STONE, 2" CRUSHER RUN	20.49	2344.80
114	8/13/2022	50254473	STONE, 2" CRUSHER RUN	20	2364.80
115	8/13/2022	50254474	STONE, 2" CRUSHER RUN	20.8	2385.60
116	8/13/2022	50254478	STONE, 2" CRUSHER RUN	21.24	2406.84
117	8/13/2022	50254499	STONE, 2" CRUSHER RUN	22.02	2428.86
118	8/13/2022	50254500	STONE, 2" CRUSHER RUN	21.12	2449.98
119	8/13/2022	50254503	STONE, 2" CRUSHER RUN	20.99	2470.97
120	8/13/2022	50254505	STONE, 2" CRUSHER RUN	21.48	2492.45

New Enterprise - Item 304.12 Stone Subbase

Load #	Date	Ticket #	Description	Wt (Per load) tons	Running Total Wt (Tons)
121	8/13/2022	50254507	STONE, 2" CRUSHER RUN	20.41	2512.86
122	8/15/2022	50254529	STONE, 2" CRUSHER RUN	21.05	2533.91
123	8/15/2022	50254531	STONE, 2" CRUSHER RUN	20.73	2554.64
124	8/15/2022	50254538	STONE, 2" CRUSHER RUN	20.58	2575.22
125	8/15/2022	50254539	STONE, 2" CRUSHER RUN	19.27	2594.49
126	8/15/2022	50254542	STONE, 2" CRUSHER RUN	19.89	2614.38
127	8/15/2022	50254543	STONE, 2" CRUSHER RUN	20.4	2634.78
128	8/15/2022	50254546	STONE, 2" CRUSHER RUN	20.31	2655.09
129	8/15/2022	50254553	STONE, 2" CRUSHER RUN	18.9	2673.99
130	8/15/2022	50254561	STONE, 2" CRUSHER RUN	19.59	2693.58
131	8/15/2022	50254565	STONE, 2" CRUSHER RUN	20.33	2713.91
132	8/15/2022	50254569	STONE, 2" CRUSHER RUN	21.21	2735.12
133	8/15/2022	50254571	STONE, 2" CRUSHER RUN	21.56	2756.68
134	8/15/2022	50254573	STONE, 2" CRUSHER RUN	18.7	2775.38
135	8/15/2022	50254579	STONE, 2" CRUSHER RUN	21.52	2796.90
136	8/15/2022	50254584	STONE, 2" CRUSHER RUN	19.86	2816.76
137	8/15/2022	50254596	STONE, 2" CRUSHER RUN	21.09	2837.85
138	8/15/2022	50254599	STONE, 2" CRUSHER RUN	20.16	2858.01
139	8/15/2022	50254603	STONE, 2" CRUSHER RUN	21.41	2879.42
140	8/15/2022	50254605	STONE, 2" CRUSHER RUN	21.3	2900.72
141	8/15/2022	50254611	STONE, 2" CRUSHER RUN	20.69	2921.41
142	8/15/2022	50254613	STONE, 2" CRUSHER RUN	20.56	2941.97
143	8/15/2022	50254616	STONE, 2" CRUSHER RUN	19.99	2961.96
144	8/15/2022	50254618	STONE, 2" CRUSHER RUN	21.31	2983.27
145	8/15/2022	50254620	STONE, 2" CRUSHER RUN	20.63	3003.90
146	8/15/2022	50254621	STONE, 2" CRUSHER RUN	21.2	3025.10
147	8/15/2022	50254622	STONE, 2" CRUSHER RUN	21.68	3046.78
148	8/15/2022	50254628	STONE, 2" CRUSHER RUN	20.88	3067.66
149	8/15/2022	50254630	STONE, 2" CRUSHER RUN	19.8	3087.46
150	8/15/2022	50254636	STONE, 2" CRUSHER RUN	19.41	3106.87
151	8/15/2022	50254640	STONE, 2" CRUSHER RUN	21.42	3128.29
152	8/15/2022	50254643	STONE, 2" CRUSHER RUN	20.57	3148.86
153	8/15/2022	50254645	STONE, 2" CRUSHER RUN	21.47	3170.33
154	8/15/2022	50254649	STONE, 2" CRUSHER RUN	21.59	3191.92