SOIL AND GROUNDWATER MANAGEMENT PLAN

SUB-AREA I
BROOKS LANDING URBAN RENEWAL DISTRICT
ROCHESTER, NEW YORK

AUGUST 2003

Prepared For:

CITY OF ROCHESTER
DIVISION OF ENVIRONMENTAL QUALITY
30 CHURCH STREET, ROOM 300 B
ROCHESTER, NEW YORK 14614

Prepared By:

SEAR-BROWN
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August 25, 2003

Mr. Joseph Biondolillo
City of Rochester
Division of Environmental Quality
30 Church Street, Room 300B
Rochester, New York 14614-1278

RE: Soil and Groundwater Management Plan **16835.11**
Sub-Area I
Brooks Landing Urban Renewal District
Rochester, New York

Dear Joe:

Sear-Brown is pleased to submit this Soil and Groundwater Management Plan (2 copies) for Sub-Area I located in the Brooks Landing Urban Renewal District.

Should you have any questions or require further information, please do not hesitate to call.

Sincerely,

K. Meyer for

Michael P. Storonsky
Senior Associate

Kevin D. Ignaszak, P.E.
Environmental Engineering Manager

Enclosure

c: Rick Rynski, REDCO, w/enclosure
Ronald A. Christenson, Christenson Corporation, w/enclosure
Paul Colucci, Costich Engineering, w/enclosure
Peter Miller, NYSDEC, w/enclosure
Joseph Albert, MCDOH, w/enclosure
Pete Dawes, Rochester Gas and Electric, w/enclosure

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1.0 Introduction

1.1 Purpose

This Soil Management Plan (SMP) has been developed at the request of the City of Rochester and pertains to the eight properties collectively identified as Sub-Area I of the Brooks Landing Urban Renewal District in the City of Rochester, New York (Figure 1). It has been developed to assist the City, developers and designers in planning for development, monitoring, management and characterization of impacted fill materials and groundwater that may be encountered during subsurface activities that will occur during development. At this time, the proposed development is to include a 5 story, 103 room hotel, a one story restaurant, a parking garage situated below the hotel, utility realignments and surface level parking lots and landscaped areas.

New York State Department of Environmental Conservation (NYSDEC) regulations require management of hazardous and non-hazardous solid waste as contained in 6 NYCRR Parts 371-376 and 6 NYCRR Part 360, respectively. Proper management will require that care be taken in planning, monitoring and characterizing the soil/fill materials and water to confirm their non-hazardous status and allow for proper off-site disposal or relocation on-site. This SMP provides guidance for planning and performing such monitoring, testing and management of excavated soil/fill materials or groundwater that may be encountered within Sub-Area I (hereto referred to as the Site).

1.2 Background

The Site is an approximate +/- 4.14 acre parcel of land which consists of 8 contiguous vacant and commercial tax parcels located at Genesee Street and Brooks Avenue in the City of Rochester, New York. A site plan of Sub-Area I is presented as Figure 2. A summary of each parcel's Tax ID number, street address, size, zoning and use is listed below.

Tax ID #	Address	Size (sq.ft.)	Zoning	Use
135.34-3-22	972 Genesee Street	8,535	Commercial	vacant, unimproved
135.34-3-23	15 Brooks Avenue	6,849	Residential	vacant, unimproved
135.34-3-24	998 Genesee Street	4,386	Commercial	NET office
135.42-2-1	1004 Genesee Street	3,376	Commercial	parking lot
135.42-2-2	1008 Genesee Street	6,620	Residential	vacant, unimproved

135.35-1-88 (part of only)	1315 South Plymouth Avenue	92,106 (part only)		Open Space
135.51-1-1 (part of only)	150 Elmwood Avenue	592,415 (part of only)		Open Space
135.35-1-16	1400 South Plymouth Avenue	Not Available		Open Space

Sear-Brown initially prepared a Phase I Environmental Site Assessment (ESA) in conformance with ASTM E 1527-00 Standard Practice for Environmental Site Assessments (ESAs): Phase I Environmental Site Assessment Process in September 2002, on the first five of the properties comprising the Site listed above.

Based upon the recognized environmental conditions in connection with the Site, the following recommendations were made:

- Given the proposed change in ownership, the inactivated spill file that exists for 972 Genesee Street and 15 Brooks Avenue (herein after collectively referred to as 972 Genesee Street), the inability to account for the removal of all the underground storage tanks (USTs) at 972 Genesee Street, the historical auto repair activities at 972 Genesee Street, the absence of any known investigation beneath the former building floor, the discontinuation of the pump and treat and soil venting systems in the former UST area at 972 Genesee Street with little improvement after the first six months of operation, and the available information which suggests that a source of off-site contamination from the adjacent upgradient property to the west (Brooks Auto Parts) may be impacting this parcel, it was recommended that further investigation involving soil borings, groundwater monitoring wells and associated soil and groundwater sampling be conducted on the 972 Genesee Street parcel. Prior to conducting that subsurface investigation, given the use of 972 Genesee Street as a gasoline station for over sixty years, and the uncertainty regarding the precise locations of historic tank fields and pump islands, it was recommended that a geophysical survey be performed to evaluate the potential presence of abandoned USTs or other underground structures such as distribution piping, drywells or hydraulic lifts that may present a site contamination concern;

- Given that railroad spurs traversed 15 Brooks Avenue and 1008 Genesee Avenue from approximately the 1890s to the 1970s and given that these parcels are gravel and/or grass-covered lots, it was recommended that a subsurface investigation program and associated soil sampling program be conducted to evaluate the potential presence of residual railroad related impacts;

- Based on the historical presence of an automobile repair shop and an automobile machine shop at 998 Genesee Street, USTs may have been installed at this parcel. There is also a potential that releases from the automotive repair operations may have impacted the site. Therefore, it was recommended that a geophysical survey be performed to evaluate the potential presence of abandoned tanks or other subsurface structures that may present a site contamination concern. It was further recommended that a subsurface investigation be performed to evaluate potential impacts from historic on-site operations; and

- If removal, demolition or maintenance of suspect ACBMs is planned in the future, it was recommended that the materials be sampled and analyzed for asbestos content at that time. If they are asbestos-containing (greater than one percent asbestos), or if they are assumed to be asbestos-containing, then abatement of these materials (repair, enclosure, encapsulation, or removal and disposal) prior to its disturbance should be supervised by a licensed asbestos contractor in accordance with state and federal regulations in effect at that time.

To address the concerns identified above with the five properties, Sear-Brown completed a Phase II Environmental Investigation which included the following field activities: a geophysical survey to search for USTs; a test pit program to investigate major geophysical anomalies; an Earthprobe® soil boring and soil sampling program to evaluate on-site soil conditions; groundwater monitoring well installations and groundwater sampling; and a limited survey of groundwater monitoring well head elevations. These tasks were summarized in Sear-Brown's December 11, 2002 Phase II Environmental Investigation Report.

The results from the Phase II Environmental Investigation identified the following environmental concerns:

- A geophysical survey and subsequent test pit investigation identified several buried pipes (e.g., vent pipes and gasoline distribution piping) associated with former USTs present on the 972 Genesee Street property. It was recommended that the buried pipes associated with the former USTs, and any associated affected soils be removed and properly disposed off-site.

- An estimated 335 cubic yards of black carbon fill located behind the NET building on the 1008 Genesee Street property and extending to the north onto 15 Brooks Avenue, appears to comprise an isolated source of solvent-related (trichloroethene with lower concentrations of cis-1,2-dichloroethene) volatile organic compound (VOC) contamination. Three of the six samples from this black carbon fill subjected to TCLP analyses exceed USEPA/NYSDEC hazardous waste regulatory thresholds for trichloroethene. It was recommended that a source removal program be undertaken to properly remove and dispose of the black carbon fill. If this material is disturbed, some

of the black carbon fill may have to be disposed of as a characteristic hazardous waste depending upon TCLP test results.

- Chlorinated VOC contamination (trichloroethene and cis-1,2-dichloroethene) is present in the groundwater beneath the 998 and 1008 Genesee Street properties. These groundwater impacts appear to be related to the above referenced carbon fill. The easterly extent (i.e., toward the proposed Brooks Landing Hotel and restaurant and the Genesee River) of the chlorinated VOC impacts to groundwater has not been identified. It was recommended that additional investigation be conducted to evaluate the potential easterly extent of the chlorinated VOC impacts to groundwater. Contingent on the extent and magnitude of the chlorinated VOC plume, the extent to which the previously recommended source removal activities are successful in reducing the chlorinated VOC concentrations in groundwater, and the requirements of the regulatory agencies, remediation of the chlorinated VOCs in groundwater may be required. In addition, as a precautionary measure, it was recommended that provisions be made for the incorporation of a sub-slab vapor suppression system into the design and construction of the new restaurant to minimize the potential for infiltration of vapors.

- Elevated VOC contamination related to residual petroleum in soils has been documented at a depth near and below the water table (approximately 13-15 feet below ground surface) beneath a portion of the 972 Genesee Street property and 15 Brooks Avenue properties. This contamination appears to be related to historic underground storage tanks and is centered around soil boring GP-1 (monitoring well PZ-1). Prior source removal activities by the historic owner appear to have removed most of the impacted soil in the vadose zone. A Soil Management Plan was recommended to address any residual soil or groundwater contamination that may be encountered during construction activities as a result of the former underground storage tanks, fuel pumps and the associated piping.

- Residual petroleum product, determined to be gasoline by TPH analyses, was observed floating on or near the water table at the PZ-1 monitoring well location on the 972 Genesee Street property. The thickness of the floating product is uncertain due to apparent emulsification that renders the base of the product poorly defined. It was recommended that the floating product be removed and properly disposed off-site.

- Petroleum-related groundwater contamination was observed at the 972 Genesee Street and 15 Brooks Avenue properties. This contamination appears to be emanating from the PZ-1 – PZ-17 area. The extent of the petroleum groundwater impacts to the east has been confirmed to extend across the 1315 South Plymouth Avenue and 150 Elmwood Avenue parcels.

To evaluate the potential remedial cost associated with the environmental concerns identified during the Phase I ESA and Phase II Environmental Investigation, Sear-Brown completed an evaluation of potential remedial options for the Site considering the proposed future developments. Our findings were summarized in a December 11, 2002 Evaluation of Remedial Options and Opinion of Probable Cost letter.

In November 2002, Sear-Brown completed a Phase I ESA of twenty-three parcels within the Brooks Landing Urban Renewal District which included the remaining three properties comprising Sub-Area I: 1315 South Plymouth Avenue, 150 Elmwood Avenue and 1400 South Plymouth Avenue.

In May 2003, Sear-Brown completed a Phase II Environmental Investigation which included these three properties. The scope of the Phase II Investigation was based on the findings and recommendations contained in the Phase I ESA.

Based upon the evidence of recognized environmental conditions (RECs) noted during the Phase I ESA, the following recommendations were made for Sub-Area I as denoted by bullets and italics. The Phase II investigation tasks that were completed to evaluate these RECs and the findings of those investigations are as follows:

- *Contingent on the outcome of the ongoing Phase II investigation at 972 Genesee Street and 15 Brooks Avenue, additional investigation may be warranted on the 1315 South Plymouth Avenue parcel.*

  The Phase II investigation at the upgradient 972 Genesee Street, 15 Brooks Avenue and adjoining 998 and 1008 Genesee Street parcels confirmed the presence of both soil and groundwater impacts by petroleum and chlorinated solvents. Five soil borings were completed with monitoring wells on the 150 Elmwood Avenue property. The results of soil and groundwater sampling confirmed that a plume of both petroleum and chlorinated VOC-impacted groundwater extends from the upgradient source areas eastward across the 1315 South Plymouth Avenue and 150 Elmwood Avenue parcels.

  Based upon the findings of a trichloroethylene (TCE)-impacted black carbon fill deposit on the 1008 Genesee Street and 15 Brooks Avenue properties, which has been removed as part of a DEC approved Corrective Action Plan, an additional 47 soil borings were installed in several phases on the 1315 South Plymouth Avenue/150 Elmwood Avenue parcels to investigate the composition of fill materials. The initial soil investigation involving 30 borings revealed the presence of a second large deposit of black carbon fill beneath the southern portion of Sub-Area I. The deposit is estimated to contain 1,890 cubic yards of material. Laboratory analyses of six samples of the black carbon did not yield detectable concentrations of any volatile organic compounds.

The initial soil boring program also confirmed the presence of a shallow cinder-rich, granular fill beneath the 1315 South Plymouth Avenue and 150 Elmwood Avenue parcels in Sub-Area I in the general vicinity of the former railroad tracks. These materials were the subject of a supplemental program involving 17 additional borings. The fill deposit within Sub-Area I is estimated to contain 7,400 cubic yards of fill material. At one location, boring B159, a 0.3 foot thick petroleum-impacted tar deposit was encountered embedded within the granular fill deposit.

Laboratory analysis of three initial samples of the cinder-rich granular fill material from Sub-Area I yielded one sample, B124, with substantially elevated levels of SVBNs. In order to verify the elevated SVBNs, a confirmatory sample, B124R, was collected and submitted to a different laboratory. The supplemental results generally confirmed the initial elevated SVBN concentrations. Based upon the analytical data compiled as part of the initial soil boring program, a link between the elevated SVBN levels and heavy petroleum products was theorized. Based on that working hypothesis, additional laboratory analyses for TPH, SVBNs, VOCs and PCBs were conducted in conjunction with the supplemental investigation involving 17 soil borings. TPH results revealed the presence of lube oil and mineral spirits in one granular fill sample and lube oil in a second sample. Thus, a link between elevated SVBN levels and petroleum hydrocarbons appears to have been confirmed.

A sample of the 0.3 foot thick tar layer identified at the boring B159 location yielded elevated levels of both petroleum-related VOCs and SVBNs. In addition, a substantial concentration of kerosene was reported to be present in the tar sample.

Neither the granular fill samples nor the tar sample collected and analyzed as part of the supplemental soil boring program contained detectable levels of PCBs.

In addition to the petroleum related VOC and SVBN findings, elevated arsenic and mercury concentrations were identified in the granular fill deposits. As a result, a supplemental sample of the fill material was subsequently collected to evaluate if these metals were hazardous. TCLP analyses indicated that the mercury and arsenic levels in the suspected railroad-related fill materials are not a characteristic hazardous waste for metals.

- *Given the inability to account for the removal of all the USTs at 973-985 Genesee Street, and the historical auto repair and gasoline service station activities at 973-985 Genesee Street, it was recommended that a subsurface investigation be performed on the 973-985 Genesee Street property. Alternatively, if access to this parcel can not be obtained, the recommended investigation should be performed along the right-of-way on Brooks Avenue*

and Genesee Street to evaluate potential impacts from historic on-site operations.

Access to this privately-owned parcel was not obtained. A limited subsurface investigation of the adjacent 973-985 Genesee Street parcel involved the installation of two soil borings that were completed with groundwater monitoring wells in the ROW along the west side of Genesee Street. Two soil and two groundwater samples were analyzed for volatile organic compounds. The results of the soil and groundwater sampling confirm the presence of petroleum-impacted soil and groundwater beneath the right-of-way along the western side of Genesee Street. Based upon available water level data, it appears that these petroleum impacts are attributable to a potential source on the 973-985 Genesee Street parcel. The impact of this potential off-Site source of petroleum upon the Site has not been completely defined.

1.3 Completed Remedial Actions

Corrective Action Plan–972, 998, 1004 & 1008 Genesee St. & 15 Brooks Ave.

Sear-Brown was retained by Rochester Economic Development Corporation (REDCO) to prepare a Corrective Action Plan (CAP) for the remediation of five parcels, 972, 998, 1004, and 1008 Genesee Street, and 15 Brooks Avenue comprising the northwest portion of Sub-Area I.

The objective of the CAP was to describe the planned remedial activities that will be performed at the Site including:

- Excavation and off-Site disposal of chlorinated volatile organic compound (VOC) impacted carbon fill;
- Application of Hydrogen Release Compound (HRC™) to the VOC impacted groundwater through trench excavations; and
- Removal of the floating residual petroleum product and former fuel supply line piping.

The CAP was submitted to NYSDEC in February 2003 and subsequently accepted on May 30, 2003.

The CAP involved implementation of the following activities during May, June and July of 2003:

1. Site Preparation Activities including:

    - Contractor Health and Safety Plan preparation;
    - Pre-remediation test pits;
    - Tree clearing and removal;
    - Equipment decontamination area construction;

- Impacted soil staging area construction;
- Temporary perimeter, excavation, and staged soil pile fencing installation;
- Storm water management (silt fence installation); and
  - Removal of existing chain link fencing.

2. Removal of former fuel supply line piping including:

   - Excavation, segregation and staging of clean soils overlying or adjacent to former fuel supply line piping;
   - Excavation, segregation, staging, transportation, and disposal of VOC impacted soils, and fuel supply line piping;
   - Visual and quantitative field screening of soil with a PID for the presence of volatile organic constituents during excavation; and
   - Backfilling of the excavation area with staged and imported soils.

3. Removal of the floating residual petroleum product and groundwater including:

   - Installation of 3 extraction wells;
   - Extraction of floating product and dissolved phase VOCs in groundwater with vacuum truck (3 events, one per month, currently 2 events have been completed);
   - Quarterly groundwater sampling/analysis/reporting for one year; and
   - Decommissioning of 4 extraction wells after quarterly groundwater sampling for one year is complete.

4. Excavation and Off-Site Disposal of Chlorinated VOC Impacted Carbon Fill including:

   - Decommissioning of select monitoring wells located in proposed excavation areas;
   - Relocation of electrical, cable and telephone supply to the NET building;
   - Excavation, segregation and staging of 1,000 cy of clean soils overlying or adjacent to VOC impacted carbon fill;
   - Excavation, segregation and staging of 850 cy of VOC impacted carbon fill (i.e. source removal);
   - Visual and quantitative field screening of soil with a photoionization detector (PID) for the presence of VOCs during excavation;
   - Collection of confirmatory soil samples for laboratory analysis;
   - Transportation and disposal of 1,040 tons of VOC impacted carbon fill.

5. Application of HRC™ to the VOC Impacted Groundwater Through Trench Excavations including:

- Excavation of two trenches from the bottom of the VOC impacted carbon fill to two feet below the groundwater table;
- Visual and quantitative field screening of soil with a PID for the presence of volatile organic constituents during excavation;
- HRC™ application;
- Backfilling of the trench excavations and VOC impacted carbon fill excavation area with 1,850 cy of staged and/or imported soils;
- Installation of 3 groundwater monitoring wells;
- Quarterly groundwater sampling/analysis/reporting for one year; and
- Decommissioning of 3 groundwater monitoring wells after quarterly groundwater sampling for one year is complete.

The generation of a Remedial Construction Report with a request for a No Further Action letter and spill file inactivation from the NYSDEC will be completed after the completion of the removal of the floating residual petroleum product and groundwater (anticipated early fall 2003).

2.0 Development and Pre-Excavation Planning

2.1 Existing Information

Site development and excavation planning will need to incorporate information from the previous investigations, documented subsurface contamination, and the intended location of proposed construction/development. Site development and excavation planning activities will require environmental review prior to issuance of any City permit. Once the Soil and Groundwater Management Plan has been approved by the NYSDEC, the Site will be flagged for review by the City's Division of Environmental Quality in the City of Rochester Building Information System (BIS) in order to protect potential developers and establish proper management of construction activities prior to their commencement. This flagging provides an institutional control mechanism. Further information regarding the BIS flagging system is provided in Section 7.0 of this report.

Copies of select figures, summary tables of field screening, soil and groundwater analytical results, etc. from the Phase II Investigation conducted on the Site are attached to this SMP. Copies of the select test pit and soil boring logs for the Site are presented in Appendix A.

Copies of "Advanced" drawings from Costich Engineering concerning the proposed development of the Site including a Site Plan; Utility Plan; Grading and Erosion Control Plan; and a Site Plan (with modifications made by Sear-Brown on 7/31/03 to reflect environmental issues) are also attached.

In addition, copies of "Preliminary" drawings from the Rochester, Gas and Electric Corporation concerning the proposed realignment of the natural gas and electric conduits on the Site are also included herein.

General Subsurface Conditions

Test borings on the subject property revealed the presence of two predominant types of fill material overlying native soils. The two predominant fill types are referred to in this report as a granular, cinder-rich fill and black carbon fill. The granular fill is a surficial unit that overlies either black carbon deposits or native soils. Both fill materials are suspected to be related to historical railroad operations.

<u>Granular Fill</u>

The surficial granular fill horizon consists primarily of orange-brown sand mixed with cinder and brick. The sandy, granular fill ranges in thickness from less than 1 foot to approximately 12 feet. The ash, cinder and brick content appears to be concentrated within a thinner zone in the granular fill profile. Based upon visual characteristics and PID readings, this zone appeared to represent a potential

environmental concern with respect to metals, semi-volatile organic compounds and localized volatile organic compounds. An isopach map of the cinder-rich zone within the thicker granular fill profile is provided.

Black Carbon Fill

The second predominant fill material is situated beneath surficial granular fill deposits under the southern portion of the 1315 South Plymouth Avenue/150 Elmwood Avenue parcels. This second type of fill consists of a distinctive, black carbon. The material is visually similar to the carbon deposit identified farther north on the 1008 Genesee Street and 15 Brooks Avenue properties. An isopach map of the southerly carbon deposit and its relationship to the previously identified deposit (subsequently remediated) and proposed site buildings and features is provided.

In addition to the two predominant fill types, a black tar was found embedded within the granular fill material in boring B159 at a depth of 4.2 to 4.5 feet below ground surface. This tar yielded an elevated headspace reading and a petroleum odor.

Native Soil

Native soils consist of a stratified sequence of orange-brown to brown sand, silt and clay. The deposits appear to have been deposited in a lacustrine (lake) environment near the western fringe of the Cobbs Hill/Mount Hope Cemetary morainal complex.

Groundwater

Groundwater conditions beneath the subject properties are documented only beneath the northern portions of Sub-Area I. Water level measurements collected on March 18, 2003 from the wells (PZ-100 through PZ-103, PZ-152), located at 150 Elmwood Avenue in the vicinity of the proposed restaurant and hotel, indicate that the depth to the water table is on the order of two to three feet below ground surface during late winter conditions.

Water level measurements also indicate that hydraulic gradients flatten considerably from west to east across the northern half of Sub-Area I. Hydraulic gradients on the 972 Genesee Street and 15 Brooks Avenue parcels are on the order of 0.10 to 0.15 foot/foot for groundwater flow directed eastward. The average hydraulic conductivity of the native soils beneath these sites was calculated to be 7.5×10^{-4} cm/s. Assuming a 20 percent porosity for these sediments, the average linear velocity of groundwater flow was estimated to be in the range of 300 to 600 feet per year.

It was noted in the December 11, 2002 Phase II Investigation Report for the Five Parcels inclusive of the 972 Genesee Street and Brooks Avenue parcels that local

sewers could be influencing local groundwater flow directions and velocities. Sear-Brown hypothesized that east of the ring of sewers around the aforementioned properties, hydraulic gradients could flatten considerably and that groundwater flow velocities would decrease commensurately. Water level data collected from the northern end of the 1315 South Plymouth Avenue and 150 Elmwood Avenue parcels appear to verify the hypothesis. Water table elevations calculated from measurements made in five wells on these properties fall within the narrow range between 515.04 and 515.21. Hydraulic gradients flatten to approximately 0.006. The lower hydraulic gradient translates to flow velocities on the order of 18 to 24 feet per year in an eastward direction toward the Genesee River.

Field Screening of Soils

Extensive, documented PID headspace readings are available for this Site. This information is summarized in the attached Sear-Brown tables:

Table Title	
Table 1	Summary of PID Headspace Readings (ppm)
Table 1A	Summary of Peak PID Headspace Readings (ppm)
Table 1A	Summary of PID Headspace Readings (ppm): Sub-Area I

PID headspace readings are also presented on the Drawings and the test pit and boring logs presented in Appendix A.

Soil Analytical Data

The soil analytical results are summarized in the following Sear-Brown tables:

Table Title	
Table 2	Soil Sample Summary
Table 8	Summary of TCL/STARS Volatile Organic Compounds in Soil (ug/kg)
Table 9	Summary of STARS Semi-Volatile Base Neutral Compounds in Soil (ug/kg)
Table 10	Summary of PCBs, Herbicides, and Total Petroleum Hydrocarbons in Soil (mg/kg)
Table 11	Summary of 8 RCRA Metals in Soil (mg/kg)
Table 14	Summary of TCLP VOC Results (ug/L)
Table 2A	Soil Sample Summary: Sub-Area I
Table 7A	Summary of TCL/STARS Volatile Organic Compounds in Soil (µg/kg): Sub-Area I

Table 8A	Summary of Semi-Volatile Base-Neutral Compounds in Soil (µg/kg): Sub-Area I
Table 9A	Summary of RCRA Metals in Soil (mg/kg): Sub-Area I
Table 10A	Summary of TCLP Arsenic and Mercury Results (mg/l): Sub-Area I
Table 11A	Summary of PCBs and Herbicides in Soil (mg/kg): Sub-Area I
Table 12A	Summary of TPH in Granular Fill (mg/kg)

Laboratory analysis of confirmatory soil samples collected as part of the CAP (described in Section 1.3) indicated that a majority of the chlorinated VOC impacted black carbon fill had been removed. Only one confirmatory floor sample, CF-18R-Floor, exhibited a trichloroethene concentration above the NYSDEC TAGM 4046 soil cleanup objective of 700 ug/kg with a value of 1,350 ug/kg. This sample was obtained at a depth of 9.5 feet below grade and was within the backfill materials above the sanitary sewer. The final report concerning the CAP is currently being generated.

Three soil samples collected from the surficial granular fill deposit at the PZ-101, PZ-102 and PZ-103 locations on the 1315 South Plymouth Avenue/150 Elmwood Avenue parcels yielded low levels of chlorinated VOCs. In addition, petroleum-related aromatic hydrocarbons were reported in three samples of the surficial granular fill. In all cases except one, boring B165, reported concentrations of chlorinated VOCs and petroleum-related VOCs were below the NYSDEC Recommended Cleanup Objectives. In the case of the sample from boring B165, one petroleum-related VOC (naphthalene) was present at a concentration higher than its respective soil cleanup objective.

Laboratory analysis of three initial samples of the cinder-rich granular fill material from Sub-Area I yielded one sample, B124, with substantially elevated levels of SVBNs. In order to verify the elevated SVBNs, a confirmatory sample, B124R, was collected and submitted to a different laboratory. The supplemental results generally confirmed the initial elevated SVBN concentrations. Based upon the analytical data compiled as part of the initial soil boring program, a link between the elevated SVBN levels and heavy petroleum products was theorized. Based on that working hypothesis, additional laboratory analyses for TPH, SVBNs, VOCs and PCBs were conducted in conjunction with the supplemental investigation involving 17 soil borings. TPH results revealed the presence of lube oil and mineral spirits in one granular fill sample and lube oil in a second sample. Thus, a like between elevated SVBN levels and petroleum hydrocarbons appears to have been confirmed.

A sample of the 0.3 foot thick tar layer identified at the boring B159 location yielded elevated levels of both petroleum-related VOCs and SVBNs. In addition, a substantial concentration of kerosene was reported to be present in the tar sample.

Neither the granular fill samples nor the tar sample collected and analyzed as part of the supplemental soil boring program contained detectable levels of PCBs.

In addition to the petroleum related VOC and SVBN findings, elevated arsenic and mercury concentrations were identified in the granular fill deposits. As a result, a supplemental sample of the fill material was subsequently collected to evaluate if these metals were hazardous. TCLP analyses indicated that the mercury and arsenic levels in the suspected railroad-related fill materials are not a characteristic hazardous waste for metals.

Groundwater Analytical Data

The groundwater analytical results are summarized in the following Sear-Brown tables:

Table Title

Table 3	Well Completion Summary
Table 4	Well Development Summary
Table 5	Water Level Summary
Table 6	Groundwater Sample Summary
Table 7	Hydraulic Conductivity Summary
Table 12	Summary of TCL/STARS Volatile Organic Compounds in Groundwater (ug/L)
Table 13	Summary of STARS Semi-Volatile Base Neutral Compounds and Total Petroleum Hydrocarbons in Groundwater (ug/L)
Table 3A	Well Completion Summary: Sub-Area I
Table 4A	Well Development Summary: Sub-Area I
Table 5A	Water Level Summary: Sub-Area I
Table 6A	Groundwater Sample Summary: Sub-Area I
Table 13A	Summary of TCL/STARS Volatile Organic Compounds in Groundwater (ug/L): Sub-Area I

Given the documented petroleum and chlorinated solvent impacts upgradient of the subject property, five groundwater samples from the combined 1315 South Plymouth Avenue/150 Elmwood Avenue parcels were collected and analyzed for TCL/STARS VOCs by EPA Method 8260. Groundwater samples were collected from wells PZ-100, PZ-101, PZ-102, PZ-103 and PZ-152.

Chlorinated VOC Plume

Chlorinated VOCs were detected in four of the five groundwater samples analyzed. Only PZ-100 was reported to be free of chlorinated VOCs. The reported TCE concentrations from these five wells were integrated with previous data from wells on the 972 Genesee Street, 998 Genesee Street, and 1008 Genesee Street parcels to generate a contour plot of TCE concentrations in groundwater. The TCE contour plot depicts a single plume that extends from the northerly, TCE containing black carbon fill deposit for approximately 150 to 180 feet easterly across both the 1315 South Plymouth Avenue and 150 Elwood Avenue parcels. The width of the TCE plume appears to be fully delineated based upon

the absence of VOCs in PZ-100 and the low concentration of TCE (3.01 ug/L) reported from PZ-152. On the basis of these data, the TCE plume appears to be on the order of 150 feet wide.

Aromatic VOCs and MTBE Plumes

The gasoline additive MTBE, was also detected in all five groundwater samples analyzed from the 150 Elmwood parcel. The reported concentrations of petroleum-related VOCs from the 972 Genesee Street and 15 Brooks Avenue sites were used in conjunction with the data from the five wells on the 150 Elmwood Avenue site to generate a contour plot of petroleum-related aromatic hydrocarbons concentrations in groundwater in Sub-Area I (EN6). The contours reflect the total detectable concentrations of all petroleum-related VOCs except for MTBE. A plot of MTBE concentrations in groundwater is provided separately in Drawing EN7. Both plots depict an extension of the plume that emanates from the source area on the Genesee Street parcels (former gasoline station) and extends across the subject parcels. Log-scale interpolation of data between wells PZ-18 and PZ-101 suggests potential encroachment of aromatic hydrocarbons onto the 150 Elmwood Avenue property to a distance of approximately 60 feet southeast of PZ-18. Nonetheless, the total concentrations of the aromatic hydrocarbons in wells installed within the proposed footprints of the restaurant and hotel buildings on the 1315 South Plymouth Avenue and 150 Elmwood parcels were all below the detection limits. Petroleum-impacts in groundwater within the two building footprints appear to be limited to MTBE.

The MTBE impacts on the 150 Elmwood Avenue property extend to the eastern boundary of the investigation area. Thus, the MTBE plume appears to extend a distance of approximately 120 feet from the suspected residual source area near PZ-18.

The width of the MTBE plume is constrained by the low level concentrations reported from wells PZ-100 to the north and PZ-152 to the south. Based upon these data, the width of the MTBE plume is approximately 150 feet with the most elevated concentrations (i.e. greater than 100 ug/L) limited to a 40 foot wide zone on the 150 Elmwood Avenue parcel.

2.2 Construction/Design Considerations

The May 2003 Phase II Environmental Investigation has shown that the fill materials present at the Site consist of non-hazardous solid waste. More specifically, the subject property contains fill impacted by VOCs, SVOCs, TPH, arsenic, selenium and mercury. The subject property also contains groundwater impacted by VOCs. The possibility that hazardous materials exist on Site cannot be ruled out. Any waste material that is excavated during construction or Site development must therefore be properly characterized and managed. The development process can be simplified by pre-planning how the fill will be handled during necessary excavation and construction.

If hazardous waste is encountered as part of the excavation program, it cannot be replaced on the Site and must be properly characterized, managed and disposed of off-site at a permitted facility. Management of impacted materials is discussed in Section 6.0 of this SMP.

As the project progresses, developers and design engineers for the planned development will need to consider that the following construction elements may be affected by soil/fill management and waste characterization:

- Schedules: Scheduling of construction will need to allow for management of waste fill material that is excavated during the course of construction. Should unanticipated materials or conditions be observed during excavation work, sampling may be required. Sampling will entail laboratory analysis, which typically takes from several days to several weeks to be completed. Therefore, construction schedules and design plans should allow for adequate flexibility for sampling, segregation, and temporary stockpiling of unanticipated materials on-site.

- Fill and Subsurface Variability: Construction schedules should also provide both contingency time and measures to address variability in fill conditions and the presence of groundwater. For example if hazardous conditions are encountered, additional safety measures and use of personal protection gear may be required. Excavation dewatering and work stoppage could also affect construction schedules and costs.

Measures designed to address these situations are described in further detail in Sections 3.0, 4.0 and 5.0 of this SMP.

3.0 Soil-Fill Characterization

3.1 Pre-Construction Sampling

Sufficient data are available at this time such that it does not appear necessary to perform additional soil/fill sampling prior to construction activities. In general, soil borings completed on the Site appear to provide sufficient coverage in anticipation of development. However, if there are areas of excavation that are not near the previous investigation locations pre-construction sampling is recommended. In such cases, pre-construction sampling frequency and analyses would vary based upon the location of proposed work in relation to characterized areas, quantities of material to be encountered, and anticipated use/disposal of removed materials.

3.2 Construction Sampling

Sampling of excavated fill or subsurface materials during construction efforts should be considered if either of the following conditions are encountered:

- If conditions during construction are significantly different than those observed during pre-construction exploration, including unusual odors or visual observations such as stained soils, drums, containers, etc.; or

- If concerns such as sheens or free-product are identified within soil or groundwater.

In these situations, sampling frequency and analyses would vary based on the types and quantities of material encountered and anticipated use/disposal of removed materials. Analysis must adequately characterize materials in light of current NYSDEC TAGM 4046 guidance value and/or permitted disposal facility requirements, depending on intended destination of materials.

Typical waste disposal analyses are:

- Full Toxicity Characteristic Leaching Procedure (TCLP) VOCs,
- Full TCLP SVOCs,
- Full TCLP Metals,
- PCBs, Pesticides and Herbicides,
- Ignitability,
- Reactivity,
- Modified Paint Filter Test, and
- pH.

4.0 Groundwater Characterization

4.1 Pre-Construction Sampling

Sufficient data are available at this time such that it does not appear necessary to perform additional groundwater sampling prior to construction activities. Monitoring wells have been installed on the northern half of the subject property and appear to provide sufficient coverage for the portion of the Site affected by the petroleum and chlorinated solvent plumes. If excavation activities are proposed on the southern half of the subject propert and are expected to extend to the depth of the water table, pre-construction sampling is recommended. In such cases, pre-construction sampling frequency and analyses would vary based on the location of proposed work in relation to the characterized areas and on the anticipated quantity and handling of groundwater (see also Appendix B, Sewer Use Permit Information).

4.2 Construction Sampling

Sampling of groundwater during construction efforts should be considered if either of the following conditions are encountered:

- If conditions during construction are significantly different than those observed during pre-construction exploration, including unusual odors or visual observations such as stained soils, drums, containers, etc.; or

- If concerns such as sheens or free-product are identified within soil or groundwater.

In these situations, sampling frequency and analyses would vary based on the condition and quantity of groundwater encountered and handling options. In order to obtain approval to discharge potentially impacted groundwater to the Monroe County sewer system, the typical analyses that may be required are identified in Appendix B (Sewer Use Permit Information).

5.0 Monitoring During Excavation

Monitoring of materials encountered during construction is generally needed for three purposes:

- To protect the health and safety of Site workers during construction;
- To determine that soil/fill materials and groundwater are consistent with pre-construction characterization; or
- If no pre-construction characterization was performed.

5.1 Health and Safety Monitoring

Past investigations have shown that fill materials will be encountered during construction activities. Based on the historical uses of the Site, hazardous materials may potentially be encountered. These include materials that could be associated with the fill as well as materials that may be present in groundwater.

General groups of chemicals that are associated with the fill and are considered as potentially hazardous materials subject to health and safety planning include:

- Volatile organic compounds (VOCs) – gasoline and chlorinated solvent related;
- Semi-volatile organic compounds (SVOCs)- these include polycyclic aromatic hydrocarbons (PAHs) which commonly result from the incomplete combustion of organic matter including fossil fuels, such as coal or fuel oil, and are often found in ash, cinders and soot, and coal tar pitch; and
- Metals - Review of the RCRA metals analysis revealed that arsenic, selenium and mercury were found in some samples at concentrations higher than NYSDEC recommended soil cleanup objectives and the Eastern USA Background Range.

VOCs are also associated with the groundwater and are considered potentially hazardous materials subject to health and safety planning.

Health and safety planning should also give consideration to other construction-related issues, such as use of heavy equipment, weather conditions, confined space entry, excavation safety and other construction-related OSHA regulations.

Health and safety planning should be performed prior to construction activities. This should include the preparation of a written Health and Safety Plan (HASP) for construction activities. The HASP would be based on the results of the previous chemical analyses, information specific to the proposed development, specific construction tasks to be completed and the potential for exposure of Site workers to the Site contaminants.

The use of OSHA-trained hazardous waste site workers during earthwork activities should be considered. Previous investigations show that overall, the potential for worker exposure exists, but is relatively low. However, all contractors and developers involved in earth moving and excavation activities should consider the need for health and safety planning relative to their specific tasks and planned activities.

5.2 Soil/Fill/Groundwater Monitoring

Monitoring of soil and fill materials that are excavated and groundwater that is pumped during construction should be performed for two reasons:

- To determine that the material encountered during construction is consistent with the material encountered during previous investigations; and

- To allow characterization of the non-hazardous or hazardous nature of material encountered in the event that no previous investigation results are available for a specific area.

Monitoring should generally consist of documentation of visible characteristics of the soil, fill and groundwater encountered, including obvious staining, sheens, odors, or other indicators of contamination such as oils, tars or containers. It is recommended that construction monitoring by a trained individual such as an environmental engineer, scientist, or geologist be performed during all earth moving, excavation and groundwater work.

Several portable monitoring instruments are available to assist in field monitoring of materials. Such instruments are primarily used for detection of volatile organic compounds or dust and particulates. Since volatile organics and metals have been detected in the past at the Site, this type of instrumentation is appropriate for construction excavation monitoring. Types of instruments available for this purpose include:

- Photoionization detector instruments (PID) - these instruments operate by pumping a sample of ambient air into a chamber where the air is ionized using a light source of specific energy (either 10.2, 10.6, or 11.7 eV). Such instruments are manufactured by HNu and Microtip.

- Flame ionization detector instruments (FID) - these instruments operate on a similar principle as the PIDs; however, ionization is caused by a flame produced by combusting hydrogen. The OVA manufactured by Foxboro is such an instrument.

- Colorimetric tubes - these are small glass tubes which contain chemical salts formulated to react with specific volatile and some non-volatile compounds. A sample of air is drawn through a tube with the use of a hand pump. The

presence of the target chemical causes a reaction and a color change to the chemical salts in the tube. The Draeger Tube system is such an instrument.

- Combustible gas meters/gas monitors – these instruments are capable of measuring combustible gases such as methane and hydrogen sulfide and would be used during construction activities if large amounts of organic materials such as railroad timbers or peat are encountered.

- Dust/Particulate Meters – these instruments are capable of measuring dust and particulates in ambient air. An example of an aerosol monitor is the MIE PDE-1000.

These types of instruments are readily available in the Rochester area and can be rented or purchased from several sources. However, these instruments should be operated by individuals trained and experienced in their use, limitations and capability for data generation. Readings generated from monitoring instruments should be recorded in the field along with visual observations. As long as excavation monitoring shows soil, fill, and groundwater material to be consistent with previous investigations, then the material should be manageable as determined prior to construction. If conditions are different from those anticipated, then sampling and additional characterization may be necessary.

6.0 Management of Impacted Material

At this time, there is no preferred method for the management of soil/fill excavated during construction activities. In general, it is recommended that non-hazardous soil/fill excavated during grading foundation work, utility trenching work and other earth moving activities, if permitted and in accordance with regulations, be reused on-site covered with either clean soil or an impervious surface, or be hauled off-Site to a properly licensed and permitted facility. However, if hazardous wastes are encountered, they cannot be reused on-site and will need to be disposed properly at an approved, off-Site facility.

If groundwater is pumped at the Site, a temporary sewer use permit is required for sewer disposal from the Monroe County Department of Environmental Services (MCDES) – Division of Pure Waters (DPW). The required information to be supplied to the MCDES-DPW is included in Appendix B.

6.1 On-Site Re-Use of Excavated Materials

Impacted materials that will be re-used on-Site will need to be segregated based upon field screening, previous investigation findings, and/or additional pre-construction and/or construction sampling and analyses. The analysis results will be compared to NYSDEC TAGM 4046 recommended soil cleanup objectives. If concentrations are below TAGM 4046 recommended soil cleanup objectives, the soil can be reused on-Site without restriction. If the concentrations are elevated above TAGM 4046 soil cleanup objectives, the results shall be shared with the NYSDEC and approval obtained prior to their specified reuse on-Site. It should be noted the NYSDEC may require the highly impacted materials to be transported off-Site and disposed of at a permitted landfill facility. Impacted materials that are determined acceptable for re-use on-Site to backfill excavations should be covered with clean soil or an impervious surface. Staging and stockpiling management of materials should be conducted as described in the sections below.

6.2 Off-Site Disposal of Excavated Materials

Management of materials that will be disposed off-site will need to include characterization (sampling and laboratory analysis as required by the chosen landfill), management, and off-site transportation and disposal at an approved landfill. Appropriate measures for management of excavated materials will need to include temporarily stockpiling excavated soils and solids, as well as measures to prevent them from contaminating other materials or migrating off-site. Measures that should be incorporated into such plans include:

- Stockpile locations away from storm sewers, downwind property boundaries, and drainage courses;
- Dust suppression techniques, as necessary;

- Placement of stockpiles of contaminated soils, fill or hazardous materials (e.g. drums, containers, odiferous fill) on 6-mil polyethylene (poly) with perimeter berms; and
- Covering stockpiles of contaminated soils, fill, or hazardous materials (e.g. drums, containers, odiferous fill) with weighted down poly at the end of each day of placement to prevent migration by wind-blown dust or stormwater runoff until final placement and final cover is established.

6.3 Off-Site Disposal of Impacted Water

Management of water will include characterization (sampling and laboratory analysis as required by the MCDES-DPW), management, and pumping to the Monroe County sewer system. Appropriate measures for management of water will need to include temporary containerization and measures to prevent water from contaminating other materials or migrating off-site. Measures that should be incorporated into such plans include:

- Containerize water prior to pumping off-site;
- Stage containers away from downwind property boundaries and drainage sources;
- Pump water directly into containers;
- Perform necessary sampling prior to disposal; and
- Coordinate with MCDES-DPW to receive permission for disposal.

The sewer use permit information is included in Appendix B.

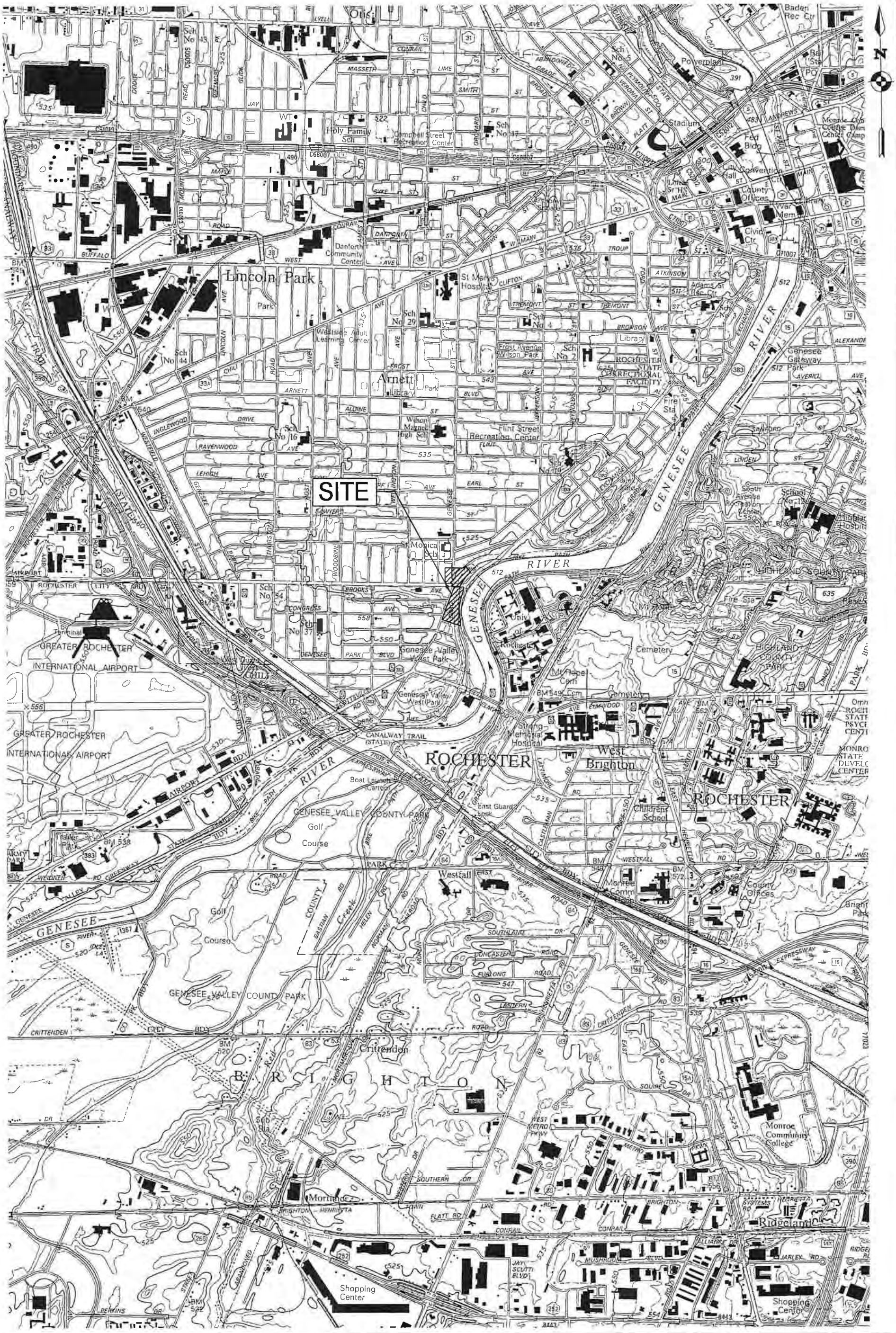
7.0 Flagging System

The City of Rochester has established a procedure for "flagging" the tax account numbers of properties that require special environmental reviews as a result of hazardous waste or hazardous substance contamination. The reviews are conducted as referrals to the City's Division of Environmental Quality (DEQ) for any permit applications for properties where soil management plans or environmental contingency plans need to be established and followed during construction activities.

Once the Soil and Groundwater Management Plan is approved by the NYSDEC, the City will "flag" the parcels that comprise the Site and they will be subject to a special environmental review prior to issuance of a permit. A special notation will be added to the City's mainframe computer database of property information for the following tax account numbers:

Tax ID #	Address	Size (sq.ft.)	Zoning	Use
135.34-3-22	972 Genesee Street	8,535	Commercial	vacant, unimproved
135.34-3-23	15 Brooks Avenue	6,849	Residential	vacant, unimproved
135.34-3-24	998 Genesee Street	4,386	Commercial	NET office
135.42-2-1	1004 Genesee Street	3,376	Commercial	parking lot
135.42-2-2	1008 Genesee Street	6,620	Residential	vacant, unimproved
135.35-1-88 (part of only)	1315 South Plymouth Avenue	92,106 (part only)		Open Space
135.51-1-1 (part of only)	150 Elmwood Avenue	592,415 (part of only)		Open Space
135.35-1-16	1400 South Plymouth Avenue	Not Available		Open Space

The notation will appear as a "flag" to City staff that receive various building and site preparation permit applications. The flag will require a referral to the City's DEQ before the application can be processed for approval. DEQ staff will review the permit application for consistency with the Soil Management Plan, limited-use areas and land-use restrictions. A notification to the NYSDEC can be included at the time the permit is reviewed if warranted given the scope of the proposed work and other Site-specific factors.



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PROJECT
BROOKS LANDING
URBAN RENEWAL DISTRICT
ROCHESTER, NEW YORK

TITLE OF DRAWING
SITE LOCATION MAP

PROJECT NO.
16835.11

DRAWING NO.
FIG. 1

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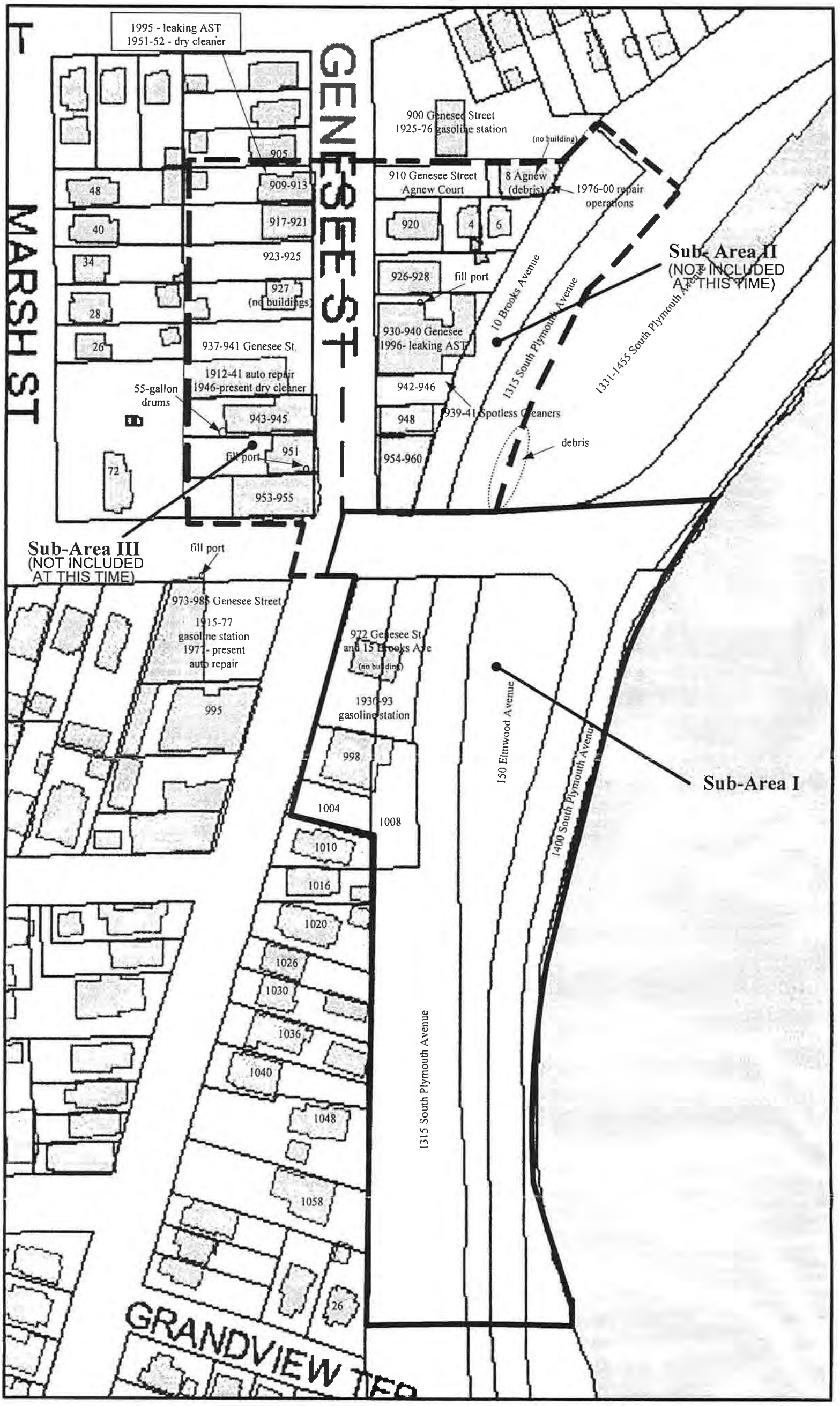

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PROJECT
BROOKS LANDING
URBAN RENEWAL DISTRICT
ROCHESTER, NEW YORK

TITLE OF DRAWING
SITE PLAN OF SUB-AREA I

PROJECT NO.
16835.11

DRAWING NO.
FIGURE
2

m:\jobs\16835111\civil\Supplemental Work 7-31-03\figure2.dwg

88' of 72" CIRCULAR BRICK

41' of 72" R.C.P.

88' of 72" R.C.P.

BROOKS AVE. (66' ROW)

N

TP-1

TP-2

354' of 72" R.C.P.

141' of 24" VIT

LOT 22

TP-3

LOT 23

GENESEE STREET (66' ROW)

TP-4

TP-5

238' of 24" VIT

TP-6

60 " SANITARY FORCEMAIN

NET BLDG.

LOT 24

TP-7

TP-7A

354' of 72" R.C.P.

TP-8

TP-9

LOT 1

LOT 3

LOT 2

0 30 60 90

SCALE IN FEET
APPROXIMATE

PROJECT ENGINEER/ARCHITECT: K. MILLER
PROJECT MANAGER: M. STORONSKY
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PROJECT: BROOKS LANDING

TITLE OF DRAWING: TEST PIT LOCATION MAP

PROJECT NO. 16835.07

DRAWING NO. 3

SHEET OF

88' of 72" CIRCULAR BRICK

88' of 72" R.C.P.

41' of 72" R.C.P.

BROOKS AVE. (66' ROW)

354' of 72" R.C.P.

GENESEE STREET (66' ROW)

354' of 72" R.C.P.

MW-5

GP-3

LOT 22
(972 GENESEE ST.)

141' of 24" VT

LOT 23
(15 BROOKS AVE.)

GP-13

GP-4/PZ-4

GP-18

MW-4

GP-15

GP-5/PZ-5

GP-10

GP-14/PZ-14

GP-16/PZ-16

MANHOLE
RW

GP-1/PZ-1

238' of 24" VT

GP-2/PZ-2

MW-1

PZ-18

GP-17/PZ-17

GP-39

GP-35

GP-34

GP-38

GP-46

GP-37

66" SANITARY FORCEMAIN

GP-33

GP-32

PZ-21

GP-9

GP-27

GP-36

NET BLDG.

GP-25

GP-11

GP-26

LOT 24
(998 GENESEE ST.)

GP-24

GP-7/PZ-7

GP-30

PZ-19

GP-47

GP-23

GP-22

GP-31

PZ-20

GP-29

GP-28

GP-41

GP-40

GP-42

GP-8

GP-45

GP-43

LOT 1 (1004 GENESEE ST.)

GP-44

FENCE

GP-6

LOT 3

LOT 2
(1008 GENESEE ST.)

GP-12

NOTE: PORTIONS OF THIS AREA REMEDIATED DURING CAP REMEDIAL ACTIONS (MAY-JUNE 2003)

N

0 30 60 90

SCALE IN FEET
APPROXIMATE

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PROJECT: BROOKS LANDING

TITLE OF DRAWING: GRANULAR FILL ISOPACH (ft)

PROJECT NO. 16835.07

DRAWING NO. 5

SHEET OF

88' of 72" CIRCULAR BRICK

88' of 72" R.C.P.

41' of 72" R.C.P.

BROOKS AVE. (66' ROW)

354' of 72" R.C.P.

GENESEE STREET (66' ROW)

354' of 72" R.C.P.

141' of 24" VT

238' of 24" VT

60" SANITARY FORCEMAIN

FENCE

N

MW-5

GP-3

GP-13

LOT 22
(972 GENESEE ST.)

LOT 23
(15 BROOKS AVE.)

GP-4/PZ-4

GP-18

MW-4

GP-15

GP-5/PZ-5

GP-10

GP-14/PZ-14

GP-16/PZ-16

MANHOLE

RW

GP-1/PZ-1

GP-2/PZ-2

MW-1

PZ-18

GP-17/PZ-17

GP-39

GP-35

GP-34

GP-38

GP-46

GP-33

GP-37

GP-32

PZ-21

GP-9

GP-27

GP-36

NET BLDG.

GP-25

GP-11

GP-26

LOT 24
(998 GENESEE ST.)

GP-24

GP-7/PZ-7

GP-30

GP-23

PZ-19

GP-47

GP-22

GP-31

GP-29

GP-28

PZ-20

GP-41

GP-40

GP-42

GP-8

GP-45

GP-43

LOT 1 (1004 GENESEE ST.)

GP-44

GP-6

LOT 3

LOT 2
(1008 GENESEE ST.)

GP-12

NOTE: PORTIONS OF THIS AREA REMEDIATED DURING CAP REMEDIAL ACTIONS (MAY-JUNE 2003)

0 30 60 90

SCALE IN FEET
APPROXIMATE

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PROJECT: BROOKS LANDING

TITLE OF DRAWING: PEAK PID READINGS (10.2 ev) 0-4' bgs

PROJECT NO. 16835.07

DRAWING NO. 7

SHEET OF

88' of 72" CIRCULAR BRICK

88' of 72" R.C.P.

41' of 72" R.C.P.

BROOKS AVE. (66' ROW)

N

354' of 72" R.C.P.

GENESEE STREET (66' ROW)

MW-5

GP-3

GP-13

141' of 24" VT

LOT 22
(972 GENESEE ST.)

LOT 23
(15 BROOKS AVE.)

GP-4/PZ-4

GP-18

MW-4

GP-15

GP-5/PZ-5

GP-10

GP-14/PZ-14

GP-16/PZ-16

MANHOLE

RW

238' of 24" VT

GP-1/PZ-1

GP-2/PZ-2

MW-1

PZ-18

GP-17/PZ-17

GP-39

GP-35

GP-34

GP-38

GP-46

GP-33

GP-37

GP-32

60" SANITARY FORCEMAIN

PZ-21

GP-9

GP-27

GP-36

NET BLDG.

GP-25

GP-11

GP-26

LOT 24
(998 GENESEE ST.)

GP-24

GP-7/PZ-7

GP-30

GP-23

PZ-19

GP-47

GP-22

GP-31

GP-28

GP-29

PZ-20

GP-41

GP-40

GP-42

GP-8

GP-45

GP-43

LOT 1 (1004 GENESEE ST.)

GP-44

FENCE

GP-6

LOT 3

LOT 2
(1008 GENESEE ST.)

GP-12

NOTE: PORTIONS OF THIS AREA REMEDIATED DURING CAP REMEDIAL ACTIONS (MAY-JUNE 2003)

0 30 60 90

SCALE IN FEET
APPROXIMATE

PROJECT ENGINEER/ARCHITECT: K. MILLER
PROJECT MANAGER: M. STORONSKY
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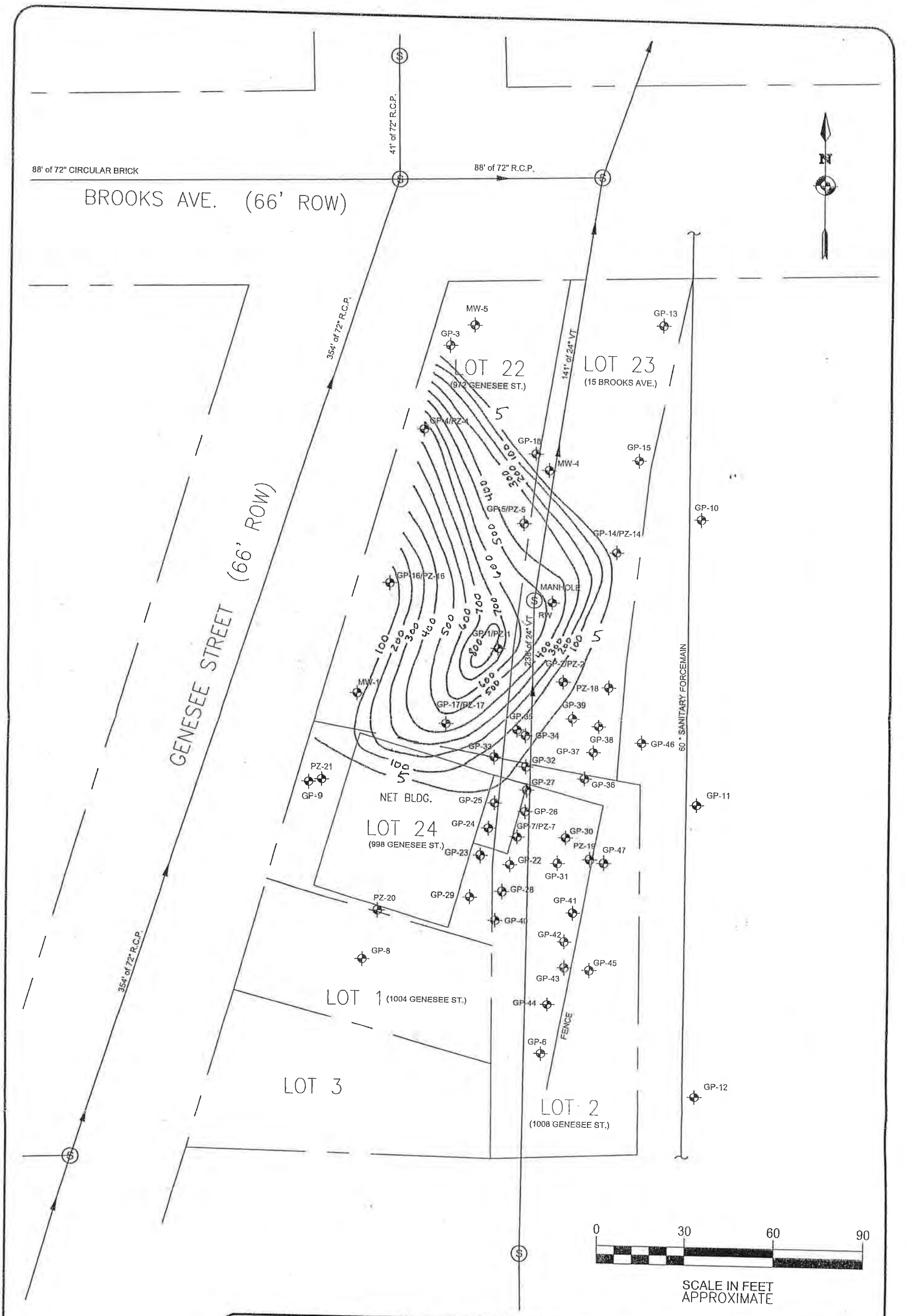
PROJECT: BROOKS LANDING

TITLE OF DRAWING: PEAK PID READINGS (10.2 ev) 4-8' bgs

PROJECT NO. 16835.07

DRAWING NO. 8

SHEET OF



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PROJECT: BROOKS LANDING
TITLE OF DRAWING: PEAK PID READINGS (10.2 ev) 8-12' bgs
PROJECT NO. 16835.07
DRAWING NO. 9
SHEET OF

88' of 72" CIRCULAR BRICK

88' of 72" R.C.P.

41' of 72" R.C.P.

BROOKS AVE. (66' ROW)

N

354' of 72" R.C.P.

GENESEE STREET (66' ROW)

MW-5

GP-3

GP-13

141' of 24" VT

LOT 22
(972 GENESEE ST.)

LOT 23
(15 BROOKS AVE.)

GP-4/PZ-4

GP-18

GP-15

MW-4

GP-5/PZ-5

GP-10

GP-14/PZ-14

GP-16/PZ-16

100
200
300
400
500
600
700

MANHOLE

RIM

GP-1/PZ-1

238' of 24" VT

GP-2/PZ-2

MW-1

PZ-18

GP-17/PZ-17

GP-39

GP-35

GP-34

GP-38

GP-46

GP-33

GP-37

GP-32

PZ-21

GP-9

GP-27

GP-36

NET BLDG.

GP-25

GP-11

GP-26

LOT 24
(998 GENESEE ST.)

GP-24

GP-7/PZ-7

GP-30

PZ-19

GP-47

GP-23

GP-22

GP-31

PZ-20

GP-29

GP-28

GP-41

GP-40

GP-42

GP-8

GP-45

GP-43

LOT 1 (1004 GENESEE ST.)

GP-44

FENCE

GP-6

60" SANITARY FORCEMAIN

LOT 3

LOT 2
(1008 GENESEE ST.)

GP-12

0 30 60 90

SCALE IN FEET
APPROXIMATE

PROJECT ENGINEER/ARCHITECT: K. MILLER
PROJECT MANAGER: M. STORONSKY
DRAWN BY: A. LESS
SCALE: 1" = 30' APPROX.
FIRST ISSUE DATE:

SEAR·BROWN
85 Metro Park
Rochester, N.Y. 14623-2674
(585) 475-1440
Fax: (585) 272-1814
www.searbrown.com

PROJECT: BROOKS LANDING

TITLE OF DRAWING: PEAK PID READINGS (10.2ev) 12-16' bgs

PROJECT NO. 16835.07

DRAWING NO. 10

SHEET OF

88' of 72" CIRCULAR BRICK

88' of 72" R.C.P.

41' of 72" R.C.P.

BROOKS AVE. (66' ROW)

354' of 72" R.C.P.

141' of 24" VT

238' of 24" VT

GENESEE STREET (66' ROW)

354' of 72" R.C.P.

60" SANITARY FORCEMAIN

FENCE

MW-1 MW-4 MW-5

GP-1/PZ-1 GP-2/PZ-2 GP-3 GP-4/PZ-4 GP-5/PZ-5 GP-6 GP-7/PZ-7 GP-8 GP-9 GP-10 GP-11 GP-12 GP-13 GP-14/PZ-14 GP-15 GP-16/PZ-16 GP-17/PZ-17 GP-18 GP-22 GP-23 GP-24 GP-25 GP-26 GP-27 GP-28 GP-29 GP-30 GP-31 GP-32 GP-33 GP-34 GP-35 GP-36 GP-37 GP-38 GP-39 GP-40 GP-41 GP-42 GP-43 GP-44 GP-45 GP-46 GP-47

PZ-18 PZ-19 PZ-20 PZ-21

MANHOLE

RW

5

100

1000

1500

LOT 22 (972 GENESEE ST.)

LOT 23 (15 BROOKS AVE.)

NET BLDG.

LOT 24 (998 GENESEE ST.)

LOT 1 (1004 GENESEE ST.)

LOT 2 (1008 GENESEE ST.)

LOT 3

N

0 30 60 90

SCALE IN FEET
APPROXIMATE

PROJECT ENGINEER/ARCHITECT: K. MILLER
PROJECT MANAGER: M. STORONSKY
DRAWN BY: A. LESS
SCALE: 1" = 30' APPROX.
FIRST ISSUE DATE:

SEAR·BROWN
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Rochester, N.Y. 14623-2674
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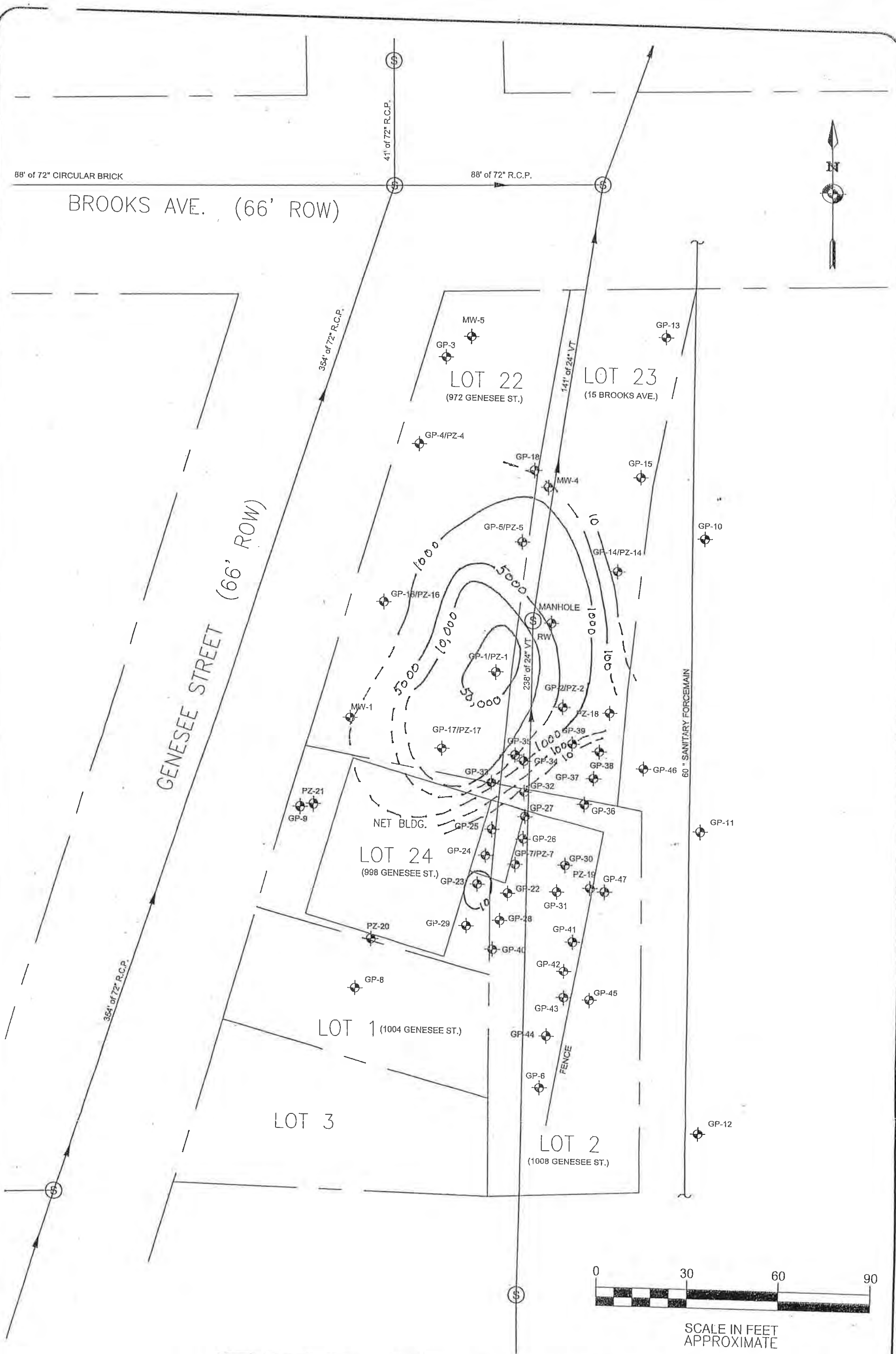
PROJECT: BROOKS LANDING

TITLE OF DRAWING: PEAK PID READINGS (10.2 ev) 16-20' bgs

PROJECT NO: 16835.07

DRAWING NO.: 11

SHEET OF



PROJECT ENGINEER/ARCHITECT: K. MILLER
PROJECT MANAGER: M. STORONSKY
DRAWN BY: A. LESS
SCALE: 1" = 30' APPROX.
FIRST DRAFT DATE:

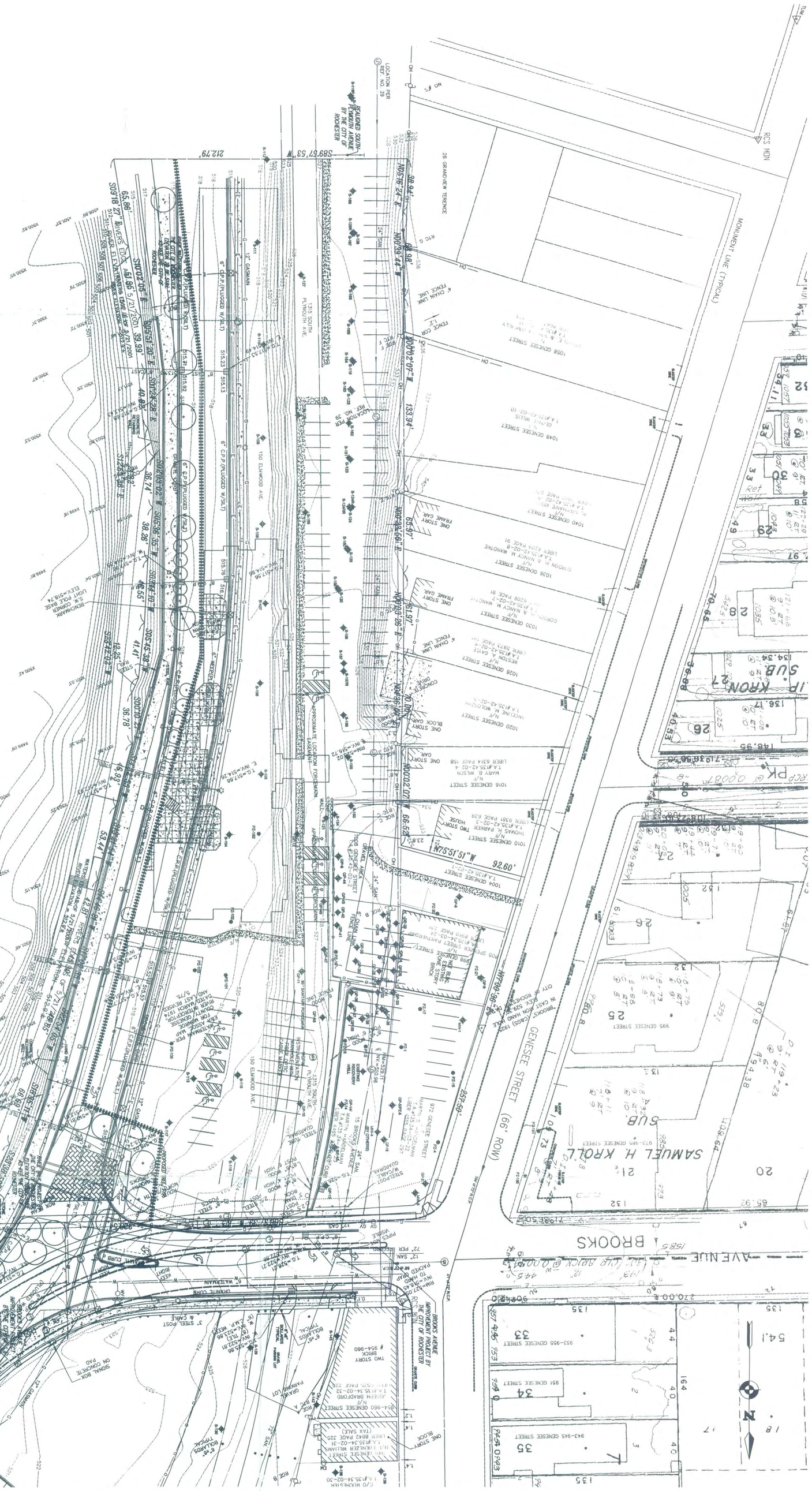
SEAR·BROWN
85 Metro Park
Rochester, N.Y. 14623-2674
(585) 475-1440
Fax: (585) 272-1814
www.searbrown.com

PROJECT: BROOKS LANDING
TITLE OF DRAWING: TOTAL PETROLEUM--RELATED VOCS IN SOILS (ug/kg)
PROJECT NO. 16835.07
DRAWING NO. 13
SHEET OF

Plotting Parameters
Plotted By: conleym
Dwg File: M:\JOBS\16835\08\civil\Phase II - Supplemental\FIG3A.dwg
Plotted: Apr 28, 2003 - 12:38pm

Profile:
Land Desktop

Node: PC01833



NOTES:

"PRELIMINARY DEVELOPMENT PLAN" ADAPTED FROM "BROOKS LANDING, PRELIMINARY PLANS, SITE PLAN" PREPARED BY COSTICH ENGINEERING FOR CHRISTENSON CORPORATION, DATED 01-10-2003.

PROJECT NO. 16835.08
DRAWING NO. FIG. 3A

PROJECT
BROOKS LANDING
URBAN RENEWAL DISTRICT
ROCHESTER, NEW YORK

TITLE OF DRAWING
SOIL BORING AND MONITORING WELL
LOCATION MAP: SUB-AREA I

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Rochester, N.Y. 14623-2674
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PROJECT ENGINEER/ARCHITECT
K. IGNASZAK, P.E.

PROJECT MANAGER
M. STORONSKY

DRAWN BY
M. CONLEY

SCALE
1" = 30'

FIRST ISSUE DATE

	REVISIONS	DATE	BY
6			
5			
4			
3			
2			
1			
0			

Plotting Parameters
Plotted By: conleym
Dwg File: M:\JOBS\16835OB\civil\Phase II - Supplemental\FIG4.dwg
Plotted: Apr 24, 2003 - 8:03am

Profile:
Land Desktop

Node: PC01833

NOTES:

"PRELIMINARY DEVELOPMENT PLAN" ADAPTED FROM "BROOKS LANDING, PRELIMINARY PLANS, SITE PLAN" PREPARED BY COSTICH ENGINEERING FOR CHRISTENSON CORPORATION, DATED 01-10-2003.

0 30 60 90
SCALE IN FEET

WATER TABLE CONTOUR MAP (BASED ON MARCH 18, 2003 DATA)

PROJECT
BROOKS LANDING
URBAN RENEWAL DISTRICT
ROCHESTER, NEW YORK

PROJECT NO. 16835.08
DRAWING NO. FIG. 4

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(585) 475-1440
Fax: (585) 272-1814
www.searbrown.com

PROJECT ENGINEER/ARCHITECT
K. IGNASZAK, P.E.

PROJECT MANAGER
M. STORONSKY

DRAWN BY
M. CONLEY

SCALE
1" = 30'

FIRST ISSUE DATE

	REVISIONS	DATE	BY
6			
5			
4			
3			
2			
1			
0			

Plotting Parameters
Plotted By: conleym
Dwg File: M:\JOBS\1683508\civil\Phase II - Supplemental\F105.dwg
Plotted: Apr 28, 2003 - 12:40pm

Profile:
Land Desktop

Node: PC01833

NOTES:

"PRELIMINARY DEVELOPMENT PLAN" ADAPTED FROM "BROOKS LANDING, PRELIMINARY PLANS, SITE PLAN" PREPARED BY COSTICH ENGINEERING FOR CHRISTENSON CORPORATION, DATED 01-10-2003.

SCALE IN FEET
0 30 60 90

PROJECT NO. 16835.08
DRAWING NO. FIG. 5

PROJECT
BROOKS LANDING
URBAN RENEWAL DISTRICT
ROCHESTER, NEW YORK

TITLE OF DRAWING
ISOPACH MAP OF GRANULAR FILL (FT.) IN SUB-AREA I

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(585) 475-1440
Fax: (585) 272-1814
www.searbrown.com

PROJECT ENGINEER/ARCHITECT
K. IGNASZAK, P.E.
PROJECT MANAGER
M. STORONSKY
DRAWN BY
M. CONLEY
SCALE 1" = 30'
FIRST ISSUE DATE

	REVISIONS	DATE	BY
6			
5			
4			
3			
2			
1			
0			

Plotting Parameters
Plotted By: conleym
Dwg File: M:\JOBS\1683508\civil\Phase II - Supplemental\FIG6.dwg
Plotted: Apr 24, 2003 - 8:09am

Profile:
Land Desktop

Node: PC01833

NOTES:

"PRELIMINARY DEVELOPMENT PLAN" ADAPTED FROM "BROOKS LANDING, PRELIMINARY PLANS, SITE PLAN" PREPARED BY COSTICH ENGINEERING FOR CHRISTENSON CORPORATION, DATED 01-10-2003.

0 30 60 90
SCALE IN FEET

NOTE: BLACK CARBON DEPOSIT REMEDIATED (REMOVED) DURING CAP REMEDIAL ACTIONS (MAY-JUNE 2003)

PROJECT
BROOKS LANDING
URBAN RENEWAL DISTRICT
ROCHESTER, NEW YORK

TITLE OF DRAWING
ISOPACH MAP OF BLACK CARBON DEPOSITS (FT.)

PROJECT NO. 16835.08
DRAWING NO. FIG. 6

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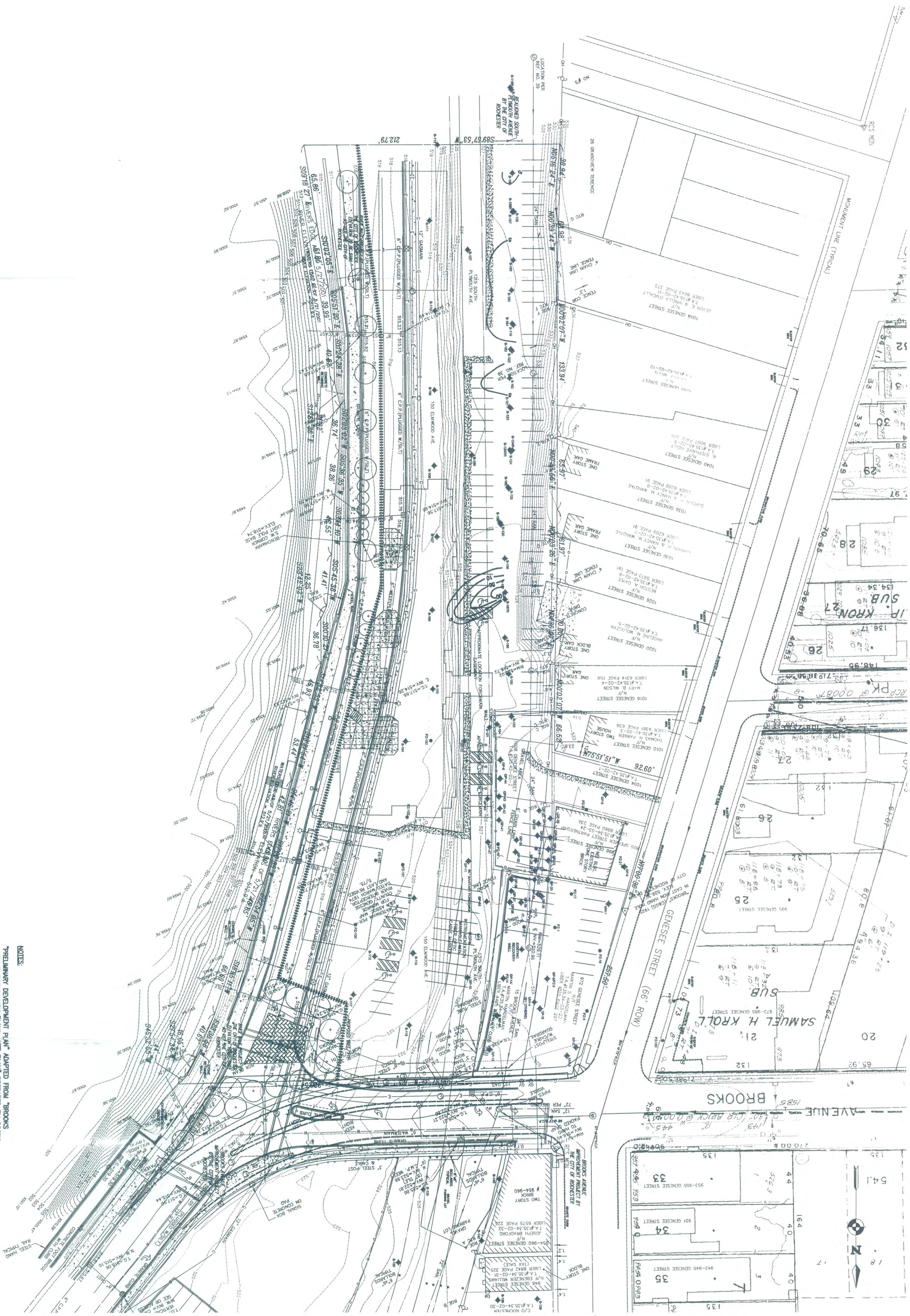
Rochester, N.Y. 14623-2674
(585) 475-1440
Fax: (585) 272-1814
www.searbrown.com

PROJECT ENGINEER/ARCHITECT
K. IGNASZAK, P.E.
PROJECT MANAGER
M. STORONSKY
DRAWN BY
M. CONLEY
SCALE 1" = 30'
FIRST ISSUE DATE

	REVISIONS	DATE	BY
6			
5			
4			
3			
2			
1			
0			

Plotting Parameters
Plotted By: conleym
Dwg File: M:\JOBS\I683508\civil\Phase II - Supplemental\FIG 7.dwg
Plotted: Apr 28, 2003 - 11:57am

Profile: Land Desktop
Node: PC01833



NOTES:

"PRELIMINARY DEVELOPMENT PLAN" ADAPTED FROM "BROOKS LANDING, PRELIMINARY PLANS, SITE PLAN" PREPARED BY COSTICH ENGINEERING FOR CHRISTENSON CORPORATION, DATED 01-10-2003.

0 30 60 90
SCALE IN FEET

PROJECT NO. 16835.08
DRAWING NO. FIG. 7

PROJECT
BROOKS LANDING
URBAN RENEWAL DISTRICT
ROCHESTER, NEW YORK

TITLE OF DRAWING
PID READINGS (ppm), 0-4 FEET BGS: SOUTH END
1315 SOUTH PLYMOUTH AVE/150 ELMWOOD AVENUE

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85 Metro Park
Rochester, N.Y. 14623-2674
(585) 475-1440
Fax: (585) 272-1814
www.searbrown.com

PROJECT ENGINEER/ARCHITECT: K. IGNASZAK, P.E.
PROJECT MANAGER: M. STORONSKY
DRAWN BY: M. CONLEY
SCALE: 1" = 30'
FIRST ISSUE DATE

	REVISIONS	DATE	BY
6			
5			
4			
3			
2			
1			
0			

Plotting Parameters
Plotted By: conleym
Dwg File: M:\JOBS\1683508\civil\Phase II - Supplemental\FIG 8.dwg
Plotted: Apr 28, 2003 - 12:00pm

Profile: Land Desktop
Node: PC01833

PROJECT
BROOKS LANDING
URBAN RENEWAL DISTRICT
ROCHESTER, NEW YORK

TITLE OF DRAWING
PID READINGS (ppm), 4-8 FEET BGS: SOUTH END
1315 SOUTH PLYMOUTH AVE/150 ELMWOOD AVENUE

PROJECT NO.
16835.08
DRAWING NO.
FIG. 8

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Rochester, N.Y. 14623-2674
(585) 475-1440
Fax: (585) 272-1814
www.searbrown.com

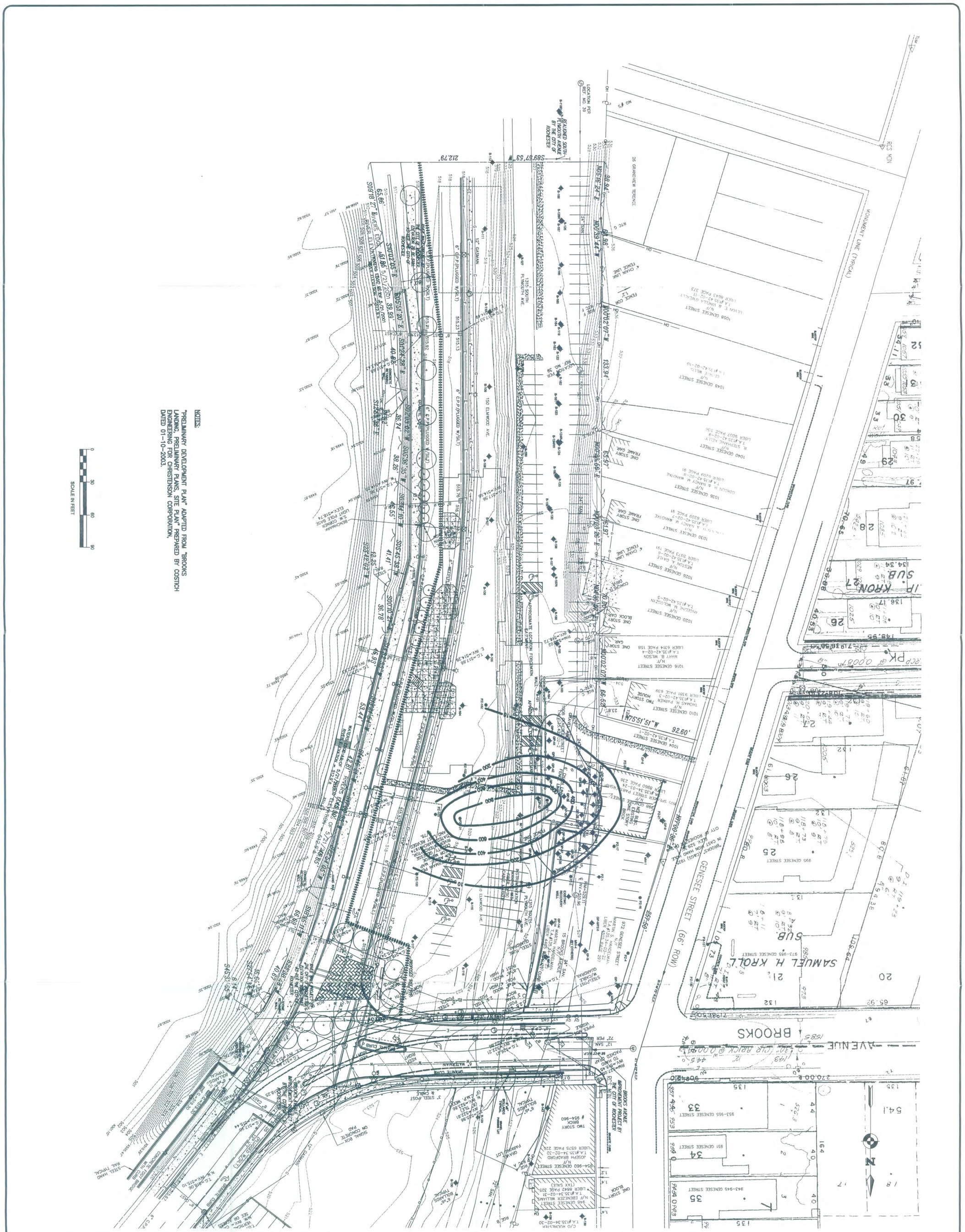
PROJECT ENGINEER/ARCHITECT
K. IGNASZAK, P.E.
PROJECT MANAGER
M. STORONSKY
DRAWN BY
M. CONLEY
SCALE
1" = 30'
FIRST ISSUE DATE

	REVISIONS	DATE	BY
6			
5			
4			
3			
2			
1			
0			

Plotting Parameters
Plotted By: conleym
Dwg File: M:\JOBS\1683508\civil\Phase II - Supplemental\FIG9.dwg
Plotted: Apr 28, 2003 - 12:02pm

Profile:
Land Desktop

Node: PC01833



NOTES:

"PRELIMINARY DEVELOPMENT PLAN" ADAPTED FROM "BROOKS LANDING PRELIMINARY PLANS, SITE PLAN" PREPARED BY COSTICH ENGINEERING FOR CHRISTENSON CORPORATION, DATED 01-10-2003.

PROJECT NO. 16835.08

DRAWING NO. FIG. 9

PROJECT
BROOKS LANDING
URBAN RENEWAL DISTRICT
ROCHESTER, NEW YORK

TITLE OF DRAWING
TCE IN GROUNDWATER (ug/L)

SEAR·BROWN
85 Metro Park
Rochester, N.Y. 14623-2674
(585) 475-1440
Fax: (585) 272-1814
www.searbrown.com

PROJECT ENGINEER/ARCHITECT
K. IGNASZAK, P.E.

PROJECT MANAGER
M. STORONSKY

DRAWN BY
M. CONLEY

SCALE
1" = 30'

FIRST ISSUE DATE

	REVISIONS	DATE	BY
6			
5			
4			
3			
2			
1			
0			

PROJECT
BROOKS LANDING
URBAN RENEWAL DISTRICT
ROCHESTER, NEW YORK

TITLE OF DRAWING
TOTAL PETROLEUM - RELATED AROMATIC HYDROCARBONS (ug/L)

PROJECT NO. 16835.08
DRAWING NO. FIG. 10

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Rochester, N.Y. 14623-2674
(585) 475-1440
Fax: (585) 272-1814
www.searbrown.com

SCALE: 1" = 30'
FIRST ISSUE DATE

DRAWN BY: M. CONLEY
PROJECT MANAGER: M. STRONSKY
PROJECT ENGINEER/ARCHITECT: K. IGNASZAK, P.E.

	REVISIONS	DATE	BY
0			
1			
2			
3			
4			
5			
6			

NOTES:
"PRELIMINARY DEVELOPMENT PLAN" ADAPTED FROM "BROOKS LANDING, PRELIMINARY PLANS, SITE PLAN" PREPARED BY COSTICH ENGINEERING FOR CHRISTENSON CORPORATION, DATED 01-10-2003.

SCALE IN FEET: 0, 30, 60, 90

Plotted: May 05, 2003 - 10:13am
Plotting Parameters
Plotted By: conlym
Dwg File: M:\JOBS\16835\06\Civil\Phase II - Supplemental\FIG10.dwg
Model: PC0833
Pen Table: Land Desktop

Plotting Parameters
Plotted By: conleym
Dwg File: M:\JOBS\1683508\civil\Phase II - Supplemental\FIG10A.dwg
Plotted: Jul 31, 2003 - 2:25pm

Profile: Land Desktop
Node: PC01833

PROJECT NO.	16835.08
DRAWING NO.	FIG. 10A

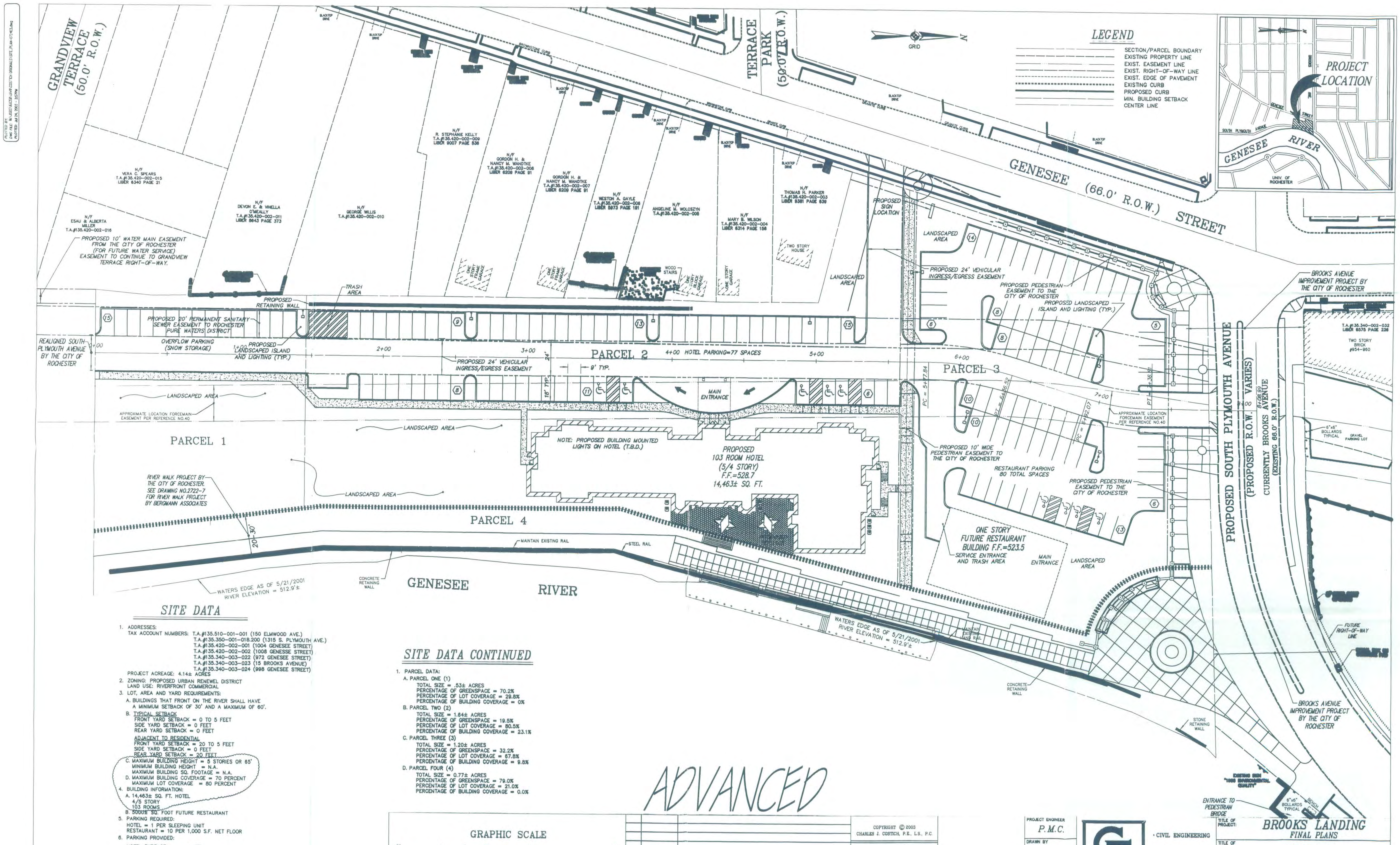
PROJECT
BROOKS LANDING
URBAN RENEWAL DISTRICT
ROCHESTER, NEW YORK

TITLE OF DRAWING
MTBE IN GROUNDWATER (ug/L)

SEAR·BROWN
85 Metro Park
Rochester, N.Y. 14623-2674
(585) 475-1440
Fax: (585) 272-1814
www.searbrown.com

PROJECT ENGINEER/ARCHITECT
K. IGNASZAK, P.E.
PROJECT MANAGER
M. STORONSKY
DRAWN BY
M. CONLEY
SCALE
1" = 30'
FIRST ISSUE DATE

	REVISIONS	DATE	BY
6			
5			
4			
3			
2			
1			
0			


PLOTTED BY:
DWG FILE: M:\JOBS\6826\CIVIL\COSTICH ORIGINALS\SITE_PLAN-07-HCL.dwg
PLOTTED: Jul 24, 2003 - 2:57PM
GRANDVIEW TERRACE (50.0' R.O.W.)
TERRACE PARK (50.0' R.O.W.)
GRID
N
LEGEND
SECTION/PARCEL BOUNDARY
EXISTING PROPERTY LINE
EXIST. EASEMENT LINE
EXIST. RIGHT-OF-WAY LINE
EXIST. EDGE OF PAVEMENT
EXISTING CURB
PROPOSED CURB
MIN. BUILDING SETBACK
CENTER LINE
PROJECT LOCATION
SOUTH PLYMOUTH AVENUE
GENESEE STREET
GENESEE RIVER
UNIV. OF ROCHESTER
BLACKTOP DRIVE
BROWNSTONE CURB
GRANITE CURB
GENESEE (66.0' R.O.W.) STREET
N/F VERA C. SPEARS T.A.#135.420-002-015 LIBER 6340 PAGE 21
N/F ESAU & ALBERTA MILLER T.A.#135.420-002-016
N/F DEVON E. & VINELLA O'MEALLY T.A.#135.420-002-011 LIBER 8643 PAGE 373
N/F GEORGE WILLIS T.A.#135.420-002-010
N/F R. STEPHANIE KELLY T.A.#135.420-002-009 LIBER 9007 PAGE 536
N/F GORDON H. & NANCY M. WANDTKE T.A.#135.420-002-008 LIBER 6209 PAGE 91
N/F GORDON H. & NANCY M. WANDTKE T.A.#135.420-002-007 LIBER 6209 PAGE 91
N/F WESTON A. GAYLE T.A.#135.420-002-006 LIBER 5973 PAGE 181
N/F ANGELINE M. WOLOSZYN T.A.#135.420-002-005
N/F MARY B. WILSON T.A.#135.420-002-004 LIBER 6314 PAGE 158
N/F THOMAS H. PARKER T.A.#135.420-002-003 LIBER 9381 PAGE 639
TWO STORY HOUSE
ONE STORY FRAME GARAGE
ONE STORY BLOCK GARAGE
ONE STORY GARAGE
WOOD STAIRS
PROPOSED 10' WATER MAIN EASEMENT FROM THE CITY OF ROCHESTER (FOR FUTURE WATER SERVICE) EASEMENT TO CONTINUE TO GRANDVIEW TERRACE RIGHT-OF-WAY.
PROPOSED RETAINING WALL
TRASH AREA
PROPOSED 20' PERMANENT SANITARY SEWER EASEMENT TO ROCHESTER PURE WATERS DISTRICT
REALIGNED SOUTH PLYMOUTH AVENUE BY THE CITY OF ROCHESTER
OVERFLOW PARKING (SNOW STORAGE)
PROPOSED LANDSCAPED ISLAND AND LIGHTING (TYP.)
PROPOSED 24' VEHICULAR INGRESS/EGRESS EASEMENT
PARCEL 2
4+00 HOTEL PARKING=77 SPACES
9' TYP.
18' TYP.
24'
MAIN ENTRANCE
LANDSCAPED AREA
APPROXIMATE LOCATION FORCEMAIN EASEMENT PER REFERENCE NO.40
PARCEL 1
NOTE: PROPOSED BUILDING MOUNTED LIGHTS ON HOTEL (T.B.D.)
PROPOSED 103 ROOM HOTEL (5/4 STORY) F.F.=528.7 14,463± SQ. FT.
RIVER WALK PROJECT BY THE CITY OF ROCHESTER. SEE DRAWING NO.2722-7 FOR RIVER WALK PROJECT BY BERGMANN ASSOCIATES
PARCEL 4
20-30'
MAINTAIN EXISTING RAIL
STEEL RAIL
CONCRETE RETAINING WALL
WATERS EDGE AS OF 5/21/2001 RIVER ELEVATION = 512.9'±
GENESEE RIVER
PROPOSED SIGN LOCATION
LANDSCAPED AREA
PROPOSED PEDESTRIAN EASEMENT TO THE CITY OF ROCHESTER
PROPOSED LANDSCAPED ISLAND AND LIGHTING (TYP.)
PARCEL 3
PC = 5+77.84
PT = 6+36.52
PC = 6+92.07
PT = 7+36.51
APPROXIMATE LOCATION FORCEMAIN EASEMENT PER REFERENCE NO.40
PROPOSED 10' WIDE PEDESTRIAN EASEMENT TO THE CITY OF ROCHESTER
RESTAURANT PARKING 80 TOTAL SPACES
ONE STORY FUTURE RESTAURANT BUILDING F.F.=523.5
SERVICE ENTRANCE AND TRASH AREA
MAINTAIN EXISTING HAND RAIL
STONE RETAINING WALL
PROPOSED SOUTH PLYMOUTH AVENUE (PROPOSED R.O.W. VARIES)
CURRENTLY BROOKS AVENUE (EXISTING 66.0' R.O.W.)
8+08.99
BROOKS AVENUE IMPROVEMENT PROJECT BY THE CITY OF ROCHESTER
T.A.#135.340-002-032 LIBER 8575 PAGE 226
TWO STORY BRICK #954-960
6"x6" BOLLARDS TYPICAL
GRAVEL PARKING LOT
FUTURE RIGHT-OF-WAY LINE
EXISTING SIGN "1988 ENVIRONMENTAL QUALITY"
ENTRANCE TO PEDESTRIAN BRIDGE
BENCH
ADVANCED

SITE DATA

1. ADDRESSES:
   TAX ACCOUNT NUMBERS: T.A.#135.510-001-001 (150 ELMWOOD AVE.)
   T.A.#135.350-001-018.200 (1315 S. PLYMOUTH AVE.)
   T.A.#135.420-002-001 (1004 GENESEE STREET)
   T.A.#135.420-002-002 (1008 GENESSE STREET)
   T.A.#135.340-003-022 (972 GENESEE STREET)
   T.A.#135.340-003-023 (15 BROOKS AVENUE)
   T.A.#135.340-003-024 (998 GENESEE STREET)
   PROJECT ACREAGE: 4.14± ACRES
2. ZONING: PROPOSED URBAN RENEWEL DISTRICT
   LAND USE: RIVERFRONT COMMERCIAL
3. LOT, AREA AND YARD REQUIREMENTS:
   A. BUILDINGS THAT FRONT ON THE RIVER SHALL HAVE A MINIMUM SETBACK OF 30' AND A MAXIMUM OF 60'.
   B. TYPICAL SETBACK
      FRONT YARD SETBACK = 0 TO 5 FEET
      SIDE YARD SETBACK = 0 FEET
      REAR YARD SETBACK = 0 FEET
      ADJACENT TO RESIDENTIAL
      FRONT YARD SETBACK = 20 TO 5 FEET
      SIDE YARD SETBACK = 0 FEET
      REAR YARD SETBACK = 20 FEET
   C. MAXIMUM BUILDING HEIGHT = 5 STORIES OR 65'
      MINIMUM BUILDING HEIGHT = N.A.
      MAXIMUM BUILDING SQ. FOOTAGE = N.A.
   D. MAXIMUM BUILDING COVERAGE = 70 PERCENT
      MAXIMUM LOT COVERAGE = 80 PERCENT
4. BUILDING INFORMATION:
   A. 14,463± SQ. FT. HOTEL
      4/5 STORY
      103 ROOMS
   B. 5000± SQ. FOOT FUTURE RESTAURANT
5. PARKING REQUIRED:
   HOTEL = 1 PER SLEEPING UNIT
   RESTAURANT = 10 PER 1,000 S.F. NET FLOOR
6. PARKING PROVIDED:
   HOTEL: SURFACE = 77
   UNDERGROUND = 0
   TOTAL = 77 (INCLUDING 5 HANDICAPPED)
   RESTAURANT:
   A. REQUIRED: 5,000 SQ. FT. x 10 SPACES / 1,000 SQ.FT. = 50 SPACES REQUIRED
   B. PROVIDED: 80 SPACES INCLUDING 4 HANDICAPPED SPACES

SITE DATA CONTINUED

1. PARCEL DATA:
   A. PARCEL ONE (1)
      TOTAL SIZE = .53± ACRES
      PERCENTAGE OF GREENSPACE = 70.2%
      PERCENTAGE OF LOT COVERAGE = 29.8%
      PERCENTAGE OF BUILDING COVERAGE = 0%
   B. PARCEL TWO (2)
      TOTAL SIZE = 1.64± ACRES
      PERCENTAGE OF GREENSPACE = 19.5%
      PERCENTAGE OF LOT COVERAGE = 80.5%
      PERCENTAGE OF BUILDING COVERAGE = 23.1%
   C. PARCEL THREE (3)
      TOTAL SIZE = 1.20± ACRES
      PERCENTAGE OF GREENSPACE = 32.2%
      PERCENTAGE OF LOT COVERAGE = 67.8%
      PERCENTAGE OF BUILDING COVERAGE = 9.8%
   D. PARCEL FOUR (4)
      TOTAL SIZE = 0.77± ACRES
      PERCENTAGE OF GREENSPACE = 79.0%
      PERCENTAGE OF LOT COVERAGE = 21.0%
      PERCENTAGE OF BUILDING COVERAGE = 0.0%

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

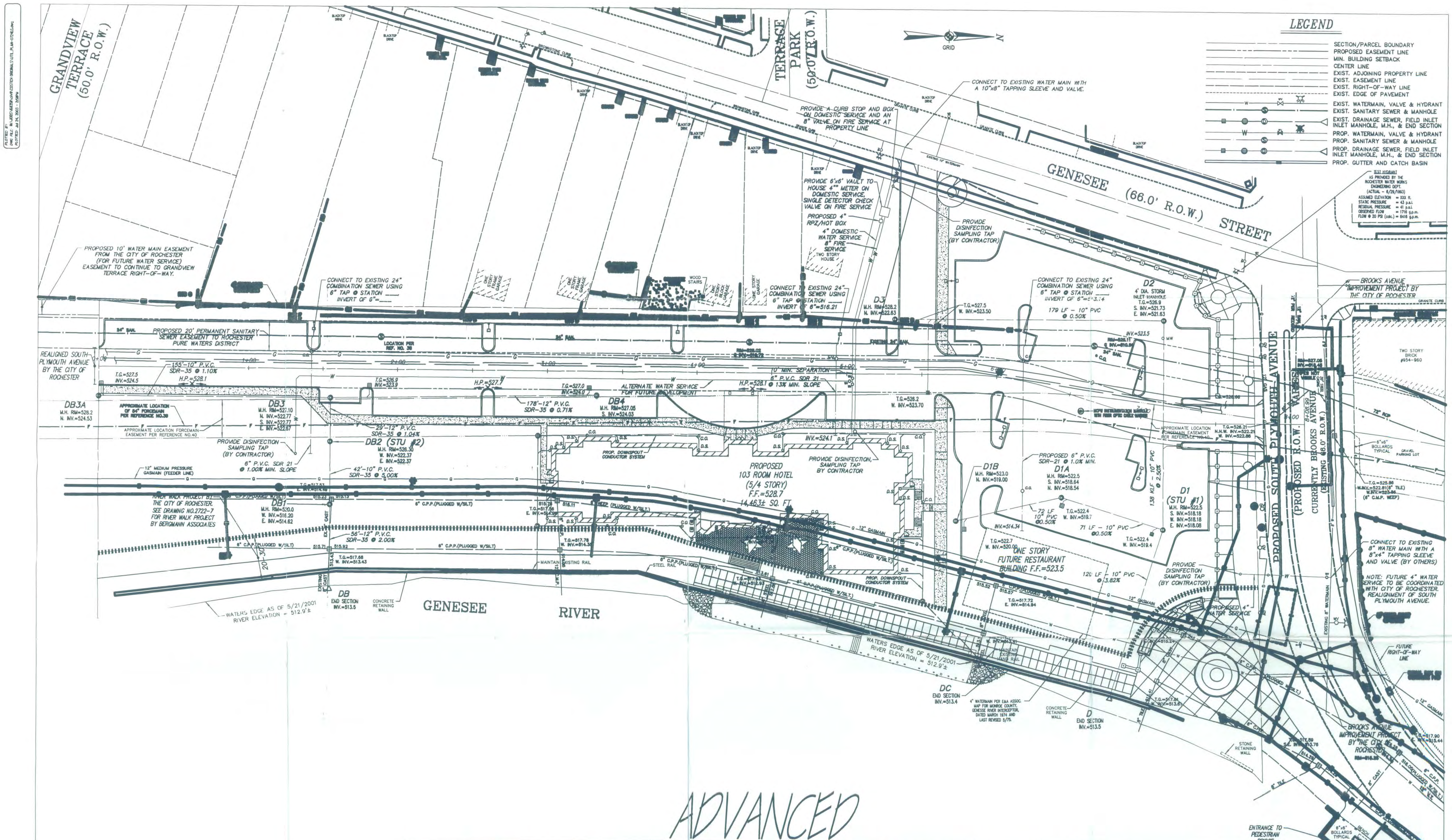
NO.	DATE	REVISION

H:\job\2722\^2722SITE.dwg

PROJECT ENGINEER: P.M.C.
DRAWN BY: E.S.S.
DATE: 7-28-2003
SCALE: 1"=30'

COSTICH ENGINEERING
· CIVIL ENGINEERING
· LAND PLANNING
· SURVEYING
217 LAKE AVENUE
ROCHESTER, NEW YORK 14608
(585) 458-3020

TITLE OF PROJECT: BROOKS LANDING FINAL PLANS
TITLE OF DRAWING: SITE PLAN
PROJECT LOCATION: CITY OF ROCHESTER BEING PART OF THE 4,000 ACRE TRACT, CITY OF ROCHESTER COUNTY OF MONROE, STATE OF NEW YORK
CLIENT: CHRISTENSON CORPORATION 12 SOUTH 6TH STREET - SUITE 715 MINNEAPOLIS, MINNESOTA 55402 (612) 338-7173
DWG. NO: 2722-S4


GRANDVIEW TERRACE (50.0' R.O.W.)
TERRACE PARK (50.0' R.O.W.)
GENESEE (66.0' R.O.W.) STREET
GRID
LEGEND
SECTION/PARCEL BOUNDARY
PROPOSED EASEMENT LINE
MIN. BUILDING SETBACK
CENTER LINE
EXIST. ADJOINING PROPERTY LINE
EXIST. EASEMENT LINE
EXIST. RIGHT-OF-WAY LINE
EXIST. EDGE OF PAVEMENT
EXIST. WATERMAIN, VALVE & HYDRANT
EXIST. SANITARY SEWER & MANHOLE
EXIST. DRAINAGE SEWER, FIELD INLET INLET MANHOLE, M.H., & END SECTION
PROP. WATERMAIN, VALVE & HYDRANT
PROP. SANITARY SEWER & MANHOLE
PROP. DRAINAGE SEWER, FIELD INLET INLET MANHOLE, M.H., & END SECTION
PROP. GUTTER AND CATCH BASIN
TEST HYDRANT AS PROVIDED BY THE ROCHESTER WATER WORKS ENGINEERING DEPT. (ACTUAL - 6/29/1993)
ASSUMED ELEVATION = XXX ft.
STATIC PRESSURE = 43 p.s.i.
RESIDUAL PRESSURE = 41 p.s.i.
OBSERVED FLOW = 1716 g.p.m.
FLOW @ 20 PSI (calc.) = 6416 g.p.m.
CONNECT TO EXISTING WATER MAIN WITH A 10"x8" TAPPING SLEEVE AND VALVE.
PROVIDE A CURB STOP AND BOX ON DOMESTIC SERVICE AND AN 8" VALVE ON FIRE SERVICE AT PROPERTY LINE
PROVIDE 6'x6' VAULT TO HOUSE 4"" METER ON DOMESTIC SERVICE, SINGLE DETECTOR CHECK VALVE ON FIRE SERVICE
PROPOSED 4" RPZ/HOT BOX
4" DOMESTIC WATER SERVICE
8" FIRE SERVICE
TWO STORY HOUSE
PROVIDE DISINFECTION SAMPLING TAP (BY CONTRACTOR)
PROPOSED 10' WATER MAIN EASEMENT FROM THE CITY OF ROCHESTER (FOR FUTURE WATER SERVICE) EASEMENT TO CONTINUE TO GRANDVIEW TERRACE RIGHT-OF-WAY.
CONNECT TO EXISTING 24" COMBINATION SEWER USING 6" TAP @ STATION ___ INVERT OF 6"=___
CONNECT TO EXISTING 24" COMBINATION SEWER USING 6" TAP @ STATION ___ INVERT OF 6"=516.21
CONNECT TO EXISTING 24" COMBINATION SEWER USING 6" TAP @ STATION ___ INVERT OF 6"=513.14
PROPOSED 20' PERMANENT SANITARY SEWER EASEMENT TO ROCHESTER PURE WATERS DISTRICT
REALIGNED SOUTH PLYMOUTH AVENUE BY THE CITY OF ROCHESTER
155'-10" P.V.C. SDR-35 @ 1.10%
H.P.=528.1
T.G.=527.5 INV.=524.5
DB3A M.H. RIM=528.2 N. INV.=524.53
APPROXIMATE LOCATION OF 84" FORCEMAIN PER REFERENCE NO.39
APPROXIMATE LOCATION FORCEMAIN EASEMENT PER REFERENCE NO.40
DB3 M.H. RIM=527.10 N. INV.=522.77 S. INV.=522.77 E. INV.=522.67
PROVIDE DISINFECTION SAMPLING TAP (BY CONTRACTOR)
6" P.V.C. SDR 21 @ 1.00% MIN. SLOPE
12" MEDIUM PRESSURE GASMAIN (FEEDER LINE)
RIVER WALK PROJECT BY THE CITY OF ROCHESTER. SEE DRAWING NO.2722-7 FOR RIVER WALK PROJECT BY BERGMANN ASSOCIATES
DB1 M.H. RIM=520.0 W. INV.=516.20 E. INV.=514.62
29'-12" P.V.C. SDR-35 @ 1.04%
DB2 (STU #2) M.H. RIM=526.30 W. INV.=522.37 E. INV.=522.37
42'-10" P.V.C. SDR-35 @ 5.00%
56'-12" P.V.C. SDR-35 @ 2.00%
T.G.=517.68 W. INV.=513.43
DB END SECTION INV.=513.5
CONCRETE RETAINING WALL
WATERS EDGE AS OF 5/21/2001 RIVER ELEVATION = 512.9'±
GENESEE RIVER
T.G.=526.9 INV.=523.9
H.P.=527.7
178'-12" P.V.C. SDR-35 @ 0.71%
T.G.=527.0 INV.=524.0
DB4 M.H. RIM=527.05 S. INV.=524.03
ALTERNATE WATER SERVICE FOR FUTURE DEVELOPMENT
10' MIN. SEPARATION
6" P.V.C. SDR 21
H.P.=528.1 @ 13% MIN. SLOPE
PROP. DOWNSPOUT CONDUCTOR SYSTEM
PROPOSED 103 ROOM HOTEL (5/4 STORY) F.F.=528.7 14,463± SQ. FT.
INV.=524.1
PROVIDE DISINFECTION, SAMPLING TAP BY CONTRACTOR
T.G.=517.78 W. INV.=514.35
MAINTAIN EXISTING RAIL
STEEL RAIL
6" C.P.P.(PLUGGED W/SILT)
12" GASMAIN
D3 M.H. RIM=528.2 N. INV.=522.63
T.G.=527.5 W. INV.=523.50
T.G.=526.2 W. INV.=523.70
DC END SECTION INV.=513.4
4" WATERMAIN PER E&A ASSOC. MAP FOR MONROE COUNTY, GENESSE RIVER INTERCEPTOR, DATED MARCH 1974 AND LAST REVISED 5/75.
D2 4' DIA. STORM INLET MANHOLE T.G.=526.9 S. INV.=521.73 E. INV.=521.63
179 LF - 10" PVC @ 0.50%
INV.=523.5
APPROXIMATE LOCATION FORCEMAIN EASEMENT PER REFERENCE NO.40
PROPOSED 6" P.V.C. SDR-21 @ 1.0% MIN.
D1B M.H. RIM=523.0 N. INV.=519.00
D1A M.H. RIM=522.5 S. INV.=518.64 N. INV.=518.54
138 KLF - 10" PVC @ 2.50%
D1 (STU #1) M.H. RIM=522.5 S. INV.=518.18 W. INV.=518.18 E. INV.=518.08
72 LF 10" PVC @0.50%
T.G.=522.4 W. INV.=519.7
71 LF - 10" PVC @0.50%
T.G.=522.4 W. INV.=519.4
INV.=514.34
T.G.=522.7 W. INV.=520.00
ONE STORY FUTURE RESTAURANT BUILDING F.F.=523.5
120 LF - 10" PVC @ 3.82%
PROVIDE DISINFECTION SAMPLING TAP (BY CONTRACTOR)
T.G.=517.72 E. INV.=514.94
PROPOSED 4" WATER SERVICE
CONCRETE RETAINING WALL
D END SECTION INV.=513.5
T.G.=517.81 W. INV.=513.61
STONE RETAINING WALL
PROPOSED SOUTH PLYMOUTH AVENUE (PROPOSED R.O.W. VARIES)
CURRENTLY BROOKS AVENUE (EXISTING 66.0' R.O.W.)
BROOKS AVENUE IMPROVEMENT PROJECT BY THE CITY OF ROCHESTER
GRANITE CURB
TWO STORY BRICK #954-960
72" RCP
6"x6" BOLLARDS TYPICAL
GRAVEL PARKING LOT
T.G.=525.86 W.INV.=522.81(8" TILE) (6" C.M.P. WEEP)
CONNECT TO EXISTING 8" WATER MAIN WITH A 8"x4" TAPPING SLEEVE AND VALVE (BY OTHERS)
NOTE: FUTURE 4" WATER SERVICE TO BE COORDINATED WITH CITY OF ROCHESTER. REALIGNMENT OF SOUTH PLYMOUTH AVENUE.
EXISTING 8" WATERMAIN
FUTURE RIGHT-OF-WAY LINE
BROOKS AVENUE IMPROVEMENT PROJECT BY THE CITY OF ROCHESTER
ENTRANCE TO PEDESTRIAN BRIDGE
6"x6" BOLLARDS TYPICAL
ADVANCED

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

NO.	DATE	REVISION

H:\job\2722\^2722SITE.dwg

PROJECT ENGINEER: P.M.C.
DRAWN BY: D.P.B.
DATE: 1-10-2003
SCALE: 1"=30'

COSTICH ENGINEERING
· CIVIL ENGINEERING
· LAND PLANNING
· SURVEYING
217 LAKE AVENUE
ROCHESTER, NEW YORK 14608
(585) 458-3020

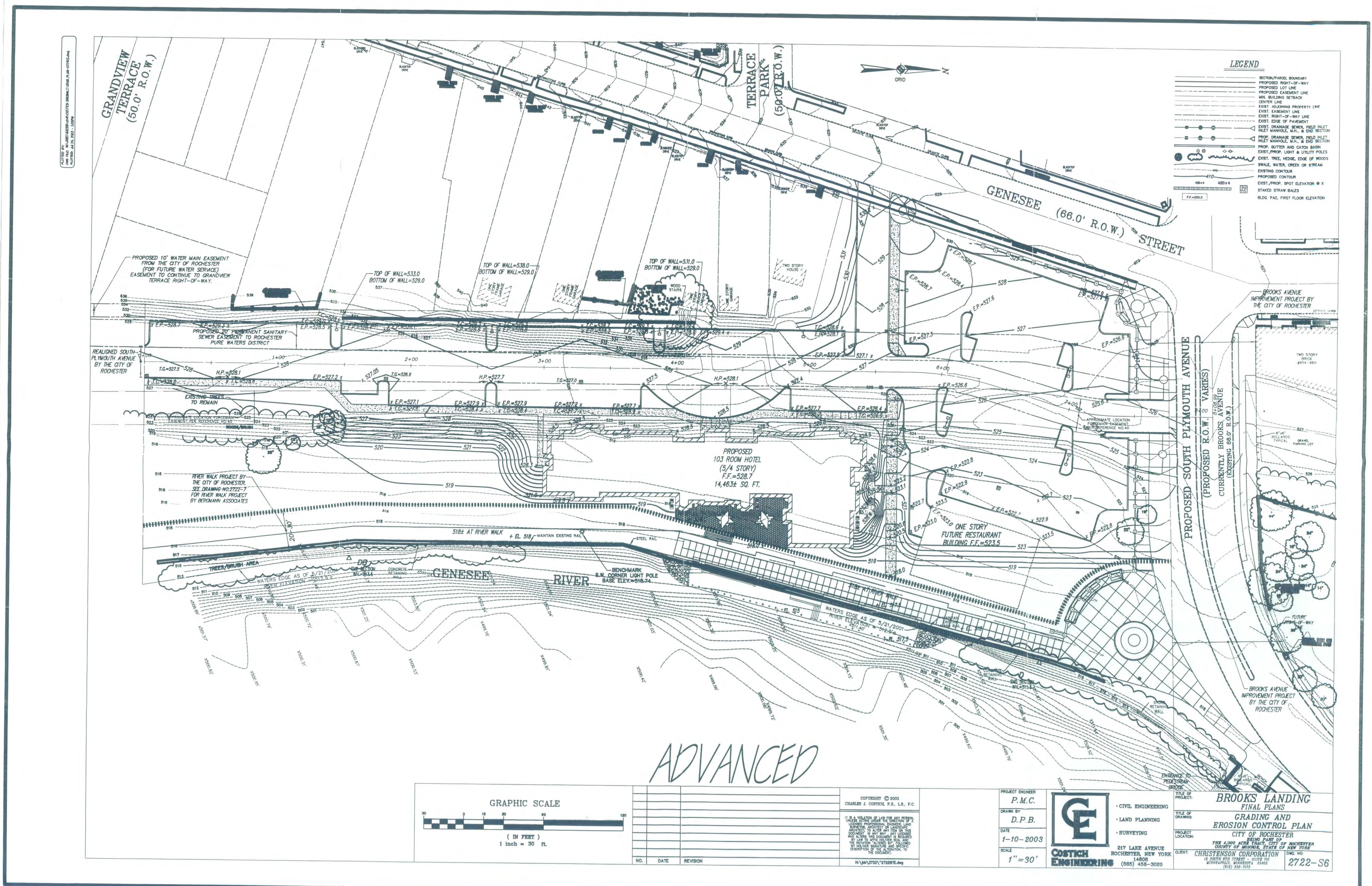
TITLE OF PROJECT: BROOKS LANDING FINAL PLANS

TITLE OF DRAWING: UTILITY PLAN

PROJECT LOCATION: CITY OF ROCHESTER BEING PART OF THE 4,000 ACRE TRACT, CITY OF ROCHESTER COUNTY OF MONROE, STATE OF NEW YORK

CLIENT: CHRISTENSON CORPORATION 12 SOUTH 6TH STREET - SUITE 715 MINNEAPOLIS, MINNESOTA 55402 (612) 338-7173

DWG. NO: 2722-S5



GRANDVIEW TERRACE (50.0' R.O.W.)
TERRACE PARK (50.0' R.O.W.)
GENESEE (66.0' R.O.W.) STREET
GRID
N
LEGEND
SECTION/PARCEL BOUNDARY
PROPOSED RIGHT-OF-WAY
PROPOSED LOT LINE
PROPOSED EASEMENT LINE
MIN. BUILDING SETBACK
CENTER LINE
EXIST. ADJOINING PROPERTY LINE
EXIST. EASEMENT LINE
EXIST. RIGHT-OF-WAY LINE
EXIST. EDGE OF PAVEMENT
EXIST. DRAINAGE SEWER, FIELD INLET INLET MANHOLE, M.H., & END SECTION
PROP. DRAINAGE SEWER, FIELD INLET INLET MANHOLE, M.H., & END SECTION
PROP. GUTTER AND CATCH BASIN
EXIST./PROP. LIGHT & UTILITY POLES
EXIST. TREE, HEDGE, EDGE OF WOODS
SWALE, WATER, CREEK OR STREAM
EXISTING CONTOUR
PROPOSED CONTOUR
EXIST./PROP. SPOT ELEVATION
STAKED STRAW BALES
BLDG. PAD, FIRST FLOOR ELEVATION
PROPOSED 10' WATER MAIN EASEMENT FROM THE CITY OF ROCHESTER (FOR FUTURE WATER SERVICE) EASEMENT TO CONTINUE TO GRANDVIEW TERRACE RIGHT-OF-WAY.
TOP OF WALL=533.0 BOTTOM OF WALL=529.0
TOP OF WALL=538.0 BOTTOM OF WALL=529.0
TOP OF WALL=531.0 BOTTOM OF WALL=529.0
ONE STORY FRAME GARAGE
WOOD STAIRS
ONE STORY BLOCK GARAGE
TWO STORY HOUSE
PROPOSED 20' PERMANENT SANITARY SEWER EASEMENT TO ROCHESTER PURE WATERS DISTRICT
REALIGNED SOUTH PLYMOUTH AVENUE BY THE CITY OF ROCHESTER
EXISTING TREES TO REMAIN
APPROXIMATE LOCATION FORCEMAIN EASEMENT PER REFERENCE NO.40
WOODS/BRUSH
PROPOSED 103 ROOM HOTEL (5/4 STORY) F.F.=528.7 14,463± SQ. FT.
ONE STORY FUTURE RESTAURANT BUILDING F.F.=523.5
RIVER WALK PROJECT BY THE CITY OF ROCHESTER. SEE DRAWING NO.2722-7 FOR RIVER WALK PROJECT BY BERGMANN ASSOCIATES
518± AT RIVER WALK
MAINTAIN EXISTING RAIL
STEEL RAIL
BENCHMARK S.W. CORNER LIGHT POLE BASE ELEV.=518.74
TREES/BRUSH AREA
WATERS EDGE AS OF 5/21/2001 RIVER ELEVATION =512.9±
CONCRETE RETAINING WALL
GENESEE RIVER
STONE RETAINING WALL
ENTRANCE TO PEDESTRIAN BRIDGE
BROOKS AVENUE IMPROVEMENT PROJECT BY THE CITY OF ROCHESTER
PROPOSED SOUTH PLYMOUTH AVENUE (PROPOSED R.O.W. VARIES)
CURRENTLY BROOKS AVENUE (EXISTING 66.0' R.O.W.)
TWO STORY BRICK #954-960
6"x6" BOLLARDS TYPICAL
GRAVEL PARKING LOT
FUTURE RIGHT-OF-WAY LINE
ADVANCED
GRAPHIC SCALE
(IN FEET)
1 inch = 30 ft.
NO. DATE REVISION
COPYRIGHT © 2003 CHARLES J. COSTICH, P.E., L.S., P.C.
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR, ARCHITECT OR LANDSCAPE ARCHITECT, TO ALTER ANY ITEM ON THIS DOCUMENT IN ANY WAY. ANY LICENSEE WHO ALTERS THIS DOCUMENT IS REQUIRED BY LAW TO AFFIX HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND SPECIFIC DESCRIPTION OF THE ALTERATION, TO THE DOCUMENT.
H:\Job\2722\^2722SITE.dwg
PROJECT ENGINEER P.M.C.
DRAWN BY D.P.B.
DATE 1-10-2003
SCALE 1"=30'
COSTICH ENGINEERING
· CIVIL ENGINEERING
· LAND PLANNING
· SURVEYING
217 LAKE AVENUE ROCHESTER, NEW YORK 14608 (585) 458-3020
TITLE OF PROJECT: BROOKS LANDING FINAL PLANS
TITLE OF DRAWING: GRADING AND EROSION CONTROL PLAN
PROJECT LOCATION: CITY OF ROCHESTER BEING PART OF THE 4,000 ACRE TRACT, CITY OF ROCHESTER COUNTY OF MONROE, STATE OF NEW YORK
CLIENT: CHRISTENSON CORPORATION 12 SOUTH 6TH STREET - SUITE 715 MINNEAPOLIS, MINNESOTA 55402 (612) 338-7173
DWG. NO: 2722-S6

PLOTTED BY:
DWG FILE: M:\JOBS\3722\Current\Supplemental Work 7-7-03\COLOR COSTICH AREAS OF CONCERN WITH G
PLOTTED: Aug 05, 2003 - 10:09AM

PROJECT LOCATION

LEGEND:

- MW-101 — TCE MONITORING WELLS
- EW-2 — PETROLEUM HYDROCARBON EXTRACTION WELLS
- B-107 — PREVIOUS BORINGS AND WELL LOCATIONS
- PZ-1 — PREVIOUS PIEZOMETER LOCATIONS
- HRC GROUNDWATER REMEDIATION TRENCHES
- TCE GROUNDWATER PLUME (APPROXIMATE LIMITS)
- TOTAL PETROLEUM RELATED AROMATIC HYDROCARBON GROUNDWATER PLUME (APPROXIMATE LIMITS)
- PROPOSED PAH "HOT SPOT" EXCAVATIONS
- GRANULAR (PAH) FILL (APPROXIMATE LIMITS)
- BLACK CARBON FILL DEPOSITS (APPROXIMATE LIMITS)

SEAR-BROWN
85 Metro Park
Rochester, N.Y. 14623-2874
(585) 475-1440
Fax: (585) 272-1814
www.searbrown.com

NOTES:

REVISIONS MADE TO BASEMAP BY SEAR-BROWN TO REFLECT ENVIRONMENTAL ISSUES. 8/12/03

ADVANCED

GRAPHIC SCALE

300 0 150 300 600 1200

(IN FEET)
1 inch = 900 ft.

NO.	DATE	REVISION

H:\job\3722\"2722SITE.dwg

PROJECT ENGINEER	P.M.C.
DRAWN BY	E.S.S.
DATE	7-28-2003
SCALE	1"=30'

COSTICH ENGINEERING
• CIVIL ENGINEERING
• LAND PLANNING
• SURVEYING
217 LAKE AVENUE
ROCHESTER, NEW YORK
14608
(585) 458-3020

TITLE OF PROJECT:	BROOKS LANDING FINAL PLANS
TITLE OF DRAWING:	SITE PLAN
PROJECT LOCATION:	CITY OF ROCHESTER BEING PART OF THE 4,000 ACRE TRACT, CITY OF ROCHESTER COUNTY OF MONROE, STATE OF NEW YORK
CLIENT:	CHRISTENSON CORPORATION 12 SOUTH 6TH STREET - SUITE 715 MINNEAPOLIS, MINNESOTA 55402 (612) 338-7173
DWG. NO:	2722-S4

PLOTTED BY:
DWG FILE: M:\JOBS\SEB\Draft\Supplemental Work 7-19-03\JOB DEPTH AREAS OF CONCERN.dwg
PLOTTED: Aug 26, 2003 - 10:56AM

GRANDVIEW TERRACE (50.0' R.O.W.)

TERRACE PARK (50.0' R.O.W.)

GENESEE (66.0' R.O.W.) 1000 STREET

N/F VERA C. SPEARS T.A.#135.420-002-015 LIBER 8340 PAGE 21

N/F ESAU & ALBERTA MILLER T.A.#135.420-002-016

N/F DEVON E. & VINELLA O'MEALLY T.A.#135.420-002-011 LIBER 8643 PAGE 373

N/F GEORGE WILLIS T.A.#135.420-002-010

N/F R. STEPHANIE KELLY T.A.#135.420-002-009 LIBER 9007 PAGE 536

N/F GORDON H. & NANCY M. WANDTKE T.A.#135.420-002-008 LIBER 6209 PAGE 91

N/F GORDON H. & NANCY M. WANDTKE T.A.#135.420-002-007 LIBER 6209 PAGE 91

N/F KINSTON A. GAYLE T.A.#135.420-002-006 LIBER 5973 PAGE 191

N/F ANGELINE M. WOLOSZYN T.A.#135.420-002-005

N/F MARY B. WILSON T.A.#135.420-002-004 LIBER 6314 PAGE 158

N/F THOMAS H. PARKER T.A.#135.420-002-003 LIBER 9381 PAGE 639

B-165 AREA

5 ppm CUTOFF 4-8 FT BGS

5 ppm CUTOFF 0-4 FT BGS

B-124 AREA 3-6 FT BGS

B-159 AREA TAR 4.2-4.5 FT BGS

PROPOSED 10' WATER MAIN EASEMENT FROM THE CITY OF ROCHESTER (FOR FUTURE WATER SERVICE) EASEMENT TO CONTINUE TO GRANDVIEW TERRACE RIGHT-OF-WAY.

4' CHAIN LINK FENCE LINE

TRASH AREA

ONE STORY FRAME GARAGE

ONE STORY BLOCK GARAGE

CONCRETE WOOD STAIRS

TWO STORY BLOCK GARAGE

ONE STORY FRAME GARAGE

TWO STORY HOUSE

PROPOSED RETAINING WALL

PROPOSED 20' PERMANENT SANITARY SEWER EASEMENT TO ROCHESTER PURE WATERS DISTRICT

REALIGNED SOUTH PLYMOUTH AVENUE BY THE CITY OF ROCHESTER

OVERFLOW PARKING W/ STORAGE

PROPOSED LANDSCAPED ISLAND AND LIGHTING (TYP.)

PROPOSED 24' VEHICULAR INGRESS / EGRESS EASEMENT

PARCEL 2

4+00 HOTEL PARKING 77 SPACES

5+00

MAIN ENTRANCE

LANDSCAPED AREA

PARCEL 1

APPROXIMATE LOCATION FORCEMAIN EASEMENT PER REFERENCE NO.40

NOTE: PROPOSED BUILDING MOUNTED LIGHTS ON HOTEL (T.B.D.)

PROPOSED 103 ROOM HOTEL (5/4 STORY) F.F.=528.7 14,463± SQ. FT.

RIVER WALK PROJECT BY THE CITY OF ROCHESTER. SEE DRAWING NO.2722-7 FOR RIVER WALK PROJECT BY BERGMANN ASSOCIATES

PARCEL 4

MAINTAIN EXISTING RAIL

STEEL RAIL

CONCRETE RETAINING WALL

WATERS EDGE AS OF 5/21/2001 RIVER ELEVATION = 512.9'±

GENESEE RIVER

PROPOSED SIGN LOCATION

LANDSCAPED AREA

PROPOSED 24' VEHICULAR INGRESS / EGRESS EASEMENT

PROPOSED PEDESTRIAN EASEMENT TO THE CITY OF ROCHESTER

PROPOSED LANDSCAPED ISLAND AND LIGHTING (TYP.)

DECOMMISSIONED MONITORING WELLS

EXISTING RECOVERY WELL

MW-4 (BY OTHERS)

PROPOSED 10' WIDE PEDESTRIAN EASEMENT TO THE CITY OF ROCHESTER

RESTAURANT PARKING 80 TOTAL SPACES

PROPOSED PEDESTRIAN EASEMENT TO THE CITY OF ROCHESTER

ONE STORY FUTURE RESTAURANT BUILDING F.F.=503.5

SERVICE ENTRANCE AND TRASH AREA

MAIN ENTRANCE

LANDSCAPED AREA

BROOKS AVENUE IMPROVEMENT PROJECT BY THE CITY OF ROCHESTER

T.A.#135.340-002-032 LIBER 8375 PAGE 226

TWO STORY BRICK #954-960

PROPOSED SOUTH PLYMOUTH AVENUE (PROPOSED R.O.W. VARIES)

CURRENTLY BROOKS AVENUE (EXISTING 66.0' R.O.W.)

6"x6" BOLLARDS TYPICAL

GRAVEL PARKING LOT

3" STEEL POST & CABLE

FUTURE RIGHT-OF-WAY LINE

SIGNAL BOX ON CONCRETE PAD

BROOKS AVENUE IMPROVEMENT PROJECT BY THE CITY OF ROCHESTER

STONE RETAINING WALL

EXISTING SIGN "1986 ENVIRONMENTAL QUALITY"

ENTRANCE TO PEDESTRIAN BRIDGE

BRIDGE

PROJECT LOCATION

GENESEE RIVER

SOUTH PLYMOUTH AVENUE

GENESEE STREET

UNIV. OF ROCHESTER

LEGEND

- SECTION/PARCEL BOUNDARY
- EXISTING PROPERTY LINE
- EXIST. EASEMENT LINE
- EXIST. RIGHT-OF-WAY LINE
- EXIST. EDGE OF PAVEMENT
- EXISTING CURB
- PROPOSED CURB
- MIN. BUILDING SETBACK
- CENTER LINE

LEGEND:

- MW-101 TCE MONITORING WELLS
- EW-2 PETROLEUM HYDROCARBON EXTRACTION WELLS
- B-107 PREVIOUS BORINGS AND WELL LOCATIONS
- PZ-1 PREVIOUS PIEZOMETER LOCATIONS
- HRC GROUNDWATER REMEDIATION TRENCHES
- TCE GROUNDWATER PLUME (ug/l)
- TOTAL PETROLEUM HYDROCARBON GROUNDWATER PLUME (ug/l)
- PROPOSED PAH "HOT SPOT" EXCAVATIONS
- GRANULAR (PAH) FILL THICKNESS
- BLACK CARBON FILL DEPOSITS

NOTES:

REVISIONS MADE TO BASEMAP BY SEAR-BROWN TO REFLECT ENVIRONMENTAL ISSUES. 7/31/03

SEAR-BROWN
85 Metro Park
Rochester, N.Y. 14623-2674
(585) 475-1440
Fax: (585) 272-1814
www.searbrown.com

ADVANCED

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 900 ft.

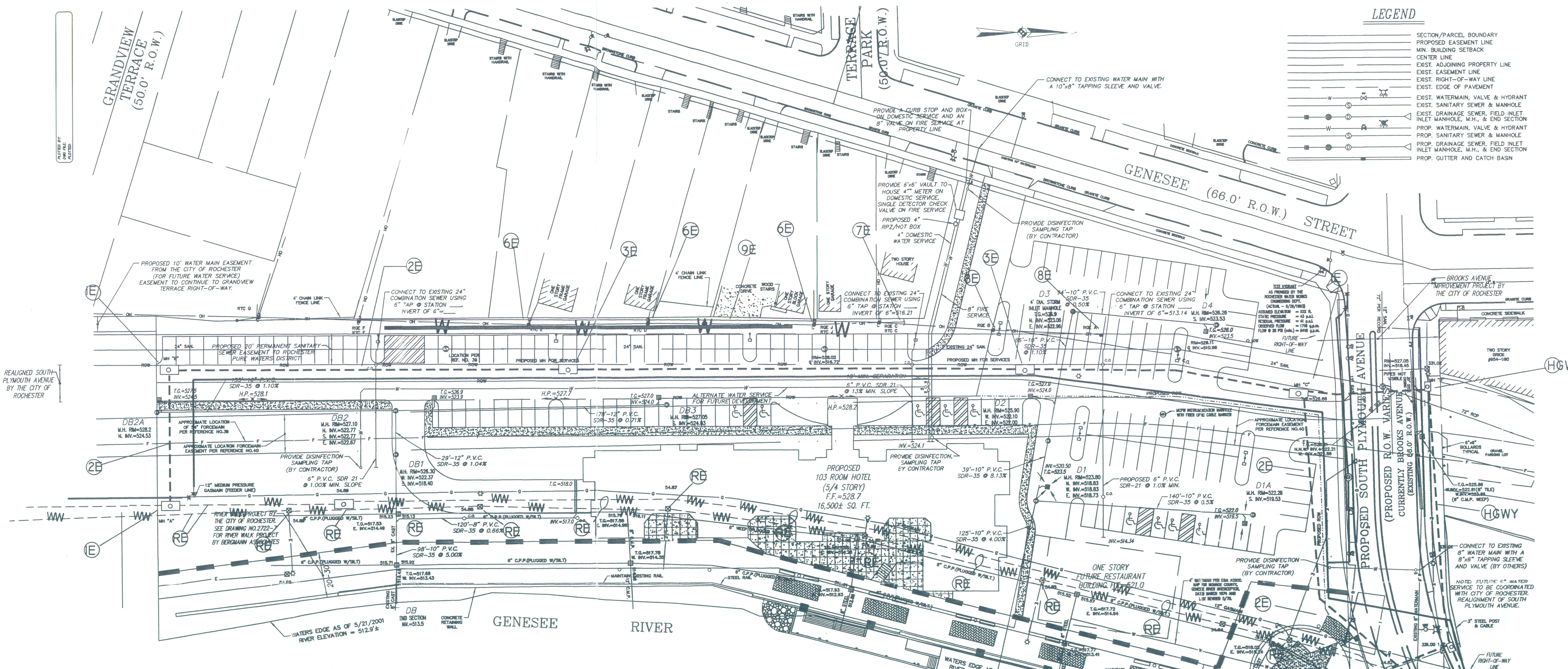
NO.	DATE	REVISION

H:\job\2722\"2722SITE.dwg

PROJECT ENGINEER	P.M.C.
DRAWN BY	E.S.S.
DATE	7-28-2003
SCALE	1"=30'

COSTICH ENGINEERING
• CIVIL ENGINEERING
• LAND PLANNING
• SURVEYING
217 LAKE AVENUE
ROCHESTER, NEW YORK
14608
(585) 458-3020

TITLE OF PROJECT:	BROOKS LANDING FINAL PLANS
TITLE OF DRAWING:	SITE PLAN
PROJECT LOCATION:	CITY OF ROCHESTER BEING PART OF THE 4,000 ACRE TRACT, CITY OF ROCHESTER COUNTY OF MONROE, STATE OF NEW YORK
CLIENT:	CHRISTENSON CORPORATION 715 SOUTH 6TH STREET - SUITE 715 MINNEAPOLIS, MINNESOTA 55402 (612) 338-7773
DWG. NO:	2722-S4



ELECTRIC SYMBOLS

- HANDHOLE
- UNDERGROUND CABLE REMOVAL
- MANHOLE
- 9–5" CONDUITS WITH CABLES

GAS SYMBOLS

- EXISTING GAS LINE
- 12" WR ST
- COUPLING AND EXTENSIONS
- REGULATOR

SITE REQUIREMENTS

o EXCAVATE THE TRENCH FOR RG&E FACILITIES. DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONTAIMINATED SOIL FROM SITE. SHALL REPLACE WITH CLEAN FILL TO RG&E STANDARDS

o PROVIDE A 20' EASEMENT RIGHT TO ACCOMODATE G & E FACILITIES. CONTACT KEN KEMMET RG&E ROW AGENT 771-4515

o REFERING TO DRAWING NOTE, REALIGNMENT OF SOUTH PLYMOUTH AVE BY THE CITY OF ROCHESTER. ANY RELOCATION OF RG&E FACILITIES WILL BE TOTALLY CHARGEABLE. A FINAL DESIGN SHALL BE SUBMITTED TO RG&E TO DESIGN AND PROVIDE AN ESTIMATE FOR SUCH WORK.

o PROVIDE TO RG&E IT'S COSTS AND EXPENSES FOR THE RELOCATION OF IT'S FACILITIES TO ACCOMODATE THE PROJECT. RG&E IS REQUESTING THAT THE CUSTOMER PAY A LUMP SUM PAYMENT. UPON RECIEVING THE PAYMENT IN FULL RG&E WILL BEGIN THE DESIGN AND BID PROCESS. CUSTOMER SHALL SIGN AN RG&E GENERAL SERVICE AGREEMENT REFLECTING A COMMITMENT TO A LUMP SUM PAYMENT BASED ON THE ENGINEERING ESTIMATE PROVIDED WITH THIS PRELIMINARY DESIGN. CONTACT TIM HECKMAN RG&E MARKETING 771-2290 TO PROVIDE THIS APPLICATION. PAYMENT SHALL BE UPFRONT BEFORE RG&E BEGINS ANY WORK. THE DESIGN AND PROJECT WORK FOR THE FACILITIES ON GENESEE ST , SCOTTSVILLE RD AND ELMWOOD AVE WILL NOT BE DESIGNED UNTIL COMMITMENT TO PAYMENT IS MADE BY CUSTOMER.

o PROVIDE A FINAL DRAWING SHOWING THE REQUESTED RIGHT AWAY EASEMENT AND THE RG&E PROPOSED SYSTEM

o PROVIDE STAKING OF RG&E EASEMENT, PROPERTY LINE, RETAINING WALL, AND WEST WALL OF PROPOSED BUILDING STRUCTURES

o SITE SHALL BE WITHIN 6" OF FINAL GRADE (PROPOSED UTILITY EASEMENT) AND FREE OF OBSTRUCTIONS. ALL LATERALS SHALL BE EXTENDED BEYOND UTILITY EASEMENT.

o SCHEDULE A PRE CONSTRUCTION MEETING WITH ALL UTILITIES AND HAVE SITE READY FOR WALK THOROUGH WITH RG&E CONTRACTOR AND INSPECTOR

UNDERGROUND NOTES

1E- INSTALL 6'X12'X6' PRECAST MANHOLES AND GROUND AS PER RG&E STANDARDS, IN CUSTOMER PROVIDE TRENCH AS PER RG&E STANDARD

2E- INSTALL 9-5" PVC-EB CONDUITS WITH 36" MINIMUM COVER, ENCASED, TEMPORARY RESTORATION, IN CUSTOMER PROVIDE TRENCH AS PER RG&E STANDARD

3E- PROPOSED MANHOLES FOR SERVICE TO HOTEL. EXCAVATE AND INSTALL 6'X12'X6' MANHOLE AND GROUNDING AS PER RG&E STANDARD, IN CUSTOMER PROVIDE TRENCH AS PER RG&E STANDARD

4E- BUILD 4'X6'X6' MANHOLES OVER EXISTING DUCT SYSTEM. GROUND AS PER RG&E STANDARD, IN CUSTOMER PROVIDE TRENCH AS PER RG&E STANDARD

5E- ADJUST ROOF AND F&C TO NEW PAVING PROFILE

RE- REMOVAL OF CABLES, MANHOLE AND HANDHOLES

CABLE

PULL NEW TRANSMISSION CIRCUITS (2) CIRCUITS
PULL PILOT COMMUNICATION CABLES
SHUTDOWN CIRCUITS
SPLICING CABLES
REMOVING CABLES AND ABANDON DUCT SYSTEM

OVERHEAD NOTES

6E- REMOVE AND RELOCATE EXISTING UTILITY POLES TO ACCOMMODATE RETAINING WALL.
SHIFT TO THE WEST

7E- INSTALL PRIMARY DEADENDS AND INSTALL ANCHOR AND GUY

8E- REMOVE 2 UTILITY POLES,ASSOCIATED EQUIPMENT AND WIRES

9E- REMOVE EXISTING OVERHEAD CONDUCTORS AND RUN NEW

STREET LIGHTING SYSTEM

STREET LIGHTING SYSTEM WILL BE REMOVED AND A SERVICE POINT WILL BE AVAILABLE TO THE CITY OF ROCHESTER UPON REQUEST.
CITY OF ROCHESTER STREET LIGHTING DEPARTMENT SHALL FOLLOW STANDARD PROCEDURES TO ACCOMMODATE THE NEW LIGHTING SYSTEM OWNED BY THE CITY

HGWY- WILL BE BUILT UNDER HIGHWAY PROJECT AND BILLED TO HOTEL PROJECT FOR SERVICE

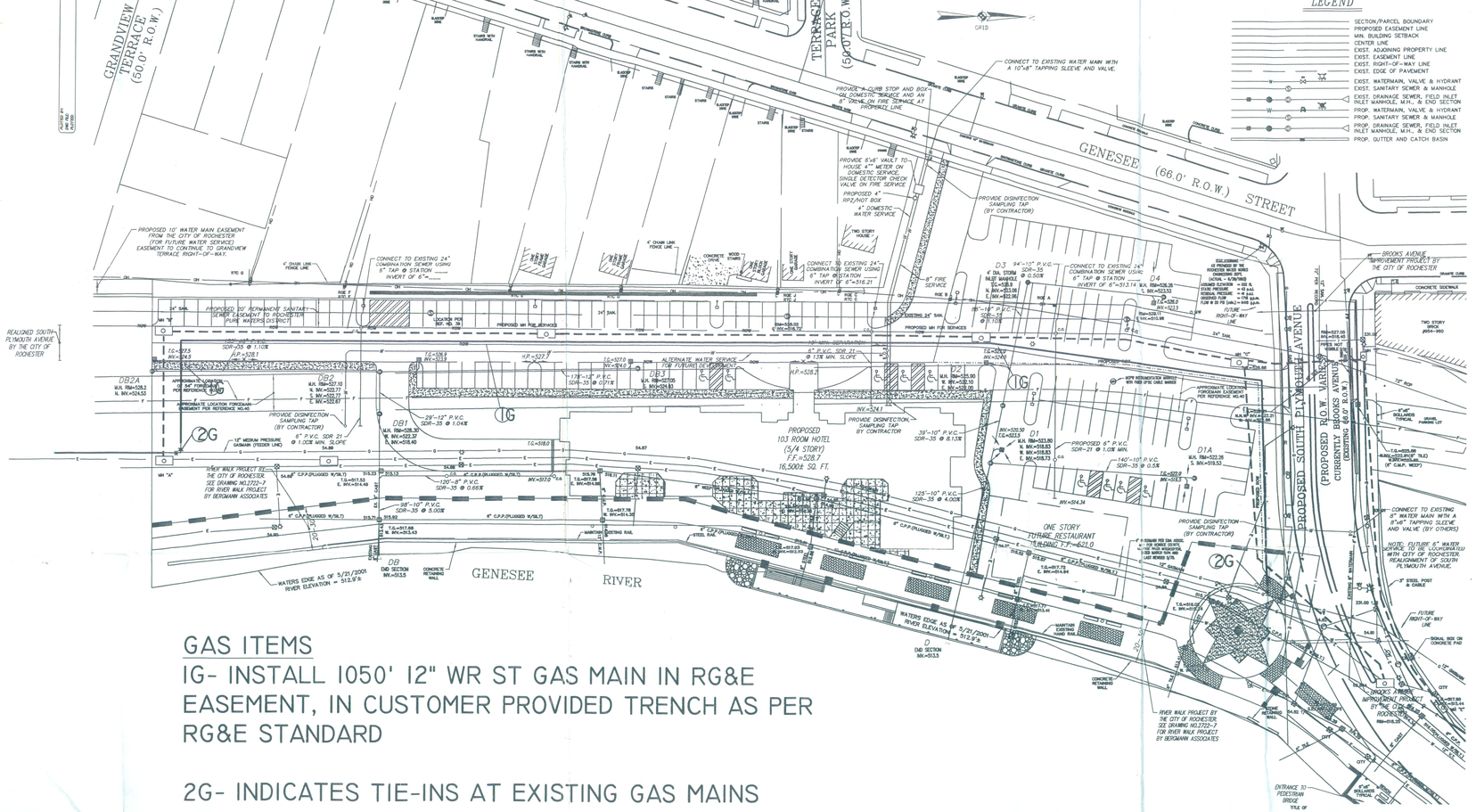
GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

ELECTRIC
PRELIMINARY

DATE	REVISION
2-25-2003	REVISED STM. SWR. DB-3 TO DB-2A. ADD PROP. ELEC AND GAS MAIN
1-30-2003	REVISED PER CITY OF ROCHESTER COMMENTS
1-16-2003	REVISED PER CITY OF ROCHESTER COMMENTS

ROCHESTER GAS & ELECTRIC CORPORATION
MARCH 6, 2003

PROJECT: BROOKS LANDING PRELIMINARY PLANS
TITLE OF DRAWING: REVISED UTILITY PLAN
PROJECT LOCATION: CITY OF ROCHESTER BEING PART OF THE 4,000 ACRE TRACT, CITY OF ROCHESTER COUNTY OF MONROE, STATE OF NEW YORK
CLIENT: CHRISTENSON CORPORATION 12 SOUTH 6TH STREET - SUITE 715 MINNEAPOLIS, MINNESOTA 55402 (612) 338-7173
DWG. NO: 2722-5



LEGEND

- SECTION/PARCEL BOUNDARY
- PROPOSED EASEMENT LINE
- MIN. BUILDING SETBACK
- CENTER LINE
- EXIST. ADJOINING PROPERTY LINE
- EXIST. EASEMENT LINE
- EXIST. RIGHT-OF-WAY LINE
- EXIST. EDGE OF PAVEMENT
- EXIST. WATERMAIN, VALVE & HYDRANT
- EXIST. SANITARY SEWER & MANHOLE
- EXIST. DRAINAGE SEWER, FIELD INLET INLET MANHOLE, M.H., & END SECTION
- PROP. WATERMAIN, VALVE & HYDRANT
- PROP. SANITARY SEWER & MANHOLE
- PROP. DRAINAGE SEWER, FIELD INLET INLET MANHOLE, M.H., & END SECTION
- PROP. GUTTER AND CATCH BASIN

ELECTRIC SYMBOLS

- HANDHOLE
- W UNDERGROUND CABLE REMOVAL
- MANHOLE
- 9-5" CONDUITS WITH CABLES

GAS SYMBOLS

- EXISTING GAS LINE
- 12" WR ST
- COUPLING AND EXTENSIONS
- REGULATOR

GAS ITEMS

IG- INSTALL 1050' 12" WR ST GAS MAIN IN RG&E EASEMENT, IN CUSTOMER PROVIDED TRENCH AS PER RG&E STANDARD

2G- INDICATES TIE-INS AT EXISTING GAS MAINS

SITE REQUIREMENTS

- o EXCAVATE THE TRENCH FOR RG&E FACILITIES. DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONTAIMINATED SOIL FROM SITE. SHALL REPLACE WITH CLEAN FILL TO RG&E STANDARDS
- o PROVIDE A 20' EASEMENT RIGHT TO ACCOMODATE G & E FACILITIES. CONTACT KEN KEMMET RG&E ROW AGENT 771-4515
- o PROVIDE A 20' EASEMENT RIGHT TO ACCOMODATE G & E FACILITIES SOUTH OF THE NORTH BOUNDRY LINE OF HOTEL PROPERTY.
- o REFERING TO DRAWING NOTE, REALIGNMENT OF SOUTH PLYMOUTH AVE BY THE CITY OF ROCHESTER. ANY RELOCATION OF RG&E FACILITIES WILL BE TOTALLY CHARGEABLE. A FINAL DESIGN SHALL BE SUBMITTED TO RG&E TO DESIGN AND PROVIDE AN ESTIMATE FOR SUCH WORK.
- o PROVIDE TO RG&E IT'S COSTS AND EXPENSES FOR THE RELOCATION OF IT'S FACILITIES TO ACCOMODATE THE PROJECT. RG&E IS REQUESTING THAT THE CUSTOMER PAY A LUMP SUM PAYMENT. UPON RECIEVING THE PAYMENT IN FULL RG&E WILL BEGIN THE DESIGN AND BID PROCESS. CUSTOMER SHALL SIGN AN RG&E GENERAL SERVICE AGREEMENT REFLECTING A COMMITMENT TO A LUMP SUM PAYMENT BASED ON THE ENGINEERING ESTIMATE PROVIDED WITH THIS PRELIMINARY DESIGN. CONTACT TIM HECKMAN RG&E MARKETING 771-2290 TO PROVIDE THIS APPLICATION. PAYMENT SHALL BE UPFRONT BEFORE RG&E BEGINS ANY WORK. THE DESIGN AND PROJECT WORK FOR THE FACILITIES ON GENESEE ST , SCOTTSVILLE RD AND ELMWOOD AVE WILL NOT BE DESIGNED UNTIL COMMITMENT TO PAYMENT IS MADE BY CUSTOMER.
- o PROVIDE A FINAL DRAWING SHOWING THE REQUESTED RIGHT AWAY EASEMENT AND THE RG&E PROPOSED SYSTEM
- o PROVIDE STAKING OF RG&E EASEMENT, PROPERTY LINE, RETAINING WALL, AND WEST WALL OF PROPOSED BUILDING STRUCTURES
- o SITE SHALL BE WITHIN 6" OF FINAL GRADE (PROPOSED UTILITY EASEMENT) AND FREE OF OBSTRUCTIONS. ALL LATERALS SHALL BE EXTENDED BEYOND UTILITY EASEMENT.
- o SCHEDULE A PRE CONSTRUCTION MEETING WITH ALL UTILITIES AND HAVE SITE READY FOR WALK THOROUGH WITH RG&E CONTRACTOR AND INSPECTOR

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

GAS

PRELIMINARY

DATE	REVISION
2-25-2003	REVISED STM. SWR. DB-3 TO DB-2A, ADD PROP. ELEC AND GAS MAIN
1-30-2003	REVISED PER CITY OF ROCHESTER COMMENTS
1-16-2003	REVISED PER CITY OF ROCHESTER COMMENTS

ROCHESTER GAS & ELECTRIC CORPORATION

MARCH 6, 2003

PROJECT: BROOKS LANDING
PRELIMINARY PLANS

TITLE OF DRAWING: REVISED UTILITY PLAN

PROJECT LOCATION: CITY OF ROCHESTER
BEING A 4.07± ACRE PARCEL OF LAND SITUATE IN THE TOWN OF BRIGHTON, CITY OF ROCHESTER COUNTY OF MONROE, STATE OF NEW YORK

CLIENT: CHRISTENSON CORPORATION
11 SOUTH 450 STREET - SUITE 700
NAPERVILLE, ILLINOIS 60563
(630) 369-7777

DWG. NO. 2722-5

TABLE 1
SUMMARY OF PID HEADSPACE READINGS (ppm)
Brooks Landing Urban Renewal District
Rochester, NY

Borehole	Depth (ft. bgs)	PID Readings		
		Peak (ppm)	Sustained (ppm)	Background (ppm)
GP 1	0-2	1.2	0.7	0.2
	2-4	1.1	1.0	0.1
	4-6	1.4	1.2	0.2
	6-8	2.1	1.6	0.4
	8-10	342	160	0.2
	10-12	828	550	1.0
	12-14	848	500	1.5
	14-16	499	200	8.0
	16-18	271	230	2.4
	18-20	1526	950	2.4
	20-22	412	200	4.2
	22-24	35	24	4.5
	24-25	305	200	4.4
GP 2	0-2	2.0	1.6	0.2
	2-4	2.7	1.7	0.2
	4-6	4.6	4.4	0.4
	6-8	4.1	2.5	0.5
	8-10	2.2	1.6	0.4
	10-12	7.5	5.4	0.5
	12-14	4.5	3.5	1.6
	14-16	91.0	70	1.9
	16-18	11.0	6.9	0.4
	18-19.5	28.5	24.3	0.7
GP 3	0-2	8.5	8.3	0.2
	2-4	3.4	3.4	0.2
	4-6	1.2	1.2	0.4
	6-8	1.6	1.6	0.4
	8-10	2.2	2.2	0.4
	10-12	2.4	2.4	0.4
	12-14	2.6	2.6	0.4
	14-16	2.2	2.2	0.5

Notes:
1. ft. bgs = feet below ground surface.
2. ppm = parts per million.
3. PID data collected with Mini Rae 2000 equipped with 10.6 eV lamp.

TABLE 1
SUMMARY OF PID HEADSPACE READINGS (ppm)
Brooks Landing Urban Renewal District
Rochester, NY

Borehole	Depth (ft. bgs)	PID Readings		
		Peak (ppm)	Sustained (ppm)	Background (ppm)
GP 4	0-2	2.8	2.7	0.2
	2-4	2.6	2.5	0.2
	4-6	1.1	1.1	1.0
	6-8	1.2	1.1	0.6
	8-10	44	43.5	0.6
	10-12	742	450	0.8
	12-14	2.4	1.9	1.0
	14-16	2.8	1.6	0.6
	16-18	1.7	1.5	0.2
	18-20	1.0	0.9	0.7
	20-22	1.0	0.9	0.7
	22-24	2.1	2.0	0.8
	24-25.5	3.0	2.8	0.9
GP 5	0-2	0.3	0.2	0.2
	2-4	0.5	0.3	0.2
	4-6	0.5	0.5	0.2
	6-8	0.7	0.5	0.2
	8-10	370	300.0	0.2
	10-12	4.9	4.5	4.4
	12-14	5.5	5.4	2.5
	14-16	29.8	19.1	2.8
	16-18	2.8	2.4	2.4
	18-20	2.1	1.9	1.3
GP 6	0-4	0.5	0.3	0.0
	4-6	0.8	0.6	0.0
	6-8	0.1	0.0	0.0
	8-10	1.0	0.2	0.1
	10-12	0.3	0.0	0.0
	12-14	0.0	0.0	0.0
	14-16	0.3	0.0	0.0
	16-18	0.5	0.0	0.0
	18-20	0.1	0.0	0.0
	20-22	0.2	0.0	0.0
	22-24	0.0	0.0	0.0
	24-26	0.1	0.0	0.0

Notes:
1. ft. bgs = feet below ground surface.
2. ppm = parts per million.
3. PID data collected with Mini Rae 2000 equipped with 10.6 eV lamp.

TABLE 1
SUMMARY OF PID HEADSPACE READINGS (ppm)
Brooks Landing Urban Renewal District
Rochester, NY

Borehole	Depth (ft. bgs)	PID Readings		
		Peak (ppm)	Sustained (ppm)	Background (ppm)
GP 7	0-4	10.2	8.6	0.0
	4-8	21.3	17.2	0.2
	8-10	1.6	1.1	0.0
	10-12	1.1	0	0.0
	12-14	0.6	0.3	0.0
	14-16	0.7	0.4	0.0
	16-18	1.0	1.0	0.1
	18-20	0.3	0.1	0.1
GP 8	0-4	0.0	0.0	0.0
	4-6	0.1	0.0	0.0
	6-8	0.0	0.0	0.0
	8-10	0.0	0.0	0.0
	10-12	0.2	0.1	0.0
	12-14	0.2	0.0	0.0
	14-16	0.0	0.0	0.0
GP 9	0-2	0.0	0.0	0.0
	2-4	0.1	0.0	0.0
	4-6	0.0	0.0	0.0
	6-8	0.1	0.0	0.0
	8-10	0.0	0.0	0.0
	10-12	0.0	0.0	0.0
	12-14	0.1	0.1	0.0
	14-16	0.0	0.0	0.0

Notes:
1. ft. bgs = feet below ground surface.
2. ppm = parts per million.
3. PID data collected with Mini Rae 2000 equipped with 10.6 eV lamp.

TABLE 1
SUMMARY OF PID HEADSPACE READINGS (ppm)
Brooks Landing Urban Renewal District
Rochester, NY

Borehole	Depth (ft. bgs)	PID Readings		
		Peak (ppm)	Sustained (ppm)	Background (ppm)
GP 10	0-4	0.0	0.0	0.0
	4-8	0.0	0.0	0.0
	8-12	0.0	0.0	0.0
	12-16	0.0	0.0	0.0
	16	0.0	0.0	0.0
GP 11	0-4	0.1	0.0	0.0
	4-8	0.0	0.0	0.0
	8-12	0.5	0.1	0.0
GP 12	0-4	0.0	0.0	0.0
	4-8	0.1	0.0	0.0
GP 13	0-2	0.1	0.0	0.0
	2-4	0.3	0.1	0.0
	4-6	0.1	0.1	0.0
	6-8	0.1	0.1	0.0
	8-10	0.1	0.1	0.0
	10-12	0.2	0.1	0.0
	12-14	0.1	0.1	0.1
GP 14	0-2	0.8	0.4	0.0
	2-4	1.0	0.6	0.0
	4-6	0.4	0.3	0.0
	6-8	1.0	0.7	0.1
	8-10	0.6	0.5	0.0
	10-12	0.7	0.6	0.0
	12-14	0.4	0.3	0.1
	14-16	2.1	1.7	0.1
	16-20	1.3	1.1	0.1
	20-22.5	0.3	0.1	0.1

Notes:
1. ft. bgs = feet below ground surface.
2. ppm = parts per million.
3. PID data collected with Mini Rae 2000 equipped with 10.6 eV lamp.

TABLE 1
SUMMARY OF PID HEADSPACE READINGS (ppm)
Brooks Landing Urban Renewal District
Rochester, NY

Borehole	Depth (ft. bgs)	PID Readings		
		Peak (ppm)	Sustained (ppm)	Background (ppm)
GP 15	0-2	0.8	0.2	0.0
	2-4	0.4	0.2	0.0
	4-6	0.6	0.3	0.0
	6-8	0.9	0.3	0.0
	8-10	0.8	0.6	0.0
	10-12	0.8	0.6	0.0
	12-16	0.8	0.3	0.0
GP 16	0-4	1.9	1.6	0.0
	4-8	5.5	4.4	0.0
	8-10	3.3	3.2	0.0
	10-12	59	58	0.6
	12-14	17.9	16.1	0.6
	14-16	10.1	9.0	0.8
GP 17	0-4	8.6	8.4	0.0
	4-6	0.3	0.2	0.0
	6-8	1.1	0.5	0.0
	8-10	464±	220±	0.0
	10-12	20	14	0.0
	12-14	58	52	0.6
	14-16	10.4	4.2	0.4
GP 18	0-4	0.5	0.3	0.0
	4-8	0.5	0.3	0.0
	8-12	1.2	0.6	0.0

Notes:
1. ft. bgs = feet below ground surface.
2. ppm = parts per million.
3. PID data collected with Mini Rae 2000 equipped with 10.2 eV lamp.

TABLE 1A
SUMMARY OF PEAK PID HEADSPACE READINGS (ppm)

Brooks Landing Urban Renewal District
Rochester, NY

Borehole	Depth (ft. bgs)	PID Readings		
		Peak 11.8 eV	Peak 10.2 eV	Background 10.2 eV
PZ-18	0-4'	0.0	0.4	0.4
	4-8'	0.0	0.4	0.4
	8-12'	0.0	0.4	0.4
	12-16'	0	2	0.4
	16-20'	15	5	0.4
	20-22'	0	2	0.4
PZ-19	0-4'	0.5	0.4	0.4
	4-8'	3.8	1.1	0.4
	8-12'	2.8	1.3	0.4
	12-16'	0.0	0.8	0.4
	16-20'	0.0	0.6	0.4
	20-23'	2.8	1.1	0.4
	23-25.2'	1.7	0.8	0.4
PZ-20	0-2'	NM	0.7	0.6
	2-4'	meter	0.7	0.6
	4-6'	malfunction	0.8	0.6
	6-8'		0.8	0.6
	8-12'		0.7	0.6
	12-14'		0.7	0.6
	14-16'		0.5	0.6
	16-18'		0.7	0.6
	18-19'		0.9	0.6
	19-22'		0.6	0.6
	22-24'		0.5	0.6
	24-25'		0.9	0.6
	25-27'		0.9	0.6
	27-29.5'		1.0	0.6
PZ-21	0-4'	0.0	0.3	0.3
	4-8'	0.0	0.3	0.3
	8-12'	0.0	0.3	0.3
	12-16'	0.0	0.4	0.3
	16-19'	0.0	0.4	0.3
	19-22'	0.0	0	0.3
	22-25'	0.0	0.4	0.3
	25-28'	0.0	0.4	0.3

Notes:
1. ft. bgs = feet below ground surface.
2. ppm = parts per million.
3. PID data collected with Hnu DL-101 equipped with 10.2 eV lamp, and Thermo Environmental Instruments 580B OVM w/11.8 eV lamp.

TABLE 1A
SUMMARY OF PEAK PID HEADSPACE READINGS (ppm)
Brooks Landing Urban Renewal District
Rochester, NY

Borehole	Depth (ft. bgs)	PID Readings		
		Peak 11.8 eV	Peak 10.2 eV	Background 10.2 eV
GP-22	0-4'	NM	2.7	0.5
	4-8'	meter	16.5 carbon	0.5
		malfunction	3.4 white material	0.5
	8-12'		3.5	0.5
	12-16'		0.9	0.5
GP-23	0-4'	NM	0.8	0.5
	4-8'	meter	3.5	0.5
	8-12'	malfunction	3.0	0.5
	12-16'		2.5	0.5
GP-24	0-4'	10.8	8.7	0.5
	4-8'	2.4	2.9	0.5
	8-12'	1.6	3.7	0.5
	12-16'	1.6	1.4	0.5
GP-25	0-4'	4.6	5.0	0.5
	4-8'	11.8	6.1	0.5
	8-12'	3.9	1.7	0.5
	12-16'	0.5	0.9	0.5
GP-26	0-4'	8.4	2.7	0.5
	4-8'	63.1	29.7	0.5
	8-12'	8.4	3.7	0.5
	12-16'	1.6	0.9	0.5
GP-27	0-4'	8.4	5.1	0.5
	4-8'	26.1	6.3	0.5
	8-11'	1.6	0.9	0.5
GP-28	0-4'	2.8	1.8	0.5
	4-8'	8.4	2.7	0.5
	8-12'	2.8	1.3	0.5
	12-16'	1.6	0.6	0.5

Notes:
1. ft. bgs = feet below ground surface.
2. ppm = parts per million.
3. PID data collected with Hnu DL-101 equipped with 10.2 eV lamp, and Thermo Environmental Instruments 580B OVM w/11.8 eV lamp.

TABLE 1A
SUMMARY OF PEAK PID HEADSPACE READINGS (ppm)
Brooks Landing Urban Renewal District
Rochester, NY

Borehole	Depth (ft. bgs)	PID Readings		
		Peak 11.8 eV	Peak 10.2 eV	Background 10.2 eV
GP-28	0-4'	2.8	1.8	0.5
	4-8'	8.4	2.7	0.5
	8-12'	2.8	1.3	0.5
	12-16'	1.6	0.6	0.5
GP-29	0-4'	1.6	0.5	0.5
	4-8'	5.2	0.5	0.5
	8-12'	0.0	0.5	0.5
	12-16'	0.0	0.5	0.5
GP-30	0-4'	7.2	4.0	0.5
	4-8'	16.3	6.3	0.5
	8-12'	2.8	2.1	0.5
	12-16'	7.2	1.5	0.5
GP-31	0-4	6.1	1.6	0.5
	4-8	22.1	3.8	0.5
	8-12	5.2	1.5	0.5
	12-16	1.6	1.6	0.5
GP-32	0-4	0.0	0.6	0.5
	4-8	0.0	2.3	0.5
	8-12	0.0	0.9	0.5
GP-33	0-4'	NM	0.6	0.5
	4-8'	meter	1.0	0.5
	8-12'	malfunction	29.1	0.5
	12-16'		3.9	0.5
GP-34	0-4		1.6	0.5
	4-8		2.4	0.5

Notes:
1. ft. bgs = feet below ground surface.
2. ppm = parts per million.
3. PID data collected with Hnu DL-101 equipped with 10.2 eV lamp, and Thermo Environmental Instruments 580B OVM w/11.8 eV lamp.

TABLE 1A
SUMMARY OF PEAK PID HEADSPACE READINGS (ppm)

Brooks Landing Urban Renewal District
Rochester, NY

Borehole	Depth (ft. bgs)	PID Readings		
		Peak 11.8 eV	**Peak** 10.2 eV	**Background** 10.2 eV
GP-35	0-4'	NM	1.5	0.5
	4-8'	meter	1.2	0.5
		malfunction		
GP-36	0-4'	NM	1.3	0.5
	4-8'	meter	6.3	0.5
	8-12'	malfunction	2.2	0.5
GP-37	0-4'	NM	1.4	0.9
	4-8'	meter	3.4	0.9
	8-12'	malfunction	1.4	0.9
GP-38	0-4'	NM	2.8	0.9
	4-8'	meter	6.0	0.9
	8-12'	malfunction	2.4	0.9
GP-39	0-4'	NM	3.4	0.9
	4-8'	meter	7.3	0.9
	8-12'	malfunction	3.3	0.9
GP-40	0-4'	NM	3.1	0.9
	4-8'	meter	2.2	0.9
	8-12'	malfunction	2.1	0.9
GP-41	0-4'	NM	3.2	0.9
	4-8'	meter	8.9	0.9
	8-12'	malfunction	6.4	0.9
GP-42	0-4'	NM	3.0	0.9
	4-8'	meter	9.5	0.9
	8-12'	malfunction	3.8	0.9

Notes:
1. ft. bgs = feet below ground surface.
2. ppm = parts per million.
3. PID data collected with Hnu DL-101 equipped with 10.2 eV lamp, and Thermo Environmental Instruments 580B OVM w/11.8 eV lamp.

TABLE 1A
SUMMARY OF PEAK PID HEADSPACE READINGS (ppm)
Brooks Landing Urban Renewal District
Rochester, NY

Borehole	Depth (ft. bgs)	PID Readings		
		Peak 11.8 eV	**Peak** 10.2 eV	**Background** 10.2 eV
GP-43	0-4'	NM	2.3	0.9
	4-8'	meter	1.8	0.9
		malfunction		
GP-44	0-4'	NM	2.3	0.9
	4-8'	meter	3.3	0.9
	8-12'	malfunction	1.4	0.9
GP-45	0-4'	NM	1.6	0.9
	4-8'	meter	3.3	0.9
		malfunction		
GP-46	0-4'	NM	1.8	0.9
	4-8'	meter	3.1	0.9
		malfunction		
GP-47	0-4'	NM	1.3	0.9
	4-8'	meter	2.4	0.9
		malfunction		

Notes:
1. ft. bgs = feet below ground surface.
2. ppm = parts per million.
3. PID data collected with Hnu DL-101 equipped with 10.2 eV lamp, and Thermo Environmental Instruments 580B OVM w/11.8 eV lamp.

TABLE 2
SOIL SAMPLE SUMMARY

Five Parcels in the Brooks Landing Urban Renewal District
Rochester, NY

Sample ID/Description	Location	Date	Depth (ft. bgs)	Parameters
NATIVE DEPOSITS				
GP 1 (14') Black Lens in Brown Silty Clay	GP 1	10/25/2002	14	TCL/STARS VOCs by EPA 8260 STARS SVBNs by EPA 8270
GP 1 (24' - 25') Red-to-Gray and Black Sand	GP 1	10/25/2002	24 to 25	TCL/STARS VOCs by EPA 8260
GP 2 (14') Black Lens in Red-Brown Silty Clay	GP 2	10/25/2002	14	TCL/STARS VOCs by EPA 8260 STARS SVBNs by EPA 8270
GP 4 (10' - 12') Red-Brown Silty Clay	GP 4	10/25/2002	10 to 12	TCL/STARS VOCs by EPA 8260 STARS SVBNs by EPA 8270
GP 14 (15') Black Sand	GP 14	10/29/2002	15	TCL/STARS VOCs by EPA 8260
GP 16 (10' - 12') Gray-Brown Silty Clay	GP 16	10/29/2002	10 to 12	TCL/STARS VOCs by EPA 8260 STARS SVBNs by EPA 8270
GP 17 (8' - 10') Red-Gray Silty Clay	GP 17	10/29/2002	8 to 10	TCL/STARS VOCs by EPA 8260
PZ-18 (16'-20') Light Brown Sand w/Black Striations	PZ-18	11/21/2002	16 to 20	TCL/STARS VOCs by EPA 8260 STARS SVBNs by EPA 8270
PZ-20 (16'-18') Brown Silty Sand	PZ-20	11/20/2002	16 to 18	TCL/STARS VOCs by EPA 8260
PZ-21 (16'-19') Red-Brown Silty Sand	PZ-21	11/1/2102	16 to 19	TCL/STARS VOCs by EPA 8260
GP-23 (4'-8') Light Brown Sand	GP-23	11/20/2002	4 to 8	TCL/STARS VOCs by EPA 8260
GP-29 (4'-8') Light Brown Sily Sand	GP-29	11/20/2002	4 to 8	TCL/STARS VOCs by EPA 8260

TABLE 2
SOIL SAMPLE SUMMARY

Five Parcels in the Brooks Landing Urban Renewal District
Rochester, NY

Sample ID/Description	Location	Date	Depth (ft. bgs)	Parameters
SHALLOW GRANULAR FILL				
GP 5 (8' - 10') Black Gravel, Red Fine Sand, Gray Clayey Silt	GP 5	10/25/2002	8 to 10	TCL/STARS VOCs by EPA 8260
GP 10 (0' - 4') Brown, Gray Sand and Silt	GP 10	10/28/2002	0 to 4	8 RCRA Metals PCBs by EPA 8082 TCL Herbicides by EPA 8151
GP 11 (0' - 4') Brown Gray Sand and Gravel	GP 11	10/28/2002	0 to 4	8 RCRA Metals PCBs by EPA 8082 TCL Herbicides by EPA 8151
GP 12 (0' - 4') Brown-Gray Sand and Gravel	GP 12	10/28/2002	0 to 4	8 RCRA Metals PCBs by EPA 8082 TCL Herbicides by EPA 8151
GP-24 (0'-4') Red-Brown Silty Sand, Blue-Green Powder Lens	GP-24	11/20/2002	0 to 4	TCL/STARS VOCs by EPA 8260 8 RCRA Metals PCBs by EPA 8082 TPH by NYSDOH 310-13
GP-25 (4'-8') Red-Brown Silty Sand, Cinder and White Fill Material	GP-25	11/20/2002	4 to 8	TCL/STARS VOCs by EPA 8260
GP-32 (0'-4') Orange-Brown Silty Sand with Brick, Glass and Cinders	GP-32	11/21/2002	0 to 4	8 RCRA Metals PCBs by EPA 8082
GP 39 (0' - 4') Black Cinder and Ash	GP 39	11/25/2002	0 to 4	TCL SVOCs by EPA 8270

TABLE 2
SOIL SAMPLE SUMMARY

Five Parcels in the Brooks Landing Urban Renewal District
Rochester, NY

Sample ID/Description	Location	Date	Depth (ft. bgs)	Parameters
BLACK CARBON FILL				
GP 7 (4' - 8') Black Granular Carbon	GP 7	10/28/2002	4 to 8	TCL/STARS VOCs by EPA 8260 TLC SVOCs by EPA 8270 TOC
PZ 19 (4'-8') Black Granular Carbon	PZ 19	11/21/2002	4 to 8	TCL/STARS VOCs by EPA 8260 8 RCRA Metals PCBs by EPA 8082 TPH by NYSDOH 310-13
GP 22 (4' - 8') Black Granular Carbon	GP 22	11/20/2002	4 to 8	TCL/STARS VOCs by EPA 8260 TOC
GP 26 (4' - 8') Black Granular Carbon	GP 26	11/20/2002	4 to 8	TCLP VOCs TCL/STARS VOCs by EPA 8260 TOC
GP 27 (4' - 8') Black Granular Carbon	GP 27	11/20/2002	4 to 8	TCLP VOCs TCL/STARS VOCs by EPA 8260
GP 28 (4' - 8') Black Granular Carbon	GP 28	11/20/2002	4 to 8	TCL/STARS VOCs by EPA 8260 8 RCRA Metals PCBs by EPA 8082 TPH by NYSDOH 310-13
GP 30 (4' - 8') Black Granular Carbon	GP 30	11/21/2002	4 to 8	TCLP VOCs TCL/STARS VOCs by EPA 8260
GP 31 (4' - 8') Black Granular Carbon	GP 31	11/21/2002	4 to 8	TCL/STARS VOCs by EPA 8260 TOC
GP 36 (4' - 8') Black Granular Carbon	GP 36	11/25/2002	4 to 8	TCLP VOCs TCL/STARS VOCs by EPA 8260
GP 41 (4' - 8') Black Granular Carbon	GP 41	11/25/2002	4 to 8	TCLP VOCs TCL/STARS VOCs by EPA 8260
GP 43 (4' - 8') Black Granular Carbon	GP 43	11/25/2002	4 to 8	TCLP VOCs

Notes:
1. ft. bgs = feet below ground surface.

TABLE 3
WELL COMPLETION SUMMARY
Brooks Landing Urban Renewal District
Rochester, NY

Well	Reference Elevation	Well Diameter (in.)	Bentonite Seal (ft. bgs)	Sandpack Interval (ft. bgs)	Screened Interval (ft. bgs)	Total Depth (ft. bgs)
Newly Installed Wells						
PZ-1	529.11	1	0.5 - 2	2-25	10-25	25
PZ-2	528.39	1	0.5 - 2	2-19.5	9.5-19.5	19.5
PZ-4	528.64	1	0.5 - 2	2-25.5	10.5-25.5	25.5
PZ-5	529.18	1	0.5 - 2	2-19	9-19	19
PZ-7	529.79	1	0.5 - 2	2-20	10-20	20
PZ-14	528.01	1	0.5 - 2	2-20	10-20	20
PZ-16	529.07	1	0.5 - 2	2-16	11-16	16
PZ-17	529.22	1	0.5 - 2	2-16	11-16	16
PZ-18	528.28	1	5-10	10-22.5	12.5-22.5	22.5
PZ-19	529.33	1	5-10	10-23	13-23	25.2
PZ-20	530.53	1	5-10	10-29	14-29	29.5
PZ-21	529.90	1	5-10	10-28	13-28	28.0
Existing Wells						
MW-1	529.02	4	unknown	unknown	unknown	23.5
MW-4	530.97	2	unknown	unknown	unknown	22.3
MW-5	528.07	4	unknown	unknown	unknown	20.3
RW	528.60	2	unknown	unknown	unknown	17.5

TABLE 4
WELL DEVELOPMENT SUMMARY
Brooks Landing Urban Renewal District
Rochester, NY

Well	Date	Volume Purged (gal)	pH (SU)	Conductivity (umhos/cm)	Temperature (^{o}C)	Dissolved Oxygen (mg/l)	Turbidity (NTU)
PZ-1	10/30/02	1	NM-P	NM-P	NM-P	NM-P	NM-P
	11/07/02	sample	NM-P	NM-P	NM-P	NM-P	NM-P
PZ-2	10/30/02	0.2	6.28	1348	13.8	4.14	>200
		dry after 1 well volume					
		sample	6.95	1315	13.6	3.04	>200
PZ-4	10/30/02	0.28	6.91	1594	14.8	5.07	>200
		0.56	7.00	1857	13.6	3.85	>200
		0.84	6.97	2399	14.1	4.34	>200
		sample	6.99	2772	13.7	3.59	>200
PZ-5	10/30/02	0.14	7.01	794.2	14.80	NM-I	>200
		dry after 1 well volume					
		sample	7.36	800.02	14.10	NM-I	NM-I
PZ-7	10/30/02	0.10	6.63	1408	14.5	NM-I	>200
		dry after 1 well volume					
		sample	7.21	1460	11.9	3.75	>200
	11/22/02	0.14	6.82	918.4	14.6	13.30	>200
		dry after 1 well volume					
		sample					
PZ-14	10/31/02	0.24	5.90	2206	12.9	2.48	>200
		0.48	6.16	1658	14.1	1.89	>200
		0.72	6.29	1626	14.2	2.00	121
		sample	6.40	1633	13.9	2.75	43.5
PZ-16	10/30/02	0.13	7.15	2116	15.6	3.23	>200
		dry after 1 well volume					
		sample	NM-I	NM-I	NM-I	NM-I	NM-I

Notes:
1. NM-P = Not Measured due to observed petroleum impacts
2. NM-I = Not Measured due to insufficient volume
3. gal = gallons
4. SU = standard units.
5. umhos/cm = micromhos per centimeter.
6. (^{o}C) = degrees Celcius.
7. mg/l = milligrams per liter
8. NTU = Nephelometric Turbidity Units.

TABLE 4
WELL DEVELOPMENT SUMMARY
Brooks Landing Urban Renewal District
Rochester, NY

Well	Date	Volume Purged (gal)	pH (SU)	Conductivity (umhos/cm)	Temperature (^{o}C)	Dissolved Oxygen (mg/l)	Turbidity (NTU)
PZ-17	10/30/02	0.2	7.25	1071	14.2	3.23	>200
		dry after 1 well volume sample	6.93	971.6	13.5	3.23	>200
PZ-18	11/22/02	0.3	6.99	836	14.1	5.63	>200
PZ-19	11/01/02	0.25	6.59	2249	14.8	5.59	200+
		0.5	6.71	2233	14.4	4.70	200+
		0.75	6.44	2241	14.5	4.24	200+
PZ-20	11/01/02	0.5	6.96	1069	14.6	9.40	>200
		1	6.97	1203	14.7	8.50	>200
		1.5	6.68	961	14.2	6.80	>200
PZ-21	11/01/02	0.5	7.06	1220	13.8	6.00	>200
		1	7.06	878	13.9	3.38	>200
		1.5	7.07	754	13.7	2.83	>200
MW-1	10/31/02	5.9	7.07	1685	13.2	4.90	84.3
		12	7.47	2226	13.3	3.39	65
		18	7.01	2531	13.2	3.50	54.0
		sample	7.13	2511	12.4	3.72	70
MW-4	10/31/02	0.2	7.22	624.3	12.2	3.45	>200
		dry after 1 well volume sample	7.04	661.2	13.6	3.24	>200
MW-5	10/31/02	4.1	7.16	2510	14.0	3.95	>200
		8.2	7.40	2766	14.0	3.52	>200
		dry after 2 well volumes sample	7.57	3192	12.4	3.68	>200
RW	11/07/02	2	6.52	2050	12.5	1.65	>200
		4	6.63	2156	13.5	1.80	>200
		6	7.09	2085	13.9	2.72	>200
		sample	7.20	2084	13.9	2.52	>200

Notes:
1. NM-P = Not Measured due to observed petroleum impacts
2. NM-I = Not Measured due to insufficient volume
3. gal = gallons
4. SU = standard units.
5. umhos/cm = micromhos per centimeter.
6. (^{o}C) = degrees Celcius.
7. mg/l = milligrams per liter
8. NTU = Nephelometric Turbidity Units.

TABLE 5
WATER LEVEL SUMMARY

Brooks Landing Urban Renewal District
Rochester, NY

Well	Reference Elevation	November 6, 2002		November 11, 2002		November 27, 2002	
		Water Level (ft. btoc)	Water Level (elevation)	Water Level (ft. btoc)	Water Level (elevation)	Water Level (ft. btoc)	Water Level (elevation)
PZ-1	529.11	13.36	515.75	13.51	515.60	13.52	515.59
PZ-2	528.39	13.97	514.42	13.99	514.40	13.63	514.76
PZ-4	528.64	13.46	515.18	13.41	515.23	12.76	515.88
PZ-5	529.18	13.98	515.20	12.45	516.73	10.94	518.24
PZ-7	529.79	14.40	515.39	14.68	515.11	14.35	515.44
PZ-14	528.01	14.27	513.74	14.27	513.74	13.94	514.07
PZ-16	529.07	11.82	517.25	10.63	518.44	9.50	519.57
PZ-17	529.22	10.07	519.15	10.15	519.07	9.06	520.16
PZ-18	528.28	-	-	-	-	13.96	514.32
PZ-19	529.33	-	-	-	-	15.01	514.32
PZ-20	530.53	-	-	-	-	14.90	515.63
PZ-21	529.90	-	-	-	-	14.47	515.43
MW-1	529.02	14.28	514.74	14.15	514.87	13.88	515.14
MW-4	530.97	14.27	516.70	13.56	517.41	12.06	518.91
MW-5	528.07	13.90	514.17	13.85	514.22	13.50	514.57
RW	528.60	14.32	514.28	14.45	514.15	14.18	514.42

Notes:

1. Reference elevations measured at top of PVC well riser are based upon "Brooks" USC & GS benchmark = 529.30 ft amsl; approx. 150 ft. south of intersection of Brooks Ave. and Genesee St., east side of Genesee St. The benchmark elevation is tied to Rocheser City Datum for comparison to sewer inverts.
2. ft. btoc = feet below top of casing.

TABLE 6
GROUNDWATER SAMPLE SUMMARY

Five Parcels in the Brooks Landing Urban Renewal District
Rochester, NY

Sample ID	Location	Date	Method	Parameters
PZ-1	PZ-1	10/30/2002	Peristaltic Pump	TPH by NYSDOH 310-13
PZ-1	PZ-1	11/7/2002	Peristaltic Pump	TCL/STARS VOCs by EPA 8260 STARS SVBNs by EPA 8270
PZ-2	PZ-2	10/30/2002	Peristaltic Pump	TCL/STARS VOCs by EPA 8260
PZ-4	PZ-4	10/30/2002	Peristaltic Pump	TCL/STARS VOCs by EPA 8260 STARS SVBNs by EPA 8270
PZ-5	PZ-5	10/30/2002	Peristaltic Pump	TCL/STARS VOCs by EPA 8260
PZ-7	PZ-7	10/30/2002	Peristaltic Pump	TCL/STARS VOCs by EPA 8260
PZ7-11/02	PZ-7	11/22/2002	Peristaltic Pump	TCL/STARS VOCs by EPA 8260 Nitrate Sulfate
PZ-14	PZ-14	10/30/2002	Peristaltic Pump	TCL/STARS VOCs by EPA 8260 STARS SVBNs by EPA 8270
PZ-16	PZ-16	10/30/2002	Peristaltic Pump	TCL/STARS VOCs by EPA 8260
PZ-17	PZ-17	10/30/2002	Peristaltic Pump	TCL/STARS VOCs by EPA 8260
MW-1	MW-1	10/31/2002	PVC Bailer	TCL/STARS VOCs by EPA 8260
MW-4	MW-4	10/31/2002	Peristaltic Pump	TCL/STARS VOCs by EPA 8260 STARS SVBNs by EPA 8270
MW-5	MW-5	10/31/2002	PVC Bailer	TCL/STARS VOCs by EPA 8260
RW	RW	11/7/2002	PVC Bailer	TCL/STARS VOCs by EPA 8260
PZ18-11/02	PZ-18	11/22/2002	Peristaltic Pump	TCL/STARS VOCs by EPA 8260
PZ19-11/02	PZ-19	11/22/2002	Peristaltic Pump	TCL/STARS VOCs by EPA 8260 Nitrate Sulfate
PZ20-11/02	PZ-20	11/22/2002	Peristaltic Pump	TCL/STARS VOCs by EPA 8260
PZ21-11/02	PZ-21	11/22/2002	Peristaltic Pump	TCL/STARS VOCs by EPA 8260

TABLE 7
HYDRAULIC CONDUCTIVITY SUMMARY

Five Parcels in the Brooks Landing Urban Renewal District
Rochester. New York

Well ID	K- value (cm/sec)	
	Rising Head Test	Falling Head Test
PZ-4	4.62E-03	2.38E-03
PZ-14	1.26E-03	8.66E-04
PZ-18	8.05E-04	8.36E-04
PZ-19	5.10E-04	9.48E-04
PZ-20	4.04E-04	2.27E-04
PZ-21	1.51E-04	5.85E-04

Geometric Mean for the Site= 0.00075 cm/sec

TABLE 8
SUMMARY OF TCL/STARS VOLATILE ORGANIC COMPOUNDS IN SOIL
Five Parcels in the Brooks Landing Urban Renewal District
Rochester, NY

	Soil Samples									Recommended Soil Cleanup Objective [1]
TCL STARS VOCs	**GP-1 14'**	**GP-1 24'-25'**	**GP-2 14'**	**GP-4 10'-12'**	**GP-5 8'-10'**	**GP - 7 4' - 8'**	**GP 14 15'**	**GP-16 10' - 12'**	**GP 17 8' - 10'**	
Volatile Halocarbons										
Bromodichloromethane	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	10,000 *
Bromomethane	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	10,000 *
Bromoform	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	10,000 *
Carbon tetrachloride	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	600
Chloroethane	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	1,900
Chloromethane	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	10,000 *
2-Chloroethyl vinyl ether	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	10,000 *
Chloroform	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	300
Dibromochloromethane	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	10,000 *
1,1-Dichloroethane	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	200
1,2-Dichloroethane	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	100
1,1-Dichloroethene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	400
cis-1,2-Dichloroethene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	**695**	ND< 7.52	ND< 11.3	ND< 482	10,000 *
trans-1,2-Dichloroethene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	300
1,2-Dichloropropane	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	10,000 *
cis-1,3-Dichloropropene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	10,000 *
trans-1,3-Dichloropropene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	10,000 *
Methylene chloride	ND< 245	ND< 35.1	ND< 29.4	ND< 64.4	ND< 21.8	ND< 275	ND< 18.8	ND< 28.3	ND< 1,200	100
1,1,2,2-Tetrachloroethane	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	600
Tetrachloroethene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	1,400
1,1,1-Trichloroethane	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	800
1,1,2-Trichloroethane	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	10,000 *
Trichloroethene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	***10,700***	ND< 7.52	ND< 11.3	ND< 482	700
Trichlorofluoromethane	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	10,000 *
Vinyl Chloride	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	200
Volatile Aromatics										
Benzene	ND< 98.1	***64.4***	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	60 or MDL
Chlorobenzene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	1,700
Ethylbenzene	**4,690**	**335**	**522**	ND< 25.7	**35.9**	ND< 275	ND< 7.52	**13.5**	***2,080***	5,500
Toluene	ND< 98.1	**20.9**	**19.9**	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	1,500
m,p - Xylene	***20,000***	***1,440***	**249**	ND< 25.7	**424**	ND< 275	ND< 7.52	**139**	***8,590***	1,200
o - Xylene	**431**	**38.0**	ND< 11.8	ND< 25.7	**128**	ND< 275	ND< 7.52	**15.7**	***2,960***	600
Styrene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	10,000 *
1,2-Dichlorobenzene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	7,900
1,3-Dichlorobenzene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	1,600
1,4-Dichlorobenzene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND< 275	ND< 7.52	ND< 11.3	ND< 482	8,500

TABLE 8
SUMMARY OF TCL/STARS VOLATILE ORGANIC COMPOUNDS IN SOIL
Five Parcels in the Brooks Landing Urban Renewal District
Rochester, NY

	Soil Samples									Recommended Soil Cleanup Objective [1]
TCL STARS VOCs	**GP-1 14'**	**GP-1 24'-25'**	**GP-2 14'**	**GP-4 10'-12'**	**GP-5 8'-10'**	**GP - 7 4' - 8'**	**GP 14 15'**	**GP-16 10' - 12'**	**GP 17 8' - 10'**	
Ketones & Misc.										
Acetone	ND< 491	ND< 70.1	ND< 58.9	***359***	**171**	ND< 1,370	**45.1**	ND< 56.6	ND< 2,410	200
2-Butanone	ND< 245	ND< 35.1	ND< 29.4	ND< 64.4	ND< 21.8	ND< 687	ND< 18.8	ND< 28.3	ND< 1,200	300
2-Hexanone	ND< 245	ND< 35.1	ND< 29.4	ND< 64.4	ND< 21.8	ND< 687	ND< 18.8	ND< 28.3	ND< 1,200	10,000 *
4-Methyl-2-pentanone	ND< 245	ND< 35.1	ND< 29.4	ND< 64.4	ND< 21.8	ND< 687	ND< 18.8	ND< 28.3	ND< 1,200	1,000
Carbon disulfide	ND< 245	ND< 35.1	ND< 29.4	ND< 64.4	ND< 21.8	ND< 687	ND< 18.8	ND< 28.3	ND< 1,200	2,700
Vinyl acetate	ND< 245	ND< 35.1	ND< 29.4	ND< 64.4	ND< 21.8	ND< 687	ND< 18.8	ND< 28.3	ND< 1,200	10,000 *
Additional STARS Compounds										
n-Butylbenzene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND<	ND< 7.52	ND< 11.3	ND< 482	10,000 *
sec-Butylbenzene	**372**	**37.7**	**334**	ND< 25.7	**17.5**	ND<	ND< 7.52	ND< 11.3	ND< 482	10,000 *
tert-Butylbenzene	**1,840**	**129**	ND< 11.8	ND< 25.7	**94.8**	ND<	ND< 7.52	ND< 11.3	ND< 482	10,000 *
n-Propylbenzene	**2,850**	**200**	**806**	ND< 25.7	**62.5**	ND<	ND< 7.52	**65.9**	**1,280**	3,700
Isopropylbenzene	**890**	**81.5**	**422**	ND< 25.7	**21.8**	ND<	ND< 7.52	**26.5**	ND< 482	2,300
p-Isopropyltoluene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND<	ND< 7.52	ND< 11.3	ND< 482	10,000 *
Naphthalene	**2,090**	**439**	ND< 29.4	**71.4**	**174**	ND<	ND< 18.8	**54.8**	**1,950**	13,000
1,2,4-Trimethylbenzene	E ***16,600***	**1,150**	E **1,830**	**79.6**	**875**	ND<	ND< 7.52	**207**	**8,800**	10,000 *
1,3,5-Trimethylbenzene	***5,330***	**390**	ND< 11.8	ND< 25.7	**211**	ND<	ND< 7.52	**81.3**	**2,240**	3,300
Miscellaneous										
Methyl tert-butyl Ether	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 8.71	ND<	ND< 7.52	ND< 11.3	ND< 482	120

Notes:
1. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum, TAGM 4046.
2. ug/kg = all values expressed in micrograms per kilogram (equivalent to parts per billion).
3. **Bolded** values are parameters that have been detected.
4. **Bolded**, Underlined, and *Italicized* values are reported concentrations above the NYSDEC recommended soil cleanup objective.
5. * = As per TAGM 4046, individual and sum of VOCs not listed may not exceed 10,000 ppb.
6. MDL = Method Detection Limit.

TABLE 8
SUMMARY OF TCL/STARS VOLATILE ORGANIC COMPOUNDS IN SOIL
Five Parcels in the Brooks Landing Urban Renewal District
Rochester, NY

	Soil Samples									Recommended Soil Cleanup Objective [1]
TCL STARS VOCs	**PZ-20 16-18'**	**GP-22 4-8'**	**GP-23 4-8'**	**GP-24 0-4'**	**GP-25 4-8'**	**GP-26 4-8'**	**GP-27 4-8'**	**GP-28 4-8'**	**GP-29 4-8'**	
Volatile Halocarbons										
Bromodichloromethane	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	10,000 *
Bromomethane	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	10,000 *
Bromoform	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	10,000 *
Carbon tetrachloride	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	600
Chloroethane	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	1,900
Chloromethane	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	10,000 *
2-Chloroethyl vinyl ether	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	10,000 *
Chloroform	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	300
Dibromochloromethane	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	10,000 *
1,1-Dichloroethane	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	200
1,2-Dichloroethane	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	100
1,1-Dichloroethene	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	400
cis-1,2-Dichloroethene	ND< 7.80	**894**	ND< 9.49	ND< 7.20	ND< 7.53	**1,480**	**1,490**	**334**	ND< 6.53	10,000 *
trans-1,2-Dichloroethene	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	300
1,2-Dichloropropane	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	10,000 *
cis-1,3-Dichloropropene	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	10,000 *
trans-1,3-Dichloropropene	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	10,000 *
Methylene chloride	ND< 19.5	ND< 297	ND< 23.7	ND< 18.0	ND< 18.8	ND< 2,550	ND< 3,330	ND< 368	ND< 16.3	100
1,1,2,2-Tetrachloroethane	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	600
Tetrachloroethene	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	1,400
1,1,1-Trichloroethane	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	800
1,1,2-Trichloroethane	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	10,000 *
Trichloroethene	ND< 7.80	***11,100***	**10.4**	**133**	**42.3**	***25,900***	***26,200***	***5,550***	ND< 6.53	700
Trichlorofluoromethane	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	10,000 *
Vinyl Chloride	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	200
Volatile Aromatics										
Benzene	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	60 or MDL
Chlorobenzene	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	1,700
Ethylbenzene	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	5,500
Toluene	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	1,500
m,p - Xylene	ND< 7.80	ND< 119	**9.89**	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	1,200
o - Xylene	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	600
Styrene	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	10,000 *
1,2-Dichlorobenzene	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	7,900
1,3-Dichlorobenzene	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	1,600
1,4-Dichlorobenzene	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.53	ND< 1,020	ND< 1,330	ND< 147	ND< 6.53	8,500

TABLE 8
SUMMARY OF TCL/STARS VOLATILE ORGANIC COMPOUNDS IN SOIL
Five Parcels in the Brooks Landing Urban Renewal District
Rochester, NY

	Soil Samples									Recommended Soil Cleanup Objective [1]
TCL STARS VOCs	**PZ-20 16-18'**	**GP-22 4-8'**	**GP-23 4-8'**	**GP-24 0-4'**	**GP-25 4-8'**	**GP-26 4-8'**	**GP-27 4-8'**	**GP-28 4-8'**	**GP-29 4-8'**	
Ketones & Misc.										
Acetone	ND< 39.0	ND< 594	ND< 47.4	ND< 36.0	ND< 37.6	ND< 5,100	ND< 6,670	ND< 737	ND< 32.7	200
2-Butanone	ND< 19.5	ND< 297	ND< 23.7	ND< 18.0	ND< 18.8	ND< 2,550	ND< 3,330	ND< 368	ND< 16.3	300
2-Hexanone	ND< 19.5	ND< 297	ND< 23.7	ND< 18.0	ND< 18.8	ND< 2,550	ND< 3,330	ND< 368	ND< 16.3	10,000 *
4-Methyl-2-pentanone	ND< 19.5	ND< 297	ND< 23.7	ND< 18.0	ND< 18.8	ND< 2,550	ND< 3,330	ND< 368	ND< 16.3	1,000
Carbon disulfide	ND< 19.5	ND< 297	ND< 23.7	ND< 18.0	ND< 18.8	ND< 2,550	ND< 3,330	ND< 368	ND< 16.3	2,700
Vinyl acetate	ND< 19.5	ND< 297	ND< 23.7	ND< 18.0	ND< 18.8	ND< 2,550	ND< 3,330	ND< 368	ND< 16.3	10,000 *
Additional STARS Compounds										
n-Butylbenzene	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.54	ND< 1,010	ND< 1,330	ND< 148	ND< 6.52	10,000 *
sec-Butylbenzene	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.54	ND< 1,010	ND< 1,330	ND< 148	ND< 6.52	10,000 *
tert-Butylbenzene	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.54	ND< 1,010	ND< 1,330	ND< 148	ND< 6.52	10,000 *
n-Propylbenzene	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.54	ND< 1,010	ND< 1,330	ND< 148	ND< 6.52	3,700
Isopropylbenzene	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.54	ND< 1,010	ND< 1,330	ND< 148	ND< 6.52	2,300
p-Isopropyltoluene	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.54	ND< 1,010	ND< 1,330	ND< 148	ND< 6.52	10,000 *
Naphthalene	ND< 19.5	ND< 297	ND< 23.7	ND< 18.0	ND< 18.9	ND< 2,520	ND< 3,280	ND< 370	ND< 16.3	13,000
1,2,4-Trimethylbenzene	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.54	ND< 1,010	ND< 1,330	ND< 148	ND< 6.52	10,000 *
1,3,5-Trimethylbenzene	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.54	ND< 1,010	ND< 1,330	ND< 148	ND< 6.52	3,300
Miscellaneous							ND< 1,330			
Methyl tert-butyl Ether	ND< 7.80	ND< 119	ND< 9.49	ND< 7.20	ND< 7.54	ND< 1,010	ND< 1,330	ND< 148	ND< 6.52	120

Notes:
1. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum, TAGM 4046.
2. ug/kg = all values expressed in micrograms per kilogram (equivalent to parts per billion).
3. **Bolded** values are parameters that have been detected.
4. **Bolded**, Underlined, and *Italicized* values are reported concentrations above the NYSDEC recommended soil cleanup objective.
5. * = As per TAGM 4046, individual and sum of VOCs not listed may not exceed 10,000 ppb.
6. MDL = Method Detection Limit.

TABLE 8
SUMMARY OF TCL/STARS VOLATILE ORGANIC COMPOUNDS IN SOIL
Five Parcels in the Brooks Landing Urban Renewal District
Rochester, NY

	Soil Samples					
TCL STARS VOCs	**GP-30 4-8'**	**GP-31 4-8'**	**PZ-19 4-8'**	**PZ-21 16-19'**	**PZ-18 16-20'**	**Recommended Soil Cleanup Objective [1]**
Volatile Halocarbons						
Bromodichloromethane	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	10,000 *
Bromomethane	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	10,000 *
Bromoform	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	10,000 *
Carbon tetrachloride	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	600
Chloroethane	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	1,900
Chloromethane	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	10,000 *
2-Chloroethyl vinyl ether	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	10,000 *
Chloroform	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	300
Dibromochloromethane	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	10,000 *
1,1-Dichloroethane	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	200
1,2-Dichloroethane	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	100
1,1-Dichloroethene	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	400
cis-1,2-Dichloroethene	ND< 1,180	**2,050**	ND< 50.8	ND< 11.1	ND< 51.0	10,000 *
trans-1,2-Dichloroethene	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	300
1,2-Dichloropropane	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	10,000 *
cis-1,3-Dichloropropene	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	10,000 *
trans-1,3-Dichloropropene	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	10,000 *
Methylene chloride	ND< 2,940	ND< 318	ND< 127	ND< 27.6	ND< 127	100
1,1,2,2-Tetrachloroethane	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	600
Tetrachloroethene	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	1,400
1,1,1-Trichloroethane	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	800
1,1,2-Trichloroethane	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	10,000 *
Trichloroethene	***21,700***	***13,600***	***3,890***	ND< 11.1	ND< 51.0	700
Trichlorofluoromethane	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	10,000 *
Vinyl Chloride	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	200
Volatile Aromatics						
Benzene	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	***313***	60 or MDL
Chlorobenzene	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	1,700
Ethylbenzene	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	5,500
Toluene	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	1,500
m,p - Xylene	ND< 1,180	ND< 127	**65.3**	ND< 11.1	ND< 51.0	1,200
o - Xylene	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	600
Styrene	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	10,000 *
1,2-Dichlorobenzene	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	7,900
1,3-Dichlorobenzene	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	1,600
1,4-Dichlorobenzene	ND< 1,180	ND< 127	ND< 50.8	ND< 11.1	ND< 51.0	8,500

TABLE 8
SUMMARY OF TCL/STARS VOLATILE ORGANIC COMPOUNDS IN SOIL
Five Parcels in the Brooks Landing Urban Renewal District
Rochester, NY

TCL STARS VOCs	Soil Samples					Recommended Soil Cleanup Objective [1]
	GP-30 4-8'	**GP-31 4-8'**	**PZ-19 4-8'**	**PZ-21 16-19'**	**PZ-18 16-20'**	
Ketones & Misc.						
Acetone	ND< 5,890	ND< 636	ND< 254	ND< 55.3	ND< 255	200
2-Butanone	ND< 2,940	ND< 318	ND< 127	ND< 27.6	ND< 127	300
2-Hexanone	ND< 2,940	ND< 318	ND< 127	ND< 27.6	ND< 127	10,000 *
4-Methyl-2-pentanone	ND< 2,940	ND< 318	ND< 127	ND< 27.6	ND< 127	1,000
Carbon disulfide	ND< 2,940	ND< 318	ND< 127	ND< 27.6	ND< 127	2,700
Vinyl acetate	ND< 2,940	ND< 318	ND< 127	ND< 27.6	ND< 127	10,000 *
Additional STARS Compounds						
n-Butylbenzene	ND< 1,170	ND< 127	ND< 50.6	ND< 11.0	ND< 50.6	10,000 *
sec-Butylbenzene	ND< 1,170	ND< 127	ND< 50.6	ND< 11.0	ND< 50.6	10,000 *
tert-Butylbenzene	ND< 1,170	ND< 127	ND< 50.6	ND< 11.0	ND< 50.6	10,000 *
n-Propylbenzene	ND< 1,170	ND< 127	ND< 50.6	ND< 11.0	ND< 50.6	3,700
Isopropylbenzene	ND< 1,170	ND< 127	ND< 50.6	ND< 11.0	ND< 50.6	2,300
p-Isopropyltoluene	ND< 1,170	ND< 127	ND< 50.6	ND< 11.0	ND< 50.6	10,000 *
Naphthalene	ND< 2,940	ND< 318	ND< 127	ND< 27.5	ND< 127	13,000
1,2,4-Trimethylbenzene	ND< 1,170	ND< 127	ND< 50.6	ND< 11.0	ND< 50.6	10,000 *
1,3,5-Trimethylbenzene	ND< 1,170	ND< 127	ND< 50.6	ND< 11.0	ND< 50.6	3,300
Miscellaneous	ND< 1,170					
Methyl tert-butyl Ether	ND< 1,170	ND< 127	ND< 50.6	ND< 11.0	***289***	120

Notes:
1. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum, HWR 94-4046 (Revised December 2000).
2. ug/kg = all values expressed in micrograms per kilogram (equivalent to parts per billion).
3. **Bolded** values are parameters that have been detected.
4. **Bolded**, Underlined, and *Italicized* values are reported concentrations above the NYSDEC recommended soil cleanup objective.
5. * = As per TAGM 4046, individual and sum of VOCs not listed may not exceed 10,000 ppb.
6. MDL = Method Detection Limit.

TABLE 8

SUMMARY OF TCL/STARS VOLATILE ORGANIC COMPOUNDS IN SOIL (ug/kg)

Five Parcels in the Brooks Landing Urban Renewal District

Rochester, NY

	Native Deposits												Recommended Soil Cleanup Objective [1]
TCL/STARS VOCs 8260	GP-1 14'	GP-1 24'-25'	GP-2 14'	GP-4 10'-12'	GP 14 15'	GP-16 10' - 12'	GP 17 8' - 10'	PZ-18 16-20'	PZ-20 16-18'	PZ-21 16-19'	GP-23 4-8'	GP-29 4-8'	
Volatile Halocarbons													
Bromodichloromethane	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	10,000 *
Bromomethane	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	10,000 *
Bromoform	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	10,000 *
Carbon tetrachloride	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	600
Chloroethane	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	1,900
Chloromethane	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	10,000 *
2-Chloroethyl vinyl ether	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	10,000 *
Chloroform	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	300
Dibromochloromethane	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	10,000 *
1,1-Dichloroethane	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	200
1,2-Dichloroethane	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	100
1,1-Dichloroethene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	400
cis-1,2-Dichloroethene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	10,000 *
trans-1,2-Dichloroethene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	300
1,2-Dichloropropane	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	10,000 *
cis-1,3-Dichloropropene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	10,000 *
trans-1,3-Dichloropropene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	10,000 *
Methylene chloride	ND< 245	ND< 35.1	ND< 29.4	ND< 64.4	ND< 18.8	ND< 28.3	ND< 1,200	ND< 127	ND< 19.5	ND< 27.6	ND< 23.7	ND< 16.3	100
1,1,2,2-Tetrachloroethane	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	600
Tetrachloroethene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	1,400
1,1,1-Trichloroethane	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	800
1,1,2-Trichloroethane	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	10,000 *
Trichloroethene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	**10.4**	ND< 6.53	700
Trichlorofluoromethane	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	10,000 *
Vinyl Chloride	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	200
Volatile Aromatics													
Benzene	ND< 98.1	***64.4***	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	***313***	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	60 or MDL
Chlorobenzene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	1,700
Ethylbenzene	**4,690**	**335**	**522**	ND< 25.7	ND< 7.52	**13.5**	***2,080***	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	5,500
Toluene	ND< 98.1	**20.9**	**19.9**	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	1,500
m,p - Xylene	***20,000***	***1,440***	**249**	ND< 25.7	ND< 7.52	**139**	***8,590***	ND< 51.0	ND< 7.80	ND< 11.1	**9.89**	ND< 6.53	1,200
o - Xylene	**431**	**38.0**	ND< 11.8	ND< 25.7	ND< 7.52	**15.7**	***2,960***	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	600
Styrene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	10,000 *
1,2-Dichlorobenzene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	7,900
1,3-Dichlorobenzene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	1,600
1,4-Dichlorobenzene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 51.0	ND< 7.80	ND< 11.1	ND< 9.49	ND< 6.53	8,500

TABLE 8

SUMMARY OF TCL/STARS VOLATILE ORGANIC COMPOUNDS IN SOIL (ug/kg)

Five Parcels in the Brooks Landing Urban Renewal District

Rochester, NY

	Native Deposits												Recommended
	GP-1	GP-1	GP-2	GP-4	GP 14	GP-16	GP 17	PZ-18	PZ-20	PZ-21	GP-23	GP-29	Soil Cleanup
TCL/STARS VOCs 8260	14'	24'-25'	14'	10'-12'	15'	10' - 12'	8' - 10'	16-20'	16-18'	16-19'	4-8'	4-8'	Objective [1]
Ketones & Misc.													
Acetone	ND< 491	ND< 70.1	ND< 58.9	***359***	**45.1**	ND< 56.6	ND< 2,410	ND< 255	ND< 39.0	ND< 55.3	ND< 47.4	ND< 32.7	200
2-Butanone	ND< 245	ND< 35.1	ND< 29.4	ND< 64.4	ND< 18.8	ND< 28.3	ND< 1,200	ND< 127	ND< 19.5	ND< 27.6	ND< 23.7	ND< 16.3	300
2-Hexanone	ND< 245	ND< 35.1	ND< 29.4	ND< 64.4	ND< 18.8	ND< 28.3	ND< 1,200	ND< 127	ND< 19.5	ND< 27.6	ND< 23.7	ND< 16.3	10,000 *
4-Methyl-2-pentanone	ND< 245	ND< 35.1	ND< 29.4	ND< 64.4	ND< 18.8	ND< 28.3	ND< 1,200	ND< 127	ND< 19.5	ND< 27.6	ND< 23.7	ND< 16.3	1,000
Carbon disulfide	ND< 245	ND< 35.1	ND< 29.4	ND< 64.4	ND< 18.8	ND< 28.3	ND< 1,200	ND< 127	ND< 19.5	ND< 27.6	ND< 23.7	ND< 16.3	2,700
Vinyl acetate	ND< 245	ND< 35.1	ND< 29.4	ND< 64.4	ND< 18.8	ND< 28.3	ND< 1,200	ND< 127	ND< 19.5	ND< 27.6	ND< 23.7	ND< 16.3	10,000 *
Additional STARS Compounds													
n-Butylbenzene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 50.6	ND< 7.80	ND< 11.0	ND< 9.49	ND< 6.52	10,000 *
sec-Butylbenzene	**372**	**37.7**	**334**	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 50.6	ND< 7.80	ND< 11.0	ND< 9.49	ND< 6.52	10,000 *
tert-Butylbenzene	**1,840**	**129**	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 50.6	ND< 7.80	ND< 11.0	ND< 9.49	ND< 6.52	10,000 *
n-Propylbenzene	**2,850**	**200**	**806**	ND< 25.7	ND< 7.52	**65.9**	**1,280**	ND< 50.6	ND< 7.80	ND< 11.0	ND< 9.49	ND< 6.52	3,700
Isopropylbenzene	**890**	**81.5**	**422**	ND< 25.7	ND< 7.52	**26.5**	ND< 482	ND< 50.6	ND< 7.80	ND< 11.0	ND< 9.49	ND< 6.52	2,300
p-Isopropyltoluene	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	ND< 50.6	ND< 7.80	ND< 11.0	ND< 9.49	ND< 6.52	10,000 *
Naphthalene	**2,090**	**439**	ND< 29.4	**71.4**	ND< 18.8	**54.8**	**1,950**	ND< 127	ND< 19.5	ND< 27.5	ND< 23.7	ND< 16.3	13,000
1,2,4-Trimethylbenzene	E ***16,600***	**1,150**	E **1,830**	**79.6**	ND< 7.52	**207**	**8,800**	ND< 50.6	ND< 7.80	ND< 11.0	ND< 9.49	ND< 6.52	10,000 *
1,3,5-Trimethylbenzene	***5,330***	**390**	ND< 11.8	ND< 25.7	ND< 7.52	**81.3**	**2,240**	ND< 50.6	ND< 7.80	ND< 11.0	ND< 9.49	ND< 6.52	3,300
Miscellaneous													
Methyl tert-butyl Ether	ND< 98.1	ND< 14.0	ND< 11.8	ND< 25.7	ND< 7.52	ND< 11.3	ND< 482	***289***	ND< 7.80	ND< 11.0	ND< 9.49	ND< 6.52	120

Notes:

1. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum, HWR 94-4046 (Revised December 2000).
2. ug/kg = all values expressed in micrograms per kilogram (equivalent to parts per billion).
3. **Bolded** values are parameters that have been detected.
4. **Bolded**, Underlined, and *Italicized* values are reported concentrations above the NYSDEC recommended soil cleanup objective.
5. * = As per TAGM 4046, individual and sum of VOCs not listed may not exceed 10,000 ppb.
6. MDL = Method Detection Limit.

TABLE 8

SUMMARY OF TCL/STARS VOLATILE ORGANIC COMPOUNDS IN SOIL (ug/kg)

Five Parcels in the Brooks Landing Urban Renewal District

Rochester, NY

	Shallow Granular Fill			Recommended
	GP-5	GP-24	GP-25	Soil Cleanup
TCL/STARS VOCs 8260	8'-10'	0-4'	4-8'	Objective [1]
Volatile Halocarbons				
Bromodichloromethane	ND< 8.71	ND< 7.20	ND< 7.53	10,000 *
Bromomethane	ND< 8.71	ND< 7.20	ND< 7.53	10,000 *
Bromoform	ND< 8.71	ND< 7.20	ND< 7.53	10,000 *
Carbon tetrachloride	ND< 8.71	ND< 7.20	ND< 7.53	600
Chloroethane	ND< 8.71	ND< 7.20	ND< 7.53	1,900
Chloromethane	ND< 8.71	ND< 7.20	ND< 7.53	10,000 *
2-Chloroethyl vinyl ether	ND< 8.71	ND< 7.20	ND< 7.53	10,000 *
Chloroform	ND< 8.71	ND< 7.20	ND< 7.53	300
Dibromochloromethane	ND< 8.71	ND< 7.20	ND< 7.53	10,000 *
1,1-Dichloroethane	ND< 8.71	ND< 7.20	ND< 7.53	200
1,2-Dichloroethane	ND< 8.71	ND< 7.20	ND< 7.53	100
1,1-Dichloroethene	ND< 8.71	ND< 7.20	ND< 7.53	400
cis-1,2-Dichloroethene	ND< 8.71	ND< 7.20	ND< 7.53	10,000 *
trans-1,2-Dichloroethene	ND< 8.71	ND< 7.20	ND< 7.53	300
1,2-Dichloropropane	ND< 8.71	ND< 7.20	ND< 7.53	10,000 *
cis-1,3-Dichloropropene	ND< 8.71	ND< 7.20	ND< 7.53	10,000 *
trans-1,3-Dichloropropene	ND< 8.71	ND< 7.20	ND< 7.53	10,000 *
Methylene chloride	ND< 21.8	ND< 18.0	ND< 18.8	100
1,1,2,2-Tetrachloroethane	ND< 8.71	ND< 7.20	ND< 7.53	600
Tetrachloroethene	ND< 8.71	ND< 7.20	ND< 7.53	1,400
1,1,1-Trichloroethane	ND< 8.71	ND< 7.20	ND< 7.53	800
1,1,2-Trichloroethane	ND< 8.71	ND< 7.20	ND< 7.53	10,000 *
Trichloroethene	ND< 8.71	**133**	**42.3**	700
Trichlorofluoromethane	ND< 8.71	ND< 7.20	ND< 7.53	10,000 *
Vinyl Chloride	ND< 8.71	ND< 7.20	ND< 7.53	200
Volatile Aromatics				
Benzene	ND< 8.71	ND< 7.20	ND< 7.53	60 or MDL
Chlorobenzene	ND< 8.71	ND< 7.20	ND< 7.53	1,700
Ethylbenzene	**35.9**	ND< 7.20	ND< 7.53	5,500
Toluene	ND< 8.71	ND< 7.20	ND< 7.53	1,500
m,p - Xylene	**424**	ND< 7.20	ND< 7.53	1,200
o - Xylene	**128**	ND< 7.20	ND< 7.53	600
Styrene	ND< 8.71	ND< 7.20	ND< 7.53	10,000 *
1,2-Dichlorobenzene	ND< 8.71	ND< 7.20	ND< 7.53	7,900
1,3-Dichlorobenzene	ND< 8.71	ND< 7.20	ND< 7.53	1,600
1,4-Dichlorobenzene	ND< 8.71	ND< 7.20	ND< 7.53	8,500

TABLE 8

SUMMARY OF TCL/STARS VOLATILE ORGANIC COMPOUNDS IN SOIL (ug/kg)

Five Parcels in the Brooks Landing Urban Renewal District

Rochester, NY

	Shallow Granular Fill			Recommended
	GP-5	GP-24	GP-25	Soil Cleanup
TCL/STARS VOCs 8260	**8'-10'**	**0-4'**	**4-8'**	**Objective [(1)]**
Ketones & Misc.				
Acetone	**171**	ND< 36.0	ND< 37.6	200
2-Butanone	ND< 21.8	ND< 18.0	ND< 18.8	300
2-Hexanone	ND< 21.8	ND< 18.0	ND< 18.8	10,000 *
4-Methyl-2-pentanone	ND< 21.8	ND< 18.0	ND< 18.8	1,000
Carbon disulfide	ND< 21.8	ND< 18.0	ND< 18.8	2,700
Vinyl acetate	ND< 21.8	ND< 18.0	ND< 18.8	10,000 *
Additional STARS Compounds				
n-Butylbenzene	ND< 8.71	ND< 7.20	ND< 7.54	10,000 *
sec-Butylbenzene	**17.5**	ND< 7.20	ND< 7.54	10,000 *
tert-Butylbenzene	**94.8**	ND< 7.20	ND< 7.54	10,000 *
n-Propylbenzene	**62.5**	ND< 7.20	ND< 7.54	3,700
Isopropylbenzene	**21.8**	ND< 7.20	ND< 7.54	2,300
p-Isopropyltoluene	ND< 8.71	ND< 7.20	ND< 7.54	10,000 *
Naphthalene	**174**	ND< 18.0	ND< 18.9	13,000
1,2,4-Trimethylbenzene	**875**	ND< 7.20	ND< 7.54	10,000 *
1,3,5-Trimethylbenzene	**211**	ND< 7.20	ND< 7.54	3,300
Miscellaneous				
Methyl tert-butyl Ether	ND< 8.71	ND< 7.20	ND< 7.54	120

Notes:

1. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum, HWR 94-4046 (Revised December 2000).
2. ug/kg = all values expressed in micrograms per kilogram (equivalent to parts per billion).
3. **Bolded** values are parameters that have been detected.
4. **Bolded**, Underlined, and *Italicized* values are reported concentrations above the NYSDEC recommended sc
5. * = As per TAGM 4046, individual and sum of VOCs not listed may not exceed 10,000 ppb.
6. MDL = Method Detection Limit.

TABLE 8
SUMMARY OF TCL/STARS VOLATILE ORGANIC COMPOUNDS IN SOIL (ug/kg)
Five Parcels in the Brooks Landing Urban Renewal District
Rochester, NY

	Black Carbon Fill										Recommended
TCL/STARS VOCs 8260	**GP - 7 4' - 8'**	**PZ-19 4-8'**	**GP-22 4-8'**	**GP-26 4-8'**	**GP-27 4-8'**	**GP-28 4-8'**	**GP-30 4-8'**	**GP-31 4-8'**	**GP-36 4-8'**	**GP-41 4-8'**	**Soil Cleanup Objective (1)**
Volatile Halocarbons											
Bromodichloromethane	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	10,000 *
Bromomethane	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	10,000 *
Bromoform	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	10,000 *
Carbon tetrachloride	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	600
Chloroethane	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	1,900
Chloromethane	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	10,000 *
2-Chloroethyl vinyl ether	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	10,000 *
Chloroform	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	300
Dibromochloromethane	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	10,000 *
1,1-Dichloroethane	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	200
1,2-Dichloroethane	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	100
1,1-Dichloroethene	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	400
cis-1,2-Dichloroethene	**695**	ND< 50.8	**894**	**1,480**	**1,490**	**334**	ND< 1,180	**2,050**	ND< 1,030	ND< 1,300	10,000 *
trans-1,2-Dichloroethene	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	300
1,2-Dichloropropane	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	10,000 *
cis-1,3-Dichloropropene	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	10,000 *
trans-1,3-Dichloropropene	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	10,000 *
Methylene chloride	ND< 275	ND< 127	ND< 297	ND< 2,550	ND< 3,330	ND< 368	ND< 2,940	ND< 318	ND< 2,570	ND< 3,240	100
1,1,2,2-Tetrachloroethane	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	600
Tetrachloroethene	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	1,400
1,1,1-Trichloroethane	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	800
1,1,2-Trichloroethane	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	10,000 *
Trichloroethene	***10,700***	***3,890***	***11,100***	***25,900***	***26,200***	***5,550***	***21,700***	***13,600***	***45,300***	***41,400***	700
Trichlorofluoromethane	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	10,000 *
Vinyl Chloride	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	200
Volatile Aromatics											
Benzene	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	60 or MDL
Chlorobenzene	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	1,700
Ethylbenzene	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	5,500
Toluene	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	1,500
m,p - Xylene	ND< 275	**65.3**	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	1,200
o - Xylene	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	600
Styrene	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	10,000 *
1,2-Dichlorobenzene	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	7,900
1,3-Dichlorobenzene	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	1,600
1,4-Dichlorobenzene	ND< 275	ND< 50.8	ND< 119	ND< 1,020	ND< 1,330	ND< 147	ND< 1,180	ND< 127	ND< 1,030	ND< 1,300	8,500

TABLE 8

SUMMARY OF TCL/STARS VOLATILE ORGANIC COMPOUNDS IN SOIL (ug/kg)

Five Parcels in the Brooks Landing Urban Renewal District

Rochester, NY

	Black Carbon Fill										Recommended
TCL/STARS VOCs 8260	**GP - 7 4' - 8'**	**PZ-19 4-8'**	**GP-22 4-8'**	**GP-26 4-8'**	**GP-27 4-8'**	**GP-28 4-8'**	**GP-30 4-8'**	**GP-31 4-8'**	**GP-36 4-8'**	**GP-41 4-8'**	**Soil Cleanup Objective [1]**
Ketones & Misc.											
Acetone	ND< 1,370	ND< 254	ND< 594	ND< 5,100	ND< 6,670	ND< 737	ND< 5,890	ND< 636	ND< 5,130	ND< 6,480	200
2-Butanone	ND< 687	ND< 127	ND< 297	ND< 2,550	ND< 3,330	ND< 368	ND< 2,940	ND< 318	ND< 2,570	ND< 3,240	300
2-Hexanone	ND< 687	ND< 127	ND< 297	ND< 2,550	ND< 3,330	ND< 368	ND< 2,940	ND< 318	ND< 2,570	ND< 3,240	10,000 *
4-Methyl-2-pentanone	ND< 687	ND< 127	ND< 297	ND< 2,550	ND< 3,330	ND< 368	ND< 2,940	ND< 318	ND< 2,570	ND< 3,240	1,000
Carbon disulfide	ND< 687	ND< 127	ND< 297	ND< 2,550	ND< 3,330	ND< 368	ND< 2,940	ND< 318	ND< 2,570	ND< 3,240	2,700
Vinyl acetate	ND< 687	ND< 127	ND< 297	ND< 2,550	ND< 3,330	ND< 368	ND< 2,940	ND< 318	ND< 2,570	ND< 3,240	10,000 *
Additional STARS Compounds											
n-Butylbenzene	ND< 275	ND< 50.6	ND< 119	ND< 1,010	ND< 1,330	ND< 148	ND< 1,170	ND< 127	ND< 1,030	ND< 1,300	10,000 *
sec-Butylbenzene	ND< 275	ND< 50.6	ND< 119	ND< 1,010	ND< 1,330	ND< 148	ND< 1,170	ND< 127	ND< 1,030	ND< 1,300	10,000 *
tert-Butylbenzene	ND< 275	ND< 50.6	ND< 119	ND< 1,010	ND< 1,330	ND< 148	ND< 1,170	ND< 127	ND< 1,030	ND< 1,300	10,000 *
n-Propylbenzene	ND< 275	ND< 50.6	ND< 119	ND< 1,010	ND< 1,330	ND< 148	ND< 1,170	ND< 127	ND< 1,030	ND< 1,300	3,700
Isopropylbenzene	ND< 275	ND< 50.6	ND< 119	ND< 1,010	ND< 1,330	ND< 148	ND< 1,170	ND< 127	ND< 1,030	ND< 1,300	2,300
p-Isopropyltoluene	ND< 275	ND< 50.6	ND< 119	ND< 1,010	ND< 1,330	ND< 148	ND< 1,170	ND< 127	ND< 1,030	ND< 1,300	10,000 *
Naphthalene	ND< 687	ND< 127	ND< 297	ND< 2,520	ND< 3,280	ND< 370	ND< 2,940	ND< 318	ND< 2,570	ND< 3,240	13,000
1,2,4-Trimethylbenzene	ND< 275	ND< 50.6	ND< 119	ND< 1,010	ND< 1,330	ND< 148	ND< 1,170	ND< 127	ND< 1,030	ND< 1,300	10,000 *
1,3,5-Trimethylbenzene	ND< 275	ND< 50.6	ND< 119	ND< 1,010	ND< 1,330	ND< 148	ND< 1,170	ND< 127	ND< 1,030	ND< 1,300	3,300
Miscellaneous											
Methyl tert-butyl Ether	ND< 275	ND< 50.6	ND< 119	ND< 1,010	ND< 1,330	ND< 148	ND< 1,170	ND< 127	ND< 1,030	ND< 1,300	120

Notes:

1. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum, HWR 94-4046 (Revised December 2000).
2. ug/kg = all values expressed in micrograms per kilogram (equivalent to parts per billion).
3. **Bolded** values are parameters that have been detected.
4. **Bolded**, Underlined, and *Italicized* values are reported concentrations above the NYSDEC recommended soil cleanup objective.
5. * = As per TAGM 4046, individual and sum of VOCs not listed may not exceed 10,000 ppb.
6. MDL = Method Detection Limit.

TABLE 9
SUMMARY OF STARS SEMI-VOLATILE BASE NEUTRAL COMPOUNDS IN SOIL (ug/kg)

Five Parcels in the Brooks Landing Urban Renewal District
Rochester, NY

	Native Soils				Black Carbon Fill	Granular Fill	
8270 STARS SVBNs	**GP-1 14'**	**GP-2 14'**	**GP - 4 10'-12'**	**GP 16 10'-12'**	**GP 7 4'-8'**	**GP 39 0'-4'**	**Recommended Soil Cleanup Objective** [1]
8270 STARS SVBNs							
Acenaphthene	ND< 364	ND< 346	ND< 317	ND< 366	ND< 388	ND< 1,710	50,000 *
Anthracene	ND< 364	ND< 346	ND< 317	ND< 366	ND< 388	ND< 1,710	50,000 *
Benzo (a) anthracene	ND< 364	ND< 346	ND< 317	ND< 366	ND< 388	ND< 1,710	224 or MDL
Benzo (a) pyrene	ND< 364	ND< 346	ND< 317	ND< 366	ND< 388	ND< 1,710	61 or MDL
Benzo (b) fluoranthene	ND< 364	ND< 346	ND< 317	ND< 366	ND< 388	ND< 1,710	61 or MDL
Benzo (g,h,i) perylene	ND< 364	ND< 346	ND< 317	ND< 366	ND< 388	ND< 1,710	50,000 *
Benzo (k) fluoranthene	ND< 364	ND< 346	ND< 317	ND< 366	ND< 388	ND< 1,710	610 or MDL
Chrysene	ND< 364	ND< 346	ND< 317	ND< 366	ND< 388	ND< 1,710	400
Dibenz (a,h) anthracene	ND< 364	ND< 346	ND< 317	ND< 366	ND< 388	ND< 1,710	14.3 or MDL
Fluoranthene	ND< 364	ND< 346	ND< 317	ND< 366	ND< 388	ND< 1,710	50,000 *
Fluorene	ND< 364	ND< 346	ND< 317	ND< 366	ND< 388	ND< 1,710	50,000 *
Indeno (1,2,3-cd) pyrene	ND< 364	ND< 346	ND< 317	ND< 366	ND< 388	ND< 1,710	3,200
Naphthalene	**2,850**	ND< 346	ND< 317	ND< 366	ND< 388	ND< 1,710	13,000
Phenanthrene	ND< 364	ND< 346	ND< 317	ND< 366	ND< 388	ND< 1,710	50,000 *
Pyrene	ND< 364	ND< 346	ND< 317	ND< 366	ND< 388	**1,820**	50,000 *

Notes:

1. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum, HWR 94-4046 (Revised December 2000).
2. ug/kg = all values expressed in micrograms per kilogram (equivalent to parts per billion).
3. **Bolded** values are parameters that have been detected.
4. **Bolded**, Underlined, and *Italicized* values are reported concentrations above the NYSDEC recommended soil cleanup objective.
5. * = As per TAGM 4046, individual SVOCs may not exceed 50,000 and total SVOCs may not exceed 500,000 ppb.

TABLE 10
SUMMARY OF PCBs, HERBICIDES and TOTAL PETROLEUM HYDROCARBONS IN SOIL (mg/kg)

Five Parcels in the Brooks Landing Urban Renewal District
Rochester, NY

	Shallow Granular Fill				Black Carbon Fill			Recommended Soil Cleanup Objective [1]
PCBs and Herbicides	**GP- 10 0 - 4 '**	**GP-11 0-4'**	**GP-12 0-4'**	**GP- 24 0 - 4 '**	**GP-28 4-8'**	**PZ-19 4-8'**	**GP-32 0-4'**	
PCBs								
Aroclor 1016	ND< 0.394	ND< 0.403	ND< 0.435	ND< 0.416	ND< 0.534	ND< 0.433	ND< 0.399	1 surface/ 10 subsurface
Aroclor 1221	ND< 0.394	ND< 0.403	ND< 0.435	ND< 0.416	ND< 0.534	ND< 0.433	ND< 0.399	1 surface/ 10 subsurface
Aroclor 1232	ND< 0.394	ND< 0.403	ND< 0.435	ND< 0.416	ND< 0.534	ND< 0.433	ND< 0.399	1 surface/ 10 subsurface
Aroclor 1242	ND< 0.394	ND< 0.403	ND< 0.435	ND< 0.416	ND< 0.534	ND< 0.433	ND< 0.399	1 surface/ 10 subsurface
Aroclor 1248	ND< 0.394	ND< 0.403	ND< 0.435	ND< 0.416	ND< 0.534	ND< 0.433	ND< 0.399	1 surface/ 10 subsurface
Aroclor 1254	ND< 0.394	ND< 0.403	ND< 0.435	ND< 0.416	ND< 0.534	ND< 0.433	ND< 0.399	1 surface/ 10 subsurface
Aroclor 1260	ND< 0.394	ND< 0.403	ND< 0.435	ND< 0.416	ND< 0.534	ND< 0.433	ND< 0.399	1 surface/ 10 subsurface
Herbicides								
2,4-D	ND <0.2	ND <0.2	ND <0.2					500
Dicamba	ND <0.2	ND <0.2	ND <0.2					NA
Dinoseb	ND <0.2	ND <0.2	ND <0.2					NA
2, 4, 5-T	ND <0.2	ND <0.2	ND <0.2					1,900
2,4,5-TP (Silvex)	ND <0.2	ND <0.2	ND <0.2					700
Total Petroleum Hydrocarbons								
Heavy Weight PHC as: Lube Oil				**38.7**	**291**	**287**		NA

Notes:

1. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum, HWR 94-4046 (Revised December 2000).
2. mg/kg = all values expressed in milligrams per kilogram (equivalent to parts per million).
3. **Bolded** values are parameters that have been detected.
4. **Bolded**, Underlined, and *Italicized* values are reported concentrations above the NYSDEC recommended soil cleanup objective.
5. NA = Not Available.
6. Blank = samples were not analyzed for these parameters.

TABLE 11
SUMMARY OF 8 RCRA METALS IN SOIL (mg/kg)

Five Parcels in the Brooks Landing Urban Renewal District
Rochester, NY

8 RCRA Metals	Shallow Granular Fill			Eastern USA Background Range	Recommended Soil Cleanup Objective [1]
	GP- 10 0 - 4 '	**GP- 11 0 - 4 '**	**GP- 12 0 - 4 '**		
Arsenic	**8.25**	**7.73**	**6.58**	3 - 12	7.5 or SB
Barium	**50.3**	**47.5**	**47.0**	15 - 600	300 or SB
Cadmium	<0.518	<0.499	<0.429	0.1 - 1	1 / 10* or SB
Chromium	**10.6**	**10.3**	**9.49**	1.5 - 40	10 / 50* or SB
Lead	**26.4**	**32.7**	**33.5**	200 - 500 urban	SB
Mercury	**0.102**	**0.104**	**0.149**	0.001 - 0.2	0.1
Selenium	<0.518	<0.499	<0.429	0.1 - 3.9	2 or SB
Silver	<1.04	<1.00	<0.858	NA	SB

Notes:

1. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum, HWR 94-4046 (Revised December 2000).
2. mg/kg = all values expressed in milligrams per kilogram (equivalent to parts per million).
3. **Bolded** values are parameters that have been detected.
4. **Bolded**, Underlined, and *Italicized* values are reported concentrations above the NYSDEC recommended soil cleanup objective and the Eastern USA Background Range.
5. NA = Not Available.
6. SB = site background
7. * = existing and proposed soil cleanup objectives.

TABLE 12
SUMMARY OF TCL/STARS VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (ug/L)
Five Parcels in the Brooks Landing Urban Renewal District
Rochester, NY

TCL/STARS VOCs	PZ-1	PZ-2	PZ-4	PZ-5	PZ-7 10/30/02	PZ-7 11/22/02	PZ-14	PZ-16	PZ-17	PZ-18	PZ-19	PZ-20	PZ-21	MW-1	MW-4	MW-5	RW	NYSDEC Groundwater Standards and Guidance Values [1]
		Groundwater Samples (ug/l)																
Volatile Halocarbons																		
Bromodichloromethane	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	50 (G)
Bromomethane	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	5
Bromoform	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	50 (G)
Carbon tetrachloride	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	5
Chloroethane	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	5
Chloromethane	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	NS
2-Chloroethyl vinyl ether	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	NS
Chloroform	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	7
Dibromochloromethane	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	50 (G)
1,1-Dichloroethane	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	5
1,2-Dichloroethane	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	1
1,1-Dichloroethene	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	5
cis-1,2-Dichloroethene	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	***10.3***	***19.0***	ND< 2.00	ND< 20.0	ND< 50.0	**4.17**	***16.1***	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	5
trans-1,2-Dichloroethene	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	5
1,2-Dichloropropane	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	1
cis-1,3-Dichloropropene	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	0.4 (-cis and -trans)
trans-1,3-Dichloropropene	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	0.4 (-cis and -trans)
Methylene chloride	ND< 200	ND< 50.0	ND< 5.00	ND< 5.00	ND< 5.00	ND< 10.0	ND< 5.00	ND< 50.0	ND< 125	ND< 5.00	ND< 25.0	ND< 5.00	ND< 5.00	ND< 5.00	ND< 5.00	ND< 5.00	ND< 50.0	5
1,1,2,2-Tetrachloroethane	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	5
Tetrachloroethene	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	5
1,1,1-Trichloroethane	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	5
1,1,2-Trichloroethane	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	1
Trichloroethene	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	***233***	***298***	ND< 2.00	ND< 20.0	ND< 50.0	***35.8***	***825***	ND< 2.00	**2.45**	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	5
Trichlorofluoromethane	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	5
Vinyl Chloride	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	2
Volatile Aromatics																		
Benzene	***3,140***	***787***	***1.94***	ND< 0.700	ND< 0.700	ND< 1.40	ND< 0.700	***33.3***	***805***	***171.0***	ND< 3.50	ND< 0.700	ND< 0.700	ND< 0.700	ND< 0.700	ND< 0.700	***71.8***	1
Chlorobenzene	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 50.0	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	5
Ethylbenzene	***1,500***	***208***	***11.7***	***20.0***	ND< 2.00	ND< 4.00	ND< 2.00	***111***	***3,010***	**3.48**	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	5
Toluene	***270***	***28.4***	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	98.3	**2.03**	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	5
m,p - Xylene	***5,830***	***335***	**3.95**	***59.1***	ND< 2.00	ND< 4.00	ND< 2.00	***105***	***8,020***	**2.81**	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	5
o - Xylene	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	***546***	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	5
Styrene	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	5
1,2-Dichlorobenzene	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	3
1,3-Dichlorobenzene	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	3
1,4-Dichlorobenzene	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	3
Ketones & Misc.																		
Acetone	ND< 1,000	ND< 100	ND< 10.0	ND< 10.0	ND< 10.0	ND< 20.0	ND< 10.0	ND< 100	ND< 250	ND< 10.0	ND< 50.0	ND< 10.0	ND< 10.0	ND< 10.0	ND< 10.0	ND< 10.0	ND< 100	50 (G)
2-Butanone	ND< 500	ND< 50.0	ND< 5.00	ND< 5.00	ND< 5.00	ND< 10.0	ND< 5.00	ND< 50.0	ND< 125	ND< 5.00	ND< 125	ND< 5.00	ND< 5.00	ND< 5.00	ND< 5.00	ND< 5.00	ND< 50.0	NS
2-Hexanone	ND< 500	ND< 50.0	ND< 5.00	ND< 5.00	ND< 5.00	ND< 10.0	ND< 5.00	ND< 50.0	ND< 125	ND< 5.00	ND< 125	ND< 5.00	ND< 5.00	ND< 5.00	ND< 5.00	ND< 5.00	ND< 50.0	50 (G)
4-Methyl-2-pentanone	ND< 500	ND< 50.0	ND< 5.00	ND< 5.00	ND< 5.00	ND< 10.0	ND< 5.00	ND< 50.0	ND< 125	ND< 5.00	ND< 125	ND< 5.00	ND< 5.00	ND< 5.00	ND< 5.00	ND< 5.00	ND< 50.0	NS
Carbon disulfide	ND< 500	ND< 50.0	ND< 5.00	ND< 5.00	ND< 5.00	ND< 10.0	ND< 5.00	ND< 50.0	ND< 125	ND< 5.00	ND< 125	ND< 5.00	ND< 5.00	ND< 5.00	ND< 5.00	ND< 5.00	ND< 50.0	60 (G)
Vinyl acetate	ND< 500	ND< 50.0	ND< 5.00	ND< 5.00	ND< 5.00	ND< 10.0	ND< 5.00	ND< 50.0	ND< 125	ND< 5.00	ND< 125	ND< 5.00	ND< 5.00	ND< 5.00	ND< 5.00	ND< 5.00	ND< 50.0	NS

TABLE 12
SUMMARY OF TCL/STARS VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (ug/L)
Five Parcels in the Brooks Landing Urban Renewal District
Rochester, NY

TCL/STARS VOCs	PZ-1	PZ-2	PZ-4	PZ-5	PZ-7 10/30/02	PZ-7 11/22/02	PZ-14	PZ-16	PZ-17	PZ-18	PZ-19	PZ-20	PZ-21	MW-1	MW-4	MW-5	RW	NYSDEC Groundwater Standards and Guidance Values [1]
		Groundwater Samples (ug/l)																
Additional STARS Compounds																		
n-Butylbenzene	ND< 200	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	5
sec-Butylbenzene	ND< 200	ND< 20.0	ND< 2.00	**4.72**	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	5
tert-Butylbenzene	***209***	ND< 20.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	5
n-Propylbenzene	***229***	***26.7***	**2.01**	***20.6***	ND< 2.00	ND< 4.00	ND< 2.00	***99.0***	***281***	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	5
Isopropylbenzene	ND< 200	***21.9***	ND< 2.00	***11.3***	ND< 2.00	ND< 4.00	ND< 2.00	***39.5***	***111***	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	5
p-Isopropyltoluene	ND< 200	ND< 20.0	ND< 2.00	***6.41***	ND< 2.00	ND< 4.00	ND< 2.00	ND< 20.0	ND< 50.0	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	5
Naphthalene	***616***	***50.0***	ND< 5.00	***40.5***	ND< 5.00	ND< 10.0	ND< 5.00	***98.8***	***510***	ND< 5.00	ND< 25.0	ND< 5.00	ND< 5.00	ND< 5.00	ND< 5.00	ND< 5.00	ND< 50.0	5
1,2,4-Trimethylbenzene	***1920***	***142***	***5.65***	***122***	ND< 2.00	ND< 4.00	ND< 2.00	***122***	***1,760***	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	5
1,3,5-Trimethylbenzene	***581***	ND< 20.0	ND< 2.00	***28.3***	ND< 2.00	ND< 4.00	ND< 2.00	***33.2***	***495***	ND< 2.00	ND< 10.0	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 2.00	ND< 20.0	5
Miscellaneous																		
Methyl tert-butyl Ether	ND< 200	ND< 20.0	***61.0***	ND< 2.00	***104***	***111***	***23.7***	ND< 20.0	ND< 50.0	***290***	***48.1***	ND< 2.00	***15.8***	***85.5***	ND< 2.00	**2.26**	***120***	10 (G)
Total Detected VOCs	***14,295***	***1,599***	***86.25***	***312.93***	***347.3***	***428***	***23.7***	***641.8***	***15,538***	***509.29***	***889.2***	0	***18.25***	***85.5***	0	**2.26**	***191.8***	

Notes:
1. NYSDEC. October 22, 1993. Ambient Water Quality Standards and Guidance Values, Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1); Reissued June 1998. April 2000 Addendum.
2. All results are expressed in micrograms per liter (ug/L), which is equivalent to parts per billion.
3. **Bolded** values are compounds that have been detected.
4. **Bolded,** Underlined, and *Italicized* values are compounds that have been detected and exceed the Class GA groundwater standards or guidance values.
5. (G) = guidance value.
6. "ND<" indicates that the analyte was analyzed but not detected.
7. "NS" = No Standard.

TABLE 13
SUMMARY OF STARS SEMI-VOLATILE BASE NEUTRAL COMPOUNDS and TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER

Five Parcels in the Brooks Landing Urban Renewal District
Rochester, NY

Parameters	PZ-1	PZ-4	MW-4	PZ-14	NYSDEC Groundwater Standards and Guidance Values [1]
8270 STARS SVBNs					
Acenaphthene	ND< 100	ND< 10.0	ND< 10.0	ND< 10.0	20 (G)
Anthracene	ND< 100	ND< 10.0	ND< 10.0	ND< 10.0	50 (G)
Benzo (a) anthracene	ND< 100	ND< 10.0	ND< 10.0	ND< 10.0	0.002
Benzo (a) pyrene	ND< 100	ND< 10.0	ND< 10.0	ND< 10.0	0.002
Benzo (b) fluoranthene	ND< 100	ND< 10.0	ND< 10.0	ND< 10.0	0.002
Benzo (g,h,i) perylene	ND< 100	ND< 10.0	ND< 10.0	ND< 10.0	NS
Benzo (k) fluoranthene	ND< 100	ND< 10.0	ND< 10.0	ND< 10.0	0.002
Chrysene	ND< 100	ND< 10.0	ND< 10.0	ND< 10.0	0.002
Dibenz (a,h) anthracene	ND< 100	ND< 10.0	ND< 10.0	ND< 10.0	NS
Fluoranthene	ND< 100	ND< 10.0	ND< 10.0	ND< 10.0	50 (G)
Fluorene	ND< 100	ND< 10.0	ND< 10.0	ND< 10.0	50 (G)
Indeno (1,2,3-cd) pyrene	ND< 100	ND< 10.0	ND< 10.0	ND< 10.0	0.002
Naphthalene	***2,650***	ND< 10.0	ND< 10.0	ND< 10.0	10
Phenanthrene	ND< 100	ND< 10.0	ND< 10.0	ND< 10.0	50 (G)
Pyrene	ND< 100	ND< 10.0	ND< 10.0	ND< 10.0	50 (G)
TPH					
Light Weight PHC as: Gasoline	Pure Product	NA	NA	NA	NS

Notes:

1. NYSDEC. October 22, 1993. Ambient Water Quality Standards and Guidance Values, Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1); Reissued June 1998. April 2000 Addendum.
2. All results are expressed in micrograms per liter (ug/L), which is equivalent to parts per billion.
3. **Bolded** values are samples that have been detected.
4. **Bolded,** Underlined**,** and *Italicized* values are samples that have been detected and exceed the Class GA groundwater standards and guidance values.
5. (G) = guidance value.
6. "ND<" indicates that the analyte was analyzed but not detected.
7. "NS" = No Standard.
8. "NA" = Not Analyzed.

TABLE 14
SUMMARY OF TCLP VOC RESULTS (ug/L)
Five Parcels in the Brooks Landing Urban Renewal District
Rochester, NY

TCLP VOC Analytes	BLACK CARBON FILL SAMPLES						Regulatory Limits [1]
	GP26-(4-8)	GP27-(4-8)	GP30-(4-8)	GP36-(4-8)	GP41-(4-8)	GP43-(4-8)	
Benzene	ND< 20.0	ND< 20.0	ND< 20.0	ND< 20.0	ND< 20.0	ND< 20.0	500
2-Butanone (MEK)	ND< 50.0	ND< 50.0	ND< 50.0	ND< 50.0	ND< 50.0	ND< 50.0	200,000
Carbon tetrachloride	ND< 20.0	ND< 20.0	ND< 20.0	ND< 20.0	ND< 20.0	ND< 20.0	500
Chlorobenzene	ND< 20.0	ND< 20.0	ND< 20.0	ND< 20.0	ND< 20.0	ND< 20.0	100,000
Chloroform	ND< 20.0	ND< 20.0	ND< 20.0	ND< 20.0	ND< 20.0	ND< 20.0	6,000
1,2-Dichloroethane	ND< 20.0	ND< 20.0	ND< 20.0	ND< 20.0	ND< 20.0	ND< 20.0	500
1,1-Dichloroethene	ND< 20.0	ND< 20.0	ND< 20.0	ND< 20.0	ND< 20.0	ND< 20.0	700
Tetrachloroethene	ND< 20.0	ND< 20.0	ND< 20.0	ND< 20.0	ND< 20.0	ND< 20.0	700
Trichloroethene	***826***	***552***	***507***	**427**	**286**	**186**	500
Vinyl Chloride	ND< 20.0	ND< 20.0	ND< 20.0	ND< 20.0	ND< 20.0	ND< 20.0	200

Notes:
1. Maximum concentration of contaminants for toxicity characteristics. Title 40, Code of Federal Regulation, Chapter 1- Environmental Protection Agency, Part 261, Identification and Listing of Hazardous Waste, Revised April 1990 (40CFR261).
2. ug/L = all values expressed in micrograms per liter (equivalent to parts per billion).
3. **Bolded** values are parameters that have been detected.
4. **Bolded**, Underlined, and *Italicized* values are reported concentrations above the NYSDEC/USEPA hazardous waste threshold.

TABLE 1A
SUMMARY OF PID HEADSPACE READINGS (ppm)

Sub-Area I
Brooks Landing Urban Renewal District
Rochester, NY

Borehole	Depth (ft. bgs)	PID Readings	
		Peak (ppm)	Background (ppm)
1315 South Plymouth/ 150 Elmwood Avenue			
PZ100	0-4	0.8	0.8
	4-8	0.6	0.8
	8-12	1.1	0.8
	12-13	0.8	0.8
PZ101	0-4	0.5	0.5
	4-8	5.2	0.5
	8-12	2.6	0.5
	12-14	0.5	0.5
PZ102	0-4	0.6	0.6
	4-8	1.0	0.3
	8-12	0.5	0.0
	12-13	0.0	0.0
PZ103	0-4	0.8	0.8
	4-8	4.7	0.5
	8-12	1.7	0.5
	12-12.2	0.0	0.0
B104	0-4	0.6	0.5
	4-8	0.7	0.5
	8-11.9	0.7	0.5
B105	0-4	0.7	0.7
	4-8	0.5	0.4
	8-12	0.4	0.4
B106	0-4	0.7	0.7
	4-8	0.7	0.7
	8-12	0.7	0.7
B107	0-4	0.9	0.9
	4-8	0.9	0.9
	8-12	0.9	0.9

TABLE 1A
SUMMARY OF PID HEADSPACE READINGS (ppm)

Sub-Area I
Brooks Landing Urban Renewal District
Rochester, NY

Borehole	Depth (ft. bgs)	PID Readings	
		Peak (ppm)	Background (ppm)
1315 South Plymouth/ 150 Elmwood Avenue (cont.)			
B-108	0-4	1.0	0.9
	4-8	1.0	0.9
	4-11.9	0.9	0.9
B-109	0-4	0.8	0.8
	4-8	0.8	0.8
	8-12	0.8	0.8
B110	0-4	0.8	0.8
	4-8	0.8	0.8
	8-12	0.8	0.8
B111	0-4	1.0	0.9
	4-8	1.0	0.9
	8-12	0.9	0.9
B112	0-4	1.1	1.0
	4-8	1.1	1.0
	8-12	1.0	1.0
B113	0-4	0.7	0.7
	4-8	0.7	0.7
	8-12	0.8	0.7
B114	0-4	0.9	0.9
	4-8	1.4	0.9
	8-12	1.4	0.9
B115	0-4	0.9	0.9
	4-8	0.9	0.9
	8-11.9	0.9	0.9
B116	0-4	0.6	0.6
	4-8	0.6	0.6
	8-12	0.6	0.6
B117	0-4	1.0	0.9
	4-8	0.9	0.9
	8-12	0.9	0.9

TABLE 1A
SUMMARY OF PID HEADSPACE READINGS (ppm)

Sub-Area I
Brooks Landing Urban Renewal District
Rochester, NY

Borehole	Depth (ft. bgs)	PID Readings	
		Peak (ppm)	Background (ppm)
1315 S. Plymouth/ 150 Elmwood Avenue (cont.)			
B118	0-4	0.5	0.0
	4-8	0.8	0.0
	8-12	0.0	0.0
	12-16	0.0	0.0
B118R	0-4	0.9	0.2
	4-8	0.4	0.2
B119	0-4	0.0	0.0
	4-8	0.8	0.0
	8-12	0.0	0.0
B120	0-4	0.3	0.0
	4-8	2.2	0.0
	8-12	0.0	0.0
B121	0-4	0.3	0.0
	4-8	0.3	0.0
	8-12	0.0	0.0
B122	0-4	0.3	0.0
	4-8	0.9	0.0
	8-12	0.0	0.0
B123	0-4	0.2	0.0
	4-8	0.1	0.0
	8-12	0.0	0.0
B124	0-4	1.1	0.0
	4-8	0.2	0.0
	8-12	0.4	0.0
B124R	0-4	0.8	0.3
	4-8	1.4	0.3

TABLE 1A
SUMMARY OF PID HEADSPACE READINGS (ppm)

Sub-Area I
Brooks Landing Urban Renewal District
Rochester, NY

Borehole	Depth (ft. bgs)	PID Readings	
		Peak (ppm)	Background (ppm)
1315 S. Plymouth/ 150 Elmwood Avenue (cont.)			
B125	0-4	0.3	0.0
	4-8	0.5	0.0
B126	0-4	0.8	0.7
	4-8	1.1	0.7
	8-12	0.7	0.7
B126R	0-4	0.6	0.3
	4-8	0.5	0.3
B127	0-4	0.7	0.5
	4-8	0.8	0.5
	8-12	0.5	0.5
B128	0-4	1.3	0.8
	4-8	0.9	0.8
	8-12	0.8	0.8
PZ152	0-4	1.2	1.0
	4-8	1.2	1.0
	8-12	1.4	1.0
	12-13	1.5	1.0
B153	0-4	1.4	1.2
	4-8	1.5	1.2
	8-12	1.2	1.2
B154	0-4	1.4	1.2
	4-8	1.6	1.2
	8-12	1.4	1.2
B155	0-4	0.0	0.0
	4-8	0.0	0.0
B156	0-4	0.0	0.0
	4-8	0.0	0.0
B157	0-4	106	0.0
B157R	0-4	0.1	0.0
	4-8	8.4	0.0
	8-12	4.8	0.0
	11-12	1.7	0.0
B158	0-4	0.0	0.0
	4-8	0.0	0.0

TABLE 1A
SUMMARY OF PID HEADSPACE READINGS (ppm)

Sub-Area I
Brooks Landing Urban Renewal District
Rochester, NY

Borehole	Depth (ft. bgs)	PID Readings	
		Peak (ppm)	Background (ppm)
B159	0-4	0.0	0.0
	4.2-4.5	535	0.0
	4.5-8.0	13.6	0.0
B160	0-4	2.8	0.0
	4-8	48.1	0.0
	8-12	7.2	0.0
B161	0-4	3.1	0.0
B162	0-4	7.8	0.0
B163	0-4	4.0	0.0
B164	0-4	8.6	0.0
B165	0-4	5.7	0.0
	4-8	29.9	0.0
B166	0-4	8.7	0.0
	4-8	1.9	0.0
B167	0-4	3.2	0.0
B168	0-4	5.2	0.0
B169	0-4	1.1	0.0
973-975 Genesee Street			
PZ150	0-4	0.3	0.2
	4-8	59.1	0.2
	8-12	8.0	0.2
	12-16	126	0.3
	16-16.5	38.2	0.3
PZ151	0-4	4.6	0.5
	4-8	0.9	0.3
	8-12	11.1	0.3
	12-16	26.2	0.2
	16-20	1.6	0.2

Notes:
1. ft. bgs = feet below ground surface.
2. ppm = parts per million.
3. PID data collected with Mini Rae 2000 equipped with 10.6 eV lamp.

TABLE 2A
SOIL SAMPLE SUMMARY

Sub-Area I
Brooks Landing Urban Renewal District
Rochester, NY

Sample ID/Description	Location	Date	Depth (ft. bgs)	Parameters
150 Elmwood Ave./ 1315 S. Plymouth				
Granular Fill				
PZ101 (4-8)	PZ101	1/14/03	4-8	TCL/STARS VOCs by EPA Method 8260
PZ102 (4-8)	PZ102	1/14/03	4-8	TCL/STARS VOCs by EPA Method 8260
PZ103 (4-8)	PZ103	1/14/03	4-8	TCL/STARS VOCs by EPA Method 8260
B106 (0-4)	B106	1/15/03	0-4	TCL SVBNs by EPA Method 8270; 8 RCRA Metals by various methods; PCBs by EPA Method 8082; Chlorinated Herbicides by EPA Method 8151
B115 (0-4)	B115	1/15/03	0-4	TCL SVBNs by EPA Method 8270; 8 RCRA Metals by various methods; PCBs by EPA Method 8082; Chlorinated Herbicides by EPA Method 8151
B124 (0-4)	B124	1/16/03	0-4	TCL SVBNs by EPA Method 8270; 8 RCRA Metals by various methods; PCBs by EPA Method 8082; Chlorinated Herbicides by EPA Method 8151
B124R-R (0-4)	B124R	3/7/03	0-4	TCLP Mercury and Arsenic; TCL SVBNs by EPA Method 8270
B154 (4-8)	B154	3/7/03	0-4	TCL VOCs by EPA Method 8260; TCL SVBNs by EPA Method 8270 8 RCRA Metals by various methods
B157 (0-4)	B157	4/1/03	0-4	TCL/STARS VOCs by EPA Method 8260 TPH by NYSDOH Method 3.10-13 PCBs by EPA Method 8082
B159 (4.2-4.5)[(2)]	B159	4/1/03	4.2-4.5	TCL/STARS VOCs by EPA Method 8260 TCL SVOCs by EPA Method 8270; TPH by NYSDOH Method 3.10-13
B160 (4-8)	B160	4/1/03	4-8	TCL/STARS VOCs by EPA Method 8260 STARS SVBNs by EPA Method 8270; TPH by NYSDOH Method 3.10-13 PCBs by EPA Method 8082
B161 (0-4)	B161	4/1/03	0-4	STARS SVBNs by EPA Method 8270
B165 (4-4.8)	B165	4/1/03	4-4.8	TCL/STARS VOCs by EPA Method 8260 STARS SVBNs by EPA Method 8270; PCBs by EPA Method 8082
B169 (0-1.5)	B169	4/1/03	0-1.5	STARS SVBNs by EPA Method 8270

TABLE 2A
SOIL SAMPLE SUMMARY

Sub-Area I
Brooks Landing Urban Renewal District
Rochester, NY

Sample ID/Description	Location	Date	Depth (ft. bgs)	Parameters
Black Carbon Fill				
B118 (4-8)	B118	1/16/03	4-8	TCL VOCs by EPA Method 8260
B118 R(4-8)	B118	1/29/03	4-8	TCL VOCs by EPA Method 8260
B124 (4-8)	B124	1/16/03	4-8	TCL VOCs by EPA Method 8260
B124R (4-8)	B124	1/29/03	4-8	TCL VOCs by EPA Method 8260
B-126R (4-8)	B126	1/16/03	4-8	TCL VOCs by EPA Method 8260
B-126R (4-8)	B126	1/29/03	4-8	TCL VOCs by EPA Method 8260
Native Deposits				
PZ100 (8-12)	PZ100	1/13/03	8-12	TCL/STARS VOCs by 8260
B110 (4-8)	B110	1/15/03	4-8	TCL SVBNs by EPA Method 8270; 8 RCRA Metals by various methods PCBs by EPA Method 8082; Chlorinated Herbicides by EPA Method 8151
B118 (8-12)	B118	1/16/03	8-12	TCL VOCs by EPA Method 8260
B124 (8-12)	B124	1/16/03	8-12	TCL VOCs by EPA Method 8260
B126 (8-12)	B126	1/16/03	8-12	TCL VOCs by EPA Method 8260
973-985 Genesee St.				
PZ-150 (8-12)	PZ150	1/28/03	8-12	TCL/STARS VOCs by EPA Method 8260
PZ-151 (12-16)	PZ151	1/29/03	12-16	TCL/STARS VOCs by EPA Method 8260

Notes:
1. ft. bgs = feet below ground surface.
2. Tar sample.

TABLE 3A
WELL COMPLETION SUMMARY

Sub-Area I
Brooks Landing Urban Renewal District
Rochester, NY

Well	Reference Elevation	Well Diameter (in.)	Bentonite Seal (ft. bgs)	Sandpack Interval (ft. bgs)	Screened Interval (ft. bgs)	Total Depth (ft. bgs)
150 Elmwood Avenue						
PZ-100	518.07	1"	0.5-2.0	2.0-13	3-13	13.0
PZ-101	518.09	1"	1-2.75	2.75-14	4-14	14.0
PZ-102	518.07	1"	0.5-2.0	2-13	3-13	13.0
PZ-103	517.62	1"	0-1.2	1.2-2.2	2.2-12.2	12.2
PZ-152	518.78	1"	0.5-2.0	2.0-13	3-13	13.0
973-985 Genesee St.						
PZ-150	528.4	1"	3.5-1.0	3.5-16.75	6.75-16.75	16.75
PZ-151	528.6	1"	3.5-1.0	3.5-20	10-20	20.0

Notes:
1. Reference elevations measured at top of PVC well riser are based upon "Brooks" USC & GS benchmark = 529.30 ft amsl; approx. 150 ft. south of intersection of Brooks Ave. and Genesee St., east side of Genesee St.
2. ft. bgs = feet below ground surface.

TABLE 4A
WELL DEVELOPMENT SUMMARY

Sub-Area I
Brooks Landing Urban Renewal District
Rochester, NY

Well	Date	Time	Volume Purged (gal)	pH (SU)	Conductivity (us/cm)	Temperature (^{o}C)	Turbidity (NTU)	Oxidation Reduction Potential (mV)
150 Elmwood Ave								
PZ-100	01/16/03	10:05	0.27	7.19	1595	7.7	200+	24
		10:10	0.54	6.76	1536	7.6	200+	80
		10:15	0.81	6.80	1530	6.0	200+	109
				Dry after 3 Well volumes				
		12:45	0	7.01	1563	6.0	200+	121
		12:55	0.31	7.55	1541	6.5	200+	132
		--	0.62	7.62	1544	6.6	200+	107
		--	0.93	7.76	1560	6.0	200+	96
PZ-101	01/16/03	10:30	0.34	6.61	1679	5.9	200+	154
		10:35	0.68	6.43	1655	7.0	200+	151
		10:40	1.02	6.54	1679	7.0	200+	142
		10:45	1.36	6.51	1673	7.4	200+	145
		10:50	1.70	6.45	1682	7.2	200+	145
		10:55	2.04	6.54	1659	6.5	200+	126
		11:00	2.38	6.65	1727	7.3	200+	116
		11:03	2.72	6.79	1740	6.5	200+	111
		11:05	3.06	6.79	1741	6.5	200+	112
		11:07	3.40	6.81	1740	6.5	200+	110
		13:30	0.00	8.19	1717	6.0	200+	144
		13:35	0.33	10.25	1727	6.2	200+	133
		13:37	0.66	8.63	1720	6.5	200+	138
		13:40	0.99	6.84	1722	7.0	200+	132
PZ-102	01/16/03	11:35	0.3	11.95	2910	6.20	200+	43
		11:40	0.6	8.03	3039	6.50	200+	101
		11:45	0.9	13.59	3145	6.70	200+	93
		11:50	1.2	12.38	3150	6.80	200+	89
				Dry after 4 Well volumes				
		14:30	0.0	7.29	2862	4.5	200+	135
		14:33	0.33	6.56	3078	6.4	200+	107
		14:35	0.66	5.83	3195	6.7	200+	111
		14:37	0.99	5.63	3259	6.7	200+	139
PZ-103	01/16/03	11:12	0.29	7.43	1839	6.1	200+	116
		11:15	0.58	8.92	1851	6.1	200+	111
		11:17	0.87	9.38	1891	6.3	200+	87
		13:55	0.0	7.98	1894	7.1	200+	130
		14:00	0.31	6.99	1903	6.9	200+	123
		14:05	0.62	6.77	1878	6.7	200+	125
		14:10	0.93	6.51	1903	6.3	200+	129

TABLE 4A
WELL DEVELOPMENT SUMMARY

Sub-Area I
Brooks Landing Urban Renewal District
Rochester, NY

Well	Date	Time	Volume Purged (gal)	pH (SU)	Conductivity (us/cm)	Temperature (^{o}C)	Turbidity (NTU)	Oxidation Reduction Potential (mV)
150 Elmwood Ave (cont)								
PZ-152	03/12/03	9:14	0.2	6.70	3138	6.2	200+	86
		9:22	0.4	7.26	3048	6.3	200+	29
		9:27	0.6	7.28	2885	6.7	200+	75
973-985 Genesee St.								
PZ-150	01/31/03	9:06	0.25	6.51	2068	8.8	200+	-35
		9:09	0.5	6.52	2019	8.6	200+	-75
		9:12	0.75	6.71	1485	7.7	200+	-73
PZ-151	01/31/03	9:30	0.25	6.70	1814	9.7	200+	26
		9:34	0.5	6.63	1435	10.9	200+	4
		9:37	0.75	6.65	1141	11.1	200+	530
		9:41	1	6.71	988.8	11.6	200+	-18
		9:44	1.25	6.73	8873	11.4	200+	0

Notes:
1. gal = gallons
2. SU = standard units.
3. us/cm = microsiemens per centimeter.
4. (^{o}C) = degrees Celsius.
5. NTU = Nephelometric Turbidity Units.
6. mV = millivolts

TABLE 5A
WATER LEVEL SUMMARY

Sub-Area I
Brooks Landing Urban Renewal District
Rochester, NY

Well	Reference Elevation	November 6, 2002		November 11, 2002		November 27, 2002		February 4, 2003		March 18, 2003	
		Water Level (ft. btoc)	Water Level (elevation)	Water Level (ft. btoc)	Water Level (elevation)	Water Level (ft. btoc)	Water Level (elevation)	Water Level (ft. btoc)	Water Level (elevation)	Water Level (ft. btoc)	Water Level (elevation)
PZ-1	529.11	13.36	515.75	13.51	515.60	13.52	515.59	12.67*/18.05	516.44*/511.06	16.35	512.76
PZ-2	528.39	13.97	514.42	13.99	514.40	13.63	514.76	12.68	515.71	12.34	516.05
PZ-4	528.64	13.46	515.18	13.41	515.23	12.76	515.88	11.68	516.96	10.83	517.81
PZ-5	529.18	13.98	515.20	12.45	516.73	10.94	518.24	10.14	519.04	9.41	519.77
PZ-7	529.79	14.40	515.39	14.68	515.11	14.35	515.44	13.94	515.85	13.38	516.41
PZ-14	528.01	14.27	513.74	14.27	513.74	13.94	514.07	13.50	514.51	11.84	516.17
PZ-16	529.07	11.82	517.25	10.63	518.44	9.50	519.57	9.66	519.41	8.78	520.29
PZ-17	529.22	10.07	519.15	10.15	519.07	9.06	520.16	9.08	520.14	7.44	521.78
PZ-18	528.28	-	-	-	-	13.96	514.32	13.53	514.75	11.71	516.57
PZ-19	529.33	-	-	-	-	15.01	514.32	14.64	514.69	12.52	516.81
PZ-20	530.53	-	-	-	-	14.90	515.63	14.28	516.25	13.29	517.24
PZ-21	529.90	-	-	-	-	14.47	515.43	14.10	515.80	12.90	517.00
MW-1	529.02	14.28	514.74	14.15	514.87	13.88	515.14	13.40	515.62	12.64	516.38
MW-4	530.97	14.27	516.70	13.56	517.41	12.06	518.91	11.70	519.27	11.52	519.45
MW-5	528.07	13.90	514.17	13.85	514.22	13.50	514.57	12.98	515.09	11.80	516.27
RW	528.60	14.32	514.28	14.45	514.15	14.18	514.42	13.66	514.94	12.52	516.08
PZ-100	518.07	-	-	-	-	-	-	4.14	513.93	2.94	515.13
PZ-101	518.09	-	-	-	-	-	-	4.28	513.81	2.92	515.17
PZ-102	518.07	-	-	-	-	-	-	4.27	513.80	2.86	515.21
PZ-103	517.62	-	-	-	-	-	-	3.83	513.79	2.58	515.04
PZ-137	526.74	-	-	-	-	-	-	12.20	514.54	11.49	515.25
PZ-138	526.17	-	-	-	-	-	-	11.29	514.88	10.52	515.65
PZ-141	524.59	-	-	-	-	-	-	8.34	516.25	9.12	515.47
PZ-145	525.85	-	-	-	-	-	-	9.18	516.67	8.32	517.53
PZ-150	528.40	-	-	-	-	-	-	8.04	520.36	6.42	521.98
PZ-151	528.60	-	-	-	-	-	-	12.10	516.50	10.56	518.04
PZ-152	518.78	-	-	-	-	-	-	-	-	2.98	515.80

Notes:

1. Reference elevations measured at top of PVC well riser are based upon "Brooks" USC & GS benchmark = 529.30 ft amsl; approx. 150 ft. south of intersection of Brooks Ave. and Genesee St., east side of Genesee St.
2. ft. btoc = feet below top of casing.
3. * denotes product/oil elevation

TABLE 6A
GROUNDWATER SAMPLE SUMMARY

Sub-Area I
Brooks Landing Urban Renewal District
Rochester, NY

Sample ID	Location	Date	Method	Parameters
150 Elmwood Ave.				
PZ-100	PZ-100	1/16/2003	Stainless Steel Bailer	TCL/STARS VOCs by EPA Method 8260
PZ-101	PZ-101	1/16/2003	Stainless Steel Bailer	TCL/STARS VOCs by EPA Method 8260
PZ-102	PZ-102	1/16/2003	Stainless Steel Bailer	TCL/STARS VOCs by EPA Method 8260
PZ-103	PZ-103	1/16/2003	Stainless Steel Bailer	TCL/STARS VOCs by EPA Method 8260
PZ 152-3/03	PZ-152	3/5/2003	Disposable Poly Bailer	TCL/STARS VOCs by EPA Method 8260
973-985 Genesee St.				
PZ 150-1/03	PZ-150	1/31/2003	Stainless Steel Bailer	TCL/STARS VOCs by EPA Method 8260
PZ 151-1/03	PZ-151	1/31/2003	Stainless Steel Bailer	TCL/STARS VOCs by EPA Method 8260

TABLE 7A
SUMMARY OF TCL/STARS VOLATILE ORGANIC COMPOUNDS IN SOIL (ug/kg)
Sub-Area I
Brooks Landing Urban Renewal District
Rochester, NY

	1315 South Plymouth Ave./150 Elmwood Ave.								1315 South Plymouth Ave./150 Elmwood Ave.										973-985 Genesee Street		
	Granular Fill							TAR	Black Carbon Fill							Native Deposits				Native Deposits		Recommended
TCL STARS VOCs	PZ101 (4-8)	PZ102 (4-8)	PZ103(4-8)	B154 (4-8)	B157 (0-4)	B160 (4-8)	B165 (4-4.8)	B159 (4.2-4.5)	B118 (4-8')	B118R (4-8')	B124 (4-8')	B124R (4-8')	B126 (4-8')	B126R (4-8')	PZ-100 (8-12)	B118 (8-12')	B124 (8-12')	B126 (8-12')	PZ150 (8-12')	PZ-151 (12-16')	Soil Cleanup Objective [1]
Volatile Halocarbons																					
Bromodichloromethane	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.0	ND< 1.2	ND< 1.2	ND< 130	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	10,000 *
Bromomethane	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.3	ND< 2.5	ND< 1.5	ND< 68	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	10,000 *
Bromoform	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.4	ND< 1.6	ND< 1.7	ND< 88	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	10,000 *
Carbon tetrachloride	ND< 7.42	ND< 9.47	ND< 7.97	ND< 2.7	ND< 3.0	ND< 3.2	ND< 84	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	600
Chloroethane	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.6	ND< 1.9	ND< 2.0	ND< 430	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	1,900
Chloromethane	ND< 7.42	ND< 9.47	ND< 7.97	ND< 2.2	ND< 2.5	ND< 2.6	ND< 91	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	10,000 *
2-Chloroethyl vinyl ether	ND< 7.42	ND< 9.47	ND< 7.97		ND< 25.0			ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	10,000 *
Chloroform	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.3	ND< 1.4	ND< 1.5	ND< 110	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	300
Cyclohexane						ND< 2.0		ND< 188													10,000*
Dibromochloromethane	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.1	ND< 1.3	ND< 1.4	ND< 120	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	10,000 *
1,1-Dichloroethane	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.4	ND< 1.3	ND< 1.7	ND< 120	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	200
1,2-Dichloroethane	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.4	ND< 1.6	ND< 1.7	ND< 100	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	100
1,1-Dichloroethene	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.4	ND< 1.6	ND< 1.4	ND< 120	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	400
cis-1,2-Dichloroethene	**10.3**	**9.63**	ND< 7.97	ND< 1.1	ND< 1.3	ND< 1.4	ND< 110	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	10,000 *
trans-1,2-Dichloroethene	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.4	ND< 1.6	ND< 1.7	ND< 140	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	300
1,2-Dichloropropane	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.0	ND< 1.2	ND< 1.2	ND< 130	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	10,000 *
cis-1,3-Dichloropropene	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.1	ND< 1.3	ND< 1.4	ND< 120	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	10,000 *
trans-1,3-Dichloropropene	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.3	ND< 1.4	ND< 1.5	ND< 120	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	10,000 *
Methyl Cyclohexane						ND< 1.5															10,000*
Methylene chloride	ND< 18.6	ND< 23.7	ND< 19.9	ND< 1.6	ND< 1.9	ND< 2.0	ND< 310	ND< 470	C ***453***	ND< 29.4	C ***271***	ND< 30.6	C ***293***	ND< 28.7	ND< 23.2	C **98.5**	ND< 19.5	ND< 18.6	ND< 25.00	ND< 5.64	100
1,1,2,2-Tetrachloroethane	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.3	ND< 1.4	ND< 1.5	ND< 130	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	600
Tetrachloroethene	ND< 7.42	ND< 9.47	**20.7**	ND< 1.5	ND< 1.9		ND< 130	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	1,400
1,1,1-Trichloroethane	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.3	ND< 1.4	ND< 1.5	ND< 130	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	800
1,1,2-Trichloroethane	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.4	ND< 1.6	ND< 1.7	ND< 110	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	10,000 *
Trichloroethene	**82.9**	**44.4**	**23.0**	ND< 1.3	ND< 1.4	ND< 1.5	ND< 130	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	700
Trichlorofluoromethane	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.6	ND< 1.9	ND< 2.0	ND<	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	10,000 *
Vinyl Chloride	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.3	ND< 1.4	ND< 1.5	ND< 140	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	200
Volatile Aromatics																					
Benzene	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.3	ND< 1.4	ND< 1.5	ND< 130	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	***463***	60 or MDL
Chlorobenzene	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.4	ND< 1.6	ND< 1.7	ND< 140	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	1,700
Ethylbenzene	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.3	ND< 1.4	ND< 1.5	ND< 130	**1,360**	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	***433***	***268***	5,500
Toluene	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.4	ND< 1.6	ND< 1.7	ND< 130	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	**141**	1,500
m,p - Xylene	ND< 7.42	ND< 9.47	**9.08**	ND< 3.5	ND< 4.1	ND< 4.3	**750 J**	***9,120***	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	**943**	**618**	1,200
o - Xylene	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.4	**13.5**	ND< 1.7	**330 J**	***10,100***	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	**44.4**	**282**	600
Styrene	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.8	ND< 2.0	ND< 2.2	ND< 160	ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	10,000 *
1,2-Dichlorobenzene	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.1	ND< 1.3	ND< 1.4		ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	7,900
1,3-Dichlorobenzene	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.3	ND< 1.4	ND< 1.5		ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	1,600
1,4-Dichlorobenzene	ND< 7.42	ND< 9.47	ND< 7.97	ND< 1.0	ND< 1.2	ND< 1.2		ND< 188	ND< 10.6	ND< 11.8	ND< 10.8	ND< 12.2	ND< 11.5	ND< 11.5	ND< 9.28	ND< 9.31	ND< 7.80	ND< 7.45	ND< 10.00	ND< 5.64	8,500

TABLE 7A
SUMMARY OF TCL/STARS VOLATILE ORGANIC COMPOUNDS IN SOIL (ug/kg)
Sub-Area I
Brooks Landing Urban Renewal District
Rochester, NY

	1315 South Plymouth Ave./150 Elmwood Ave.							1315 South Plymouth Ave./150 Elmwood Ave.										973-985 Genesee Street		
	Granular Fill							TAR	Black Carbon Fill						Native Deposits				Native Deposits		Recommended
TCL STARS VOCs	PZ101 (4-8)	PZ102 (4-8)	PZ103(4-8)	B154 (4-8)	B157 (0-4)	B160 (4-8)	B165 (4-4.8)	B159 (4.2-4.5)	B118 (4-8')	B118R (4-8')	B124 (4-8')	B124R (4-8')	B126 (4-8')	B126R (4-8')	PZ-100 (8-12)	B118 (8-12')	B124 (8-12')	B126 (8-12')	PZ150 (8-12')	PZ-151 (12-16')	Soil Cleanup Objective [1]
Ketones & Misc.																					
Acetone	ND< 37.10	ND< 47.4	ND< 39.9	ND< 4.4	**85.4**	ND< 5.4	ND< 630	ND< 941	ND< 53.1	ND< 58.9	ND< 54.2	ND< 61.2	ND< 57.6	ND< 57.3	ND< 46.40	ND< 46.6	ND< 39.0	ND< 37.2	ND< 50.1	ND< 28.2	200
2-Butanone	ND< 18.60	ND< 23.7	ND< 19.9	ND< 6.3	ND< 7.2	ND< 7.7	ND< 410	ND< 470	ND< 26.5	ND< 29.4	ND< 27.1	ND< 30.6	ND< 28.8	ND< 28.7	ND< 23.20	ND< 23.3	ND< 19.5	ND< 18.6	ND< 25.0	ND< 14.1	300
2-Hexanone	ND< 18.60	ND< 23.7	ND< 19.9	ND< 6.3	ND< 7.2	ND< 7.7	ND< 110	ND< 470	ND< 26.5	ND< 29.4	ND< 27.1	ND< 30.6	ND< 28.8	ND< 28.7	ND< 23.20	ND< 23.3	ND< 19.5	ND< 18.6	ND< 25.0	ND< 14.1	10,000 *
4-Methyl-2-pentanone	ND< 18.60	ND< 23.7	ND< 19.9	ND< 5.1	ND< 5.8	ND< 6.2	ND< 140	ND< 470	ND< 26.5	ND< 29.4	ND< 27.1	ND< 30.6	ND< 28.8	ND< 28.7	ND< 23.20	ND< 23.3	ND< 19.5	ND< 18.6	ND< 25.0	ND< 14.1	1,000
Carbon disulfide	ND< 18.60	ND< 23.7	ND< 19.9	ND< 1.6	ND< 1.9	ND< 2.0	ND< 130	ND< 470	ND< 26.5	ND< 29.4	ND< 27.1	ND< 30.6	ND< 28.8	ND< 28.7	ND< 23.20	ND< 23.3	ND< 19.5	ND< 18.6	ND< 25.0	ND< 14.1	2,700
Vinyl acetate	ND< 18.60	ND< 23.7	ND< 19.9						ND< 26.5	ND< 29.4	ND< 27.1	ND< 30.6	ND< 28.8	ND< 28.7	ND< 26.50	ND< 23.3	ND< 19.5	ND< 18.6	ND< 25.0	ND< 14.1	10,000 *
Additional STARS Compounds																					
n-Butylbenzene	ND< 8.26	ND< 6.43	ND< 7.97		ND< 3.5	ND< 3.7	ND< 220	ND< 188							ND< 9.28				ND< 10.00	ND< 5.64	10,000 *
sec-Butylbenzene	ND< 8.26	ND< 6.43	ND< 7.97		ND< 2.6	ND< 2.8	ND< 170	**4,010**							ND< 9.28				**121.0**	ND< 5.64	10,000 *
tert-Butylbenzene	ND< 8.26	ND< 6.43	ND< 7.97		ND< 2.5	ND< 2.6	ND< 170	ND< 188							ND< 9.28				ND< 10.0	ND< 5.6	10,000 *
n-Propylbenzene	ND< 8.26	ND< 6.43	ND< 7.97		ND< 1.9	ND< 2.0	ND< 140	**3,040**							ND< 9.28				**619.0**	**8.18**	3,700
Isopropylbenzene	ND< 8.26	ND< 6.43	ND< 7.97	ND< 1.4	ND< 1.6	ND< 1.7	ND< 130	***2,850***							ND< 9.28				**231.0**	**6.78**	2,300
p-Isopropyltoluene	ND< 8.26	ND< 6.43	ND< 7.97		**12.6**	ND< 2.8	ND< 190	**7,480**							ND< 9.28				**322.0**	ND< 5.64	10,000 *
Naphthalene	ND< 20.6	ND< 16.10	ND< 19.9		ND< 1.7	ND< 1.8	***200,000 D***	ND< **470**							ND< 9.28				**353.0**	**28.5**	13,000
1,2,4-Trimethylbenzene	ND< 8.26	ND< 6.43	ND< 7.97		**29.4**	ND< 2.2	**830 J**	***29,400***							ND< 9.28				**2880**	**53.7**	10,000 *
1,3,5-Trimethylbenzene	ND< 8.26	ND< 6.43	ND< 7.97		**193**	ND< 2.0	**430 J**	**22,400**							ND< 9.28				**937.0**	**16.6**	3,300
Miscellaneous																					
Methyl tert-butyl Ether	**24.7**	ND< 6.43	ND< 7.97	ND< 1.10	ND< 1.3	ND< 1.4	ND< 190	ND< 188							ND< 9.28				ND< 10.00	ND< 5.64	120

Notes:
1. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum, HWR 94-4046 (TAGM 4046) Revised July 2001.
2. ug/kg = All values expressed in micrograms per kilogram, which is equivalent to parts per billion (ppb).
3. **Bold-faced** values are concentrations that have been reported above the detection limits.
4. **Bold-faced,** Underlined**,** and *Italicized* values are reported concentrations that exceed the NYSDEC recommended soil cleanup objective.
5. "ND <" indicates that the concentration is below the detection limit.
6. * = As per TAGM 4046, both individual VOCs and the sum of VOCs may not exceed 10,000 ppb.
7. MDL = Method Detection Limit.
8. C = Laboratory Contaminant.
9. Blank space = not analyzed.
10. J = estimated value.
11. D = identifies compounds at the secondary dilution factor.

TABLE 8A
SUMMARY OF SEMI-VOLATILE BASE NEUTRAL COMPOUNDS IN SOIL (ug/kg)

Sub-Area I
Brooks Landing Urban Renewal District
Rochester, NY

COMPOUNDS	1315 South Plymouth Ave./150 Elmwood Ave.											Recommended Soil Cleanup Objective [1]
	GRANULAR FILL									TAR	NATIVE	
	B106 (0-4)	B115 (0-4)	B124 (0-4)	B124R-R(0-4)	B154 (4-8)	B160 (4-8) (DL)	B161 (0-4)	B165 (4-4.8)	B169 (0-1.5)	B159 (4.2-4.5)	B110 (4-8)	
Acenaphthene	ND< 308	ND< 333	ND< 177,000	**30,000**	**630**	**660**	**720J**	***120,000 D***	**50J**	ND< 223,000	ND< 381	50,000 *
Anthracene	ND< 308	ND< 333	ND< 177,000	***92,000***	**1,900**	**1,100**	**1800J**	***280,000 D***	**140J**	ND< 223,000	ND< 381	50,000 *
Benzo (a) anthracene	ND< 308	***355***	***208,000***	***130,000***	***3,500***	***2,000***	***2200J***	***400,000 D***	***320J***	ND< 223,000	ND< 381	224 or MDL
Benzo (a) pyrene	ND< 308	***428***	***196,000***	***110,000***	***3,200***	***1,700***	***1700J***	***300,000 D***	***350J***	ND< 223,000	ND< 381	61 or MDL
Benzo (b) fluoranthene	ND< 308	***474***	***210,000***	***110,000***	***3,300***	***2,000***	***2100J***	***330,000 D***	***470J***	ND< 223,000	ND< 381	61 or MDL
Benzo (g,h,i) perylene	ND< 308	ND< 333	ND< 177,000	**30,000**	**680**	**730**	**570J**	***110,000***	**130J**	ND< 223,000	ND< 381	50,000 *
Benzo (k) fluoranthene	ND< 308	ND< 333	ND< 177,000	***72,000***	***2,100***	***1,400***	***1400J***	***150,000 D***	**240J**	ND< 223,000	ND< 381	610 or MDL
Chrysene	ND< 308	**372**	***210,000***	***120,000***	***3,500***	***1,800***	***2100J***	***420,000 D***	**350J**	ND< 223,000	ND< 381	400
Diethyl phthalate	ND< 308	ND< 333	ND< 177,000	ND< 210	ND< 41					ND< 223,000	ND< 381	7,100
Dimethyl phthalate	ND< 770	ND< 832	ND< 443,000	ND< 210	ND< 41					ND< 559,000	ND< 953	2,000
Butylbenzylphthalate	ND< 308	ND< 333	ND< 177,000	ND< 210	ND< 41					ND< 223,000	ND< 381	50,000 *
Di-n-butyl phthalate	ND< 308	ND< 333	ND< 177,000	ND< 250	ND< 49					ND< 223,000	ND< 381	8,100
Di-n-octylphthalate	ND< 308	ND< 333	ND< 177,000	ND< 310	ND< 62					ND< 223,000	ND< 381	50,000 *
Bis (2-ethylhexyl) phthalate	ND< 308	ND< 333	ND< 177,000	ND< 210	ND< 210					ND< 223,000	ND< 381	50,000 *
2-Chloronaphthalene	ND< 308	ND< 333	ND< 177,000	ND< 250	ND< 49					ND< 223,000	ND< 381	50,000 *
Hexachlorobenzene	ND< 308	ND< 333	ND< 177,000	ND< 230	ND< 45					ND< 223,000	ND< 381	410
Hexachloroethane	ND< 308	ND< 333	ND< 177,000	ND< 230	ND< 45					ND< 223,000	ND< 381	50,000 *
Hexachlorocyclopentadiene	ND< 308	ND< 333	ND< 177,000	ND< 790	**160**					ND< 223,000	ND< 381	50,000 *
Hexachlorobutadiene	ND< 308	ND< 333	ND< 177,000	ND< 310	ND< 62					ND< 223,000	ND< 381	50,000 *
N-Nitroso-di-n-propylamine	ND< 308	ND< 333	ND< 177,000	ND< 210	ND< 41					ND< 223,000	ND< 381	50,000 *
N-Nitrosodiphenylamine	ND< 308	ND< 333	ND< 177,000	ND< 410	ND< 82					ND< 223,000	ND< 381	50,000 *
N-Nitrosodimethylamine	ND< 308	ND< 333	ND< 177,000							ND< 223,000	ND< 381	50,000 *
Isophorone	ND< 308	ND< 333	ND< 177,000	ND< 210	ND< 41					ND< 223,000	ND< 381	4,400
Benzyl alcohol	ND< 770	ND< 832	ND< 443,000							ND< 559,000	ND< 953	50,000 *
Dibenzofuran	ND< 308	ND< 333	ND< 177,000	***24,000***	**510**					ND< 223,000	ND< 381	6,200
2-Methylnapthalene	ND< 308	ND< 333	ND< 177,000	**18,000**	**230**					ND< 223,000	ND< 381	36,400
Dibenz (a,h) anthracene	ND< 308	ND< 333	ND< 177,000	***1,900***	***78***	***190J***	ND< 330	ND< 18,000	ND< 56	ND< 223,000	ND< 381	14.3 or MDL
Fluoranthene	ND< 308	**784**	***471,000***	***360,000***	**13,000**	**2,300**	**5,000**	***660,000 D***	**680**	***254,000***	ND< 381	50,000 *
Fluorene	ND< 308	ND< 333	ND< 177,000	**49,000**	**1,400**	**650**	**810J**	***250,000 D***	**62J**	ND< 223,000	ND< 381	50,000 *
Indeno (1,2,3-cd) pyrene	ND< 308	ND< 333	ND< 177,000	***15,000***	**1,100**	**360J**	ND< 350	***110,000 JD***	ND< 60	ND< 223,000	ND< 381	3,200
Naphthalene	ND< 308	ND< 333	ND< 177,000	***59,000***	**420**	**540**	**930J**	***470,000 D***	ND< 45	ND< 223,000	ND< 381	13,000
Phenanthrene	ND< 308	**504**	***643,000***	***500,000***	**10,000**	**4,300D**	**7,600**	***760,000 D***	**750**	***539,000***	ND< 381	50,000 *
Pyrene	ND< 308	**728**	***554,000***	***420,000***	**7,400**	**3,500D**	**5,400**	***630,000 D***	**860**	***281,000***	ND< 381	50,000 *
Acenapthylene	ND< 308	ND< 333	ND< 177,000	**5,500**	**57**	**80J**	ND< 260	***14,000 JD***	ND< 45	ND< 223,000	ND< 381	50,000 *
1,2-Dichlorobenzene	ND< 308	ND< 333	ND< 177,000	ND< 210	ND< 41					ND< 223,000	ND< 381	50,000 *
1,3-Dichlorobenzene	ND< 308	ND< 333	ND< 177,000	ND< 250	ND< 49					ND< 223,000	ND< 381	50,000 *
1,4-Dichlorobenzene	ND< 308	ND< 333	ND< 177,000	ND< 210	ND< 41					ND< 223,000	ND< 381	50,000 *
1,2,4-Trichlorobenzene	ND< 308	ND< 333	ND< 177,000	ND< 250	ND< 49					ND< 223,000	ND< 381	50,000 *
Nitrobenzene	ND< 308	ND< 333	ND< 177,000	ND< 210	ND< 41					ND< 223,000	ND< 381	200 or MDL
2,4-Dinitrotoluene	ND< 308	ND< 333	ND< 177,000	ND< 230	ND< 45					ND< 223,000	ND< 381	50,000 *
2,6-Dinitrotoluene	ND< 308	ND< 333	ND< 177,000	ND< 210	ND< 41					ND< 223,000	ND< 381	1,000
Bis (2-chloroethyl) ether	ND< 308	ND< 333	ND< 177,000	ND< 250	ND< 49					ND< 223,000	ND< 381	50,000 *
Bis (2-chloroisopropyl) ether	ND< 308	ND< 333	ND< 177,000							ND< 223,000	ND< 381	50,000 *
Bis (2-chloroethoxy) methane	ND< 308	ND< 333	ND< 177,000	ND< 210	ND< 41					ND< 223,000	ND< 381	50,000 *
4-Bromophenyl phenyl ether	ND< 308	ND< 333	ND< 177,000	ND< 270	ND< 54					ND< 223,000	ND< 381	50,000 *
4-Chlorophenyl phenyl ether	ND< 308	ND< 333	ND< 177,000	ND< 250	ND< 49					ND< 223,000	ND< 381	50,000 *
Benzidine	ND< 770	ND< 832	ND< 443,000							ND< 559,000	ND< 381	50,000 *
3,3'-Dichlorobenzidine	ND< 308	ND< 333	ND< 177,000	ND< 210	ND< 41					ND< 223,000	ND< 381	50,000 *
4-Chloroaniline	ND< 308	ND< 333	ND< 177,000	ND< 250	ND< 49					ND< 223,000	ND< 381	220 or MDL
2-Nitroaniline	ND< 770	ND< 832	ND< 443,000	ND< 210	ND< 41					ND< 559,000	ND< 953	430 or MDL
3-Nitroaniline	ND< 770	ND< 832	ND< 443,000	ND< 250	ND< 49					ND< 559,000	ND< 953	500 or MDL
4-Nirtoaniline	ND< 770	ND< 832	ND< 443,000	ND< 500	ND< 99					ND< 559,000	ND< 953	50,000 *
2,2-oxybis(1-Chloropropane)				ND< 210	ND< 41							50,000 *
Carbazole				**20,000**	**1,200**							50,000 *

Notes:
1. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum, HWR 94-4046 (TAGM 4046) Revised July 2001.
2. ug/kg = All values expressed in micrograms per kilogram, which is equivalent to parts per billion (ppb).
3. **Bold-faced** values are concentrations that have been reported above the detection limits.
4. **Bold-faced,** Underlined**,** and *Italicized* values are reported concentrations that exceed the NYSDEC recommended soil cleanup objective.
5. "ND <" indicates that the concentration is below the detection limit.
6. * = As per TAGM 4046, individual SVOCs may not exceed 50,000 ppb and total SVOCs may not exceed 500,000 ppb.
7. MDL = Method Detection Limit.
8. Blank space = not analyzed.
9. J = estimated value.
10. D = identifies compounds at the secondary dilution factor.

TABLE 9A
SUMMARY OF RCRA METALS IN SOIL (mg/kg)

Sub-Area I
Brooks Landing Urban Renewal District
Rochester, NY

	1315 South Plymouth Ave./150 Elmwood Ave.					Eastern USA Background Range	Recommended Soil Cleanup Objective [1]
	GRANULAR FILL				NATIVE		
RCRA Metals	B106 (0-4)	B115 (0-4)	B124 (0-4)	B154 (4-8)	B110 (4-8)		
Arsenic	**5.86**	**6.58**	***31.9***	***132***	**5.53**	3 - 12	7.5 or SB
Barium	**38.9**	**83.1**	**266**	**144**	**45.5**	15 - 600	300 or SB
Cadmium	ND<0.494	ND<0.547	**0.70**	ND<0.06	ND<0.500	0.1 - 1	1 / 10* or SB
Chromium	**10.5**	**10.4**	**31.4**	**19.7**	**10.5**	1.5 - 40	10 / 50* or SB
Lead	**33.4**	**193**	**375**	**194**	**7.49**	200 - 500 urban	SB
Mercury	ND<0.095	***0.289***	***1.96***	***1.9***	ND<0.086	0.001 - 0.2	0.1
Selenium	ND<0.494	ND<0.547	ND<0.614	***4.5***	ND<0.500	0.1 - 3.9	2 or SB
Silver	ND<0.989	ND<1.09	ND<1.23	ND<0.46	ND<1.00	NA	SB

Notes:

1. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum, HWR 94-4046 (TAGM 4046), Revised July 2001.
2. mg/kg = all values expressed in milligrams per kilogram which is equivalent to parts per million (ppm).
3. **Bold-faced** values are concentrations that have been reported above the detection limits.
4. **Bold-faced,** Underlined**,** and *Italicized* values are reported concentrations that have been detected and exceed both the NYSDEC recommended soil cleanup objective and Eastern USA background range.
5. "ND <" indicates that the concentration is below the detection limit.
6. NA = Not Available.
7. SB = site background
8. * = existing and proposed soil cleanup objectives.

TABLE 10A
SUMMARY OF TCLP ARSENIC AND MERCURY RESULTS (mg/L)

Sub-Area I
Brooks Landing Urban Renewal District
Rochester, NY

TCLP VOC Analytes	GRANULAR FILL 1315 South Plymouth Avenue B124R-R (0-4)	Regulatory Limits [1]
Arsenic	< 0.045	5.0
Mercury	< 0.002	0.2

Notes:

1. Maximum concentration of contaminants for toxicity characteristics. Title 40, Code of Federal Agency, Regulation, Chapter 1- Environmental Protection Part 261, Identification and Listing of Hazardous Waste, Revised April 1990 (40CFR261).
2. mg/l = all values are expressed in milligrams per liter, which is equivalent to parts per million (ppm).
3. **Bold-faced** values are concentrations that have been reported above the detection limits.
4. **Bold-faced**, Underlined, and *Italicized* values are reported concentrations above the NYSDEC/USEPA hazardous waste threshold.

TABLE 11A
SUMMARY OF PCBs and HERBICIDES in SOIL (mg/kg)

Sub-Area I
Brooks Landing Urban Renewal District
Rochester, NY

	1315 South Plymouth Ave./150 Elmwood Ave							Recommended Soil Cleanup Objective [1]
	GRANULAR FILL						NATIVE	
Analytes	**B106 (0-4')**	**B115 (0-4')**	**B124 (0-4')**	**B157 (0-4')**	**B160 (4-9')**	**B165 (4-4.8')**	**B110 (4-8')**	
PCBs								
Aroclor 1016	ND< 0.449	ND< 0.450	ND< 0.505	ND< 7.500	ND< 7.900	ND< 7.300	ND< 0.491	1 surface/ 10 subsurface
Aroclor 1221	ND< 0.449	ND< 0.450	ND< 0.505	ND< 1.900	ND< 2.000	ND< 1.800	ND< 0.491	1 surface/ 10 subsurface
Aroclor 1232	ND< 0.449	ND< 0.450	ND< 0.505	ND< 11.00	ND< 12.00	ND< 11.00	ND< 0.491	1 surface/ 10 subsurface
Aroclor 1242	ND< 0.449	ND< 0.450	ND< 0.505	ND< 3.200	ND< 3.300	ND< 3.100	ND< 0.491	1 surface/ 10 subsurface
Aroclor 1248	ND< 0.449	ND< 0.450	ND< 0.505	ND< 7.900	ND< 8.400	ND< 7.800	ND< 0.491	1 surface/ 10 subsurface
Aroclor 1254	ND< 0.449	ND< 0.450	ND< 0.505	ND< 15.00	ND< 16.00	ND< 15.00	ND< 0.491	1 surface/ 10 subsurface
Aroclor 1260	ND< 0.449	ND< 0.450	ND< 0.505	ND< 2.900	ND< 3.000	ND< 2.800	ND< 0.491	1 surface/ 10 subsurface
Herbicides								
2,4-D	ND< 50	ND< 50	ND< 50				ND< 50	500
Dicamba	ND< 50	ND< 50	ND< 50				ND< 50	NA
Dinoseb	ND< 50	ND< 50	ND< 50				ND< 50	NA
2, 4, 5-T	ND< 50	ND< 50	ND< 50				ND< 50	1,900
2,4,5-TP (Silvex)	ND< 50	ND< 50	ND< 50				ND< 50	700

Notes:

1. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum, HWR 94-4046 (TAGM 4046) Revised July 2001.
2. mg/kg = values expressed in milligrams per kilogram, are equivalent to parts per million (ppm).
3. **Bold-faced** values are concentrations that have been reported above the detection limits.
4. **Bold-faced,** Underlined**,** and *Italicized* values are reported concentrations that exceed the NYSDEC recommended soil cleanup objective.
5. NA = Not Available.
6. "ND <" indicates that the concentration is below the detection limit.
7. Blank space = not analyzed

TABLE 12A
SUMMARY OF TPH IN GRANULAR FILL (mg/kg)
Sub-Area I
Brooks Landing Urban Renewal District
Rochester, NY

	FILL		TAR	Recommended Soil Cleanup Objective [1]
	1315 South Plymouth/150 Elmwood		1315 South Plymouth/ 150 Elmwood Ave.	
Analytes	**B157 (0-4')**	**B160 (4-8')**	**B159 (4.2-4.5)**	
Total Petroleum Hydrocarbons				
Heavy Weight PHC as: Lube Oil	**2,250**	**2,640**		NA
Light Weight PHC as: Mineral Spirits *	**102**			NA
Medium Weight PHC as: Kerosene *			**178,000**	NA

Notes:

1. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum, HWR 94-4046 (TAGM 4046) Revised July 2001.
2. mg/kg = All values expressed in milligrams per kilogram, which is equivalent to parts per million (ppm).
3. **Bold-faced** values are concentrations that have been reported above the detection limits.
4. **Bold-faced,** Underlined**,** and *Italicized* values are reported concentrations that exceed the NYSDEC recommended soil cleanup objective.
5. NA = Not Available.
6. Blank space indicates that the concentration is below the detection limit.
7. * = Sample chromatorgram does not match reference chromatogram. Close match made.

TABLE 13A
SUMMARY OF TCL/STARS VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (ug/L)
Sub-Area I
Brooks Landing Urban Renewal District
Rochester, NY

	Groundwater Samples (ug/l)							
	1315 South Plymouth Ave./150 Elmwood Ave.					973-975 Genesee St.		NYSDEC Groundwater Standards and Guidance Values [1]
TCL/STARS VOCs	PZ-100	PZ-101	PZ-102	PZ-103	PZ-152	PZ-150	PZ-151	
Volatile Halocarbons								
Bromodichloromethane	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	50 (G)
Bromomethane	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	5
Bromoform	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	50 (G)
Carbon tetrachloride	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	5
Chloroethane	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	5
Chloromethane	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	NS
2-Chloroethyl vinyl ether	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	NS
Chloroform	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	7
Dibromochloromethane	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	50 (G)
1,1-Dichloroethane	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	5
1,2-Dichloroethane	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	1
1,1-Dichloroethene	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	5
cis-1,2-Dichloroethene	ND< 2.00	***81.6***	***31.0***	***126***	ND< 2.00	ND< 20.00	ND< 2.00	5
trans-1,2-Dichloroethene	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	5
1,2-Dichloropropane	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	1
cis-1,3-Dichloropropene	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	0.4 (-cis and -trans)
trans-1,3-Dichloropropene	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	0.4 (-cis and -trans)
Methylene chloride	ND< 5.00	ND< 10.0	ND< 5.00	ND< 5.00	ND< 5.00	ND< 50.00	ND< 5.00	5
1,1,2,2-Tetrachloroethane	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	5
Tetrachloroethene	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	5
1,1,1-Trichloroethane	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	5
1,1,2-Trichloroethane	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	1
Trichloroethene	ND< 2.00	***812***	***172***	***495***	**3.01**	ND< 20.00	ND< 2.00	5
Trichlorofluoromethane	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	5
Vinyl Chloride	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	2
Volatile Aromatics								
Benzene	ND< 0.700	ND< 3.50	ND< 0.700	ND< 1.75	ND< 0.700	***207***	***794***	1
Chlorobenzene	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	5
Ethylbenzene	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	***1010***	***115***	5
Toluene	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	***101***	***79.3***	5
m,p - Xylene	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	***1920***	***256***	5
o - Xylene	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	***113***	***107***	5
Styrene	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	5
1,2-Dichlorobenzene	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	3
1,3-Dichlorobenzene	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	3
1,4-Dichlorobenzene	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	3

TABLE 13A
SUMMARY OF TCL/STARS VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (ug/L)
Sub-Area I
Brooks Landing Urban Renewal District
Rochester, NY

	Groundwater Samples (ug/l)							
	1315 South Plymouth Ave./150 Elmwood Ave.					973-975 Genesee St.		NYSDEC Groundwater Standards and Guidance Values [1]
TCL/STARS VOCs	**PZ-100**	**PZ-101**	**PZ-102**	**PZ-103**	**PZ-152**	**PZ-150**	**PZ-151**	
Ketones & Misc.								
Acetone	ND< 10.0	ND< 50.0	ND< 10.0	ND< 25.0	ND< 10.00	ND< 100	ND< 10.00	50 (G)
2-Butanone	ND< 5.00	ND< 25.0	ND< 5.00	ND< 12.5	ND< 5.00	ND< 50.00	ND< 5.00	NS
2-Hexanone	ND< 5.00	ND< 25.0	ND< 5.00	ND< 12.5	ND< 5.00	ND< 50.00	ND< 5.00	50 (G)
4-Methyl-2-pentanone	ND< 5.00	ND< 25.0	ND< 5.00	ND< 12.5	ND< 5.00	ND< 50.00	ND< 5.00	NS
Carbon disulfide	ND< 5.00	ND< 25.0	ND< 5.00	ND< 12.5	ND< 5.00	ND< 50.00	ND< 5.00	60 (G)
Vinyl acetate	ND< 5.00	ND< 25.0	ND< 5.00	ND< 12.5	ND< 5.00	ND< 50.00	ND< 5.00	NS
Additional STARS Compound								
n-Butylbenzene	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	5
sec-Butylbenzene	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	***37.9***	ND< 2.00	5
tert-Butylbenzene	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	ND< 20.00	ND< 2.00	5
n-Propylbenzene	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	***264***	**2.86**	5
Isopropylbenzene	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	***137***	**2.82**	5
p-Isopropyltoluene	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	***101***	ND< 2.00	5
Naphthalene	ND< 5.00	ND< 25.0	ND< 2.00	ND< 12.5	ND< 5.00	***253***	***7.13***	5
1,2,4-Trimethylbenzene	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	***1290***	***18.3***	5
1,3,5-Trimethylbenzene	ND< 2.00	ND< 10.0	ND< 2.00	ND< 5.00	ND< 2.00	***431***	***5.64***	5
Miscellaneous								
Methyl tert-butyl Ether	**6.66**	***131***	***36.4***	***171***	**5.59**	ND< 20.00	ND< 2.00	10 (G)

Notes:
1. NYSDEC. October 22, 1993. Ambient Water Quality Standards and Guidance Values, Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1); Reissued June 1998. April 2000 Addendum.
2. ug/l = all values are expressed in micrograms per liter, which is equivalent to parts per billion (ppb).
3. **Bold-faced** values are concentrations that have been reported above the method detection limits (MDLs).
4. **Bold-faced,** Underlined**,** and *Italicized* values are reported concentrations that exceed the Class GA groundwater standards or guidance values.
5. (G) = guidance value.
6. "ND<" indicates that the concentration is below the method detection limit (MDL).
7. "NS" = No Standard has been established by NYSDEC.

APPENDIX A

SUB-AREA I
TEST PIT AND SOIL BORING LOGS

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CONSTRUCTION

Project: Brooks Landing
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TEST PIT / TEST TRENCH SEGMENT LOG

Test Hole No: TP1 Inspected By: K. Miller Weather/Temp: overcast 50's F

Location/Station: N: E: Elev.:

Equipment Used: Backhoe Contractor: Royal Operator: Clint

Start Time: Stop Time: Agency Rep:

Comments:

☒ No Rock Encountered.
☐ Rock Encountered At ___ Ft.
☒ No Ground Water Encountered.
☐ Ground Water Encountered At ___ Ft.

100 Fill % ___ MSW %
___ C&D% ___ Native %(USCS)

LOCATION SKETCH:

DEPTH		PID READINGS			
(ft. BGS)	CLASSIFICATION	Max	Sust	Bkgd	NOTES/SAMPLES
0-1	Asphalt and gravel	0.2	0.2	0.2	re-bar observed near ground surface
1-3	Black and dark brown sand and gravel, some cobbles and bricks, trace cinders	0.2	0.2	0.2	@ 5 collected test pit 1
3-5	Brown cobbles (shale), gravel and sand, some silt	0.2	0.2	0.2	end of test pit @ 5' BG

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TEST PIT / TEST TRENCH SEGMENT LOG

Test Hole No: TP2 Inspected By: K. Miller Weather/Temp: raining ~50°F

Location/Station: N: E: Elev.:

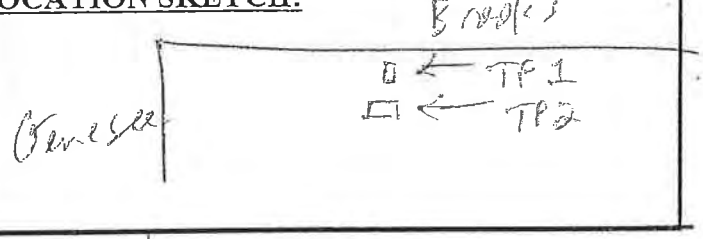
Equipment Used: Backhoe Contractor: Royal Operator: Clint

Start Time: Stop Time: Agency Rep:

Comments:

☒ No Rock Encountered.
☐ Rock Encountered At ___ Ft.
☒ No Ground Water Encountered.
☐ Ground Water Encountered At ___ Ft.
100 Fill % ___ MSW %
___ C&D% ___ Native %(USCS)

LOCATION SKETCH:



DEPTH		PID READINGS			
(ft. BGS)	CLASSIFICATION	Max	Sust	Bkgd	NOTES/SAMPLES
0-1.5	asphalt, gravel (some red sand)	0.3	0.3	0.2	apparent elec. conduit trending N/S along W side of pit
1.5-5	Brown and black sand, cobbles (shale), brick, cinders, etc.	0.3	0.3	0.2	pit 2 (approx. 1' BG

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Project: Brooks Landing
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TEST PIT / TEST TRENCH SEGMENT LOG

Test Hole No: TP3 Inspected By: K. Miller Weather/Temp: Rain, ~55°F

Location/Station: N: E: Elev.:

Equipment Used: Backhoe Contractor: Royal Operator:

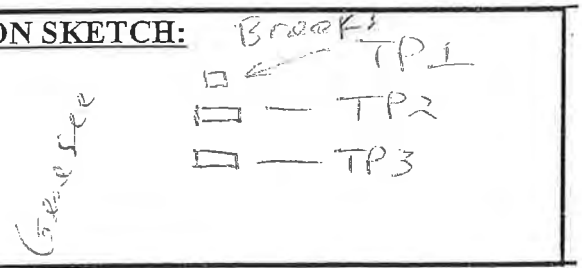
Start Time: Stop Time: Agency Rep:

Comments:

☒ No Rock Encountered.
☐ Rock Encountered At ___ Ft.
☒ No Ground Water Encountered.
☐ Ground Water Encountered At ___ Ft.

100% Fill % ___ MSW %
___ C&D% ___ Native %(USCS)

LOCATION SKETCH:



DEPTH		PID READINGS			
(ft. BGS)	CLASSIFICATION	Max	Sust	Bkgd	NOTES/SAMPLES
0-1	asphalt and gravel	0.3	0.3	0.2	
					1" pipe running
1-5	light brown sand and some gravel, little light brown silt	0.3	0.3	0.2	N/S along W side of test pit #31 (approx. 3' BG)

M:\WaterEnviron\Environ\FORMS\field forms\TESTPIT2.doc

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TEST PIT / TEST TRENCH SEGMENT LOG

Test Hole No: TP 4 Inspected By: K. Miller Weather/Temp: Overcast ~55. F

Location/Station: N: E: Elev.:

Equipment Used: Backhoe Contractor: Royal Operator: Clint

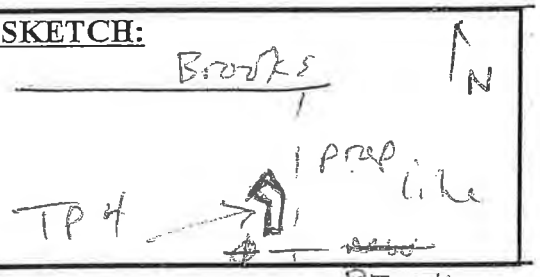
Start Time: Stop Time: Agency Rep:

Comments:

☒ No Rock Encountered.
☐ Rock Encountered At __ Ft.
☒ No Ground Water Encountered.
☐ Ground Water Encountered At __ Ft.

_____ Fill % _____ MSW %
_____ C&D% _____ Native %(USCS)

LOCATION SKETCH:



DEPTH (ft. BGS)	CLASSIFICATION	PID READINGS Max	Sust	Bkgd	NOTES/SAMPLES
					(approx. 2' BG)
0-1	asphalt and gravel some metal	0.0	0.0	0.0	(2) 2" poly pipes and a length of scrap iron (near surface) were noted on the N end of TP 4
1-2	layer of black fill material, cinders, gravel, etc.	0.0	0.0	0.0	
2-5	brown sand and gravel, some silt	0.0	0.0	0.0	rebar and scrap metal were found on the S end of TP 4 (near surface)
	this layer dips to the S and becomes slightly thicker on the S end of TP 4				

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TEST PIT / TEST TRENCH SEGMENT LOG

Test Hole No: TP5 Inspected By: K. Miller Weather/Temp: overcast ~55°F

Location/Station: N: E: Elev.:

Equipment Used: Backhoe Contractor: Royal Operator: Clint

Start Time: Stop Time: Agency Rep:

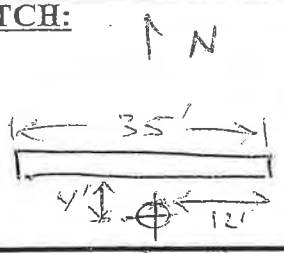
Comments:

- [x] No Rock Encountered.
- [ ] Rock Encountered At ___ Ft.
- [x] No Ground Water Encountered.
- [ ] Ground Water Encountered At ___ Ft.

100 Fill % ___ MSW %

___ C&D% ___ Native %(USCS)

LOCATION SKETCH:



PZ-1

DEPTH		PID READINGS			
(ft. BGS)	CLASSIFICATION	Max	Sust	Bkgd	NOTES/SAMPLES
					one (1) = 1"
0-2.5	Gray and brown gravel and sand)	1.4	1.2	0.8	six (6) 2" steel pipes run E/W - found approx 2.5' BG
	clear plastic sheeting observed @ ~2.5' BG just atop pipes 2" PVC pipes run horizontally above the plastic sheeting				pipes appear to be run) on W side of trench and appear to turn the NE and/or end @ E end of trench

HNu PID reading from interior of 2" pipe peak @ 80 ppm

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Project: Brooks Landing
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TEST PIT / TEST TRENCH SEGMENT LOG

Test Hole No: TP6 Inspected By: K. Miller Weather/Temp: overcast ~55° F

Location/Station: N: E: Elev.:

Equipment Used: Backhoe Contractor: Royal Operator: Clint

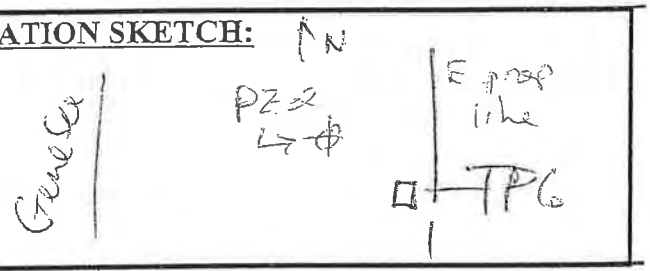
Start Time: Stop Time: Agency Rep:

Comments:

☒ No Rock Encountered.
☐ Rock Encountered At ___ Ft.
☒ No Ground Water Encountered.
☐ Ground Water Encountered At ___ Ft.

100 Fill % ___ MSW %
___ C&D% ___ Native %(USCS)

LOCATION SKETCH:



DEPTH (ft. BGS)	CLASSIFICATION	PID READINGS Max	Sust	Bkgd	NOTES/SAMPLES
0-1	asphalt, gravel	0.8	0.8	0.8	
1-3	brown silty clay	0.8	0.8	0.8	
	and sand, bricks,				
	cobbles, and gravel				
3-5					
	black fill material	0.8	0.8	0.8	
	(no odor)				

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Project: Brooks Landing
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TEST PIT / TEST TRENCH SEGMENT LOG

Test Hole No: TP 7, 7A Inspected By: K. Miller Weather/Temp: overcast ~55° F

Location/Station: N: E: Elev.:

Equipment Used: Backhoe Contractor: Royal Operator: Clint

Start Time: Stop Time: Agency Rep:

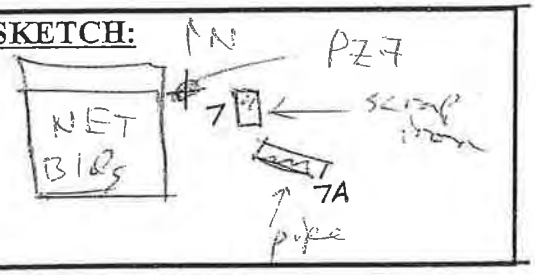
Comments:

- [X] No Rock Encountered.
- [ ] Rock Encountered At ___ Ft.
- [X] No Ground Water Encountered.
- [ ] Ground Water Encountered At ___ Ft.

_____ Fill % _____ MSW %

_____ C&D% _____ Native %(USCS)

LOCATION SKETCH:



DEPTH		PID READINGS			
(ft. BGS)	CLASSIFICATION	Max	Sust	Bkgd	NOTES/SAMPLES
0-1.5	Dark brown loamy sand and little gravel (topsoil)	1.0	1.0	0.8	E/W wing of TP 7 contains a 2" steel pipe running E/W
					The N/S wing of TP 7 contains a piece of scrap iron
	10' length of 2" steel pipe not connected to anything @ either end Pipe is full of soil/rock (at least the ends are)				

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Project: Brooks Landing
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TEST PIT / TEST TRENCH SEGMENT LOG

Test Hole No: TP8 Inspected By: K. Miller Weather/Temp: partly cloudy ~55°F

Location/Station: N: E: Elev.:

Equipment Used: Backhoe Contractor: Royal Operator: Clint

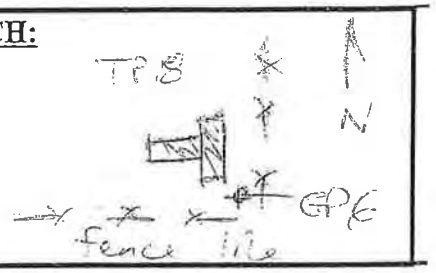
Start Time: Stop Time: Agency Rep:

Comments:

☒ No Rock Encountered.
☐ Rock Encountered At __ Ft.
☒ No Ground Water Encountered.
☐ Ground Water Encountered At __ Ft.

100 Fill % ____ MSW %
____ C&D% ____ Native %(USCS)

LOCATION SKETCH:



DEPTH (ft. BGS)	CLASSIFICATION	PID READINGS Max	Sust	Bkgd	NOTES/SAMPLES
~~WATER~~		0.0	0.0	0.0	
0-2.5	Brown sand and gravel some metallic and concrete fill material bricks coal and clay tile				2.5' BG was concrete and metal fill material a concrete slab w/ metal edges was struck to the S @ ~ 45° * a concrete pipe 2" encased in concrete (fence post?) and an elec. conduit w/ no apparent destination / purpose

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Project: Brooks Landing
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TEST PIT / TEST TRENCH SEGMENT LOG

Test Hole No: TP9 Inspected By: K. Miller Weather/Temp: partly cloud. ~55°F

Location/Station: N: E: Elev.:

Equipment Used: Backhoe Contractor: Royal Operator: Clint

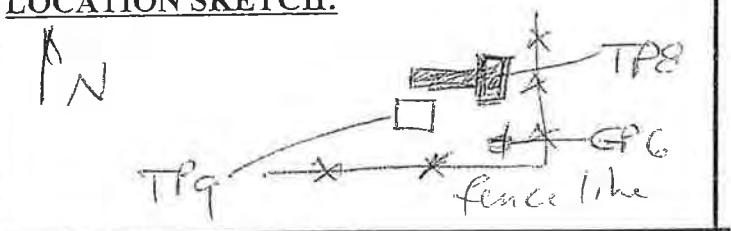
Start Time: Stop Time: Agency Rep:

Comments:

☒ No Rock Encountered.
☐ Rock Encountered At ___ Ft.
☒ No Ground Water Encountered.
☐ Ground Water Encountered At ___ Ft.

100 Fill % ___ MSW %
___ C&D% ___ Native %(USCS)

LOCATION SKETCH:



DEPTH (ft. BGS)	CLASSIFICATION	PID READINGS Max	Sust	Bkgd	NOTES/SAMPLES
		0.9	0.9	0.8	
0-2.5	Brown sand and gravel, some cobbles, and metallic fill material bricks and clay tile				near ground surface was metallic fill material - an apparent elec. conduit - a piece of angle iron (loose) - a 2" dia piece of steel 1 end all found

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SEAR-BROWN

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Test Boring No. GP 1

Page 1 of 2

Project: Brooks Landing
Project #: 16835.07
Client: City of Roch.
Location: 972 Genesee St.

Drilling Contractor: NW
Driller: Mike
Elevation:
Weather: sunny ~ 45°F

Start Date: 10/25/02
Completion Date:
Drilling Method: Earthprobe
Supervisor: K. McM

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
							32"		0-4	Brown and gray GRAVEL, sand, brick, etc. (FILL)
						1.2				
4						1.1				
							32"		4-8	Brown fine SAND, some Clay, little Silt and coarse Gravel (FILL) moist to wet from 6'-8'.
						1.4				
8						2.1				
							32"		8-12	Gray silty CLAY, trace sand, petro. odor, moist (NATIVE)
						342				
12						828				
							40"		12-16	Gray/brown silty CLAY, trace Sand and coarse Gravel. Dark gray to black lenses (petro odor) @ ~14' ~15.5'-16' reddish brown SILT wet
						848				
16						499				

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP 1

Page 2 of 2

Project: Brooks Landing
Project #:
Client: City of Rochester
Location: 472 Genesee

Drilling Contractor: NW
Driller:
Elevation:
Weather: sunny, 45°F

Start Date: 10/25/02
Completion Date: 10/25/02
Drilling Method: Earth Probe
Supervisor: [illegible]

16	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
							40"		16-20	brownish Red clayey SILT, trace fine sand very wet (petro. odor)
						271				
20						1526				
							32"		20-24	20-22 same as above
						412				22-24 reddish gray and black SAND and Gravel, with Silt, trace clay wet (petro. odor)
24						35				
							24"		24-25	same as above very wet (petro. odar)
						305				refusal @ 25' BG
										1" PVC well set @ 25' BG w/ ~~10'~~ 15' .010" slot screen

N . of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP 2

Page 1 of 2

Project: Brooks Landing
Project #: 1683507
Client: City of Rochester
Location: 972 Genesee St.

Drilling Contractor: NW
Driller: Mike
Elevation:
Weather: Sunny ~45°F

Start Date: 10/25/02
Completion Date: 10/25/02
Drilling Method: Earthprobe
Supervisor: K. Mabie

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
							30"		0-4	Gray and brown GRAVEL and Sand (FILL)
						2.0				
4						2.7				
							36"		4-8	Reddish brown Silty CLAY trace fine gravel (NATIVE)
						4.6				
8						4.1				
							36"		8-12	Light brown fine SAND and Silt
						2.2				
12						7.5				
							40"		12-16	Reddish brown Silty CLAY ~15.5'-16' reddish brown SILT 8" thick dark gray to black lens @ ~ 14' BG (petro odor) wet
						4.5				
16						91				

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP 2

Page 2 of 2

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: 97 Genesee

Drilling Contractor: NW
Driller: Mike
Elevation:
Weather: Sunny ~45°F

Start Date: 10/25/02
Completion Date: 10/25/02
Drilling Method: Earth probe
Supervisor: K. Miller

Blows on Sampler					SAMPLE				Soil and Rock Information Remarks
C	0-6"	6-12"	12-18"	18-24"	PID	Rec.	No.	Depth	
						32"		16-19.5	16-17 brown SILT, little fine sand
					11				17-19.5 ~~reddish brown~~ brownish red clayey SILT wet
					28.5				
									refusal @ 19.5' BG (bedrock?) slight odor from soils @ 19.5' end of boring @ 19.5' Set 1" well w/ 10' screen @ 19.5' BG

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
N = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP 3

Page 1 of 1

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: 972 Emerson

Drilling Contractor: NW
Driller: Mike
Elevation:
Weather: sunny ~50°F

Start Date: 10/25/02
Completion Date: 10/25/02
Drilling Method: Earthprobe
Supervisor: K. Miller

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
							11 36		0-4	Asphalt, gravel; then brown SILT and Sand, little fine gravel (FILL)
						8.5				
4						3.4				
							32"		4-8	Same as above but slightly more fine gravel (FILL)
						1.2				
8						1.6				
							42"		8-12	brown clayey SILT, trace fine sand moist to wet @ ~12' (NATIVE)
						2.2				
2						2.4				
							42"		12-16	brownish red silty clay moist to wet
						2.6				
0						2.2				

= of Blows to Drive ____ Spoon ____ with ____ lb. Wt. ____ Ea. Blow
= No. of Blows to Drive ____ Casing ____ with ____ lb. Wt. ____ Ea. Blow

boring terminated @ 16' BG backfilled w/ cuttings

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Test Boring No. GP 4

Page 1 of 2

Project: Brooks Landing
Project #: 10835.07
Client: City of Roch.
Location: 97 Genesee

Drilling Contractor: NW
Driller: Mike
Elevation:
Weather: Sunny ~ 50°F

Start Date: 10/25/02
Completion Date: 10/25/02
Drilling Method: Earth Probe
Supervisor: K. Miller

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
							36"		0-4	0-2 asphalt, gravel, sand, etc. (FILL)
						2.8				2-4 brown fine SAND and SILT, trace Clay (FILL)
4						2.6				
							36"		4-8	Same as above; moist to wet @ ~6' BG; more clay from 6'-8' (NATIVE @ ~6')
						1.1				
8						1.2				
							40"		8-12	8-10 brown silty CLAY moist
						44				10-12 gray to grayish brown Silty CLAY (slight petro. odor) moist to wet
12						742				
							42"		12-16	12-14 reddish brown silty CLAY
						2.4				14-16 brownish red silty CLAY wet
16						2.8				

N . of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP4

Page 2 of 2

Project: Brooks Landing
Project #: 160835.07
Client: City of Roch
Location: 172 Gen & See St

Drilling Contractor: NW
Driller: Mike
Elevation:
Weather: cloudy ~45°F

Start Date: 10/25/02
Completion Date: 10/25/02
Drilling Method: Earth probe
Supervisor: K. Miller

160	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
							40"		16-20	brownish red silty CLAY wet
						1.7				
20						1.0				
							42"		20-24	same as above very wet
						1.0				
24						2.1				light gray ~24' BG slight petro odor
							18"		24-25.5	dark gray silty CLAY then dark gray SAND and fine gravel
						3.0				
										Refusal @ 25.5' BG
										Set 1" well w/ 15' screen @ ~25.5' BG

N: . of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP5

Page 1 of 2

Project: Brooks Landing
Project #: 16935.010
Client: City of Rochester
Location: 472 Genesee

Drilling Contractor: NW
Driller: Mike
Elevation:
Weather: cloudy ~50°F

Start Date: 10/25/02
Completion Date: 10/25/02
Drilling Method: Earth probe
Supervisor: K. Mulle

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
							30"		0-4	asphalt, gravel; then brownish red fine SAND, trace silt (FILL)
						0.3				
4						0.5				
							32"		4-8	Same as above
						0.5				
8						0.7				
							36"		8-12	8-9 same as above plus black gravel
						370				9-11 gray clayey SILT, little fine sand (FILL)
12						4.9				~11'-12' gravel, concrete
							42"		12-16	12-14 Dark ~~brown~~ gray (NATIVE) black silty ~~clay~~ CLAY (petro odor)
						5.5				14-16 light brown and brownish red silty CLAY (wet)
16						29.8				

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP 5

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Project: Brooks Landing
Project #: ~110935.07
Client: City of Roch
Location: 972 Genesee

Drilling Contractor: NW
Driller: Mike
Elevation: ?
Weather: cloudy ~45°F

Start Date: 10/25/02
Completion Date: 10/25/02
Drilling Method: Earth Probe
Supervisor: [illegible]

16	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
							40"		16-20	~~brown/blk fine~~ gray/blk red clayey SILT slight petro odor very ~~wet~~ wet
						2.8				
20						2.1				
										end of boring @ 20' BG
										1" well set @ ~19' BG w/ 10' screen

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-6

Page 1 of 2

Project: Brooks Landing
Project #: 16835.07
Client: City of Roch.
Location: 998 Genesee

Drilling Contractor: NW
Driller: Mike
Elevation:
Weather: Sunny ~ 45°F

Start Date: 10/28/02
Completion Date: 10/28/02
Drilling Method: Earthprobe
Supervisor: K. Miller

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
							21"		0-4	A Gravel, brown SAND and Gravel, trace asphalt (FILL), trace concrete
4						0.5				
							36"		4-8	4-7 Black fine-grained material; cinders, slag, etc. (FILL)
						0.8				7-8 similar to above but with brown silty CLAY (moist)
8						0.1				
							32"		8-12	8-10 same as above
						1.0				10-12 brown fine SAND, little silt (NATIVE)
2						0.3				
							36"		12-16	Same as above, but slightly more silt wet @ ~ 14'
						0.0				
6						0.3				

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP6

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Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: 998 Genesee

Drilling Contractor: NW
Driller: Mike
Elevation:
Weather: sunny ~45°F

Start Date: 10/28/02
Completion Date: 10/28/02
Drilling Method: Earthprobe
Supervisor: K. Miller

Blows on Sampler					SAMPLE				Soil and Rock Information Remarks
16	C	0-6"	6-12"	12-18"	18-24"	PID	Rec.	No.	Depth	
							40"		16-20	16-18 same as above, wet 6" lens of brown silty CLAY @ 18' 18-20 reddish brown SILT and fine Sand, wet
20							42"		20-24	20-23 brown fine SAND, some silt; wet 23-24 grayish brown CLAY
24									24-26	24-25.5 same as above; wet 25.5-26 brownish gray fine and coarse SAND and Gravel refusal @ 26' BG (bedrock?) end of boring @ 26' - No well set - backfilled with cuttings

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP 7

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Project: Brooks Landing
Project #: 08835.07
Client: City of Roch.
Location: 999 Genesee

Drilling Contractor: NW
Driller: Mike
Elevation:
Weather: Sunny ~45°F

Start Date: 10/28/02
Completion Date: 10/28/02
Drilling Method: Earthprobe
Supervisor: K. Mobley

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
							36"		0-4	topsoil, gravel, brown sand, gravel, brick, concrete, cinders, etc. (FILL)
4						10.2				
							30"		4-8	Black granular fill material - brown silty clay @ 8' BG
8						21.3				
							32"		8-12	8-10 brown fine SAND and silt, trace clay (NATIVE)
						1.6				10-12 brown fine SAND and silty clay, trace coarse gravel
12						1.1				
									12-16	12-15 reddish brown silty CLAY
						0.6				15-16 light reddish brown clayey SILT
16						0.7				

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. G7

Project: Brooks Landing
Project #: 16835.07
Client: City of Roch
Location: 998 Genesee

Drilling Contractor: NW
Driller: Mike
Elevation:
Weather: Overcast ~50°F

Start Date: 10/28/02
Completion Date: 10/28/02
Drilling Method: Earth probe
Supervisor: K. Mills

16	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
										16-17 same as above, but moist to wet
						1.0			16-20	17-20 reddish gray SILT, little Clay; very wet
20						0.3				end of bore, @ 20' BG set well @ 20' BG w/ 10' screen

N No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP 8

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Project: Brooks Landing
Project #: 16835.07
Client: City of Roch
Location: 998 Genesee

Drilling Contractor: NW
Driller: Mike
Elevation:
Weather: overcast ~45°F

Start Date: 10/28/02
Completion Date: 10/28/02
Drilling Method: Earth Probe
Supervisor: K. Miller

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
							32"		0-4	Asphalt, gravel, brown Sand, bricks, wood (FILL) dark gray Silty CLAY
4						0.0				@ ~3'-3.5' (Native)
							48"		4-8	Brown Silty CLAY, trace coarse gravel
						0.1				
8						0.0				
							30"		8-12	Same as above
						0.0				
12						0.2				
							42"		12-16	12-14 Same as above) 6" lens of brown Silt and fine Sand @ ~14' BG
						0.2				14-16 reddish brown Silty CLAY (moist to wet)
16						0.0				refusal @ ~16' BG

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

End of boring @ ~ (15.7') 16' - backfilled with cuttings

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Test Boring No. GP9

Page 1 of 1

Project: Brooks Landing
Project #: 160835.07
Client: City of Roch.
Location: 965 Genesee

Drilling Contractor: NW
Driller: mike
Elevation:
Weather: overcast ~45 F

Start Date: 10/28/02
Completion Date: 10/28/02
Drilling Method: Earth Probe
Supervisor: K Miller

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
									0-4	0-2 topsoil, gravel 6" lens of black granular material; dark brown clayey SILT (FILL)
						0.0				2-4 lt. brown SILT and fine sand (NATIVE)
4						0.1				
									4-8	4-7 Same as above
						0.0				7-8 brown SILT and fine sand
8						0.1				
									8-12	8-10 brown clayey SILT
						0.0				10-12 reddish brown silty CLAY, little fine gravel
12						0.0				
									12-16	Reddish brown silty CLAY moist to wet
						0.1				refusal @ 16' BG Hard tight / very tight formation
16						0.0				No well set - backfilled with cuttings

No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP 10

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Project: Brooks Landing
Project #: 160835.07
Client: City of Roch
Location: ~~15 Brooks~~

Drilling Contractor: NW
Driller: Mike
Elevation:
Weather: Sunny ~45°F

Start Date: 10/28/02
Completion Date: 10/28/02
Drilling Method: Earth Probe
Supervisor: K. Miller

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
									0-4	0-3 brownish gray SAND and SILT with Gravel (FILL) 3-4 lt. brown fine SAND and silt
4						0.0				
									4-8	4-7 grayish brown fine SAND and Gravel (FILL) with silt, Trace Clay (FILL) 7-8 lt. brown fine SAND and silt (NATIVE)
8						0.0				
									8-12	lt. brown SILT and fine sand wet @ 11.5'
12						0.0				
									12-16	brown and grayish brown fine SAND and silt; wet @ 16' gray coarse Sand (near bedrock?)
16						0.0				

End of boring @ 16' BG - backfilled with cuttings

No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C – No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP 11

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Project: Brooks Landing
Project #: 16835.07
Client: City of Roch.
Location: ~~15 Brooks~~

Drilling Contractor: NW
Driller: Mike
Elevation:
Weather: Sunny ~45°F

Start Date: 10/28/02
Completion Date: 10/28/02
Drilling Method: Earth probe
Supervisor: ~~K. MAL~~

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
									0-4	0-3 Dark grayish brown SAND and Gravel, trace clay, trace Silt (FILL)
4						0.1				3-4 light brown fine SAND and Gravel
									4-8	light brown SILT and fine Sand (NATIVE)
8						0.0				
									8-12	light brown fine SAND and Silt wet @ ~11.5' BG
2						0.5				
										end of boring @ 12' BG backfilled w/ cuttings & sealed

= . of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
= No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP 12

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Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: [illegible] Brooks

Drilling Contractor: NW
Driller:
Elevation:
Weather: overcast ~45°F

Start Date: 10/25/02
Completion Date: 10/25/02
Drilling Method: Earth boring
Supervisor: [illegible]

O	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
									0-4	Dark brownish gray SAND and Gravel (FILL)
4						0.0				
									4-8	Light brown fine SAND and silt, little coarse Gravel (NATIVE)
B						0.1				
										end of boring @ 8' BG backfilled w/ cuttings; stalled

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP 13

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Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: 972 Genesee

Drilling Contractor: NW
Driller: Mike
Elevation:
Weather: Sunny 40°F

Start Date: 10/29/02
Completion Date: 10/29/02
Drilling Method: Earthprobe
Supervisor: K. Mahl

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
							40"		0-4	0-2 Asphalt, gravel brownish gray CLAY and Sand, some Gravel.
						0.1				2-4 brown silty CLAY and Gravel (FILL)
4						0.3	40"			concrete and asphalt @ 3.5'
									4-8	4-6 brown fine SAND and ~~SILT~~ silt (NATIVE)
						0.1				6-7 brown silty CLAY
8						0.1	32"			7-8 brown SILT and fine SAND
									8-12	8 brown and reddish brown fine SAND and silt wet @ ~11.5'
						0.1				
12						0.2	14"			
									12-14	brown Clayey SAND; brownish gray coarse SAND and Gravel @ ~14' BG
						0.1				
16										

= of Blows to Drive ____ Spoon ____ with ____ lb. Wt. ____ Ea. Blow
= No. of Blows to Drive ____ Casing ____ with ____ lb. Wt. ____ Ea. Blow

Refusal @ 14' BG ? bedrock ?

No well set - backfilled with cuttings

SEAR-BROWN

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Test Boring No. GP 14

Page 1 of 2

Project: Brooks Landing
Project #: 162357
Client: City of Rochester
Location: 972 Genesee

Drilling Contractor: NW
Driller: Mike
Elevation:
Weather: Sunny 40's F

Start Date: 10/29/02
Completion Date: 10/29/02
Drilling Method: Earth probe
Supervisor: K. Addy

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
							40"		0-4	0-2 asphalt, gravel gray and brown SAND and Gravel (FILL)
						0.8				2-3 Dark gray to black SAND and Gravel
4						1.0				3-4 Brown to Gray Sandy CLAY and Gravel (FILL)
							32"		4-8	4-6 Brown and black GRAVEL and sand, trace clay, trace silt, cinders and clam shells (FILL)
						0.4				
8						1.0				6-8 reddish brown silty CLAY and fine GRAVEL (NATIVE)
							32"		8-12	8-10 same as above
						0.6				10-12 brown fine SAND and silt wet
2						0.7				
							24"		12-16	12-14 brown to brownish gray fine SAND and silt
						0.4				14-15 Black fine SAND and silt wet (PID odor)
6						2.1				15-16 gray fine SAND and silt wet

= of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
= No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP 14

Page 2 of 2

Project: Brooks Landing
Project #: 16835.07
Client: City of Roch
Location: 972 Genesee

Drilling Contractor: NW
Driller: Mike
Elevation:
Weather: Sunny ~40°F

Start Date: 10/29/02
Completion Date: 10/29/02
Drilling Method: Earthprobe
Supervisor: K. Miller

16	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
							24"		16-20	Same as above
20						1.3				
						0.3			20-22.5	grayish brown Silty CLAY and Sand; wet (No odor); coarse Sand and coarse Gravel @ 22'-22.5' refusal @ 22.5' BG (bedrock?) 1" PVC well set @ ~20' BG with 10' screen

No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP 15

Page 1 of 1

Project: Brooks Landing
Project #: 16835.01
Client: City of Rochester
Location: 972 Genesee

Drilling Contractor: NW
Driller: Mike
Elevation:
Weather: overcast ~45°F

Start Date: 10/29/02
Completion Date: 10/29/02
Drilling Method: Earth probe
Supervisor: K. Mullen

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
							poor		0-4	sampler jammed - sample dumped
						0.8				0-2± dark gray silty CLAY and sand
4						0.4				2-4± reddish brown fine SAND and clay (FILL)
							32"		4-8	4-6 reddish brown SILT and clay, little coarse gravel (NATIVE)
						0.6				6-8 reddish brown CLAY and silt, little fine Gravel
8						0.9				
							40"		8-12	8-10 brown fine SAND and silt, brick at 8'
						0.8				10-12 brown silty CLAY little Sand
2						0.8				
							30"		12-16	reddish brown to reddish gray silty Clay
										No odor
6						0.8				

= . of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
= No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

end of boring @ 16'
backfilled w/ cuttings
No well set

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Test Boring No. GP - 16

Page 1 of 1

Project: Brooks Landfill
Project #: 10535.02
Client: City of Rochester
Location: 97 1/2 Veneza

Drilling Contractor: NW
Driller: Mike
Elevation:
Weather: OVERCAST 40°F

Start Date: 10/29/02
Completion Date: 10/29/02
Drilling Method: Earth probe
Supervisor: K.M.N.

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
							22"		0-4	poor recovery Gravel, reddish brown sandy clay and gray silty clay with gravel (FILL)
4						1.9				
							20"		4-8	poor recovery gravel, wood brownish gray sandy clay and gray silty clay (FILL)
8						5.5				
							46"		8-12	8-10 grayish brown silty CLAY and fine sand (NATIVE)
						3.3				10-12 gray silty clay (slight petro odor)
12						59				
							46"		12-16	12-13 same as above
						17.9				13-16 reddish brown silty clay ~~fill~~ little fine Gravel (No odor)
16						10.1				

end of boring @ 16' BG set well @ 16' BG w/ 5' screen

= of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
= No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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GP 17
Test Boring No. _____

Page 1 of 1

Project: Brooks Landfill
Project #: 16635.07
Client: City of Rochester
Location: 672 Genesee

Drilling Contractor: NW
Driller: Mike
Elevation: _____
Weather: overcast 45°F

Start Date: 10/29/02
Completion Date: 10/29/02
Drilling Method: Earth Probe
Supervisor: K. Miller

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
							24"		0-4	topsoil dark gray and black granular material with fine gravel (fill)
4						8.6				
							24"		4-8	4-6 reddish brown fine SAND and SILT (NATIVE) 6-8 brown fine SAND with clay and little silt
						0.3				
8						1.1				
							36"		~~8-10~~ 8-12	8-10 reddish gray silty CLAY (odor) 10-12 dark gray silty CLAY, little fine gravel
						464				
12						20				
							40"		12-16	12-14 reddish gray SILT, little fine sand (wet) (odor) 14-16 brown silty CLAY (no odor)
						58				
16						10.4				

[= . of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
= No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

end of boring @ 16' BG
set well @ 16'
w/ 5' screen

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Test Boring No. GP 18

Page 1 of 1

Project: Brooks Landfill
Project #: 16825.07
Client: City of Rochester
Location: 172 Genesee

Drilling Contractor: NW
Driller: Mike
Elevation:
Weather: overcast 45°F

Start Date: 10/29/02
Completion Date: 10/29/02
Drilling Method: Earth probe
Supervisor: K. Mott

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
							24"		0-4	brownish red fine SAND (FILL)
4						0.5				
							24"		4-8	brownish red fine SAND and Silt, little Clay (FILL)
8						0.5				
							24"		8-12	reddish brown fine SAND and gravel, little clay no odor (FILL) moist
12						1.2				
										refusal @ 12' BG end of boring @ 12' BG No well set backfilled w/ AL cuttings

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. OZ18

Page 1 of 2

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: East of PZ 2 16' ft

Drilling Contractor: Natures Way
Driller: S. Gnage/C. G
Elevation: _____
Weather: _____

Start Date: 11/21/02
Completion Date: 11/21/02
Drilling Method: Geroprobe
Supervisor: D. Gnage

11.8

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
					0.0	0.4	2.3	1	0-4	asphalt .5 f-c Gravel, bedding for asphalt 0.6 Lt. Brown Silty Sand, little f-c Gravel, dry to moist (FILL) 2.0 Black cinders, bits of brick 2.7
										Lt. Brown/Brown Silty Sand, little f-c Gravel, slag, cinder, mortar
5					0.0	0.4	2.0	2	4-8	S.a.g no slag or cinder (FILL) 5.0
										Lt. Brown Silty Sand, little f. Gravel, rust lenses, trace clay moist (Native) 8.0
					0.0	0.4	2.0	3	8-12	Red Brown Silty Clay, moist 8.6
10										Lt. Brown f-m SAND, some to little Silt, moist, rust spotting, lenses,
					0.0	1.9	3.0	4	12-16	S.a.g. moist to wet 14.7
15										S.a.g. red/Brown w/Black lenses
					15.1	5.3	2.0	5	16-20	S.a.g. odor (petrol 16.5 S.a.g no black staining, increase in Silt, little clay

N – No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

SVOCs?

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Test Boring No. MZ 15

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: 16' E of W of MZ 2

Drilling Contractor: Natures Way
Driller: S. Gingrich
Elevation:
Weather:

Start Date: 11/21/02
Completion Date: 11/21/02
Drilling Method: Geroprobe
Supervisor: D. Gnage

11.5

20 C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
				00	1.8	1.9	60	20-22	s. a. a fine gravel
									22.5
									E. O. S
									Refusal
25'									

N No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. PZ-19

Page 1 of 2

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: _____

Drilling Contractor: Natures Way
Driller: J. Gingrich
Elevation: _____
Weather: overcast ±40

Start Date: 11/21/02
Completion Date: _____
Drilling Method: Geroprobe
Supervisor: D. Gnage

11.8

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
					0.5	0.4	2.3	1	0-4	TOPSOIL 0.5 Brown SILT, some f-m Sand & Gravel, brick, concrete (FILL) 1.0 Gray f-c Gravel, concrete 1.9 Brown/Black SILT, some f-m Sand & Gravel, black cinders, (FILL) dry 4.2
5					3.8	1.1	1.3	2	4-8	Lt. Brown f-m SAND, 1/8" Steel "waffles" 4.75 Black granular "carbon" (FILL) 8.2
					2.8	1.3	2.5	3	8-12	Brown Silty SAND, little to some Clay, moist (Native) 9.1 Red Brown Clay, dry to moist 9.3 Brown/Red Brown Silty Sand, little to some Clay, moist 10.0
10										Lt. Brown f-m Sand, little Silt, moist to wet
					0.0	0.8	2.7	4	12-16	S.a.a., @ 13.3 rust stains
15										
					0.0	0.6	2.5	5	16-20	S.a.a., wet
20										

Background 0.4

N - No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. P2-19

Page 2 of 2

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: _____

Drilling Contractor: Natures Way
Driller: S. Gingerich
Elevation: _____
Weather: Overcast ± 40

Start Date: 11/21/02
Completion Date: 11/21/02
Drilling Method: Geroprobe
Supervisor: D. Gnage

11.8

20	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
					2.5	1.1	2.0	6	20-23	Lt. Brown f-m SAND, little SILT, little f-c gravel, saturated
					1.7	0.8	2.0	7	23-25	S. a. 9
25										25.2
										E.O.B Refusal
30										
35										

N - No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. SB-20

Page 1 of 2

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: S. side 25' W of SE Cor

Drilling Contractor: Natures Way
Driller: Steve Gnagy
Elevation:
Weather:

Start Date: 11/20/02
Completion Date: 11/20/02
Drilling Method: Geroprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						0.7	3.5	1	0-4	asphalt 0.5 Gray f-c Gravel, little f-m sand & silt, dry (aggregate base)
						0.7		2		Brown f-m silty SAND trace f. Gravel moist. bits of metal (Fill) 2.0
						0.8	3.4	3	4-8	s.a.a. Orangish Brown little silt, no gravel (Native) 4.2 s.a.a. lt. Brown 5.8 s.a.a. little to some silt trace clay, moist 6.9
5						0.8				
						0.7	3.0	4	8-12	Red Brown/Brown silty clay & Gravel little to trace f. sand, moist to wet (native?) 8.0 s.a.a. trace f-c Gravel (fill), moist
10							2.7	5	10-16	13.0
						0.7				Red Brown to Brown, clay, moist to wet 14.0
						0.5				Brown f-m silty SAND, moist to wet
15						0.7	3.0	6	16-19	s.a.a. little clay, moist to wet @ 17.0 wet 18.0
						0.9				Red Brown silty clay, trace f-c sand & gravel moist 19.0
						0.6	3.0		19-22	Red Brown f-m silty SAND trace clay wet
20										

N = No. ~~of Blows to Drive~~ ____ Spoon ____ with ____ lb. Wt. ____ Ea. Blow
C = No. of Blows to Drive ____ Casing ____ with ____ lb. Wt. ____ Ea. Blow

Background 0.6

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Test Boring No. P2-20

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: 2' West of SE corner

Drilling Contractor: Natures Way
Driller: S. Gingras
Elevation:
Weather:

Start Date: 11/20/02
Completion Date: 11/20/02
Drilling Method: Geroprobe
Supervisor: D. Gnage

20	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
										Red Brown fine Silty SAND, trace to Clay, wet little
						0.5	~~0.5~~ 1.2		22-25	S. a. a.
										24
						0.9				brown, Silty SAND, little F-C Gravel, wet
25						0.9	1.0		25-27	S. a. a., ~~Silt~~
						1.0	1.5		27-29.5	brown, F-C Gravel, little F-C SAND & Silt, wet
										29.5
30										E.O.B. refusal

N – No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. SB-21

Page 1 of ___

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: Westside of Bldg 20' S and W of NW corner N.E

Drilling Contractor: Natures Way
Driller: J. Livingston
Elevation: ___
Weather: Overcast 50's

Start Date: 11/21/02
Completion Date: 11/21/02
Drilling Method: Geroprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
					0.0	0.3	3.0	1	0-4	Topsoil Dark. Brown SILT, some f.-m Sand & Gravel, brick, black granular gravel (FILL) 3.4
										Brown/Red Brown Silty Sand, trace f. Gravel, moist (Native)
5					0.0	0.3	4.0	2	4-5	S.a.a. lt. Brown, w/ rust stains
					0.0	0.3	3.7	3	5-12	@ 10.0 moist to wet
10										Red Brown Silty CLAY, trace f. Gravel & f. Sand, dry to moist 12.3
					0.0	0.4	4.0	4	12-16	S.a.a. softer, moist 14.5
										S.a.a. dry very stiff
15										Brown to Red Brown Silty SAND, moist to dry, trace clay
					0.0	0.4	3.0	5	16-19	S.a.a. Red Brown wet
					0.0	0.4	2.5	6	19-22	S.a.a.
20										Bottom of Boring @ 22.0 Background

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. P2-21

Page 2 of 2

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: 20'S & 10'W of NW corner

Drilling Contractor: Natures Way
Driller: S. Graham
Elevation:
Weather: clear cool 40

Start Date: 11/21/02
Completion Date: 11/21/02
Drilling Method: Geroprobe
Supervisor: D. Gnage

11.8

C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
							6	19-22 cont	Gray silt, clay, some sand 20.5
									Gray silty SAND, little clay, some gravel 21.0
									Gray f-c Gravel, some 22.0
				0.0	0.4	1.3	7	22-25	Gray silty SAND, some f-c Gravel wet
				0.0	0.4	0.8	8	25-28	s. a. a.
									@ 27.5 brown 28.0
									E.O.B. refusal

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-22

Page 1 of 1

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: 10' S of P27

Drilling Contractor: Natures Way
Driller: S. Gregory
Elevation:
Weather:

Start Date: 11/20/02
Completion Date: 11/20/02
Drilling Method: Geroprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						2.7	3.2		0-4	Topsoil 0.3 Brown, SILT, little f. Sand & Gravel, pieces of Black material (plastic like) (Fill) 2.0 white substance, bits of brick & black "glass" 4.4
5						16.5 3.4	1.8 (carbon) (white)		4-8	Black "carbon" (FILL) F.S
						3.5	3.2		8-12	Brown, f-m SILTY SAND, trace f. Gravel, moist to wet (Native)
10										
						0.9	4.0		12-16	13.0 Red Brown, very stiff, SILTY CLAY, dry to moist 15.0
15										Brown SILTY f-m SAND, moist 16.0 E.O.B

Background 10.5

1. No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-23

Page 1 of 1

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: 10'S x 10'W of #27

Drilling Contractor: Natures Way
Driller: _____
Elevation: _____
Weather: _____

Start Date: 11/20/02
Completion Date: 11/20/02
Drilling Method: Geroprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						0.8	0.3	1	0-4	top soil Brown SILT, little f. SAND + Gravel, Black "slag" (FILL)
										4.0
5						3.5	3.0	2	4-8	Lt. Brown f-m SAND, little native SLT, moist to dry (native?)
						3.0	2.2	3	8-12	@ 8.3 1" layer of possible ash
10										10.5
										(Red Brown, Silty CLAY, moist Brown (native) rock & gravel
						2.5	4.0	4	12-16	
15										@ 13.8 dry to moist, very stiff
										16.0
										E.O.B.

Background: 0.5

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-24

Page 1 of ___

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: 10' N of P27

Drilling Contractor: Natures Way
Driller: _____
Elevation: _____
Weather: _____

Start Date: 11/20/02
Completion Date: 11/20/02
Drilling Method: Geroprobe
Supervisor: D. Gnage

11.5

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
		-			10.8	5.7	0.5	1	0-4	concrete 0.35 Brown/Red Brown Silty fine SAND, dry to moist (FILL) 1.5 1.5-2 Gravel @ 1.7 Blue/Green powder fuse
5					2.4	2.4	2.2	2	4-8	Lt. Brown fine Silty Sand, trace to some gravel, dry to moist (Native)
					1.6	3.7	3.1	3	8-12	@ 9. moist to wet 10.3
10										s. a. a. 1"-1/2 clay 10.7 Red Brown Silty CLAY, trace f. gravel & Sand, moist
					1.6	1.4	4.0	4	12-16	s. a. a.
15										16.0 E. O. B

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-25

Page 1 of ___

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: 10'N + 10'W of P27

Drilling Contractor: Natures Way
Driller: S. Gingerich
Elevation: ___
Weather: Clear ± 50°F

Start Date: 11/20/02
Completion Date: 11/20/02
Drilling Method: Geroprobe
Supervisor: D. Gnage

11.8

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
					4.6	5.0	1.6	1	0-4	concrete 0.75 Brown f-m SAND, some silt cinders, white material, (FILL) 2.0 Brown f-m silty SAND, little to trace f. Gravel, brick, ~~dry~~ bits of cinder + white material, dry
5					11.8	6.1	2.2	2	4-8	s.a.a. wet to moist (no "FILL") @ 6.2 brick pieces F.C
					3.9	1.7	4.0	3	8-12	Black cinder + white material w/ brick (FILL) Brown silty SAND, trace f. gravel, moist to wet (Native) @ 11.1 - 11.3 saturated seam 11.6
10					0.5	0.9	4.0	4	12-16	Red Brown silty CLAY, little to trace f-gravel & sand 13.0 Brown silty SAND, saturated 14.0 Red Brown silty CLAY, little to trace f. gravel & sand 15.7 S.G.C. no sand or gravel 16.0 E.O.B
15										

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-26

Page 1 of ___

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: 10 N of PZ7

Drilling Contractor: Natures Way
Driller: S. Gingrich
Elevation: ___
Weather: ___

Start Date: 11/20/02
Completion Date: 11/20/02
Drilling Method: Geroprobe
Supervisor: D. Gnage

11.8

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
					8.4	2.7	2.6	1	0-4	Topsoil 0.4 Brown SILT, little f. sand & gravel, brick, concrete, black "glass", moist (Fill)
										4.4
5					63.1	29.7	2.3	2	4-8	Brown SILT, little F. SAND, moist 5.0 Black carbon, moist
					8.4	3.7	4.0	3	8-12	(Fill) 9.0
10										Brown silty f-m SAND, little clay, moist to wet (Native)
										11.5
					1.6	0.4	3.0	4	12-16	Red Brown silty CLAY, little f-Gravel & Sand, moist
										14.1
										Brown f-m SAND, moist 14.6
15										Red Brown silty CLAY, little f. Gravel & Sand, moist 15.1 S.A.A. NO Sand or Gravel 16
										F. O. B

Background: 0.5

N – No. of Blows to Drive ____ Spoon ____ with ____ lb. Wt. ____ Ea. Blow
C = No. of Blows to Drive ____ Casing ____ with ____ lb. Wt. ____ Ea. Blow 0.0

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Test Boring No. GP-27

Page 1 of ___

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: 17' N of PZ7

Drilling Contractor: Natures Way
Driller: S. Gingrich
Elevation:
Weather: clear 50

Start Date: 11/20/02
Completion Date: 11/20/02
Drilling Method: Geroprobe
Supervisor: D. Gnage

11.8

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
					8.4	5.1	2.7	1	0-4	topsoil 0.5
										Brown silty sand, little f-c gravel, slag, Black "glass" (fill) glass, wood, dry to moist
										4.7
					26.1	6.3	2.1	2	4-8	Black granular "carbon"
5										
										(Fill) 8.0
					1.6	0.9	2.6	3	8-11	Red Brown silty sand, moist to wet, trace Clay
10										(Native)
										11.0
										E.O.B refusal (top of sewer?)
15										

N - No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-28

Page 1 of ___

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: 20' S of 027

Drilling Contractor: Natures Way
Driller: ___
Elevation: ___
Weather: ___

Start Date: 11/20/02
Completion Date: ___
Drilling Method: Geroprobe
Supervisor: D. Gnage

11.8

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
					2.8	1.8	3.3	1	0-4	Topsoil (0.4)
										Brown SILT, little Rsand, & gravel, bits of brick & slag (Fill) 2.6
										ASH (white material), black "glass" slag 4.2
5					8.4	2.7	2.0	2	4-8	Black granular "carbon" 5.6
										Red Brown SILTY, CLAY, little f. Gravel, bits of wood (FILL) 7.0
										(Native)
					2.8	1.3	3.3	3	8-12	Brown/Orange/ish Brown f. to SILTY SAND, moist to wet
10										@ 11' 2" trace of DK Brown
					1.6	0.6	4.1	4	12-16	13.6
										Red Brown SILTY CLAY; little f. Gravel, dry to moist 14.0
15										S. Cl. G. and Sand or Gravel 16.0
										E.O.B

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-29

Page 1 of 1

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: 26' S of P2-7 4' E. of Bldg

Drilling Contractor: Natures Way
Driller: _____
Elevation: _____
Weather: _____

Start Date: 11/20/02
Completion Date: _____
Drilling Method: Geroprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
					1.6	0.5	2.0	1	0-4	Topsoil 0.5 Brown, silty SAND, some f brick + charcoal mixed (Fill) 4.7
5					5.2	0.5	3.0	2	4-8	Lt. Brown f-m SAND, little to some silt, moist to dry (Native)
					0.0	0.5	3.5	3	8-12	S.a.a. moist to wet 10.4
10										Brown silty clay, dry to moist 11.0 Brown silty f-m SAND, moist to wet 12.7
					0.0	0.5	3.5	4	12-16	Red Brown silty CLAY, some f. Gravel + sand, moist to dry 14.6
15										S.a.a. Gray/Purple 15.4 Gray/Purple silty sand, moist to wet 16.0
									~~16-20~~	E.O.B

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-30

Page 1 of 1

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: 5' N + 15 E of PZ7

Drilling Contractor: Natures Way
Driller: S. Bingham
Elevation:
Weather: overcast ±40

Start Date: 11/28/02
Completion Date: 11/21/02
Drilling Method: Geroprobe
Supervisor: D. Gnage

11.8

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
					7.2	4.0	3.0	1	0-4	topsoil 0.5
										Brown SILT little f. sand + gravel, bits of wood, brick, cinder, black "slag", coal (FILL)
										4.9
5					16.3	6.3	2.4	2	4-8	Black granular "carbon" mast
										(FILL) 8.5
					2.8	2.1	4.0	3	8-12	Red Brown Sandy SILT, little clay mast (Native) 10.5
10										Red Brown silty clay, mast (native?) 11.6
										Rt. Brown fine SAND, little silt, mast
					7.2	1.5	2.7	4	12-16	s.a.a. mast to wet
15										16.0
										E.O.B.

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-31

Page 1 of 1

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: _____

Drilling Contractor: Natures Way
Driller: S. Gingerich
Elevation: _____
Weather: _____

Start Date: 11/21/02
Completion Date: 11/21/02
Drilling Method: Geroprobe
Supervisor: D. Gnage

11.8

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
					6.1	1.6	2.7	1	0-4	topsoil 0.6
										Brown SILT, little to some fine sand and gravel, wood, concrete, glass, cement, (FILL)
										sand w/ brick 4.5
5					22.1	3.8	2.4	2	4-6	Black granular "carbon" mass
										(FILL) 6.3
					5.2	1.5	2.4	3	8-12	Red Brown Sandy SILT, some (wet) 9.5
10										Clay, little gravel 9.8
										s.a.a. gray — 9.8
										s.a.a. Red Brown 10.7
										Lt. Brown fine Sand, little Silt, moist (wet)
					1.6	1.6	2.0	4	12-16	s.a.a. moist to wet
15										16.0
										E.O.B

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-32

Page 1 of 1

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: 30 N & W of P27

Drilling Contractor: Natures Way
Driller: S. Gingrich
Elevation:
Weather: overcast

Start Date: 11/21/02
Completion Date: 11/21/02
Drilling Method: Geroprobe
Supervisor: D. Gnage

11.5

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
					0.0	0.6	2.5	1	0-4	Asphalt 0.3 ft. Crushed run 0.7 ft. Brown SILTY some to little f. Sand, little f. Gravel, brick, glass, cinders, dry to moist (FILL) Brown/Orange Brown SILTY Sand, trace f. gravel + cinders 4.6
5					0.0	2.3	2.5	2	4-8	Black, granular "carbon" (FILL) 6.5
										Dk. Brown SILT, some f. Sand trace f. Gravel, moist (Native) 8.0
					0.0	0.9	2.4	3	8-12	Red Brown SILT, trace f. clayey Sand, rust mottling, moist 11.4 Brown Silty Sand, trace clay moist to wet 12.0
0										E.O.B

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-33

Page 1 of 1

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: 7'N of 2'W of NE cor

Drilling Contractor: Natures Way
Driller: Mike
Elevation:
Weather: overcast ≈ 40

Start Date: 11/25/02
Completion Date: 11/25/02
Drilling Method: Geroprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						0.6	2.4	1	0-4	asphalt 0.3 crushed stone 0.7 Brown sandy SILT, little fine Gravel, bits of ash & black charcoal (Fill)
5						1.0	3.5	2	4-8	s. a. a. w/ strong odor 5.6 Brown f-m SAND, little silt, moist
						29.1	7.0	3	8-12	s. a. a gray/black sheen, petro odor, moist to wet
10										
						3.9	2.0	4	12-16	Brown silty f-m Sand, little fine Gravel, moist
15										16.0 E. O. B

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GA-34

Page 1 of 1

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: _____

Drilling Contractor: Natures Way
Driller: Smith
Elevation: _____
Weather: rain/snow ±40

Start Date: 11/25/02
Completion Date: 11/25/02
Drilling Method: Geroprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						1.6	1.6	1	0-4	asphalt / crusher run 0.7 Brown silty sand, little f-c gravel, moist, very, cinder, brick (fill)
4						2.4	0.6	2	4-6	s.a.a. w/ little "carbon" possible mix in; possible cinder 6
								3	6-8	E.O.B.
10										moist to W, near sewer, very soft maybe in trench
15										

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. ~~GP-34a~~ GP-35

Page 1 of 1

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: 4' W & 1' N of GP-34

Drilling Contractor: Natures Way
Driller: Mike
Elevation:
Weather:

Start Date: 11/25/02
Completion Date: 11/25/02
Drilling Method: Geroprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						1.5	2.0	1	0-4	asphalt, crushed stone 0.6
										Brown SILT, some Sand, little f-c Gravel, ash, cinders (Fill) 4.3
5						1.2	3.0	2	4-8	Red Brown f-m Sand, little Silt, moist 6.3
										Gray Silty Clay, little f-c Gravel, moist 8.0
								3	8-12	E.O.B. hole collapsed, can not penetrate past 4.5
10										
15										

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-36

Page 1 of 1

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: _____

Drilling Contractor: Natures Way
Driller: M. Tye
Elevation: _____
Weather: _____

Start Date: 11/25/02
Completion Date: _____
Drilling Method: Geroprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						1.3	2.5	1	0-4	Asphalt, gravel 0.6 Brown SILT, little f-m Sand & f-c Gravel, brick, ash (Fill) @ 2.0 s.a.a Red Brown little clay 3.8 Black cinder 5.2 Red Brown Silt, trace to little f-c gravel 4.2
5						0.3	2.4	2	4-8	Black granular "coal"
						2.0	3.4	3	8-12	(FILL) 9.0 Brown Silty Clay, trace f. Gravel (Native) 10.2 Brown f-m Sand little Silt rust & grey mottling (dense (native) 12.0
10										E.O.B

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
N' = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-37

Page 1 of 1

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: ______

Drilling Contractor: Natures Way
Driller: ______
Elevation: ______
Weather: ______

Start Date: 11/25/02
Completion Date: ______
Drilling Method: Geroprobe
Supervisor: D. Gnage

		Blows on Sampler				SAMPLE				Soil and Rock Information
0	C	0-6"	6-12"	12-18"	18-24"	PID	Rec.	No.	Depth	Remarks
						1.4	2.2	1	0-4	asphalt gravel 0.7 Red Brown SILT, little Clay & f-m Sandy, trace Gravel, trace brick, [illegible] (Fill) 2.2 black cinders 2.7 Red Brown silty sand, little f-c gravel,
5						2.4	2.0	2	4-8	Black granular carbon (Fill) 6.2 Red Brown silty clay, trace cinder & f. gravel (Native) 9.0
						1.4	2.9	3	8-12	Brown f-m SAND, little silt, rust mottling & [illegible] moist (Native) 12.0
10										
										E.O.B.
15										

background 0.9

N = No. of Blows to Drive ______ Spoon ______ with ______ lb. Wt. ______ Ea. Blow
C = No. of Blows to Drive ______ Casing ______ with ______ lb. Wt. ______ Ea. Blow

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Test Boring No. GP-38

Page 1 of 1

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: _____

Drilling Contractor: Natures Way
Driller: _____
Elevation: _____
Weather: _____

Start Date: 11/25/02
Completion Date: 11/25/02
Drilling Method: Geroprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						2.8	3.2	1	0-4	asphalt gravel 0.6
										Red Brown silty little f-m sand & gravel, moist 2.2
										Black cinder 2.7
										Black granular carbon
5						6.0	2.1	2	4-8	5.0
										Red Brown silty f-m sand, little clay, moist 5.2
										Black cinder 7.0
										Brown silt, little f-m sand & f-gravel, cinders (FILL) 8.0
						2.4	2.5	3	8-12	Red Brown silty clay, trace f. gravel, moist (Native) 9.1
10		1								Brown f-m sand & little silt, rock matter, moist 12.0
										E.O.B
15										

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-39

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Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: _____

Drilling Contractor: Natures Way
Driller: M. Mc
Elevation: _____
Weather: _____

Start Date: 11/25/02
Completion Date: _____
Drilling Method: Geroprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						3H	1.5	1	0-4	crushed run (CR) Brown silty sand, little f-c gravel, trace of brick, ash, cinders (FILL)
										Black cinder 2.3
										Brown silty sand, little f. gravel brick, cinders
5						7.3	2.0	2	4-8	5.7
										Black cinder (FILL) 6.8
										Red Brown silty sand, little clay, trace f. gravel (Native)
						3.3	1.4	3	8-12	8.0
										Black granular carbon 9.1
10										Red Brown silty clay, trace f. sand, moist
										13.0
										E.O.B
15										

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

0-4

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Test Boring No. TP-40

Page ___ of ___

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: _____

Drilling Contractor: Natures Way
Driller: _____
Elevation: _____
Weather: _____

Start Date: 1/25/02
Completion Date: _____
Drilling Method: Geroprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						3.1	3.4	1	0-4	topsoil 0.6 Red Brown silt, little f-c Sand & Gravel, brick, cinders (FILL)
										2.5 Black cinders, white & FILL, wood & ash?
5						2.2	2.3	2	4-8	s.a.a. 4.5 s.a.a. w/ Red Brown silt mixed (FILL) 5.6
										Brown fine ~~sand~~ silty sand, moist to wet (Native)
						2.1	2.0	3	8-12	s.a.a.
10										12.0
15										

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GR 41

Page 1 of ___

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: _____

Drilling Contractor: Natures Way
Driller: _____
Elevation: _____
Weather: _____

Start Date: 11/25/02
Completion Date: 11/25/02
Drilling Method: Geroprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						3.2	2.2	1	0-4	top soil 0.5 Brown SILT, some f-c gravel & cinder w/ash (FILL)
										4.5
5						8.9	2.5	2	4-8	Black granular carbon @ 7.5 slag mix w/carbon
										(FILL) 8.5
						6.4	4.1	3	8-12	f. sand & gravel moist 9.5 Red Brown silty clay, trace f. sand & gravel moist Brown silty sand, moist to wet (Native) 12.0
10										E. O. B
15										

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP 42

Page 1 of ___

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: _____

Drilling Contractor: Natures Way
Driller: _____
Elevation: _____
Weather: _____

Start Date: 11/25/02
Completion Date: _____
Drilling Method: Geroprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						3.0	1.5	1	0-4	Topsoil 0.4 Brown SILT, little f. sand & gravel, black cinder & ash, brick frag.
4						9.5	2.6	2	4-8	5.5
										Black granular carbon @ 6.5 mixed w/ slag 8.1
						3.6	2.5	3	8-12	Slag & gravel, brick frag. 8.5 Red brown silty clay, moist 9.1 Brown silty sand, little clay, trace cinders & f. gravel mixed (Fill) 9.6 Brown silty sand, trace f. gr. gravel, moist (Native) 12.0
0										
15										

N . of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C . of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-43

Page 1 of ___

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: _____

Drilling Contractor: Natures Way
Driller: _____
Elevation: _____
Weather: _____

Start Date: 11/25/02
Completion Date: 11/25/02
Drilling Method: Geroprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						2.3	2.9	1	0-4	Brown SILT, some f-c Gravel, little f-c Sand, brick, (Fill)
4						1.8	2.6	2	4-8	5.0
										Black Carbon 5.0
										carbon, cinder, ash 0.6
										Carbon 8.0
								3	8-12	E.O.B
10										
15										

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. G-244

Page 1 of ___

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: _____

Drilling Contractor: Natures Way
Driller: _____
Elevation: _____
Weather: _____

Start Date: 11/27/02
Completion Date: _____
Drilling Method: Geroprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						2.3	2.0	1	0-4	Crushed run gravel (0.2) Brown SILT, little f-c Gravel, clay, brick (FILL) glass
5						2.3	2.0	2	4-8	4.5 yellow brick 5.0 (FILL) red brick 5.5 (FILL) Cinders mixed w/ clay 5.0 ash, cinder, cinders
						1.4	2.2	3	8-12	Cinders 9.0 Red Brown Silty Clay, little cinder & f. Sand (FILL) 9.5 Brown fine Sand, little Silt moist to dry (Native) 12.0 E.O.B.
10										
15										

= ___ of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
= No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-45

Page ___ of ___

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: _____

Drilling Contractor: Natures Way
Driller: _____
Elevation: _____
Weather: _____

Start Date: 11/25/02
Completion Date: _____
Drilling Method: Geroprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						1.6	2.4	1	0-4	TOP Soil (0.4)
										Brown SILTY SAND, little f-c Gravel, Cinders, brick (RIP) wood
										a.a.a.
5						1.4	2.4	2	4-8	(5.6)
										Black carbon, mixed w/ Silty Sand (5.75)
										Brown ~~Silt~~ fine SAND, little Silt, trace f. Gravel (6.2)
										a.a. a. Lt. Brown (Native) E.O.
										E.O.B
10										

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. GP-16

Page 1 of 1

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: _____

Drilling Contractor: Natures Way
Driller: _____
Elevation: _____
Weather: _____

Start Date: 11/25/02
Completion Date: _____
Drilling Method: Geroprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
						1.8	3 3	1	0-4	Topsoil 06"
										Brown to dk brown silty sand, little f-c gravel, moist, cinders and (fill)
5'						2.1	1 2	2	4-8	
										f.G
										E.O.B
10										

No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No. EA-47

Page 1 of ___

Project: Brooks Landing
Project #: 16835.07
Client: City of Rochester
Location: _____

Drilling Contractor: Natures Way
Driller: _____
Elevation: _____
Weather: _____

Start Date: 1/25/04
Completion Date: _____
Drilling Method: Geroprobe
Supervisor: D. Gnage

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information / Remarks
						1.0	3.2	1	0-4	Top soil Brown silty sand, little f-c gravel, most, cinders brick (Fill)
5'						2.4	2.3	2	4-8	(Fill) 6.0 Brown f-m sand, little silt, trace gravel (Native) 8.0
10										

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

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Test Boring No.PZ-100

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/13/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/13/2003
Client:	City of Rochester	Elevation:	518.20	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Snow +/- 20 deg.	Supervisor:	D. Gnage

0	SAMPLE PID	Rec.	No.	Depth	Soil Information Remarks	
	0.8/0.8	2.3	1	0-4	Brown SILT, trace sand (topsoil)	1.0
					Brown fine to medium SAND and Silt, trace fine Gravel, moist, trace Cinder, brick (fill)	4.5
5	0.8/0.6	3.2	2	4-8	Brown/light Brown Silty fine to medium SAND, little to trace fine Gravel, moist to wet (Native)	
10	0.8/1.1	3.0	3	8-12	s.a.a., wet	
	0.8/0.8	0.8	4	12-13	s.a.a., gray	13.0
15					Refusal E.O.B.	
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

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Test Boring No.PZ-101

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/14/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/14/2003
Client:	City of Rochester	Elevation:	518.26	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Overcast +/- 20 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information
0	PID	Rec.	No.	Depth	Remarks
	0.5/0.5	3.4	1	0-4	Brown Silty fine to medium SAND, trace fine Gravel, organics and brick 1.0
					Brown/Orange Brown, Silty fine to medium SAND, little fine Gravel, trace brick, moist (fill)
	0.5/5.2	3.1	2	4-8	5.0
5					Light Brown/Orange fine to medium SAND, little Silt, trace fine Gravel, trace brick, wet (fill)
					s.a.a., Red/brown with fine to coarse Gravel, little Clay
	0.5/2.6	2.6	3	8-12	9.2
10					Gray fine to medium SAND, some Silt and little fine to coarse Gravel, wet
	0.5/0.5	2.0	4	12-14	14.0
					Refusal E.O.B.
15					
20					

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

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Test Boring No.PZ-102

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/14/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/14/2003
Client:	City of Rochester	Elevation:	518.23	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Snow +/- 20 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information
0	PID	Rec.	No.	Depth	Remarks
	0.6/0.6	3.5	1	0-4	Dark Brown Silty fine to medium SAND, little roots, trace fine Gravel, moist (topsoil)
					2.2
					s.a.a. Light brown with oxidation
	0.3/1.0	3.0	2	4-8	s.a.a. with bits of Cinder and dark Brown lenses, roots (fill)
5					5.5
					Light brown Silty, fine SAND, some to little Clay, little fine Gravel, wet
					6.4
					Brown/Gray Silty fine to medium SAND, little fine Gravel, wet (Native)
	0.0/0.5	2.3	3	8-12	
10					
	0.0/0.0	0.5	4	12-13	12.7
					weathered rock 13.0
					Refusal E.O.B.
15					
20					

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

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Test Boring No.PZ-103

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/14/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/14/2003
Client:	City of Rochester	Elevation:	517.76	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Snow +/- 15 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
	0.8/0.8	3.3	1	0-4	Dark brown SILT, some very fine Sand, trace fine Gravel, roots	1.2
					Light Brown Silty fine to medium SAND, trace fine Gravel, brick and cinder (fill) moist	
					@ 3'-0 moist to wet	
	0.5/4.7	3.5	2	4-8	s.a.a., little Clay	5.3
5					Light Brown Sand and Gravel, some Silty, wet	6.3
					Red/Brown Silty Clay, some fine Sand, little fine Gravel, moist	8.3
	0.5/1.7	1.8	3	8-12	Gray/Brown fine to medium SAND, some to little Silt, little fine Gravel, wet (Native)	
10						
	0.0/0.0	0.2	4	12-12.2	Weathered rock at tip	12.2
					Refusal E.O.B.	
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

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Test Boring No.B-104

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/14/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/14/2003
Client:	City of Rochester	Elevation:	517.83	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Clear +/- 15 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information Remarks	
0	PID	Rec.	No.	Depth		
	0.5/0.6	2.25	1	0-4	Dark Brown Silty fine to medium SAND, trace fine Gravel, roots, topsoil, moist	0.6
					Light Brown/Orangish Silty fine to medium SAND, trace fine Gravel, moist to wet	
	0.5/0.7	4.0	2	4-8		4.9
5					Brown/gray Silty Clay, hard, moist	6.1
					Light Brown Orangish, Silty fine to medium SAND, trace to little fine Gravel, wet (Native)	
	0.5/0.7	1.3	3	8-11.9		11.9
10					Refusal E.O.B.	
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

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Test Boring No.B-105

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/14/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/14//03
Client:	City of Rochester	Elevation:		Drilling Method:	Earthprobe
Location:	see figure	Weather:	Clear +/- 15 deg.	Supervisor:	D. Gnage

0	SAMPLE PID	Rec.	No.	Depth	Soil Information Remarks	
	0.7/0.7	3.2	1	0-4	Dark Brown Silty fine to medium SAND, some to little fine Gravel, trace Cinder, moist (fill)	1.9
					Light Brown Silty fine to medium SAND, little to trace fine Gravel, moist to wet	
	0.4/0.5	3.8	2	4-8	s.a.a., wet	
5						
	0.4/0.4	2	3	8-12	s.a.a., fine to coarse Gravel	
10						11.5
					Weathered Rock	12.0
					Refusal E.O.B.	
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

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Test Boring No.B-106

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/15/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/15/2003
Client:	City of Rochester	Elevation:	515.99	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Claer +/- 15 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information
0	PID	Rec.	No.	Depth	Remarks
	0.7/0.7	2.1	1	0-4	Dark Brown Silty fine to medium SAND, little fine Gravel and organics, trace cinders (fill) topsoil 0.8
					Light Brown/Orange Silty fine to medium SAND, trace fine Gravel, moist
	0.7/0.7	2.8	2	4-8	s.a.a. wet
5					@ 6' gray dust mottling (Native)
	0.7/0.7	2	3	8-12	9.0
					s.a.a. Light Brown fine to medium SAND, little Silt, little fine to coarse Gravel, wet
10					12.0
					Refusal E.O.B.
15					
20					

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

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Test Boring No.B-107

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/15/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/15/2003
Client:	City of Rochester	Elevation:	518.09	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Clear +/- 15 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information / Remarks	
0	PID	Rec.	No.	Depth		
	0.9/0.9	2.5	1	0-4	Dark Brown Silty fine to medium SAND, trace fine to coarse Gravel and organics	1.0
					Light Brown Silty fine to medium SAND, moist to wet, organics and mottling (Native?)	
	0.9/0.9	3.0	2	4-8	s.a.a. wet	
5						
	0.9/0.9	3.0	3	8-12		9.5
10					Red Brown CLAY, trace fine to coarse Gravel, moist (Native)	12.0
					Refusal E.O.B.	
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

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Test Boring No.B-108

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/15/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/15/2003
Client:	City of Rochester	Elevation:	517.3	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Snow +/- 20 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information / Remarks	
0	PID	Rec.	No.	Depth		
	0.9/1.0	2.7	1	0-4	Dark Brown Silty fine to medium SAND, little fine to coarse Gravel, trace organics, moist, topsoil	1.0
					Light Brown Silty fine to medium SAND, trace organics, gray and rust mottling, moist to wet	
	0.9/1.0	1.0	2	4-8	s.a.a., wet	
5					@ 4.5 2" layer of topsoil (original?)	
	0.9/0.9	2.8	3	8-11.9	s.a.a., wet, little fine to coarse Gravel	
10						11.2
					Red/Brown Silty CLAY, little fine to coarse gravel, moist (fill)	11.9
					Refusal E.O.B.	
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

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Test Boring No.B-109

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/15/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/15/2003
Client:	City of Rochester	Elevation:	517.2	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Snow +/- 20 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
	0.8/0.8	1.1	1	0-4	Dark Brown Silty fine to medium SAND, little fine Gravel, trace Cinders, moist	0.9
					Light Brown Silty fine to medium SAND, wet to moist	
	0.8/0.8	3.0	2	4-8	s.a.a. wet (Native?)	
5						
					@ 6.5 gray/brown w/rust mottling	
	0.8/0.8	3.1	3	8-12		
10					brick pieces @ 10.5 (sluff?)	
						11.5
					Gray fine to coarse Gravel, little Silt, Sand, wet	12.0
					Refusal E.O.B.	
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

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Test Boring No.B-110

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/15/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/15/2003
Client:	City of Rochester	Elevation:	517.46	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Snow +/- 20 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
	0.8/0.8	2.5	1	0-4	Dark Brown Silty fine to medium SAND, moist to dry, topsoil	0.5
					Light Brown/Orangish Silty fine to medium SAND, little fine to coarse Gravel, moist	1.5
					s.a.a. gray/brown, rust mottling and organics	2.1
					Red Brown CLAY, little fine gravel, moist	4.0
	0.8/0./	3.5	2	4-8	Gray, Silty fine to medium SAND, wet	7.0
5						
					s.a.a. with rust striations	
	0.8/0.8	2.1	3	8-12		12.0
10						
					E.O.B.	
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

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Test Boring No.B-111

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/15/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/15/2003
Client:	City of Rochester	Elevation:	517.56	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Snow +/- 20 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information / Remarks	
0	PID	Rec.	No.	Depth		
	0.9/1.0	3.0	1	0-4	Dark Brown/Black fine to medium Silty SAND, little fine Gravel, trace Cinders	0.7
					Red Brown/Brown Silty fine to medium SAND, little fine Gravel, moist, rust striations	2.2
					Brown/Gray Brown fine to medium Silty SAND, trace fine Gravel, moist to wet, rust striations	
	0.9/1.0	2.0	2	4-8	s.a.a. wet	
5						
	0.9/0.9	1.0	3	8-12	s.a.a. gray	
10						
						12.0
					Refusal E.O.B.	
15						
20						

Notes:
1. PID Model: Mini- Rae 2000 with 10.6 lamp.

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Test Boring No.B-112

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/15/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/15/2003
Client:	City of Rochester	Elevation:	518.38	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Snow +/- 20 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
	1.0/1.0	3.5	1	0-4	Dark Brown/Black Silty SAND, trace fine Gravel and Cinders	1.2
					Red Brown Silty fine SAND, little Clay, moist	2.1
					s.a.a., Brown, with lenses of fine to medium Dark Brown Sand (fill)	
	1.0/1.1	3.0	2	4-8	Light Brown fine to medium Silty SAND, rust striations, wet	
5						
	1.0/1.0	2.0	3	8-12		
10					@ 10' rust color	11.6
					Gray Silty fine to medium SAND, wet	12.0
					Refusal E.O.B.	
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

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Test Boring No B-113

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/15/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/15/2003
Client:	City of Rochester	Elevation:	518.92	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Snow +/- 20 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information / Remarks	
0	PID	Rec.	No.	Depth		
	0.7/0.7	2.9	1	0-4	Dark Brown/Black Silty fine to medium SAND, little fine Gravel, trace Cinders and Glass, dry to moist (fill)	1.0
					Brown to Light Brown fine to medium Silty SAND, little fine Gravel, moist	2.0
					s.a.a. no Gravel, rust striations	
	0.7/0.7	3.0	2	4-8		
5						6.4
					Red Brown CLAY, moist	6.8
					Brown fine to medium SAND, some fine to coarse Gravel, wet	
	0.7/0.8	2.4	3	8-12	s.a.a. Brown/Gray	
10						12.0
					Refusal E.O.B.	
15						
20						

Notes:
1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No.B-114

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/15/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/15/2003
Client:	City of Rochester	Elevation:	520.35	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Snow +/- 20 deg..	Supervisor:	D. Gnage

0	SAMPLE PID	Rec.	No.	Depth	Soil Information / Remarks	
	0.9/0.9	2.4	1	0-4	Dark Brown Silty fine to medium SAND, trace fine Gravel, moist, topsoil	0.5
					Brown Silty fine to medium SAND, little fine Gravel, trace Cinders and Brick, moist	1.8
					Light Brown fine to medium SAND, some Silt, moist	
	0.9/1.4	3.0	2	4-8		
5					s.a.a. Brown, wet to moist	
	0.9/1.4	1.5	3	8-12	wet	
10						11.0
					Red Brown Clay, moist	11.4
					Gray fine to medium SAND, little Silt and fine to coarse Gravel, moist (till)	12.0
15						
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Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No.B-115

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/15/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/15/2003
Client:	City of Rochester	Elevation:		Drilling Method:	Earthprobe
Location:	see figure	Weather:	Snow +/- 20 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information / Remarks	
0	PID	Rec.	No.	Depth		
	0.9/0.9	2.0	1	0-4	Topsoil	0.3
					Brown fine to medium SAND, some Silt, little fine to coarse Gravel, moist, trace Cinder, Ash and Brick	1.7
					Light Brown/Orangish Silty SAND, moist	
	0.9/0.9	3.5	2	4-8		5.1
5					Gray/Brown Silty fine to medium SAND, rust striations, moist to wet	
	0.9/0.9	1.1	3	8-11.9		
10						
					Gray/Brown fine to medium SAND, some fine to coarse Gravel, moist to wet (till)	11.9
					Refusal E.O.B.	
15						
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Notes:
1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN
85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No.B-116

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/16/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/16/2003
Client:	City of Rochester	Elevation:	522.63	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Clear +/- 20 deg.	Supervisor:	D. Gnage

0	SAMPLE PID	Rec.	No.	Depth	Soil Information / Remarks
	0.6/0.6	2.9	1	0-4	Topsoil 0.4
					Brown, fine to medium SAND, little to some Silt, little fine to coarse Gravel, trace Cinder, Ash, Brick, Glass (fill) 2.5
					Brown\Dark Brown Silty fine to medium SAND, trace fine Gravel, moist, organics 4.0
	0.6/0.6	3.8	2	4-8	Light Brown, fine to medium Silty SAND, moist ot wet
5					
					@ 7.7 wet
	0.6/0.6	3.2	3	8-12	
10					
					12.0
					Refusal E.O.B.
15					
20					

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

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85 Metro Park
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(716) 475-1440

Test Boring No.B-117

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/16/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/16/2003
Client:	City of Rochester	Elevation:	519.59	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Clear +/- 20 deg.	Supervisor:	D. Gnage

0	SAMPLE PID	Rec.	No.	Depth	Soil Information / Remarks	
	0.9/1.0	3.0	1	0-4	Topsoil	0.3
					Brown fine to medium SAND, some Silt, trace Cinder and Brick (fill)	1.5
					Light Brown/Brown fine to medium SAND, some Silt, trace organics, rust spotting	
	0.9/0.9	3.0	2	4-8		
5					s.a.a. Brown/gray, wet	
						8.5
	0.9/0.9	3.1	3	8-12	Red Brown CLAY, moist	8.8
					Brown/Gray Brown fine to medium SAND, some Silt, little fine to coarse Gravel, wet (till?)	
10						12.0
					Refusal E.O.B.	
15						
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Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
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(716) 475-1440

Test Boring No.B-118

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/16/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/16/2003
Client:	City of Rochester	Elevation:	528.53	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Clear +/- 20 deg.	Supervisor:	D. Gnage

0	SAMPLE PID	Rec.	No.	Depth	Soil Information Remarks	
	0.0/0.5	3.5	1	0-4	Topsoil	0.3
					Orangish Brown Silty SAND, little fine to coarse Gravel, dry, trace Cinder	2.0
					Brown Silty SAND, moist, trace Black Carbon	2.4
					Black Carbon	
	0.0/0.8	2.1	2	4-8		
5						5.6
					Red Brown Silty CLAY, moist	
						8.3
	0.0/0.0	2.5	3	8-12	Brown SILT, some fine to medium Sand, moist	
					@ 9.6 black wood	10.0
10					Brown Silty fine to medium SAND, moist	
	0.0/0.0	2.2	4	12-16	@ 12.7 s.a.a. Red Brown, moist to wet	
						13.7
					Red Brown Silty Clay, moist to wet	
15						16
					E.O.B.	
20						

Notes:
1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No.B-118R

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/29/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/29/2003
Client:	City of Rochester	Elevation:	528.34	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Clear +/- 20 deg.	Supervisor:	D. Gnage

0	SAMPLE PID	Rec.	No.	Depth	Soil Information Remarks	
	0.2/0.9	3.4	1	0-4	Topsoil (frozen)	0.4
					Light Brown to Brown fine to medium SAND, some Silt, little to trace fine Gravel, trace Cinder and Brick, moist	2.0
					Black Carbon	
	0.2/0.4	2.8	2	4-8		
5						7.0
					Brown/Red Brown fine to medium SAND, some Silt, trace Gravel, moist to wet	8.0
					E.O.B.	
10						
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR-BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No.B-119

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/16/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/16/2003
Client:	City of Rochester	Elevation:	527.05	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Clear +/- 20 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information Remarks	
0	PID	Rec.	No.	Depth		
	0.0/0.0	2.6	1	0-4	Light Brown fine SAND, some Silt, dry	0.3
					Dark Brown fine to medium SAND, some Silt, trace fine Gravel, Brick, Carbon, Moist	1.3
					Black Carbon	2.0
					Gray/Gray Brown Silty Clay, Moist	2.4
					Brown fine to Medium SAND, trace fine Gravel, Brick, dry	
	0.0/0.8	2.3	2	4-8	s.a.a. with Cinders	4.5
5					Black Carbon	5.1
					Brown/Light Brown fine to medium SAND, some Silt, moist	
	0.0/0.0	2.9	3	8-12		
10						10.0
					Rock	10.4
					Brown/Orangish, fine to medium SAND, some Silt, Moist, trace Cinder and Ash	11.5
					Red Brown Silty Clay, moist	12.0
					E.O.B.	
15						
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Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No.B-120

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/16/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/16/2003
Client:	City of Rochester	Elevation:	526.57	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Clear +/- 20 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information Remarks	
0	PID	Rec.	No.	Depth		
	0.0/0.3	3.2	1	0-4	Topsoil, Brown, Silt, little Clay, moist	0.3
					Brown/Orangish Brown fine to medium SAND, some to little Silt, little fine Gravel, trace wood and brick, moist (fill)	2.0
					Dark Brown/Black fine to medium SAND, some Silt, little fine to coarse Gravel, trace Brick, Cinder, Conrete, moist	4.5
	0.0/2.2	1.5	2	4-8	Cinders	5.1
5					Light Brown Silty SAND, moist to wet	8.5
	0.0/0.0	3.0	3	8-12	Red Brown Silty CLAY, trace fine Sand and fine to coarse Gravel, moist	12.0
10						
					E.O.B.	
15						
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Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No.B-121

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/16/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/16/2003
Client:	City of Rochester	Elevation:	527.66	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Clear +/- 20 deg.	Supervisor:	D. Gnage

0	SAMPLE PID	Rec.	No.	Depth	Soil Information / Remarks	
	0.0/0.3	3.1	1	0-4	Topsoil	0.2
					Brown fine to medium SAND, some Silt, little to trace fine Gravel, trace Cinder, Brick, moist	3.0
					s.a.a. No Cinder or Brick	
	0.0/0.3	1.8	2	4-8	s.a.a. Brick, trace "carbon"	5.3
5					Light Brown fine to medium SAND, some Silt, trace organics, moist	
	0.0/0.0	3.0	3	8-12		
10					@ 9' s.a.a. w/rust striations, moist to wet (Native)	12.0
					E.O.B.	
15						
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Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
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(716) 475-1440

Test Boring No.B-122

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/16/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/16/2003
Client:	City of Rochester	Elevation:	527.04	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Clear +/- 20 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information Remarks	
0	PID	Rec.	No.	Depth		
	0.0/0.3	2.7	1	0-4	Topsoil	0.5
					Brown fine to medium SAND, some Silt, little fine to coarse Gravel, trace Ash and Cinder, Carbon	1.5
					Black Carbon	2.1
					Brown/Black fine to medium SAND, some Silt, little Cinder, Brick, Wood, Slag	4.5
	0.0/0.9	2.3	2	4-8	Black Carbon	6.5
5					Brown/Red Brown Silty Clay, moist	9.8
	0.0/0.0	3.2	3	8-12		
10					Brown fine to medium SAND, some Silt, little to trace Cinder and Ash	9.7
					Light Brown/Gray fine to medium SAND, some Silt, moist to wet	10.0
					s.a.a. red brown, trace to little clay	12.0
15						
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Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

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85 Metro Park
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Test Boring No.B-123

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/16/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/16/2003
Client:	City of Rochester	Elevation:	526.91	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Clear +/- 20 deg.	Supervisor:	D. Gnage

0	SAMPLE PID	Rec.	No.	Depth	Soil Information / Remarks	
	0.0/0.3	3.2	1	0-4	Topsoil	0.3
					Brown fine to medium SAND, some Silt, little to trace fine Gravel, trace Cinder @ 2' s.a.a., increase in Cinder, Brick	3.3
5	0.0/0.1	2.7	2	4-8	Black Carbon	
	0.0/0.0	2.0	3	8-12	trace Brick	8.9
10					Brown/Red Brown Silty CLAY, little fine to coarse Gravel, moist	12.0
15					E.O.B.	
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
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Test Boring No. B-124

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/16/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/16/2003
Client:	City of Rochester	Elevation:	526.81	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Clear +/- 20 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
	0.0/1.1	3.3	1	0-4	Topsoil, Brown Silty SAND, trace Root	0.6
					Brown fine to medium SAND, some Silt, little fine to coarse Gravel, trace cinder and brick, moist to dry fill	1.0
					s.a.a., Dark Brown, with Wood	2.0
					s.a.a., Ash, increase in Cinder and Brick @ 3.0' trace Carbon	
	0.0/0.2	2.7	2	4-8		4.5
5					Pulverized Brick with Cinder and Ash	5.0
					Black Carbon	
	0.0/0.4	4.0	3	8-12		8.7
					Red Brown SILT, some fine Sand, little fine Gravel, trace Brick, moist	
10						10.1
					Red Brown Silty CLAY, little to trace fine Gravel, moist	12.0
					E.O.B.	
15						
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Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
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Test Boring No.B-124R

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/29/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/29/2003
Client:	City of Rochester	Elevation:	526.72	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Clear +/- 20 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information Remarks	
0	PID	Rec.	No.	Depth		
	0.3/0.8	3.1	1	0-4	Topsoil	0.4
					Brown to Dark Brown fine to medium SAND, some to little Silt, little fine Gravel, little Cinder and Slag, trace Brick	
	0.1/1.4	2.8	2	4-8		5
5					Black Carbon	
						7.8
					Red Brown Silty CLAY, tract to little fine Sand, moist	8
					E.O.B.	
10						
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
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Test Boring No. PZ-124R-R

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	3/7/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	3/7/2003
Client:	City of Rochester	Elevation:		Drilling Method:	Earthprobe
Location:	1.5' West of B-124	Weather:	Clear +/- 20 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information Remarks	
0	PID	Rec.	No.	Depth		
	1.2/1.6	3.2	1	0-4	Red/brown Silty CLAY, trace fine Sand, dry	0.7
					Cinder, ash, brick, slag (fill)	
						4.0
					E.O.B.	
5						
10						
15						
20						

Notes:
1. PID Model Mini-Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No.B-125

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/16/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/16/2003
Client:	City of Rochester	Elevation:	526.87	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Clear +/- 20 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
	0.0/0.3	3.5	1	0-4	Brown SILT, little fine Sand and Gravel, moist	0.5
					Orange/Brown fine to medium SAND, some to little Silt, dry to moist	1.4
					s.a.a., Dark Brown with Brick and Cinder, Ash, Slag	4
	0.0/0.5	2.0	2	4-8	Orange/Rust fine to medium SAND, some to little Silt, little Brick, Wood, Cinder, Ash	
5					@ 5.8 increase in Cinder	
	NM	0.5	3	8-12	Brick in shoe	
10						12.0
					E.O.B.	
15						
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Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No.B-126

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/17/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/17/2003
Client:	City of Rochester	Elevation:	527.56	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Clear +/- 20 deg.	Supervisor:	D. Gnage

0	SAMPLE PID	Rec.	No.	Depth	Soil Information Remarks	
	0.7/0.8	3.2	1	0-4	Topsoil (frozen)	0.5
					Drum/Rust Silty fine to medium SAND, little fine to coarse Gravel, trace Cinder and Brick	1.2
					Black Carbon @ 2.1 rust striation	
	0.7/0.1	2.9	2	4-8		6.7
5					Red Brown Silty Clay, moist	8.8
	0.7/0.7	3.2	3	8-12	Gray/Brown fine to medium SAND, some Silt, moist to wet, rust striation	12.0
10						
					E.O.B.	
15						
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Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
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Test Boring No.B-126R

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/29/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/29/2003
Client:	City of Rochester	Elevation:	527.56	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Clear +/- 20 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information Remarks	
0	PID	Rec.	No.	Depth		
	0.3/0.6	3.3	1	0-4	Topsoil	0.3
					Light Brown to Brown fine to medium SAND, some Silt, little to trace fine Grave, trace Cinder and Brick, dry to moist	1.8
					Black Carbon	
	0.3/0.5	2.9	2	4-8		
5						
						8.0
					E.O.B.	
10						
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
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(716) 475-1440

Test Boring No.B-127

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/17/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/17/2003
Client:	City of Rochester	Elevation:	526.59	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Clear +/- 20 deg.	Supervisor:	D. Gnage

0	SAMPLE PID	Rec.	No.	Depth	Soil Information Remarks	
	0.5/0.7	3.0	1	0-4	Topsoil	0.4
					Orangish Brown fine to medium SAND, some Silt, little fine to coarse Gravel, moist	4.0
	0.5/0.8	3.0	2	4-8	s.a.a. none to trace fine GRAVEL	
5					@ 6.0 moist to wet	
	0.5/0.5	3.3	3	8-12	s.a.a. trace fine to coarse GRAVEL	9.3
10					Dark Brown fine to medium SAND, some Silt, little to trace fine Gravel	11.0
					Gray Green fine SAND, some Silt, moist	12.0
					E.O.B.	
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
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(716) 475-1440

Test Boring No.B-128

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	1/17/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	1/17/2003
Client:	City of Rochester	Elevation:	526.43	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Clear +/- 20 deg.	Supervisor:	D. Gnage

0	SAMPLE PID	Rec.	No.	Depth	Soil Information Remarks	
	0.8/1.3	3.3	1	0-4	Topsoil	0.2
					Dark Brown fine to med. SAND, little Silt, and fine to coarse Gravel, trace Cinders, dry	0.6
					Orange Brown, fine to medium SAND, some Silt, little fine to coarse Gravel, moist	
	0.8/0.9	3.0	2	4-8	s.a.a., No Gravel, dry to moist	
5						6.2
					s.a.a. trace fine to coarse Gravel	
						8.8
	0.0/0.8	2.9	3	8-12	Gray fine to medium SAND, some Silt, trace fine Gravel and Cinders, moist	9.9
10						
					Light Brown fine to medium SAND, some Silt, moist to wet	
						12.0
					E.O.B.	
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR-BROWN
85 Metro Park
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(716) 475-1440

Test Boring No. PZ-152

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	3/7/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	3/7/2003
Client:	City of Rochester	Elevation:	518.78	Drilling Method:	Earthprobe
Location:	see figure	Weather:	Clear +/- 15 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
	1.0/1.2	2.8	1	0-4	Brown/Black fine to medium SAND and Gravel, little Silt and Cinder, dry (fill)	0.7
					Dark Brown very fine to fine SAND, some Silt, trace roots, moist	1.2
					Brown to light brown very fine to fine SAND, some Silt, rust and gray mottling, moist	
	1.0/1.2	2.9	2	4-8	s.a.a. with trace CLAY	
5					@ 5.8 moist to wet	
					@ 7.8' s.a.a. gray	
	1.0/1.4	2.0	3	8-12	s.a.a. brown/gray, saturated	
10						10.0
					Brown/gray fine to course GRAVEL, some fine to coarse Sand, little Silt, saturated	
	1.0/1.5	0.6	4	12-13		13.0
					E.O.B.	
15						
20						

Notes:

1. PID Model Mini-Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
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(716) 475-1440

Test Boring No. PZ-153

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	3/7/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	3/7/2003
Client:	City of Rochester	Elevation:		Drilling Method:	Earthprobe
Location:	see figure	Weather:	Clear +/- 20 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information
0	PID	Rec.	No.	Depth	Remarks
	1.2/1.4	3.2	1	0-4	Brown fine SAND, some Silt, little Gravel, trace brick and cinder, dry to moist (fill)
					2.5
					Red brown Clayey SILT, little fine Sand, trace fine Gravel 3.0
					Black cinder, ash and slag
	1.2/1.8	2.7	2	4-8	s.a.a. mixed with pulverized brick, concrete, trace to little fine SAND and Silt,
5					moist to dry (fill)
					wood
					7.8
					Gray/brown very fine to fine SAND, some Silt, little brick, cinder, ash, moist
	1.2/1.2	3.1	3	8-12	
10					10.1
					Light brown/tan fine SAND, little Silt, dry to moist (Native?)
					12.0
					E.O.B.
15					
20					

Notes:
1. PID Model Mini-Rae 2000 with 10.6 lamp.

SEAR·BROWN
85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. PZ-154

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	3/7/2003
Project #:	16835.08	Driller:	Eric	Completion Date:	3/7/2003
Client:	City of Rochester	Elevation:		Drilling Method:	Earthprobe
Location:	see figure	Weather:	Clear +/- 20 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information
0	PID	Rec.	No.	Depth	Remarks
	1.2/1.4	2.4	1	0-4	Brown, fine to medium SAND, some Silt, little to some fine to coarse Grave, moist (fill)
					4.0
	1.2/1.6	2.7	2	4-8	Black CINDER, some brick and ash, little Slag, dry, possible trace Carbon
5					
	1.2/1.4	3.0	3	8-12	
					9.5
10					Brown/light brown fine SAND, little Silt, moist (Native)
					12.0
					E.O.B.
15					
20					

Notes:
1. PID Model Mini-Rae 2000 with 10.6 lamp.

SEAR·BROWN
85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. B-155

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	4/1/2003
Project #:	16835.08	Driller:	Jim	Completion Date:	4/1/2003
Client:	City of Rochester	Elevation:		Drilling Method:	Earthprobe
Location:	see figure	Weather:	Overcast +/- 25 de	Supervisor:	D. Gnage

	SAMPLE				Soil Information	
	PID	Rec.	No.	Depth	Remarks	
	0.0/0.0	2.0	1	0-4	topsoil, Brown SILT , trace fine Gravel, moist	0.5
					Brown SILT, some to little fine Sand, little to trace fine Gravel, trace brick and Cinder and Ash, oxidation/rust coloring	
	0.0/0.0	2.0	2	4-8	s,a,a, increase in cinder, trace slag	
5						6.0
					Red Brown Clayey SILT, moist	6.4
					Brown fine to medium SAND, little to some Silt, moist to wet	8.0
					E.O.B.	
10						
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. B-156

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	4/1/2003
Project #:	16835.08	Driller:	Jim	Completion Date:	4/1/2003
Client:	City of Rochester	Elevation:		Drilling Method:	Earthprobe
Location:	see figure	Weather:	Overcast +/- 20 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
	0.0/0.0	1.4	1	0-4	Brown SILT, trace fine Sand, Topsoil	0.5
					Brown Silty fine SAND, little to trace fine Gravel, trace slag and cinder	4.2
	0.0/0.0	4.0	2	4-8	Red Brown Silty CLAY, rust mottling	5.2
5					Brown fine to medium SAND, some Silt, moist	6.5
					s.a.a. increase in Silty, little Clay	8.0
					E.O.B.	
10						
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No.B-157

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	4/1/2003
Project #:	16835.08	Driller:	Jim	Completion Date:	4/1/2003
Client:	City of Rochester	Elevation:		Drilling Method:	Earthprobe
Location:	see figure	Weather:	Snow +/- 30 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
	0.0/106	2.2	1	0-4	Topsoil	0.2
					Brown fine to medium SAND, some Silt, little to trace Cinder, Slag and Brick	1.5
					Brick	1.7
					s.a.a.	1.9
					Light Brown Clayey SILT, little fine to medium SAND, trace fine Gravel, moist	4.0
5					E.O.B.	
10						
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. B-157R

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	4/1/2003
Project #:	16835.08	Driller:	Jim	Completion Date:	4/1/2003
Client:	City of Rochester	Elevation:		Drilling Method:	Earthprobe
Location:	see figure	Weather:	Snow +/- 30 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
	0.0/6.1	2.6	1	0-4	Topsoil	0.4
					Brown fine to medium SAND, some Silt, little fine Gravel, moist trace Cinder and Brick	1.2
					s.a.a. increase in cinder and brick, ash, slag	2.5
					Red/brown Silty fine SAND	
	0.0/8.4	3.5	2	4-8		
5						5.2
					Brown to light brown fine to medium SAND, some Silt, moist to wet	
	0.0/4.8	3	3	8-12		
10						11.1
	0.0/1.7				Red/Brown CLAY	11.3
					Red/Brown fine to medium SAND, some Silt, moist to wet @ 11.5 oxidation lense	12.0
					E.O.B.	
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. B-158

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	4/1/2003
Project #:	16835.08	Driller:	Jim	Completion Date:	4/1/2003
Client:	City of Rochester	Elevation:		Drilling Method:	Earthprobe
Location:	see figure	Weather:	Snow +/- 30 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
	0.0/0.0	4.0	1	0-5	Topsoil	0.2
					Brown Silty fine SAND, trace Clay	
5						4.8
	0.0/0.0	3.5	2	5-9	s.a.a. trace brick and cinder	5.7
					Brown fine to medium SAND, some Silt, moist	7.5
					s.a.a. little to trace CLAY	9.0
10					E.O.B.	
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. B-159

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	4/1/2003
Project #:	16835.08	Driller:	Jim	Completion Date:	4/1/2003
Client:	City of Rochester	Elevation:		Drilling Method:	Earthprobe
Location:	see figure	Weather:	Snow +/- 30 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
	0.0/0.0	3.1	1	0-4	Topsoil	0.2
					Light Brown fine to medium GRAVEL, little Silt	0.6
					Dark Brown/Black, SILT, some fine Sand, little wood, trace slag, cinder, concrete (peat-like)	2.2
					Brick	2.5
					Cinder, Brick, Slag	
		4.0	2	4-8		4.2
5	0.0/535			4.2-4.5	Black, plastic-like substance, petro -odor	4.5
					Brown/Gray SILT, fine Sand, little to some brick and cinder, moist to wet	
	0.0/13.6			4.5-5.5		5.5
					Red Brown Silty CLAY, moist	
						8.0
					E.O.B.	
10						
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. B-160

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	4/1/2003
Project #:	16835.08	Driller:	Jim	Completion Date:	4/1/2003
Client:	City of Rochester	Elevation:		Drilling Method:	Earthprobe
Location:	see figure	Weather:	Clear +/- 30 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
	0.0/2.8	4.0	1	0-4	Topsoil	0.2
					Light brown fine to medium SAND, with pockets of Red Brown Clay	2.0
					Dark Brown/Black, Silty fine to medium SAND, little fine Gravel, little slag, ash, cinder, brick	
	0.0/48.1	1.5	2	4-8	s.a.a., with wood, glass, rust coloring, ash	
5						8.1
	0.0/7.2	1.6	3	8-12	Gray Silty fine to medium SAND, moist to wet	
10						12.0
					E.O.B.	
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. B-161

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	4/1/2003
Project #:	16835.08	Driller:	Jim	Completion Date:	4/1/2003
Client:	City of Rochester	Elevation:		Drilling Method:	Earthprobe
Location:	see figure	Weather:	Snow +/- 30 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
	0.0/3.1	3.8	1	0-4	Topsoil	0.2
					Brown to light Brown Silty SAND, little fine Gravel, little to trace Cinder and Brick	2.2
					increase in Cinder and Brick, trace Carbon	3.0
					Brick	3.2
					Black Carbon	4.0
					E.O.B.	
5						
10						
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. B-162

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	4/1/2003
Project #:	16835.08	Driller:	Jim	Completion Date:	4/1/2003
Client:	City of Rochester	Elevation:		Drilling Method:	Earthprobe
Location:	see figure	Weather:	Snow +/- 30 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
	0.0/7.8	4.0	1	0-4	Topsoil	0.4
					Brown, Silty SAND, little fine Gravel, trace to little Cinder, A	2.1
					Black Cinder	2.5
					Black Carbon	2.7
					Pulverized Brick and Ash	2.9
					Black Carbon	4.0
5						
10						
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. B-163

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	4/1/2003
Project #:	16835.08	Driller:	Jim	Completion Date:	4/1/2003
Client:	City of Rochester	Elevation:		Drilling Method:	Earthprobe
Location:	see figure	Weather:	Snow +/- 30 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
	0.0/4.0	3.6	1	0-4	Topsoil	0.3
					Brown/Dark Brown Silty find SAND, little fine Gravel, trace glass and ash	2.0
					s.a.a. some Black Carbon, trace Cinder	2.6
					Brown/Black fine SAND and Silt, some cinder, ash, slag, brick	3.4
					Brick	3.6
					Black Carbon	4.0
					E.O.B.	
5						
10						
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. B-164

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	4/1/2003
Project #:	16835.08	Driller:	Jim	Completion Date:	4/1/2003
Client:	City of Rochester	Elevation:		Drilling Method:	Earthprobe
Location:	see figure	Weather:	Snow +/- 30 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
	0.0/8.6	1.1	1	0-4	Topsoil	0.3
					Brown fine to medium SAND, some Silt, little fine Gravel	1.2
					s.a.a. Gray/Brown, trace Cinder	1.7
					Black Carbon	2.7
					Tan Silty Clay	3.2
					Cinder, ash and Brick, slight odor	
						4.2
	NM	2.2	2	4-8	Carbon	
5						
						8.0
10						
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. B-165

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	4/1/2003
Project #:	16835.08	Driller:	Jim	Completion Date:	4/1/2003
Client:	City of Rochester	Elevation:		Drilling Method:	Earthprobe
Location:	see figure	Weather:	Snow +/- 30 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
	0.0/5.7	3.1	1	0-4	Topsoil	0.2
					Brown fine to medium SAND, some to little Silt, trace fine Gravel, trace to no cinder	1.2
					Cobble	1.4
					Black Carbon	2.3
					Brown CLAY, little Silt	2.4
					Black Cinder and ash	
	0.0/29.9	2.2	2	4-8	Slight coal, tan, odor	4.8
5					Black carbon	
						8.0
					E.O.B.	
10						
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. B-166

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	4/1/2003
Project #:	16835.08	Driller:	Jim	Completion Date:	4/1/2003
Client:	City of Rochester	Elevation:		Drilling Method:	Earthprobe
Location:	see figure	Weather:	Snow +/- 30 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
	0.0/8.7	3.3	1	0-4	Topsoil	0.4
					Brown fine to medium SAND, some Silt, trace cinder, ash, brick	1.1
					s.a.a. increase in cinder, trace carbon	2.1
					Black Carbon	2.8
					Gray/Tan Silty CLAY, some cinder and ash	3.1
					No cinder and ash	4.0
	0.0/1.9	2.8	2	4-8	Black carbon	
5						8.0
				8-12	E.O.B.	
10						
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. B-167

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	4/1/2003
Project #:	16835.08	Driller:	Jim	Completion Date:	4/1/2003
Client:	City of Rochester	Elevation:		Drilling Method:	Earthprobe
Location:	see figure	Weather:	Snow +/- 30 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
	0.0/3.2	3.6	1	0-4	Topsoil	0.9
					Brown fine to medium SAND, some Silt, little to trace fine gravel little cinder, ash, slag, glass	2.0
					Black carbon	4.0
5					E.O.B.	
10						
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. B-168

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	4/1/2003
Project #:	16835.08	Driller:	Jim	Completion Date:	4/1/2003
Client:	City of Rochester	Elevation:		Drilling Method:	Earthprobe
Location:	see figure	Weather:	Snow +/- 30 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
	0.0/5.2	3.3	1	0-4	Topsoil	0.4
					Brown to light brown fine to medium SAND, some Silt, little to trace fine Gravel, trace cinder, ash, slag	1.5
					Black carbon	4.0
5					E.O.B.	
10						
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. B-169

Project:	Brooks Landing	Drill Contractor:	Nature's Way	Start Date:	4/1/2003
Project #:	16835.08	Driller:	Jim	Completion Date:	4/1/2003
Client:	City of Rochester	Elevation:		Drilling Method:	Earthprobe
Location:	see figure	Weather:	Snow +/- 30 deg.	Supervisor:	D. Gnage

	SAMPLE				Soil Information	
0	PID	Rec.	No.	Depth	Remarks	
	0.0/1.1	4.0	1	0-4	Topsoil	0.2
					Brown fine to medium SAND, some Silt, little Gravel, tract to little Cinders	1.0
					Light Brown/Orange fine to medium SAND, little Silt	4.0
5					E.O.B.	
10						
15						
20						

Notes:

1. PID Model: Mini- Rae 2000 with 10.6 lamp.

APPENDIX B

SEWER USE PERMIT INFORMATION

PETROLEUM IMPACTED WATER
RULES AND REGULATIONS

1) An Initial Sewer Use Permit or Initial Industrial User Permit is required for discharges to the Monroe County Sewer System or Wastewater Treatment Plant respectively. The permit fee is $40.00 (payable to the Director of Finance, County of Monroe).

2) The following conditions shall apply to this permit:

   a) Required analytical testing of wastewater (Exhibit "C") shall be submitted to this office for review prior to discharge.

   b) The Monroe County limit for the summation of all purgeable halocarbons, aromatics, and polynuclear aromatic hydrocarbons (with a detection level greater than 10 ug/l) is 2.13 mg/l.

   c) Required testing includes, but is not limited to:
      (1) Gasoline impacted water - method 602 or equivalent 40 CFR 136 method; and

      Methyl Tertiary Butyl Ether (MTBE) - monitoring only. Limit not applicable at this time.

      (2) Diesel or Fuel Oil impacted water - method 610 or equivalent 40 CFR 136 method.

   d) The applicant must identify a suitable sanitary sewer discharge point. Monroe County will confirm the discharge point in the City of Rochester and the Towns of Gates, Chili and Ogden. Should the applicant be working in a location NOT described above, it will be the applicant's responsibility to contact the applicable Town and/or Village for similar service. The Towns/Villages of Webster, Scottsville, Churchville, Honeoye Falls, and Spencerport are NOT part of the Monroe County Sewer System.

   e) A maximum of 10 gpm discharge rate is permitted. Approval must be received from the appropriate agency (noted above) to exceed this rate.

   f) Monroe County will conduct a field inspection of the site and issue a permit pending the completion and/or submission of all required information.

APPLICATION PROCEDURE

1) The applicant must submit a letter requesting permission to discharge and a completed permit application. The letter must contain the information listed in item #2 below.

2) The following information is required before considering a request for discharge:
   a) Contractor or environmental representative name
   b) Contact person name, phone #, pager #, fax #
   c) Site name, address
   d) Description of site work
   e) Former/current contents of underground storage tanks and/or material spilled
   f) Quantity of wastewater to be discharged
   g) Method of treatment (if applicable)
   h) Method to control solids discharge (if applicable)
   i) Expected date of discharge
   j) Project duration

3) Pure Waters, under Section 57 of the Worker's Compensation Law and Section 220 - Subdivision 8 of the Disability Benefits Law, is required to have on file proof that your company has worker's compensation and disability benefits for your employees. A form from your insurance carrier stating such coverage will thus be required before your permit can be processed.

4) A check, for the initial permit fee of $40.00, should be made payable to the Director of Finance, County of Monroe. The request to discharge letter, the application, the insurance form and the check should be mailed to:

   County of Monroe - Division of Pure Waters
   Industrial Waste Section
   444 E. Henrietta Road
   Rochester, New York 14620

   As an alternative - the request to discharge letter, the completed application and the insurance form may be faxed to (716) 324-1213. The check may be given to the inspector at time of field inspection.

5) Monroe County will schedule an inspection of the site upon receipt of the above listed material.

6) Please call the Industrial Waste Control Section at 760-7600, Option #4, for additional information.

□

SEWER USE PERMIT

County of Monroe Pure Waters District No. _____ Permit No:_____

Expires: _____

Fee: $40.00

Firm Name_____

Address_____

_____

Type of Business or Service_____

I. The above-named applicant is permitted to discharge wastes into the Pure Waters Sewer system or Tributary thereto as applied for by an application dated_____ and verified by the applicant except the Director of Pure Waters requires the following terms and conditions to govern the permitted discharge:

A._____

B._____

C._____

II. The applicant further agrees to:

1. Accept and abide by all provisions of the Sewer Use Law of Monroe County and of all pertinent rules or regulations now in force or shall be adopted in the future.

2. Notify the Director of Pure Waters in writing of any revision to the plant sewer system or any change in industrial wastes discharge to the public sewers listed in Exhibit "B". The latter encompasses either (1) an increase or decrease in average daily volume or strength of wastes listed in Exhibit "B" or (2) new wastes that were not listed in Exhibit "B".

3. Furnish the Director of Pure Waters upon request any additional information related to the installation or use of sewer or drain for which this permit is sought.

4. Operate and maintain any waste pretreatment facilities, as may be required as a condition of the acceptance into the public sewer of the industrial wastes involved, in an efficient manner at all times, and at no expense to the County.

5. Cooperate with the Director of Pure Waters or his representatives in their inspecting, sampling, and study of wastes, or the facilities provided for pretreatment.

6. Notify the Director of Pure Waters immediately of any accident, negligence, breakdown of pretreating equipment, or other occurrence that occasions discharge to the public sewers of any wastes or process waters not covered by this permit.

Applicant's Signature _____Date_____

Applicant's Title _____

Emergency Contact _____Phone _____

Permit Approved by_____Date_____
Director of Pure Waters

☐