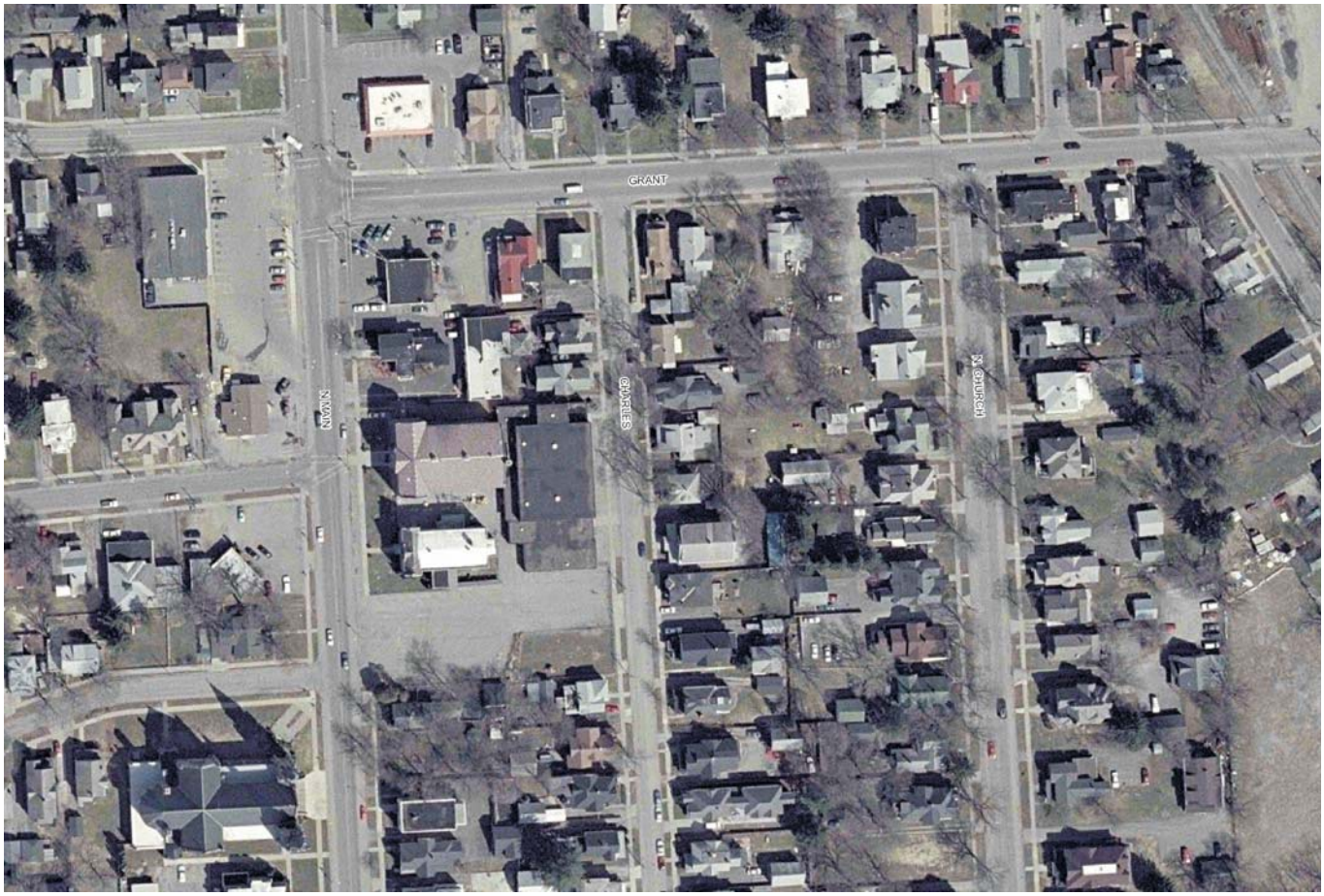
NYSEG

New York State Electric & Gas Corporation

Former Off-site Gasholder Associated
with the Homer Former MGP Site
Cortland, New York

REMEDIAL INVESTIGATION REPORT
MARCH 2009



Prepared For:
New York State Electric & Gas Corporation
Kirkwood Industrial Park
Kirkwood, New York

URS

URS Corporation - New York

REMEDIAL INVESTIGATION REPORT

NYSEG –FORMER OFF-SITE GASHOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE

SITE #7-12-012

CORTLAND, NEW YORK

PREPARED FOR:

NEW YORK STATE ELECTRIC & GAS

KIRKWOOD INDUSTRIAL PARK

KIRKWOOD, NEW YORK

PREPARED BY:

URS CORPORATION

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BUFFALO, NEW YORK 14203

MARCH 2009

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ABBREVIATIONS

Agencies

NRCS	Natural Resources Conservation Service
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
USEPA	United States Environmental Protection Agency
USDA	United States Department of Agriculture

Units of Measure

amsl	Above Mean Sea Level
bgs	Below Ground Surface
g	Gram
k	Kilo (prefix for one thousand)
kg	Kilogram
L	Liter
m	Milli (prefix for one-thousandth)
µ	Micro (prefix for one-millionth)
µg	Microgram
µg/kg	Micrograms per Kilogram
mg	Milligram

Regulatory

ELAP	Environmental Laboratory Approval Program
RAGS	Risk Assessment Guidance for Superfund
TOGS	Technical and Operational Guidance Series

Environmental

ASP	Analytical Services Protocol
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
CPC	Contaminant of Potential Concern
DNAPL	Dense Non-aqueous Phase Liquid
LNAPL	Light Non-aqueous Phase Liquid
NAPL	Non-aqueous Phase Liquid
NOD	Natural Oxident Demand
PAH	Polycyclic Aromatic Hydrocarbon
PID	Photoionization Detector
PSOD	Permanganate Soil Groundwater Oxidant Demand
SCOs	Recommended Soil Clean-up Objectives
SCGs	New York State Standards, Criteria, and Guidelines
SVOC	Semi-volatile Organic Compound
TCL	Target Compound List
TOC	Total Organic Carbon
VOC	Volatile Organic Compound

Miscellaneous

HEAST	Health Effects Assessment Summary Tables
H&CGL	Homer & Cortland Gas Light Company
HHEA	Human Health Exposure Assessment
IRIS	Integrated Risk Information System
MGP	Manufactured Gas Plant
NewFields	NewFields Environmental Forensics Practice
NYSEG	New York State Electric & Gas
PbA	Palmyra gravelly silt loam
PSA	Preliminary Site Assessment
RI	Remedial Investigation
STL	Severn Trent Laboratories
URS	URS Corporation

EXECUTIVE SUMMARY

URS Corporation (URS), on behalf of New York State Electric & Gas Corporation (NYSEG), is pleased to present this *Remedial Investigation Report* to the New York State Department of Environmental Conservation (NYSDEC). The report summarizes investigation work completed in May 2008 at NYSEG's former off-site gasholder site associated with the Homer former Manufactured Gas Plant (MGP) site in the City of Cortland, Cortland County, New York. Previous work completed by URS at the site (in November 2005, April 2006, June 2006, November 2006, and March 2007) was summarized in a *Preliminary Site Assessment Report*, prepared by URS and submitted to the NYSDEC October 4, 2007. Historical data has been combined with data obtained during this investigation to generate a comprehensive summary of findings at the site. The NYSDEC's identification number for the Cortland site is 7-12-012. This report and all the work completed at the site to date is intended to address the requirements under Subparagraph IV (4) of the Order on Consent. NYSEG is investigating this site at the request of the NYSDEC who discovered the possible existence of a former gasholder while reviewing historic Sanborn maps of the Cortland area. The objective of the investigation was to determine if physical remnants of the former gasholder or any associated piping remain onsite and to establish the nature and extent of environmental contaminants, if any, resulting from the operation of the former gasholder.

SITE DESCRIPTION AND HISTORY

In 1858, the Homer & Cortland Gas Light Company (H&CGL) constructed and operated a MGP at what is now 216 South Main Street (Route 11) in the Village of Homer, Cortland County, New York. Coal gas and carbureted water gas were produced at the MGP from 1858 until 1932. Based on the property deed, as recorded in Liber 43/Page 574 of the City of Cortland records, in May 1867 H&CGL acquired one third of an acre of land, in the City of Cortland, and constructed a 22,000 cubic foot gasholder on the property (the site) as part of a distribution network for the MGP. Presently, there are two (2) vacant two-story residences occupying the study area, each with their own one-car garage.

OBJECTIVE OF THE REMEDIAL INVESTIGATION

The objective of the Remedial Investigation (RI) was to: 1) to determine the horizontal and vertical extent of potentially MGP-impacted surface and subsurface soils at the properties; and 2) to determine if groundwater is impacted with MGP wastes; 3) assess and evaluate the potential impacts on soil vapor and indoor air at 43 and 45 Charles Street; and 4) to complete a Remedial Investigation (RI) report for all of the data collected at the properties to date. The RI will provide sufficient information to allow for a Feasibility Study (FS) to be completed as the next step in the remedial process.

CONCLUSIONS

Site Geology

Reworked soil and urban fill materials were generally present to depths up to 1.5 feet below ground surface (bgs) across the entire site. In the central western area of the site (i.e, northwest portion of 43 Charles Street, southwest portion of 45 Charles street, and extending approximately 15 feet west into Charles Street), soils consisted primarily of reworked brown to gray brown clayey silt with cobbles and gravel and ash to approximately 6 feet bgs. At approximately 6 feet bgs significantly more fill materials including glass, bottles, bricks, firebrick, ash, cinder, coal, and metal pipe were encountered. The fill debris extended to depths ranging from approximately 10 to 13 feet bgs. At the base of the fill layer a darkly stained silt and ash layer, ranging from 1-inch to 1-foot in thickness, and exhibiting a slight odor was present in most borings. The odors observed ranged from a musty decay like odor, to a mild to moderate naphthalene-like odor typical of MGP sites.

Across the remaining portions of the site (i.e., the northern half of 45 Charles street, the southern half of 43 Charles Street, and the eastern half of both properties) the uppermost soils consisted primarily of brown clayey silt with cobbles and coarse gravel to approximately 12 to 16 feet bgs and were generally moist, non-plastic, and medium dense with no obvious layering features. Beneath this unit was gray brown silty sand and gravel. Groundwater was observed between approximately 14 and 15 feet bgs and a low horizontal gradient of approximately 0.002 foot/foot was indicated, with a flow direction towards the east.

Subsurface Soil Analytical Results

Volatile organic compounds (VOCs) were detected at concentrations exceeding the applicable New York State Standards, Criteria, and Guidelines (SCGs) in only one of the samples collected, at SB-14 from 11 to 12 feet bgs, where ethylbenzene and xylene were each detected at a concentration exceeding their respective SCGs.

Total semi-volatile organic compound (SVOC) concentrations were more elevated than elsewhere on the site in the northwest portion of 43 Charles Street, southwest portion of 45 Charles Street, and extending approximately 15 feet into Charles Street. This is the area where fill debris, consisting primarily of ash and cinder, was encountered and was underlain, between the depth of 9 to 12 feet bgs, by the thin (1 foot or less) darkly stained silt and ash layer exhibiting a slight to moderate odor. Generally, observed concentrations decreased substantially in soils beneath the stained silt and ash layer (approximately 12 to 20 feet bgs). No SVOCs were detected at concentrations exceeding SCGs, at depths ranging from 6 to 15 feet bgs, beneath the driveway north of 45 Charles Street (SB-21 and SB-22), beneath the driveway south of 43 Charles Street (SB-18 and SB-19), or across Charles Street from the site (SB-28), indicating that the northern, southern, and western extent of SVOC contamination has been horizontally delineated. No SVOCs were detected at concentrations exceeding SCGs in 10 of the 11 samples collected on the eastern half of the two properties at depths from 10 to 24 feet bgs. At the only exception, SB-04, located at the northeast corner of 43 Charles Street, a sample from 12 to 13.5 feet bgs exhibited total SVOCs of 11,970 micrograms per kilogram (µg/kg) and five compounds were detected at concentrations slightly exceeding their respective SCGs. The isolated nature and very low concentrations of SVOCs on the eastern portion of the site indicate the eastern extent of SVOCs has been delineated. No SVOCs exceeded SCGs in any sample collected from the water bearing silty fine to coarse gravel observed across the site at an approximate depth of 16 feet bgs. Decreases in SVOC concentrations with depth coupled with the absence of impacts to groundwater in the vicinity indicate that the vertical extent of contamination has been adequately delineated. Four borings (SB-23 through SB-26) were advanced along utility service lines to each residence to evaluate their potential as a contaminant migration pathway. Total SVOC concentrations were generally consistent with those observed elsewhere on the site, exhibiting concentrations typical of the site backfill materials. Borings SB-23, SB-24, and SB-26 exhibited total SVOC concentrations ranging from 1,603 µg/kg to 4,654 µg/kg. At boring SB-25, located in the area where ash backfill is present, total SVOCs were 109,800 µg/kg.

Groundwater Analytical Results

Results were non detect for all parameters, except for the metals, which were consistent in all four samples. Only iron and sodium were detected at concentrations above NYSDEC groundwater quality criteria. Neither metal is a concern because they likely represent naturally occurring background concentrations.

Surface Soil Analytical Results

Generally, the occurrence of elevated SVOCs/polycyclic aromatic hydrocarbons (PAHs) is isolated and scattered and reflective of heterogeneous nature of soils in urban settings. The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene were detected at concentrations exceeding SCGs at one or more locations.

Indoor Air and Subslab Sample Analytical Results

Volatile organic compounds were present in the indoor air of both homes at levels consistent with homes not affected by environmental contamination. The results indicate that these compounds are also present in the soil vapor beneath both of the homes, but not at levels that are expected to have a significant impact on indoor air quality.

FATE AND TRANSPORT

VOCs (ethylbenzene and xylene), SVOCs (PAHs and dibenzofuran), and metals were detected in subsurface soils at the site at levels above SCGs. Infiltration-induced downward migration of VOCs and SVOCs is unlikely to be a significant transport process at the site, since results of groundwater samples collected at the site indicate no impacts to the underlying saturated zone. For metals, the solubility and the resulting extent of the migration will vary, as their solubility in water is determined primarily by the pH of the environment. Migration of contaminants through the gas phase, either in the soil vapor or in the atmosphere, is likely to be of little significance since results of soil vapor/air samples collected at the site indicate no significant impact to indoor/outdoor air. While some migration of surface soil contaminants may occur via erosional processes, this process will be significantly limited by the residential structures, paved surfaces,

vegetation cover, and flat topography at the site. Rates of contaminant degradation in the unsaturated zone are expected to be relatively low. While VOCs may degrade, other organic compounds detected in the unsaturated zone at the site are relatively non-degradable and are likely to persist. Metals are recalcitrant.

No MGP-related VOCs or SVOCs were present above detectable levels in groundwater samples collected at the site. The presence of iron and sodium in groundwater at concentrations exceeding SCGs is attributable to background geological conditions. There is no evidence that migration of SVOCs from soil to groundwater is occurring at the site.

QUALITATIVE HUMAN HEALTH EXPOSURE ASSESSMENT

Under the current use scenario, contractors and trespassers may be exposed to surface soil contamination. Under the future use scenario, residents, contractors, and trespassers may be exposed to surface soil contamination. Under both scenarios, exposure pathways for all other potentially contaminated media are considered to be incomplete.

1.0 INTRODUCTION

URS Corporation (URS), on behalf of New York State Electric & Gas Corporation (NYSEG), is pleased to present this *Remedial Investigation Report* to the New York State Department of Environmental Conservation (NYSDEC). The report summarizes investigation work completed in May 2008 at NYSEG's former off-site gasholder site (located in the City of Cortland, Cortland County, New York) associated with the Homer former Manufactured Gas Plant (MGP) site (located in the Village of Homer, Cortland County, New York). Previous work completed by URS at the site (in November 2005, April 2006, June 2006, November 2006, and March 2007) was summarized in a *Preliminary Site Assessment Report*, prepared by URS and submitted to the NYSDEC October 4, 2007. Historical data has been combined with data obtained during this investigation to generate a comprehensive summary of findings at the site. The location of the site in relation to the former MGP site is shown in Figure 1-1. The NYSDEC's identification number for the Cortland site is 7-12-012. This report and all the work completed at the site to date is intended to address the requirements under Subparagraph IV (4) of the Order on Consent.

NYSEG is investigating this site at the request of the NYSDEC who discovered the possible existence of a former gasholder while reviewing historic Sanborn maps of the Cortland area. The maps indicated the same company who owned the Homer MGP site also operated the remote gasholder. The objective of the investigation was to determine if physical remnants of the former gasholder or any associated piping remain onsite and to establish the nature and extent of environmental contaminants, if any, resulting from the operation of the former gasholder.

1.1 Site Background

This section provides a site description, a brief history of MGP operations at the site, and a summary of previous investigations. The information described below was either provided by NYSEG or learned through review of publicly available documents.

1.1.1 Site Description and History

In 1858, the Homer & Cortland Gas Light Company (H&CGL) constructed and operated a MGP at what is now 216 South Main Street (Route 11) in the Village of Homer, Cortland County, New York. Coal gas and carbureted water gas were produced at the MGP from 1858 until 1932. Based on the property deed, as recorded in Liber 43/Page 574 of the City of Cortland records, in May 1867 H&CGL acquired one third of an acre of land, in the City of Cortland, and constructed a 22,000 cubic foot gasholder on the property (the site) as part of a distribution network for the MGP. Figure 1-1 shows the site location in relation to the former MGP. Historical records and Sanborn maps indicate that the remote gasholder was located at the approximate location shown on Figure 1-2. Historical records also indicate that in July 1867, H&CGL acquired the rights from a property east of the site to install a gas pipeline extending from the former gasholder east through the property (eight feet south of a house) to North Church Street.

New York State Gas and Electric (a predecessor to NYSEG) acquired the MGP on Route 11 from H&CGL in 1911. In February 1913, H&CGL sold the one third of an acre upon which the gasholder was located to Edward S. Dalton and L.R. Chase. Sanborn maps from 1915 and 1926 indicate the gasholder was no longer present and the residences currently located at 43 and 45 Charles Street existed at that time. Based on the information available, the site boundary has been approximated as the property lines of 43 and 45 Charles Street and is depicted on Figure 1-2.

1.1.2 Previous Investigations

The area surrounding the site is an urban setting and has been for well over 100 years. No investigation work, that NYSEG or URS is aware of, was completed at the site prior to the Preliminary Site Assessment (PSA). The objective of the PSA was to determine if physical remnants of the former gasholder or any associated piping remain onsite and to determine the nature and extent of environmental contaminants, if any, resulting from the operation of the former gasholder. The PSA was performed in phases, which are discussed below.

In November 2005, the first phase of work was completed in general accordance with the *Investigation Work Plan* for the site submitted to the NYSDEC and approved in October 2005. The initial scope consisted of the following seven tasks:

- Task 1 – Geophysical Survey
- Task 2 – Test Trench Excavation
- Task 3 – Geoprobe® Soil Borings
- Task 4 – Monitoring Well Installation (including development)
- Task 5 – Groundwater Sampling
- Task 6 – Soil Vapor/Indoor Air Sampling
- Task 7 – Site Survey

All Tasks with exception of Task 6, were completed by November 2005 and the results were summarized in a letter report submitted to the NYSDEC on February 13, 2006. NYSDEC reviewed the report and, subsequent to discussions with NYSEG and URS, requested four additional soil borings to further delineate the western boundary of soil contamination. Also, NYSDEC requested the collection of six surface soil samples for laboratory analysis, one from each of the front yards at 43 and 45 Charles Street and two from the backyard at each property. Additionally, the homeowner at 45 Charles Street requested that NYSEG investigate and collect samples from several discolored stones present in the basement wall, which is of stone and mortar construction. NYSEG agreed to investigate the discolored stones and subsequently collected samples (SCRAPE-01 through SCRAPE-03) during the investigation in June 2006. The additional investigation tasks were completed and summarized in a letter report dated September 26, 2006.

Subsequently, Task 6 (Indoor Air and Subslab Soil Vapor Sampling) was completed in November 2006 and March 2007. Previous investigation sampling locations are shown on Figure 1-2. A *Preliminary Site Assessment Report* summarizing the findings of investigations completed between November 2005 and March 2007 was completed and submitted to the NYSDEC on October 4, 2007. Conclusions that were reached in the report are listed below:

- The site area is situated in an urban setting and filling operations associated with anthropogenic activities have occurred over and beyond the past 100 years. The exact origin of the fill could not be differentiated as part of the investigation.

- Volatile organic compounds (VOCs) were detected at concentrations exceeding the soil cleanup objectives (SCOs) presented in 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential, in only one of the samples collected, at SB-14 (located in front of 43 Charles Street on the east side of the sidewalk) from 11 to 12 feet below ground surface (bgs). Sampling points surrounding this location did not detect any VOCs at concentrations exceeding the SCOs, indicating it is an isolated occurrence.

- Widespread, low level concentrations of semi-volatile organic compounds (SVOCs), consisting primarily of polycyclic aromatic hydrocarbons (PAHs), were indicated in test trenches TP-01 and TP-02, with a slight observable decrease in concentration with depth (i.e., concentrations were generally higher from 2.5 to 5.5 feet bgs and lower at 7.0 feet bgs). At TP-03, however, concentrations of SVOCs increased with depth in the fill debris.

- The area with the most frequent detections of SVOCs and the highest concentrations is the western side of the site in the vicinity of SB-05, SB-08, SB-11, SB-14, and SB-17 where ash/fill materials were observed to depths greater than 12 feet bgs. A thin layer, approximately 0.2 to 1.0 feet in thickness, of stained silt was observed in all of these borings at depths ranging from 9.5 to 12 feet bgs. Total SVOC concentrations ranged from 4,260 to 3,983,620 micrograms per kilogram (µg/kg) at depths from 9 to 12 feet bgs in these borings. SVOC concentrations generally decreased below these depths. All these boring/sampling locations are presumed to be within the footprint of the former gasholder, indicating the location of the former gasholder is probably more to the west than initially postulated. The thin layer (0.2 to 1.0 foot thick) is the only visual identification of potential MGP-related waste (i.e., staining and odors typically encountered at MGP sites) observed during the investigations. These locations were isolated to the western portion of the site and were found well below the ground surface (from 9 to 12 feet bgs) beneath ash fill that is likely anthropogenic and not related to the operation of the former gasholder. The SVOCs observed appear

to be mostly related to the ash fill material rather than typical MGP wastes. It is well known and documented that SVOCs are typically found in urban settings and ash is known to contain elevated levels of SVOCs.

- Lower concentrations of SVOCs also were detected at a depth of 12 to 13.5 feet bgs in boring SB-04 on the eastern side of the site.

- No SVOCs exceeded the SCOs in any sample collected from the water bearing silty fine to coarse gravel observed across the site at an approximate depth of 16 feet bgs.

- There were minimal to no odors in the areas investigated.

- No visible identification of spent oxide chips were observed.

- Groundwater at the site was observed to occur at a depth of about 14 to 15 feet, with flow to the east and a very flat horizontal gradient of approximately 0.002 foot/foot.

- No VOCs or SVOCs were detected in the groundwater samples indicating that groundwater has not been impacted.

- No direct evidence of the former gasholder was found.

- VOCs were present in the indoor air of both homes at levels consistent with homes not affected by environmental contamination. Based on review of the indoor air and subslab soil vapor data, the NYSDEC and New York State Department of Health (NYSDOH) determined that no action is needed at this time to address potential soil vapor intrusion in either of the two residences.

After Department review of the PSA Report, NYSDEC requested a remedial investigation (RI) be completed for the site. URS subsequently prepared a work plan in response to comments (February 2008). The additional fieldwork activities described herein were conducted in response to the Departments' comments on the PSA Report and in general accordance with the *Remedial Investigation Letter Work Plan* prepared by URS in February 2008.

1.1.3 Conceptual Site Model Based on Previous Investigations

Based on previous investigations, URS has developed a conceptual site model. The former gasholder at the site appears to have been removed at the conclusion of site operations and backfilled with available fill (consisting primarily of ash, brick, cinder). A relatively thin zone of fill material impacted with PAH contaminants is present at depths from 9.5 to 12 feet bgs within the probable footprint of the former gasholder. There is generally two to four feet of reworked clayey silt and gravel overlying the entire study area including the ash fill material, which reduces the potential exposure pathway for direct contact with ash fill materials. The groundwater surface is present at approximately 15 feet bgs, but contaminants do not appear to be migrating into or impacting groundwater quality. Vapors from the contaminants may be migrating through the soil at low concentrations but are not migrating through the building subslabs at high enough concentrations to impact indoor air.

1.2 Objectives of the RI

The objective of the additional investigation was obtain enough additional data to: 1) determine the westernmost extent of potentially MGP-impacted subsurface soils; 2) to determine the horizontal and vertical extent of potentially MGP-impacted surface soils at the properties; and 3) complete a Remedial Investigation (RI) report for all of the data collected at the properties to date. The objectives and scope of the RI are outlined in the *Remedial Investigation Letter Work Plan* (URS, February 2008).

1.3 Report Organization

This report contains eight sections. Remedial investigation activities are provided in Section 2.0. Section 3.0 presents the physical characteristics of the study area, which includes a discussion of the local and regional geology and hydrogeology. Section 4.0 discusses the nature and extent of the contamination. Section 5.0 discusses contaminant fate and transport and natural attenuation assessment. The Qualitative Human Health Exposure Assessment is provided in Section 6.0. Section 7.0 summarizes the conclusions. Section 8.0 lists the references used in preparation of this report.

2.0 REMEDIAL INVESTIGATION FIELD ACTIVITIES

2.1 Scope of Work

The scope of work, as identified in the RI Work Plan, consisted of:

- Borings to delineate the northern, southern and western extent of soil contamination.
- Surface soil samples to assess potential impacts on surface soil.
- Shallow soil samples to assess potential impacts to shallow soil.

2.2 Geoprobe® Soil Borings and Subsurface Soil Sampling

As part of the RI, soil borings were used to delineate the horizontal and vertical extent of contaminants in the subsurface. URS advanced soil borings for the purposes of visually screening the subsurface materials, and collected selected soil samples for chemical characterization.

Between May 5 and May 9, 2008, a URS subcontractor, Nature's Way Environmental Consultants & Contractors, Inc., advanced a total of 21 soil borings (SB-18 through SB-28 and SS-07 through SS-16) using a Geoprobe® direct-push drill rig. Initially, shallow refusal was encountered in several borings (i.e., SB-18 through SB-22). However, it was determined this was due to a hydraulic equipment problem. Subsequently, these borings, along with borings SB-27 and SB-28 were completed to undisturbed soils using a different rig. Borings SB-18, SB-19, SB-21, SB-22, SB-27, and SB-28 were advanced to approximately 16 feet bgs. SB-20 was terminated at refusal at 11 feet bgs. Borings SB-23 through SB-26 were advanced to 6 feet bgs. Borings SS-07 through SS-16 were advanced to 2 feet bgs. As shown on Figure 1-2, soil borings:

- SB-18 and SB-19 were advanced in the driveway south of 43 Charles Street to assess the extent of contamination south of the former holder.

- SB-21 and SB-22 were advanced in the driveway north of 45 Charles Street to assess the extent of contamination north of the former holder.

- SB-20, SB-27, and SB-28 were advanced to delineate the western extent of contamination west of the former holder.

- SB-23 through SB-26 were advanced adjacent to utility service lines for the two residences to evaluate potential contaminant migration along utility pathways.

- SS-07 through SS-16 were advanced at 43 and 45 Charles Street to assess potential impacts on surface soil and shallow soil.

Soil samples were collected continuously at each location using four-foot-long MacroCore samplers equipped with acetate liners. Each sample tube was retrieved, cut along its length, screened visually and with a photoionization detector (PID) for evidence of contamination, and selected sample intervals placed in sample jars for analysis. An aliquot of soil from each two-foot interval also was placed in re-sealable plastic bags for headspace analysis. The soil boring logs are presented in Appendix A.

At borings intended for delineation purposes (SB-18 through SB-22, SB-27 and SB-28) two samples were generally collected for analysis. One sample was collected from the depth where the thin zone of impacted material had previously been observed at the site (i.e., depths from 9.5 to 12 feet) or from the interval exhibiting the highest level of potential impacts based on field screening. The second sample was collected from just above the water table interface (i.e., above approximately 15 feet bgs).

At the borings advanced to evaluate potential contaminant migration along utility pathways (SB-23 through SB-26), one sample was retained for analysis from 3-6 feet (the approximate depth of utility service lines).

In order to evaluate the shallow soils across the site, soil samples were collected from borings SS-07 through SS-16 from the following intervals: surface (0 to 2-inch), 0.2 to 1.0-foot, and 1.0 to 2.0-foot for analysis.

Following completion of each soil boring, the boring was backfilled to the surface with left over soil cuttings, bentonite pellets and hydrated.

The subsurface soil samples were analyzed for target compound list (TCL) VOCs, TCL SVOCs, and Resource Conservation and Recovery Act (RCRA) metals. The surface soil samples were analyzed for the same parameters, except that TCL VOCs analyses were not performed. The analyses were performed by TestAmerica (formerly Severn Trent Laboratories (STL)) of Amherst, NY. TestAmerica held NYSDOH Environmental Laboratory Approval Program (ELAP) certifications for all applicable parameters at the time of analysis. The laboratories provided NYSDEC Analytical Services Protocol (ASP) Category B deliverable data packages.

All boring locations were surveyed for vertical and horizontal location at the conclusion of field activities. Survey information is presented in Table 2-1.

3.0 PHYSICAL CHARACTERISTICS OF THE STUDY AREA AND GEOLOGY

This section discusses the physical characteristics of the study area including surface features, groundwater use, demography and land use, soil, surface water hydrology, and geology and hydrogeology. Information was collected from available literature and supplemented with specific information from investigations at the site.

3.1 Surface Features

The study area is situated in a residential neighborhood, encompasses two residences (43 and 45 Charles Street), and is bounded on the north, east, and south sides by other residences. Charles Street runs north/south along the western side of the study area and there is a school (St. Mary's Catholic Elementary School) across Charles Street from the study area. The topography is relatively flat with elevations near 1,119 feet above mean sea level (amsl) across the site. Surface water runoff at the site flows to storm drains in Charles Street. There are two (2) two-story residences occupying the study area, each with their own one-car garage. The backyard at 45 Charles Street is completely fenced in with a gate for access. At 43 Charles Street the backyard is mostly fenced in but there is a small access between the garage and the back porch. Ground cover consists primarily of grass, with small flower garden areas close to the home foundations, asphalt driveways leading to the garages, and concrete sidewalks parallel with Charles Street.

3.2 Area Groundwater Use

The City of Cortland has a public water supply, which originates from production wells screened in an unconfined sand and gravel aquifer, approximately 1 mile southwest and upgradient from the study area. Groundwater is also extracted from the aquifer by two Town of Cortland production wells located further southwest (Miller, et al., 1998).

3.3 Demography and Land Use

The study area is located in a residential area in the City of Cortland, New York. The two residences occupying the study area were purchased by NYSEG in 2007 and are presently unoccupied. At this time, the projected future use of the site is expected to remain unchanged (i.e., residential property). The study area is bordered on three sides by other residences and on the west by a school. The land use in the immediate vicinity of the site is anticipated to remain as residential.

3.4 Soil

According to the United States Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS) Web Soil Survey, the site is located in a residential area mapped as a Palmyra gravelly silt loam (PbA). These are well drained soils with the following typical profile:

- 0 to 8 inches: Gravelly silt loam
- 8 to 29 inches: Gravelly clay loam
- 29 to 60 inches: Stratified very gravelly loam to sandy loam

3.5 Surface Water and Hydrology

The nearest surface water bodies to the study area are, Otter Creek, the West Branch of the Tioughnioga River and the Tioughnioga River. Otter creek is approximately 1,200 feet northwest of the study area and flows northeast, emptying into the West Branch of the Tioughnioga River. The West Branch, which is 1,000 feet northeast of the study area, flows southeast to east until it joins the Tioughnioga River, approximately 5,500 feet east from the study area. Otter Creek and The West Branch are both listed on the NYSDEC Environmental Resource Mapper Website as class C streams. The Tioughnioga River is listed as class B. Class C indicates a best usage for fishing, whereas class B indicates a best usage for swimming and other recreation purposes, as well as fishing.

3.6 Geology and Hydrogeology

The geology and hydrogeology in the site vicinity were studied as part of the RI. Information obtained from other studies conducted at the site as part of previous investigations and from various literature sources was used to help characterize the site geology and hydrogeology. The following subsections summarize the regional and site-specific geology and hydrogeology.

3.6.1 Regional Geology

The study area is located in the glaciated part of the Allegheny Plateau. Bedrock in the plateau consists of gently folded layers of shale with some interbedded siltstone, sandstone, and limestone. Bedrock dips regionally to the south at approximately 40 feet per mile and the upper units are Devonian in age. The rocks were uplifted and eroded during the Late Cenozoic time forming the Allegheny Plateau, which has been dissected by streams forming a hilly terrain (Miller, et al., 1998).

Glaciers covered central New York several times during the Pleistocene Epoch ending when the ice retreated from the area about 10,000 years ago. A major readavance and standstill of ice between 14,000 and 14,900 years ago resulted in large amounts of sediment deposition, some of which formed the Valley Heads Moraine. The Valley Heads Moraine formed plugs in the major valleys, which blocked drainages and formed lakes as a result. One such lake formed in the valley of the Tioughnioga River basin. Glacial meltwater and upland streams transported large amounts of sediment to the lake, with coarse-grained sediments (sand and gravel) settling near the edge of the lake and fine-grained sediments (very fine sand, silt, and clay) settling further out into the lake to form lacustrine deposits. Eventually the lake drained and meltwater from the retreating glacier deposited large amounts of outwash sand and gravel over the former lakebed. The outwash and morainal sediments form a highly permeable unconfined surficial aquifer in the Cortland area (Miller, et al., 1998).

3.6.2 Site Geology

The subsurface conditions encountered across the site during the various investigations are summarized below. Test trench, soil boring, and piezometer locations are presented on Figure 1-2. Test trench logs are included as Appendix B. Boring logs and piezometer construction details are included as Appendix A and C, respectively.

Subsurface units identified at the site include (from surface down):

- Reworked clayey silt, sand, gravel, and cobbles with minor amounts of urban fill material
- Fill (predominantly ash and cinder when present)
- Interstratified clayey silt, sand and gravel, with cobbles
- Silty sand and gravel

Reworked soil and urban fill materials were generally present to depths up to 1.5 feet bgs across the entire site. Fill materials in these soils included a small piece of cast iron pipe, firebrick, scrap metal, and red brick. Across much of the site (i.e., the northern half of 45 Charles Street, the southern half of 43 Charles Street, and the eastern half of both properties) the uppermost soils consisted primarily of brown clayey silt with cobbles and coarse gravel to approximately 12 to 16 feet bgs and were generally moist, non-plastic, and medium dense with no obvious layering features. Beneath this unit was gray brown silty sand and gravel. Saturated soils were encountered between 15 and 16 feet bgs. The lower unit appeared moist to wet, non-plastic, and medium dense to loose.

In the west central portion of the site (i.e, northwest portion of 43 Charles Street, southwest portion of 45 Charles Street, and extending approximately 15 feet west into Charles Street), soils consisted primarily of reworked brown to gray brown clayey silt with cobbles and gravel and ash to approximately 6 feet bgs. At approximately 6 feet bgs, significantly more fill materials including glass, bottles, bricks, firebrick, ash, cinder, coal, and metal pipe were encountered. Additionally, one ceramic-coated piece of metal and one group of approximately four to five cobbles, encased in a black weathered, glassy looking tar and without any odor, were observed. The fill material extended to depths ranging from approximately 10 to 13 feet bgs. At

the base of the fill layer, a darkly stained silt and ash layer, ranging from 1-inch to 1-foot in thickness, and exhibiting a slight odor was present in most borings (i.e., SB-05, SB-08, SB-11, SB-14, SB-17, SB-20, SB-25, and SB-27). This layer was not observed at the base of the fill material at boring SB-16. The odors observed ranged from a musty decay like odor (SB-08 and SB-11), to a mild to moderate naphthalene-like odor typical of MGP sites (SB-05, SB-14, SB-17, SB-20, and SB-27). Because the site area is situated in an urban setting and filling operations associated with anthropogenic activities have occurred over and beyond the past 100 years, the origin of the fill could not be determined, however, it is likely that the fill was derived from multiple sources. Beneath the fill material native soils consisting of gray brown silty sand and gravel were encountered. No signs of contamination or fill material were indicated in this unit. Saturated soils were encountered between 15 and 16 feet bgs.

It was not conclusive that fill materials encountered in the soil borings were necessarily associated with former gasholder operations. Bricks, concrete, cinders, ash, and coal are also common fill materials associated with urban environments.

The native soils observed at the site are typical of the regional glacial outwash sand and gravel aquifer. Although not fully penetrated during the investigations conducted in the study area, the available literature indicates that the sand and gravel aquifer is approximately 50 feet thick in the vicinity. The sand and gravel is underlain by lacustrine very fine sand, clays and silts which are on the order of 50 feet in thickness in the area. Below this lies approximately 70 feet of kame deposits consisting of sand and gravel on top of Devonian age bedrock.

One overburden cross-section has been generated based on data from the PSA and RI and is presented as Figure 3-1. The location of the cross-section is shown on Figure 1-2. The cross-section, which runs west to east through the study area, shows the general composition of overburden materials beneath the site. It shows that the fill unit (consisting primarily of ash and cinder), which ranges from approximately 11 to 13 feet in thickness, ends somewhere near the middle of Charles Street and extends east to the approximate midline of the 43/45 Charles Street properties.

3.6.3 Site Hydrogeology

In November 2005, groundwater was observed between approximately 14 and 15 feet bgs in the piezometers. Figure 3-2 presents the groundwater elevation contour map. A low horizontal gradient of approximately 0.002 foot/foot was indicated, with a flow direction towards the east.

4.0 NATURE AND EXTENT OF CONTAMINATION

This section discusses the current understanding of the nature and vertical and horizontal extent of contamination at the site. It summarizes data previously presented in the PSA, in conjunction with data obtained during the RI in order to present one comprehensive summary of the nature and extent of contamination at the site. The validated laboratory data for samples collected as part of the RI and the validation summary report are included in Appendix D. The validation summary tables for all the previously collected samples are also included in Appendix D. For each medium, detected concentrations of individual contaminants were compared to applicable New York State Standards, Criteria, and Guidelines (SCGs). The SCGs include the Remedial Program Soil Cleanup Objectives SCOs presented in 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. The SCGs for groundwater are the Class GA standards and guidance values presented in Technical Operations and Guidance Series (TOGS) 1.1.1, March 1998 (including subsequent revisions).

4.1 Test Trench Soil Samples – November 2005

All samples were analyzed for VOCs, SVOCs, total phenolics, total metals and total cyanide. In addition, the sample from TP-01 at 5.0 feet bgs was analyzed for total organic carbon (TOC) and natural oxidant demand (NOD). Test trench locations and the analytical results for compounds that exceeded NYSDEC SCGs are listed on Figure 4-1. Table 4-1 shows all detected compounds and SCG exceedances are circled.

4.1.1 Organic Compounds

No VOCs were detected at concentrations above the SCGs in soil samples collected from any test trench. The SVOCs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene were each detected at concentrations exceeding the SCGs in at least one test trench sample. All seven of these compounds are PAHs.

In TP-01 and TP-02, the highest detected contaminant concentrations were observed between 2.5 and 5.0 feet bgs (see Figure 4-1). No compounds exceeded the SCGs in TP-01 at 7.5 feet bgs, or in TP-02 at 5.5 or 7.0 feet bgs. In TP-01, the total SVOCs decreased from 20,241 µg/kg at 2.5 feet bgs, to 848 µg/kg at 7.5 feet bgs. In TP-02, the total SVOCs decreased from 48,560 µg/kg at 2.5 feet bgs to 1,349 µg/kg and 1,416 µg/kg at 5.5 and 7.5 feet bgs, respectively. This indicates that contaminant concentrations decrease with depth in test trenches TP-01 and TP-02.

At TP-03, however, SVOC concentrations increased with depth. Fill materials (ash, cinder, debris) also were observed to increase with depth. In the 2.5-foot and 5.5-foot samples, the total SVOC concentrations were 18,260 and 47,630 µg/kg, respectively. These results were similar to those observed in the upper soils at TP-01 and TP-02 where results ranged from 1,349 to 48,560 µg/kg total SVOCs. The TP-03 sample from 10.5 feet bgs exhibited the highest total SVOC concentrations of all the test trench samples collected at 157,000 µg/kg, most of which (150,900 µg/kg) are PAHs.

4.1.2 Metals

The analytical results for the test trench soil samples indicate lead is the only metal exceeding the SCGs in all samples tested.

4.1.3 Miscellaneous Parameters

No cyanide was detected in any test trench sample. The TOC sample results from TP-01 at 5.0 feet bgs range from 8,700 to 12,000 milligrams per kilogram (mg/kg). NOD is a measure of the amount of naturally occurring organic and inorganic material that competes with contamination for oxidation reagents. NOD results were calculated by the laboratory (Carus Chemical Company), based on permanganate soil groundwater oxidant demand (PSOD). PSOD is measure of the amount of permanganate consumed by a given soil sample over a given period of time. At a high dose of permanganate (33.9 grams per kilogram (g/kg)), it was determined that the PSOD of the soil sample (and its duplicate) ranged from 35.4 to 26.1 g/kg for a 48-hour period.

4.2 Geoprobe® Soil Samples

Throughout the stages of investigation Geoprobe® soil samples were submitted for laboratory analysis of various parameters.

- Samples collected in November 2005 from borings SB-01 through SB-11 were submitted for analysis of VOCs, SVOCs, total phenolics, total metals and total cyanide. Also, one additional sample at SB-07 (from 13 to 15 feet bgs) was analyzed for TOC and NOD.

- The samples collected from borings SB-12 through SB-17 advanced in April 2006 were submitted for analysis of benzene, toluene, ethylbenzene, and xylene (BTEX), PAHs, and total cyanide only.

- Samples collected from borings SB-18 through SB-28 in May 2008 were analyzed for TCL VOCs, TCL SVOCs, and RCRA metals.

Soil boring locations and their corresponding analytical results for compounds that exceed SCGs are depicted on Figure 4-2. Table 4-2 shows all compounds that were detected in the soil borings and compares them to SCGs. A statistical summary of subsurface soil analytical results is presented as Table 4-3.

4.2.1 Volatile Organic Compounds

VOCs were detected at concentrations exceeding the SCGs in only one of the samples collected, at SB-14 from 11 to 12 feet bgs, where ethylbenzene and xylene were each detected at a concentration exceeding their respective SCGs. Another sample at this location, from 14 to 15 feet bgs, indicated no VOCs above the SCGs.

4.2.2 Semi-Volatile Organic Compounds

SVOCs were detected at concentrations exceeding SCGs at fourteen borings (i.e., SB-04, SB-05, SB-08, SB-11-1, SB-12, SB-14, SB-15, SB-17, SB-20, and SB-23 through SB-27). At SB-04, SB-12, and SB-15 the concentrations were relatively low and total SVOCs were reported at 11,970 µg/kg, 2,928 µg/kg, and 30,930 µg/kg, respectively. This is similar to the maximum total SVOCs observed in TP-01 (20,241 µg/kg), only at greater depths below the ground surface.

Total SVOC concentrations were more elevated than elsewhere on the site in the northwest portion of 43 Charles Street, southwest portion of 45 Charles Street, and extending approximately 15 feet into Charles Street. This is the area where fill debris, consisting primarily of ash and cinder, was encountered and was underlain, between the depth of 9 to 12 feet bgs, by the thin (1 foot or less) darkly stained silt and ash layer exhibiting a slight to moderate odor. Total SVOC concentrations detected in this area were:

- 3,068,600 µg/kg at SB-05 from 11 to 12 feet bgs;
- 3,983,620 µg/kg at SB-08 from 10 to 12 feet bgs;
- 564,000 µg/kg at SB-11-1 from 9 to 11 feet bgs;
- 474,700 µg/kg at SB-14 from 11 to 12 feet bgs;
- 1,614,540 µg/kg at SB-20 from 10 to 11 feet bgs;
- and 7,707,000 µg/kg at SB-27 from 9 to 10 feet bgs.

At SB-17, although some staining was observed from 9.5 to 10 feet bgs, total SVOC concentrations in the sample from 9 to 11 feet bgs were much lower, at 4,260 µg/kg, than samples taken from other borings where staining was present. However, total SVOC concentrations at SB-17 were slightly more elevated in the deeper sample collected from 12 to 14 feet bgs, at 17,250 µg/kg (although it should be noted that samples from SB-12 through SB-17 were analyzed for PAHs only).

Generally, observed concentrations decreased substantially in soils beneath the stained silt and ash layer (approximately 12 to 20 feet bgs). For example:

- at SB-05, total SVOC concentrations dropped two orders of magnitude between the sample from 11 to 12 feet bgs (3,068,600 µg/kg) and the sample from 15 to 16 feet bgs (54,680 µg/kg),

- at SB-08 from 10 to 12 feet bgs, 20 compounds exceeded SCGs and total SVOCs were 3,983,620 µg/kg. However, from 18 to 20 feet bgs, no compounds exceeded SCGs and total SVOCs were 769 µg/kg,

- at SB-27, total SVOC concentrations dropped two orders of magnitude between the sample from 9 to 10 feet bgs (7,707,000 µg/kg) and the sample from 12 to 14 feet bgs (13,100 µg/kg).

No SVOCs were detected at concentrations exceeding SCGs, at depths ranging from 6 to 15 feet bgs, beneath the driveway north of 45 Charles Street (SB-21 and SB-22), beneath the driveway south of 43 Charles Street (SB-18 and SB-19), or across Charles Street from the site (SB-28), indicating that the northern, southern, and western extent of SVOC contamination has been horizontally delineated.

No SVOCs were detected at concentrations exceeding SCGs in 10 of the 11 samples collected on the eastern half of the two properties at depths from 10 to 24 feet bgs. At the only exception, SB-04, located at the northeast corner of 43 Charles Street, a sample from 12 to 13.5 feet bgs exhibited total SVOCs of 11,930 µg/kg and five compounds were detected at concentrations slightly exceeding their respective SCGs. The isolated nature and very low concentrations of SVOCs on the eastern portion of the site indicate the eastern extent of SVOCs has been delineated.

No SVOCs exceeded SCGs in any sample collected from the water bearing silty fine to coarse gravel observed across the site at an approximate depth of 16 feet bgs. Decreases in SVOC concentrations with depth coupled with the absence of impacts to groundwater in the vicinity indicate that the vertical extent of contamination has been adequately delineated.

Utility Line Evaluation

Four borings (SB-23 through SB-26) were advanced along utility service lines to each residence to evaluate their potential as a contaminant migration pathway. Total SVOC concentrations were generally consistent with those observed elsewhere on the site, exhibiting concentrations typical of the site backfill materials. Borings SB-23, SB-24, and SB-26 exhibited total SVOC concentrations ranging from 1,603 µg/kg to 4,654 µg/kg. At boring SB-25, located in the area where ash backfill is present, total SVOCs were 109,800 µg/kg.

4.2.3 Metals

Metals results were similar to those observed in the test trench samples and are presumed to primarily represent background concentrations of area soils (see Figure 4-2).

4.2.4 Miscellaneous Parameters

Cyanide was detected in four samples at concentrations of 1.0 mg/kg in SB-08 from 10 to 12 feet bgs; 1.2 mg/kg in SB-11-1 from 9 to 11 feet bgs; 1.0 mg/kg in SB-12 from 14 to 15 feet bgs; and 4.0 mg/kg in SB-17 from 9 to 11 feet bgs. These concentrations were just over the analytical detection limits and well below the SCG of 27 mg/kg. The TOC result from the sample at SB-07 from 13 to 15 feet bgs was 920 mg/kg. The laboratory (Carus Chemical Company) calculated the PSOD results. Based on a high dose of permanganate (28.9 g/kg), it was determined that the PSOD of the soil sample was 3.4 g/kg. Generally, sites with a PSOD of less than 35.0 g/kg at 48 hours for the high permanganate dose are favorable for the application of in-situ chemical oxidation with permanganate.

4.3 Groundwater Samples

Four groundwater samples collected from the piezometers were analyzed for VOCs, SVOCs, total metals, soluble iron, total cyanide, and total phenolics. The groundwater sample analytical results were compared to groundwater standards found in the NYSDEC TOGS 1.1.1,

"Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" issued in June 1998 and updated in April 2000 (see Figure 4-3 and Table 4-4). Results were non detect for all parameters, except for the metals, which were consistent in all four samples. Only iron and sodium were detected at concentrations above NYSDEC groundwater quality criteria. Sodium values were consistent across all four piezometers with concentrations ranging from 56,500 to 68,500 micrograms per liter (µg/L). Iron concentrations only slightly exceeded the guideline value of 300 µg/L at 1,200 and 324 µg/L in piezometers PZ-03 and PZ-04, respectively. Neither metal is a concern because they likely represent naturally occurring background concentrations. A statistical summary of groundwater analytical results is presented as Table 4-5.

4.4 Scrape Samples

The two samples, Scrape #1 and Scrape #2, collected from the discolored stones present in the basement of 45 Charles Street, both indicated low concentrations of BTEX compounds and elevated concentrations of SVOCs. The concentrations in the deeper sample, Scrape #2, were much lower than those in the surface sample (Scrape #1). Scrape #2 had additional rock matrix material mixed in with the coating on the rock. Scrape #3 is the background sample collected from stones above grade; some low levels of SVOCs were detected in the sample. There are no applicable regulatory criteria for this type of sample. The analytical results are presented on Table 4-6. Photographs are included in Appendix E.

During sampling, the coating was noted to be dry and have a slight odor upon scraping. The odor was that of sulfur. The grout in several areas on the basement walls has been repointed at some time in the past. The grout was removed around some of the edges of the four stones sampled and the discoloring was observed beneath the grout (which overlapped the edges of the stones) and appeared to be present to the edges of the impacted stones. The grout itself was not coated, indicating the discoloring is not seeping through the stones and into the basement. The coating encompassed the entire surface area of the stones on which it was present. It was approximately the same thickness (a few millimeters) across the entire surface of each stone. There were no evident drip marks or moist areas on the stones. Prior to sampling there was no odor in the basement. Given the observations discussed above, and the elevation and location of the discolored stones with regard to observed soil contamination, it is the contention of URS and

NYSEG that the discoloring has been present on the stones for quite some time and is not a recent occurrence. URS and NYSEG believe the stones with discoloration may have:

- Been sealed with a tar-based waterproofing compound by a previous homeowner or a tar-based waterproofing compound may have been applied to the basement stones during the home's original construction, and somehow these particular stones were coated on both sides or put in place backwards.

- Originated from the original gasholder foundation, and been found and re-used during the home's construction.

In an attempt to determine the source or origin of the discolored material on the stones, NYSEG sent the analytical results from the scrape samples to NewFields Environmental Forensics Practice (NewFields) in Rockland, Massachusetts. NewFields reported that the samples from Scrape #1 and Scrape #2 contained coal tar but they were not able to determine if the coal tar originated from the former gasholder or if it was from various other tar sources commonly encountered in residential properties (e.g., waterproofing sealer, tar paper, insecticides, and others). NewFields' report is included as Appendix F.

4.5 Surface and Shallow Soil Samples

Surface soil samples (0 to 2 inches) were collected in April 2006. Subsequent to the excavation of test pits in November 2005, topsoil was brought to the site and 1-6 inches was placed across the majority of both sites as part of the restoration from the test pit activities. Because the supplier of the topsoil was not able to provide chemical data on its quality, the NYSDOH required testing of the imported topsoil. Based this and on the results of the PSA, the NYSDEC/NYSDOH requested additional surface soil samples (0 to 2 inches) and shallow soil samples (2 inches to 1 foot and 1 foot to 2 feet). The additional samples were required to further characterize the imported topsoil and site soils at shallow depths (i.e., planting depths) that may be encountered by future residents of the property as well as to obtain sufficient information to evaluate a range of potential remedial alternatives. Analytical results are presented on Table 4-7 and a statistical summary of the surface soil and shallow soil analytical results is presented as

Table 4-8. Surface soil results are presented on Figure 4-4, and shallow soil results are presented on Figure 4-5.

4.5.1 Surface Soil - April 2006

The surface soil samples were analyzed for SVOCs and several were detected in all six surface soils at concentrations above the SCGs. The compounds benzo(a)anthracene, benzo(a)pyrene, benzo (b) fluoranthene, chrysene, and indeno (2,2,3,-cd) pyrene were detected at concentrations exceeding SCGs in five of the six samples. Total PAH concentrations ranged from 3,200 µg/kg at location SS-05 to 83,600 µg/kg at location SS-01.

4.5.2 Surface Soil – May 2008

The May 2008 surface soil results were generally similar to the April 2006 results in overall concentrations of SVOCs, with the exception of location SS-16 (located in the northeast portion of the 45 Charles Street property). SS-16 exhibited a total SVOC concentration of 212,720 µg/kg, an order of magnitude higher than the previous results at nearby SS-02, the results appear to be localized since the concentrations decrease significantly with depth. This is further discussed in the shallow soil discussion in the following section.

4.5.3 Shallow Soil – May 2008

At 9 of the 10 shallow soil locations (SS-07 through SS-16) total SVOCs decreased significantly with depth. Some of the borings were an order of magnitude lower in total SVOC concentrations in the 1.0 to 2.0 foot sample compared to the 0.2 to 1.0 foot sample. Others exhibited a decrease of roughly half.

At location SS-12 total SVOC concentrations were significantly higher in the 1.0 to 2.0 foot sample compared to the 0.2 to 1.0 foot sample. Ash and coal fragments were observed in this boring and it is located in the area where extensive amounts of fill material were present in the deeper borings (i.e., likely within the former footprint of the gasholder).

Detected SVOCs exceeding SCGs in one or more samples included benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno (1,2,3-cd)pyrene.

4.5.4 Surface and Shallow Surface Soil Conclusions

Generally, the occurrence of elevated SVOCs/PAHs is isolated and scattered and reflective of heterogeneity characteristic of soils in urban settings. Detected SVOCs exceeding SCGs in one or more samples included benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno (1,2,3-cd)pyrene.

4.6 Indoor Air and Subslab Samples

The indoor air and subslab soil vapor results are presented on Table 4-9. A copy of the validation summary tables is included as Appendix D. Volatile organic compounds were present in the indoor air of both homes at levels consistent with homes not affected by environmental contamination. The results indicate that these compounds are also present in the soil vapor beneath both of the homes, but not at levels that are expected to have a significant impact on indoor air quality.

5.0 CONTAMINANT FATE AND TRANSPORT

This section describes fate and transport processes that may influence the behavior of the contaminants detected at the site. The discussion emphasizes the processes that are essential in evaluating potential exposure of human and environmental receptors to the site contaminants detected at concentrations above the SCGs. The following items are presented in this section:

- General description of fate and transport processes occurring in soil and groundwater systems.
- Identification and description of properties of contaminants detected above the SCGs in the various media at the site.
- Media-specific and contaminant-specific evaluation of potential fate and transport mechanisms occurring at the site.

Contaminants identified in the on-site surface soils above SCGs are SVOCs (PAHs) and metals. Contaminants identified in the on-site and near off-site subsurface soils above SCGs are VOCs (ethylbenzene and xylene), SVOCs (primarily PAHs and dibenzofuran), and metals. Contaminants identified in groundwater above SCGs include metals only (iron and sodium).

5.1 General Description of Fate and Transport Mechanisms

This section provides general descriptions of the fate and transport processes that can occur in the environment in which samples were collected as part of the site investigations. In addition, the site characteristics that can affect these processes are discussed.

5.1.1 Transport Processes

Contaminant transport in the subsurface can occur as movement of dissolved contaminants in groundwater; and/or as migration of volatilized contaminants in the soil vapor. The primary transport mechanisms are advection, dispersion, and partitioning of mass.

Advection occurs when the contaminant is carried along as part of the groundwater or soil vapor flow. Dispersion refers to the spreading of the migrating contaminants with or without actual groundwater movement due to diffusion and mechanical mixing created by non-uniformities in the flow field. Dispersion results in the widening of the affected area, as well as in the smearing of the plume boundaries.

Mass partitioning is a process in which contaminants move between different environmental media in response to concentration gradients. For example, contaminants dissolved in groundwater may sorb (i.e., attach) onto soil particles or volatilize into the soil vapor. The process may involve mass transfer in any direction between any of the environmental media. The net result of mass partitioning is the distribution of the contaminant between all phases that remain in physical contact with each other. Typically, mass partitioning acts to inhibit the migration of contaminants in groundwater or soil vapor by immobilizing a part of the mass in the soil matrix (retardation). However, the process may be reversed, resulting in the slow release of the sorbed contamination into the groundwater or soil vapor.

In the vadose zone (i.e., between ground surface and the water table), the total mass of a contaminant is partitioned between the dissolved phase (soil moisture), the gas phase (soil vapor), and the solid phase (soil matrix). In the saturated zone, the soil vapor phase is absent and the partitioning occurs only between the soil matrix and groundwater. Under equilibrium conditions, each phase contains a fraction of the total contaminant mass present in the system (i.e., total of both phases equals 100 percent of the contaminant mass present). The relative mass fractions are determined by the properties of each contaminant and by the nature of the soil matrix. Equilibrium conditions may be disturbed by phenomena such as migration of contaminated groundwater or soil vapor into an area, or removal of contaminant mass from one of the media through degradation processes or gravity flow. The changes in concentration gradients created by these circumstances result in the occurrence of mass transfer between the media until equilibrium is re-established.

The contaminant mass sorbed onto the soil matrix is essentially immobile, with the exception of contaminants in the topmost soil layer, which can be transported by processes (such

as wind or surface runoff) capable of moving soil particles. Sorbed contaminants generally act as a source for the dissolved and gas phases.

Transport of contaminants dissolved in the soil moisture in the unsaturated zone is generally limited as a result of very low flow rates in the absence of full saturation. The only significant mechanisms may be driven by water level fluctuations and gravity-driven downward flow during wet-weather periods. Such vertical transport of contaminants acts as a source for the saturated zone below.

The contaminant mass contained within the soil vapor and within groundwater in the saturated zone is more mobile. Soil vapor can migrate in both vertical and horizontal directions in response to pressure gradients. The migration can create a discharge of contaminants into the atmosphere or adjacent building basements, or act as a source of contamination for the groundwater in the saturated zone. The migrating soil vapor may transfer mass into the soil matrix and soil moisture in previously uncontaminated areas, thus increasing the areal extent of soil contamination in the unsaturated zone.

The primary transport mechanisms for contaminants dissolved in groundwater are advection and dispersion. The magnitude of dispersion is site specific and is generally difficult to measure. Processes similar to those that occur for soil vapor can enable dissolved contaminants to reach a previously uncontaminated area and enter other environmental media.

Contamination migrating with soil vapor or groundwater constantly interacts with the soil matrix. The driving forces behind this process are created by concentration gradients between different phases and the properties of the contamination and the soil matrix. Contaminant mass may either sorb from the mobile soil vapor or groundwater onto the soil particles or it may undergo a reverse process of desorption.

In the case of sorption, contaminant mass is transferred from the mobile medium into the immobile soil medium. This phenomenon tends to retard contaminant migration, and is consequently referred to as retardation. The magnitude of the retardation depends on the properties of each contaminant and the soil matrix. The key indicator parameter for the

retardation properties of the soil is the organic carbon content. Soils with high organic carbon content sorb dissolved contaminants more readily and create a more significant retardation effect than soils with limited, or no organic carbon content. Desorption is the process of transferring contaminants from the soil matrix into the groundwater or soil vapor. As a result, soils containing contaminant mass may act as a source if exposed to the less-contaminated soil vapor or groundwater. Desorption from soil into the soil vapor or increasing content of organic carbon in the soil increasingly inhibits groundwater.

5.1.2 Mass Destruction Processes

Most contaminant mass contained within the saturated formation is not exposed to sunlight or the atmosphere. Therefore, abiotic mass destruction processes that rely on the presence of air or exposure to sunlight (such as hydrolysis and photolysis) have little impact within the subsurface and will not be discussed. (The exception is contaminant mass exposed at the ground surface. However, this is typically only a small percentage of the total contaminant mass contained in the subsurface.)

The most significant mass destruction process that takes place in subsurface environments is microbial degradation. The microbial degradation processes for organic contaminants that operate in groundwater systems are biological oxidation, reductive dechlorination, and cometabolic degradation.

During degradation, organic compounds may be transformed into daughter forms, which may be recalcitrant or further degradable. Daughter compounds can be either more or less toxic than the parent compounds. If a contaminant degrades into a sequence of degradable daughter compounds, it is ultimately fully metabolized into such compounds as carbon dioxide, methane, water, and chloride.

5.2 Fate and Transport of Site Contaminants

In the past, the site contained a gasholder that was used for the storage/distribution of manufactured gas generated at an MGP site located in Homer, New York. Contaminants detected in soil samples collected at the site include those that are commonly associated with the production of manufactured gas, primarily ethylbenzene, xylenes, PAHs, and dibenzofuran.

This section discusses the possible fate and transport of the contaminants identified at the site. The properties of the contaminants identified at the site that will impact their fate and transport are also discussed.

5.2.1 Contaminant Properties

As previously described, the following groups of contaminants were detected at concentrations above SCGs: VOCs (ethylbenzene and xylene), SVOCs (PAHs and dibenzofuran), and metals. General properties of these groups are discussed below.

5.2.1.1 VOCs

VOCs were detected in subsurface soils at levels above SCGs at only one location and included ethylbenzene and xylene. These compounds are volatile and highly to moderately soluble in water. However, these compounds were not detected in groundwater at the site. They are readily biodegraded under aerobic conditions and also degrade under anaerobic conditions, albeit at much slower rates. They have low to moderate organic carbon to water partitioning coefficients and do not readily partition into the soil, making them relatively mobile in the environment. They readily volatilize into the atmosphere or the soil vapor. At the surface, they generally decay upon exposure to sunlight and to the atmosphere. Dissolved BTEX compounds are transported by advection and dispersion in groundwater. The same processes of advection and dispersion are responsible for the migration of BTEX compounds in the atmosphere or the soil vapor.

5.2.1.2 SVOCs

PAHs detected at levels above SCGs in the surface and/or subsurface soils include acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and pyrene. Generally, PAHs are characterized by low volatility, low solubility in water, and a high organic carbon to water partitioning coefficient. As a result, they are relatively immobile, and typically sorb onto the soil matrix. Potential for leaching from the soil to groundwater decreases as the compound's molecular weight increases, and such leaching is unlikely even for low molecular weight compounds. As a result, the primary transport mechanism for PAHs is transport mechanically by wind and erosion/particle entrainment. PAHs are hydrocarbons containing two or more fused benzene rings. Their biodegradation rates are relatively low. PAHs with several rings degrade less readily than PAHs with fewer rings. Carcinogenic PAHs typically have four or more benzene rings and are resistant to biodegradation.

Dibenzofuran was detected at concentrations above SCGs in the subsurface soils. This compound is characterized by low volatility, low solubility in water, and high organic carbon to water partitioning coefficients. As a result, it is relatively immobile, and typically associate with the soil matrix. Leaching is an unlikely pathway for dibenzofuran. This compound has a tendency to sorb to soil particles and consequently may be transported mechanically by wind and erosion/particle entrainment. Dibenzofuran is relatively non-biodegradable.

5.2.1.3 Metals

Metals detected in surface and/or subsurface soils at concentrations exceeding SCGs were arsenic, barium, cadmium, chromium, lead and mercury,. Metals detected in groundwater at concentrations exceeding SCGs were iron and sodium. Metals are generally persistent and they may complex with other elements. They do not volatilize or degrade. However, in their soluble form, metals are mobile in aquatic environments. The ultimate preference of metals towards soil/sediment sorption or dissolution in water depends mostly on the acidity or alkalinity of the system.

5.2.2 Fate and Transport in the Unsaturated Zone

5.2.2.1 Migration

Propagation of contaminants in the unsaturated zone is typically dominated by three processes: migration of dissolved phase contaminants with infiltrating precipitation; migration of volatilized contaminants in the soil vapor; and migration of the sorbed contamination with fugitive dust emissions or surface runoff. Contaminants present as separate-phase liquid within the soil or sorbed to the soil may dissolve as precipitation percolates through the unsaturated zone. This occurs during wet weather periods, when the water content exceeds the field capacity of the soil matrix. The flow is mostly gravity-driven and directed downward. Such downward migration through the unsaturated zone may constitute a source of contamination of the saturated zone below.

The amount of infiltration-induced migration is expected to be low for PAHs and dibenzofuran because of their low solubility in water. For contaminants of higher solubility, such as VOCs, the extent of migration in the infiltrating water may be somewhat higher. However, results from groundwater samples collected at the site indicate that infiltration-induced migration of contaminants downward through the unsaturated zone has not resulted in any impacts to groundwater, as no MGP-related SVOCs or VOCs were present above detectable levels in the samples. For metals, the scale of migration will vary, as their solubility in water is determined primarily by the pH of the environment.

Contaminants of concern enter the soil gas or the atmosphere through the process of volatilization. Portions of the site are not paved and, in these areas, the sources of contamination are in close contact with the atmosphere. Volatilization of VOCs to the soil vapor in the unsaturated zone and to the atmosphere is expected to occur. However, concentrations of VOCs in soil vapor samples collected at the site are not considered to be a significant source of contaminants to the surrounding indoor/outdoor air. The remaining MGP-related contaminants present in the unsaturated zone (SVOCs and metals) are not readily volatile. As a result, the migration of contaminants through the gas phase, either in the soil vapor or in the atmosphere, is likely to be of little significance.

The unpaved portions of the site are covered by the residential structures and vegetated areas, and there is little potential for the site to generate fugitive dust emissions in the absence of intrusive activities that disturb the soil. Similarly, the structures, paved surfaces, and vegetated areas of the site will prevent any significant off-site migration of contaminants from the surface soil via erosional processes.

5.2.2.2 Degradation

Generally, the occurrence and rates of unsaturated zone biodegradation have to be determined by means of field studies, such as respiration tests. However, vadose zone biodegradation is limited by the amount of moisture present in the soil and transport processes between bacteria and contaminants. Sufficient moisture for active biological growth may not be present at all locations where contamination is elevated. Also, without a continuous aqueous phase, mass transfer between the bacteria and contaminants will be low, especially for low mobility compounds such as PAHs. These conditions tend to limit the amount of natural biodegradation of some compounds that will occur in the vadose zone.

While some VOCs are subject to biodegradation, most organic compounds detected at the site are generally relatively non-degradable (PAHs and dibenzofuran). Metals do not degrade. It is likely that degradation of the site contaminants will not be significant.

5.2.2.3 Summary

Although some downward migration of VOCs (highly soluble in water) through the unsaturated zone would be expected and would be much more significant than for PAHs anddibenzofuran (low solubility in water), infiltration-induced downward migration is unlikely to be a significant transport process at the site. Results of groundwater samples collected at the site indicate no impacts to the underlying saturated zone. For metals, the solubility and the resulting extent of the migration will vary, as their solubility in water is determined primarily by the pH of the environment. Migration of contaminants through the gas phase, either in the soil vapor or in the atmosphere, is likely to be of little significance since results of soil vapor/air samples collected at the site indicate no significant impact to indoor/outdoor air. While some migration of

surface soil contaminants may occur via erosional processes, this process will be significantly limited by the residential structures, paved surfaces, vegetation cover, and the flat topography of the site.

Rates of contaminant degradation in the unsaturated zone are expected to be relatively low. While VOCs may degrade, other organic compounds detected in the unsaturated zone at the site are relatively non-degradable. Metals are recalcitrant.

5.2.3 Fate and Transport in the Saturated Zone

5.2.3.1 Migration

Contaminant migration in the saturated zone typically takes place through the transport of the dissolved-phase contamination in groundwater. The controlling factors are the direction of the groundwater flow within the aquifer, the hydraulic gradient, the hydraulic conductivity of the aquifer material (both the average value and spatial distribution) and the chemical composition of the soil matrix. VOCs may also migrate from the groundwater/soil to the soil vapor of the unsaturated zone of the overburden.

The only analytes exceeding SCGs in groundwater samples collected at the site are iron an sodium, and these analytes are naturally occurring in the environment and are not site-related. There were no organic compounds commonly associated with MGP products (i.e., BTEX, PAHs, furans, phenolics) above detectable levels in any of the groundwater samples. Therefore, is unlikely that site-related contaminants are migrating through the saturated zone.

5.4 Overall Assessment of Fate and Transport

VOCs and SVOCs that are commonly associated with MGP activities were detected in samples collected at the site. VOCs (ethylbenzene and xylene), SVOCs (PAHs and dibenzofuran), and metals were detected in subsurface soils at the site at levels above SCGs. Infiltration-induced downward migration of VOCs and SVOCs is unlikely to be a significant

transport process at the site, since results of groundwater samples collected at the site indicate no impacts to the underlying saturated zone. For metals, the solubility and the resulting extent of the migration will vary, as their solubility in water is determined primarily by the pH of the environment. Migration of contaminants through the gas phase, either in the soil vapor or in the atmosphere, is likely to be of little significance since results of soil vapor/air samples collected at the site indicate no significant impact to indoor/outdoor air. While some migration of surface soil contaminants may occur via erosional processes, this process will be significantly limited by the residential structures, paved surfaces, vegetation cover, and flat topography at the site. Rates of contaminant degradation in the unsaturated zone are expected to be relatively low. While VOCs may degrade, other organic compounds detected in the unsaturated zone at the site are relatively non-degradable and are likely to persist. Metals are recalcitrant.

No MGP-related VOCs or SVOCs were present above detectable levels in groundwater samples collected at the site. The presence of iron and sodium in groundwater at concentrations exceeding SCGs is attributable to background geological conditions. There is no evidence that migration of SVOCs from soil to groundwater is occurring at the site.

6.0 QUALITATIVE HUMAN HEALTH EXPOSURE ASSESSMENT

This section presents the Qualitative Human Health Exposure Assessment (HHEA) for the site. This qualitative HHEA uses data and information collected during URS's 2005-2008 investigations to assess human health exposure in the immediate and surrounding areas. The qualitative HHEA provides an evaluation of potential adverse health effects under current and potential future site conditions that may result from exposure to contaminants attributable to former activities at the site.

The former gasholder site is approximated as the property lines of 43 and 45 Charles Street, a residential area in the Village of Homer, Cortland County, New York. The previous use of the site was industrial/commercial, as described in Section 1.0. The approximate location of the former gasholder is shown on Figure 1-2. No above-grade structures related to the former site operations as a gasholder currently exist, and no direct evidence of the former gasholder was found during subsurface boring/test trenching activities performed during the investigations. However, limited visual identification of fill material was observed during the investigations at isolated locations well below the ground surface.

Currently, two unoccupied residential homes (43 and 45 Charles Street) exist at the site. NYSEG purchased the two residential properties in 2007. The site and immediate surrounding area is mostly residential, located within a larger urban setting. There is an elementary school across Charles Street from the site. At this time the projected future use of the site, and land in the immediate vicinity of the site, is anticipated to remain residential.

This qualitative HHEA follows the general format and procedures set forth in the United State Environmental Protection Agency's (USEPA's) Risk Assessment Guidance for Superfund (RAGS) (USEPA 1997a). As such, it includes three of the four required components (the fourth component, Risk Characterization, is not included because this assessment is qualitative):

- Identification of Contaminants of Potential Concern
- Exposure Assessment

- Toxicity Assessment

These components are presented in the following subsections.

6.1 Identification of Contaminants and Media of Potential Concern

Section 4.0 (Nature and Extent of Contamination) presented the analytical results for samples collected from different site media. For each medium, exceedances were noted when observed concentrations of detected contaminants were compared to applicable SCGs. For groundwater, the SCGs are the Class GA (groundwater) standards and guidance values presented in NYSDEC TOGS 1.1.1, March 1998 (including subsequent revisions). For subsurface and surface soils, the SCGs are those presented in 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. There are no SCGs for air or soil vapor samples.

During the investigations performed from 2005-2008, contaminants detected at one or more location for each medium include:

- Subsurface soil samples: VOCs/BTEX, SVOCs (including PAHs, furans, and phenols), metals, and total/free cyanide.
- Surface soil samples: SVOCs (including PAHs and phenols), metals, and total cyanide.
- Groundwater samples: metals.
- Air and soil vapor samples: VOCs/BTEX.

Many of the samples collected contained contaminants above SCGs. Within this report, a "medium of potential concern" is identified as a physical medium (such as soil or groundwater) in which one or more contaminants were detected at concentrations exceeding their SCGs. Table 6-1 presents a summary of contaminants of potential concern (CPCs) for all media. Since there are no SCGs for air or soil vapor samples, the detected VOCs/BTEX compounds are not listed on the table as CPCs. All contaminants detected above SCGs were considered CPCs. Tables 4-1 through 4-9 identify detected contaminants, identify SCG exceedances, and provide statistical summaries of detected contaminants in the sampled media.

6.2 Identification of Potentially Exposed Receptors

Under the current use scenario, potentially exposed receptors include contractors (i.e., those performing any type of work at the site) and trespassers. As previously stated, it is anticipated that the site will remain as residential properties. Therefore, potentially exposed receptors for the anticipated future use scenario include residents, contractors (i.e., those performing any type of work at the site), and trespassers.

6.3 Exposure Pathways

An exposure pathway is the manner by which an individual may come in contact with a contaminant. The elements of a completed exposure pathway include: the contaminated environmental media (i.e., surface soil, subsurface soil, soil vapor, air, or groundwater); the receptor (e.g., resident, contractor, or trespasser) exposed to the contamination; and the routes of exposure or how the contaminant enters the body (i.e., inhalation, ingestion, and/or absorption through the skin [i.e., dermal contact]). Tables 6-2 and 6-3 present the exposure pathways assessed for the site under current and future land use scenarios, respectively. Direct contact exposure pathways (e.g., dermal exposure and ingestion) are considered to be complete or potentially complete for the surface soil medium. All remaining pathways are considered to be incomplete for both current and future use scenarios. The following subsections discuss the rationale for identifying the exposure pathways as complete or incomplete.

6.3.1 Surface Soil

While significant portions of the site are covered by structures (homes/garages) or paved (concrete/asphalt) surfaces, it is conceivable that residents, contractors, or trespassers could come into direct contact with the surface soils located in the vegetated areas of the site. As a result, direct contact with surface soil is considered a potentially complete exposure pathway under both current use (Table 6-2) and future use (Table 6-3) scenarios.

6.3.2 Subsurface Soil

Under the current use scenario (Table 6-2), the exposure pathway for subsurface soils is considered to be incomplete. Any intrusive activities that could lead to potential exposure will be performed in accordance with the Site Management Plan, which will be developed for the site and will include specific procedures for controlling and/or eliminating exposure to any potentially contaminated media. Similarly, the exposure pathway for the future use scenario (Table 6-3) is considered to be incomplete.

6.3.3 Soil Vapor/Indoor Air

Under the current use scenario (Table 6-2) and future use scenario (Table 6-3), the on-site exposure pathway for soil vapor and indoor air is considered to be incomplete. Analytical data from sub-slab soil vapor and indoor air samples collected from the 43 and 45 Charles Street residences exhibited VOC concentrations that are not expected to have a significant effect on indoor air quality. Currently, there are no occupants in the on-site residences.

Under the current use scenario (Table 6-2) and future use scenario (Table 6-3), the off-site exposure pathway for soil vapor and indoor air is also considered to be incomplete. Although off-site soil vapor samples were not collected as part of this investigation, VOCs were not detected in any of the groundwater samples, indicating that off-site migration of VOCs would be limited to transport via soil vapor. Considering that soil vapor has not significantly impacted the two on-site residences, it is unlikely any substantial off-site migration of VOCs is occurring via the soil vapor medium.

6.3.4 Outdoor Air

Under the current use scenario (Table 6-2) and future use scenario (Table 6-3), the on-site and off-site exposure pathways for outdoor air are considered to be incomplete. Based upon information from the New York State Department of Health, the total VOC concentrations in outdoor air samples were found to be at levels consistent with typical outdoor air background

levels. Any disturbance of subsurface soils that may expose contaminants to the surrounding atmosphere will be performed in accordance with the Site Management Plan referenced in Section 6.3.2, thus eliminating any potential exposure pathways.

6.3.5 Groundwater

All residents obtain potable water from a public water supply, which originates from production wells screened in an unconfined sand and gravel aquifer, approximately 1 mile southwest and upgradient from the study area. It is not anticipated that the groundwater in the site vicinity will be used as a source of potable water in the future. In addition, the only analytes exceeding SCGs in groundwater were iron and sodium, and these analytes are naturally occurring in groundwater aquifers. There were no organic compounds commonly associated with MGP products (i.e., BTEX, PAHs, furans, phenolics) above detectable levels in any of the groundwater samples. Therefore, the exposure pathway is considered incomplete under both the current use (Table 6-2) and future use (Table 6-3) scenarios.

6.3.6 Summary

Under the current and future use scenarios, direct contact with surface soil is considered a potentially complete exposure pathway.

Under the current and future use scenarios, the exposure pathways for subsurface soil, soil vapor, indoor and outdoor air, and groundwater are considered to be incomplete.

6.4 Toxicity Assessment

The CPCs identified in Section 6.1 can be categorized by their toxicity and their relative effects on human health. Toxicological effects are divided into carcinogenic (cancer causing) and non-carcinogenic effects, with non-carcinogenic data further subdivided into chronic and long-term sub-chronic (less than seven years) critical effects.

6.4.1 Carcinogenic Effects

Ten of the 27 CPCs identified on Table 6-1 are classified as carcinogenic in the SmartTOX database. The SmartTOX Toxicity Value Lookup Table incorporates the current information on USEPA's Integrated Risk Information System (IRIS) and the Health Effects Assessment Summary Tables (HEAST). The USEPA classifies chemicals for carcinogenicity based on the "weight-of-evidence" expressing the degree of confidence relating to the likelihood that exposure to a given chemical could cause cancer in humans (USEPA 1997a). Table 6-4 identifies the toxicity values and potential carcinogenic effects for the 10 carcinogenic CPCs.

6.4.2 Non-carcinogenic Effects

Critical effects express the toxic endpoint(s) of an adverse response (such as liver damage) associated with the exposure to non-carcinogenic chemicals. Table 6-5 identifies the toxicity values and potential non-carcinogenic effects for all 27 site CPCs.

6.4.3 Summary

From the 27 CPCs identified on Table 6-1, 10 are classified as carcinogenic in the SmartTOX database. Table 6-4 identifies the toxicity values and potential carcinogenic effects for these 10 CPCs. Table 6-5 identifies the toxicity values and potential non-carcinogenic effects for all 27 site CPCs.

6.5 Qualitative Human Health Exposure Assessment Summary

This qualitative HHEA for the site identified 27 CPCs in the surface soil, subsurface soil, and groundwater. Ten of these CPCs are classified by USEPA as carcinogens.

Under the current use scenario, contractors and trespassers may be exposed to surface soil contamination. Under the future use scenarios, residents, contractors, and trespassers may be

exposed to surface soil contamination. Under both scenarios, exposure pathways for all other potentially contaminated media are considered to be incomplete.

7.0 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

7.1 Summary

NYSEG is investigating this site at the request of the NYSDEC who discovered the possible existence of a former gasholder while reviewing historic Sanborn maps of the Cortland area. The objective of the Remedial Investigation (RI) was to: 1) to determine the horizontal and vertical extent of potentially MGP-impacted surface and subsurface soils at the properties; and 2) to determine if groundwater is impacted with MGP wastes; 3) assess and evaluate the potential impacts on soil vapor and indoor air at 43 and 45 Charles Street; and 4) to complete a Remedial Investigation (RI) report for all of the data collected at the properties to date. The RI provides sufficient information to allow for a Feasibility Study (FS) to be completed as the next step in the remedial process.

Historical data has been combined with data obtained during this investigation to generate a comprehensive summary of findings at the site. The report summarizes investigation work completed in May 2008 at NYSEG's former off-site gasholder site associated with the Homer former Manufactured Gas Plant (MGP) site in the City of Cortland, Cortland County, New York, as well as previous work completed by URS at the site (in November 2005, April 2006, June 2006, November 2006, and March 2007) that was summarized in a *Preliminary Site Assessment Report*, prepared by URS and submitted to the NYSDEC October 4, 2007.

Based upon the information provided in this report, the nature and extent of environmental contamination associated with the former remote holder has been completely determined. The primary conclusions are presented below.

7.2 Conclusions

Physical Characteristics of the Study Area

- The site area is situated in an urban setting and filling operations associated with anthropogenic activities have occurred over and beyond the past 100 years. The exact origin of the fill could not be differentiated as part of the investigation, however, it is likely that the fill originated from multiple sources.

- In the central western area of the site (i.e, northwest portion of 43 Charles Street, southwest portion of 45 Charles street, and extending approximately 15 feet west into Charles Street), soils consisted primarily of reworked brown to gray brown clayey silt with cobbles and gravel and ash to approximately 6 feet bgs. At approximately 6 feet bgs significantly more fill materials including glass, bottles, bricks, firebrick, ash, cinder, coal, and metal pipe were encountered. The fill debris extended to depths ranging from approximately 10 to 13 feet bgs.

- At the base of the fill/debris, a darkly stained silt and ash layer, ranging from 1-inch to 1-foot in thickness, and exhibiting a slight odor was present in most borings (i.e., SB-05, SB-08, SB-11, SB-14, SB-17, SB-20, SB-25, and SB-27). The odors observed ranged from a musty decay like odor (SB-08 and SB-11), to a mild to moderate naphthalene-like odor typical of MGP sites (SB-05, SB-14, SB-17, SB-20, and SB-27).

- There were minimal to no odors in the areas investigated with the exception of a mild to moderate naphthalene-like odor typical of MGP sites in the thin (0.2 to 1.0 foot thick) darkly stained silt and ash layer present at depths ranging from 9.5 to 12 feet bgs in some borings.

- Groundwater at the site was observed to occur at a depth of about 14 to 15 feet, with flow to the east and a low horizontal gradient of approximately 0.002 foot/foot.

- No direct evidence of the former gasholder was found during this investigation.

- No visible identification of spent oxide chips was observed.

Nature and Extent of Contamination

Subsurface Soils

- VOCs (ethylbenzene and xylene) were detected at concentrations exceeding the SCGs in only one of the subsurface samples collected, at SB-14 from 11 to 12 feet bgs. Sampling points surrounding this location did not detect any VOCs at concentrations exceeding SCGs, indicating it is an isolated occurrence.

- Several SVOCs, consisting primarily of PAHs, were detected in the test trenches and soil borings at concentrations exceeding the SCGs (see Table 4-1 through 4-8).

- Widespread, low level concentrations of SVOCs were indicated in test trenches TP-01 and TP-02, with a slight observable decrease in concentration with depth (i.e., concentrations were generally higher from 2.5 to 5.5 feet bgs and lower at 7.0 feet bgs). At TP-03, however, concentrations of SVOCs were generally higher and increased with depth in the fill debris.

- The area with the most frequent detections of SVOCs and the highest concentrations is the western side of the site in the vicinity of SB-05, SB-08, SB-11, SB-14, SB-17, SB-20, and SB-27 where ash/fill materials were observed to depths greater than 12 feet bgs. A thin layer, approximately 0.2 to 1.0 feet in thickness, of stained silt was observed in all of these borings at depths ranging from 9.5 to 12 feet bgs. Total SVOC concentrations ranged from 4,260 to 7,707,000 µg/kg at depths from 9 to 12 feet bgs in these borings. SVOC concentrations generally decreased below these depths (i.e., in native soils below the stained silt layer). Based on presence of fill materials, depth of filling (coinciding with the probable depth of the former gasholder), and the presence of potential MGP wastes at the base of the fill, it is assumed that all these boring/sampling locations are within the footprint of the former gasholder, indicating the location of the former gasholder is probably more to the west than initially postulated.

- The area with the highest SVOC concentrations generally coincides with the area of ash/fill materials on the western side of the site. Based on boring observations and the approximate size of the former gasholder (based on reported gasholder volume

and dimensions shown on historical Sanborn Maps) the fill area likely ends near the centerline of Charles Street, extends as far north as SB-23, as far south as SB-26 and as far east as the eastern end of TP-03.

- Lower concentrations of SVOCs also were detected at a depth of 12 to 13.5 feet bgs in boring SB-04 on the eastern side of the site.

- No SVOCs exceeded the SCGs in any sample collected from the water bearing silty fine to coarse gravel observed across the site at an approximate depth of 15 to16 feet bgs.

Surface and Shallow Soil

- Although the shallow soils did not always exhibit typical fill characteristics, the widespread nature and depth of contamination detected indicate that fill materials most likely extend to a depth of approximately 5 feet bgs across the entire site an deeper in the probable area of the former holder.

Groundwater

- No VOCs or SVOCs were detected in the groundwater samples indicating the groundwater has not been impacted.

Indoor Air and Subslab Soil Vapor

- Volatile organic compounds were present in the indoor air of both homes at levels consistent with homes not affected by environmental contamination. Based on review of the indoor air and subslab soil vapor data, the NYSDEC and NYSDOH determined that no action is needed at this time to address potential for soil vapor intrusion in the two residences.

Contaminant Fate and Transport

- Migration of contaminants through the gas phase, either in the soil vapor or in the atmosphere, is likely to be of little significance since results of soil vapor/air samples collected at the site indicate no significant impact to indoor/outdoor air.

- Infiltration-induced downward migration of VOCs and SVOCs is unlikely to be a significant transport process at the site, since results of groundwater samples collected at the site indicate no impacts to the underlying saturated zone.

- While some migration of surface soil contaminants may occur via erosional processes, it will be significantly limited by the residential structures, paved surfaces, vegetation cover, and flat topography at the site.

- Rates of contaminant degradation in the unsaturated zone are expected to be relatively low. While VOCs may degrade, other organic compounds detected in the unsaturated zone at the site are relatively non-degradable and are likely to persist. Metals are recalcitrant.

- No MGP-related VOCs or SVOCs were present above detectable levels in groundwater samples collected at the site. The presence of iron and sodium in groundwater at concentrations exceeding SCGs is attributable to background geological conditions. There is no evidence that migration of SVOCs from soil to groundwater is occurring at the site.

Qualitative Human Health Exposure Assessment

- Under the current use scenario, contractors and trespassers may be exposed to surface soil contamination. Under the future use scenarios, residents, contractors, and trespassers may be exposed to surface soil contamination. Under both scenarios, exposure pathways for all other potentially contaminated media are considered to be incomplete.

Recommendations for the next steps in the remedial process are presented below.

7.3 Recommendations

The nature and extent of environmental contamination associated with the former remote holder has been determined. Based upon this information, a Feasibility Study should be conducted to evaluate remedial alternatives for the site. In addition, NYSEG should develop a site management plan (SMP) to identify institutional controls and engineering controls (IC/ECs) for future use on property owned by the City of Cortland. The SMP would be developed to establish the controls and procedures necessary to manage contaminated soils that may be encountered during maintenance or future activities within the Charles Street right-of-way, including the procedures for soil characterization and handling; health and safety of the workers and the community; disposal/reuse in accordance with applicable regulations and procedures.

8.0 REFERENCES

ERT & Koppers Company, Inc./Utility Solid Waste Activities Group Superfund Committee/. September 1984, *Handbook on Manufactured Gas Plant Sites*.

Gas Research Institute, October 1987, *Management of Manufactured Gas Plant Sites,* Volume II, Site Investigation.

Miller, T.S., Sherwood, D.A., Jeffers, P.M., Mueller, N., 1998, Hydrology, Water-Quality, and Simulation of Ground-Water Flow in a Glacial Aquifer System, Cortland County, New York: United States Geological Society (USGS) Water-Resources Investigations Report 96-4255.

New York State Department of Environmental Conservation, January 24, 1994, *Division Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objectives and Cleanup Levels* (HWR-94-4046).

URS Corporation, October 2007. *Preliminary Site Assessment*.

URS Corporation, February 2008. *Remedial Investigation Letter Work Plan*.

United States Environmental Protection Agency (USEPA), 1997a. *Ecological Risk Assessment Guidance for Superfund: Processes for Designing and Conducting Ecological Risk Assessments.*

USEPA, July 2000, *A Resource for MGP Site Characterization and Remediation*, EPA 542-R-00-005.

"Web Soil Survey". Web Soil Survey. December 11, 2006. http://websoilsurvey.nrcs.usda.gov.

TABLES

TABLE 2-1
SURVEY INFORMATION
NYSEG - CORTLAND

Location ID	Type	Northing	Easting	Ground Elevation (ft)
PZ-01	Piezometer	949239.66	929013.36	1118.56
PZ-02	Piezometer	949305.17	929008.71	1119.11
PZ-03	Piezometer	949265.49	928947.38	1118.77
PZ-04	Piezometer	949279.89	929004.64	1119.10
SB-01	Borehole	949265.96	928981.76	1119.29
SB-02	Borehole	949239.27	929012.44	1118.59
SB-03	Borehole	949240.51	929000.69	1118.86
SB-04	Borehole	949262.45	929011.79	1118.76
SB-05	Borehole	949278.47	928961.18	1118.57
SB-06	Borehole	949239.66	929013.36	1118.56
SB-07	Borehole	949305.17	929008.71	1119.11
SB-08	Borehole	949265.49	928947.38	1118.77
SB-09	Borehole	949279.89	929004.64	1119.10
SB-10	Borehole	949275.91	928983.61	1119.51
SB-11-1	Borehole	949278.57	928946.46	1118.74
SB-11-2	Borehole	949277.44	928947.39	1118.71
SB-11-3	Borehole	949279.88	928950.45	1118.74
SB-11-4	Borehole	949276.90	928951.88	1118.58
SB-12	Borehole	949289.48	928931.04	NA
SB-13	Borehole	949296.99	928942.67	NA
SB-14	Borehole	949244.64	928945.99	NA
SB-15	Borehole	949226.66	928947.48	NA
SB-16	Borehole	949247.10	928935.59	NA
SB-17	Borehole	949263.10	928934.38	NA
SB-18	Borehole	949227.93	928987.33	1119.33
SB-19	Borehole	949227.45	928961.88	1119.35
SB-20	Borehole	949272.17	928938.04	1118.62
SB-21	Borehole	949318.26	928954.79	1119.38
SB-22	Borehole	949320.18	928980.66	1118.62
SB-23	Borehole	949288.49	928937.55	1118.91
SB-24	Borehole	949302.82	928936.43	1118.69

TABLE 2-1
SURVEY INFORMATION
NYSEG - CORTLAND

Location ID	Type	Northing	Easting	Ground Elevation (ft)
SB-25	Borehole	949252.38	928939.75	1118.87
SB-26	Borehole	949239.70	928941.0	1118.90
SB-27	Borehole	949272.53	928926.14	1118.70
SB-28	Borehole	949271.27	928905.91	1118.81
SS-01	Surface Soil	949301.73	928942.47	NA
SS-02	Surface Soil	949308.63	929007.17	NA
SS-03	Surface Soil	949290.48	929008.94	NA
SS-04	Surface Soil	949247.42	928945.60	NA
SS-05	Surface Soil	949261.59	929009.49	NA
SS-06	Surface Soil	949241.61	929005.86	NA
SS-07	Surface Soil	949241.78	929007.86	1118.70
SS-08	Surface Soil	949253.67	929009.45	1118.74
SS-09	Surface Soil	949270.62	929008.97	1118.75
SS-10	Surface Soil	949266.64	928979.72	1119.13
SS-11	Surface Soil	949264.26	928957.31	1118.83
SS-12	Surface Soil	949276.10	928955.15	1118.57
SS-13	Surface Soil	949274.87	928977.84	1119.52
SS-14	Surface Soil	949277.76	928995.27	1119.10
SS-15	Surface Soil	949288.80	929000.24	1119.22
SS-16	Surface Soil	949307.23	929005.94	1119.26
TP-01	Test Pit	949259	928999	1118.86
TP-02	Test Pit	949281	928995	1119.20
TP-03	Test Pit	949269	928961	1118.66

TABLE 4-1
SUMMARY OF DETECTED TEST PIT SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			TP-01	TP-01	TP-01	TP-01	TP-02
Sample ID			TP-01-2.5	TP-00-1.0	TP-01-5.0	TP-01-7.5	TP-02-2.5
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			2.5-2.5	5.0-5.0	5.0-5.0	7.5-7.5	2.5-2.5
Date Sampled			11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	**Units**	**Criteria***		Field Duplicate (1-1)			
Volatile Organic Compounds							
Toluene	UG/KG	100000	6 U	2 J	4 J	5 J	6 U
Total BTEX	UG/KG	-	ND	2	4	5	ND
Total Volatile Organic Compounds	UG/KG	-	ND	2	4	5	ND
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/KG	-	23 J	380 U	1,800 U	380 U	1,900 U
Acenaphthene	UG/KG	100000	29 J	380 U	1,800 U	380 U	1,900 U
Acenaphthylene	UG/KG	100000	240 J	170 J	300 J	380 U	580 J
Anthracene	UG/KG	100000	320 J	150 J	300 J	380 U	660 J
Benzo(a)anthracene	UG/KG	1000	2,000	1,100	2,200	110 J	5,500
Benzo(a)pyrene	UG/KG	1000	1,900	970	1,700 J	88 J	4,800
Benzo(b)fluoranthene	UG/KG	1000	2,400	1,200	2,200	110 J	6,000
Benzo(g,h,i)perylene	UG/KG	100000	1,200	630	1,100 J	52 J	2,600
Benzo(k)fluoranthene	UG/KG	1000	630	360 J	790 J	33 J	1,800 J
bis(2-Ethylhexyl)phthalate	UG/KG	-	380 U	380 U	1,800 U	380 U	1,900 U
Carbazole	UG/KG	-	130 J	42 J	1,800 U	380 U	220 J
Chrysene	UG/KG	1000	1,800	990	1,900	94 J	5,200
Dibenzo(a,h)anthracene	UG/KG	330	350 J	190 J	270 J	380 U	900 J
Dibenzofuran	UG/KG	14000	48 J	380 U	1,800 U	380 U	1,900 U
Fluoranthene	UG/KG	100000	3,600	1,600	3,400	160 J	8,400
Fluorene	UG/KG	100000	86 J	31 J	1,800 U	380 U	100 J
Indeno(1,2,3-cd)pyrene	UG/KG	500	1,100	560	1,000 J	51 J	2,500
Naphthalene	UG/KG	100000	85 J	50 J	1,800 U	380 U	1,900 U

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-1
SUMMARY OF DETECTED TEST PIT SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			TP-01	TP-01	TP-01	TP-01	TP-02
Sample ID			TP-01-2.5	TP-00-1.0	TP-01-5.0	TP-01-7.5	TP-02-2.5
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			2.5-2.5	5.0-5.0	5.0-5.0	7.5-7.5	2.5-2.5
Date Sampled			11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	**Units**	**Criteria***		Field Duplicate (1-1)			
Semivolatile Organic Compounds							
Phenanthrene	UG/KG	100000	1,200	410	1,000 J	380 U	2,200
Pyrene	UG/KG	100000	3,100	1,400	2,900	150 J	7,100
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	20,040	9,811	19,060	848	48,340
Total Semivolatile Organic Compounds	UG/KG	-	20,241	9,853	19,060	848	48,560
Metals							
Aluminum	MG/KG	-	12,500 J	10,400 J	11,700 J	13,200 J	9,740 J
Arsenic	MG/KG	16	6.9	4.4	5.2	6.2	5.8
Barium	MG/KG	350	75.8 J	55.3 J	59.0 J	59.0 J	56.3 J
Beryllium	MG/KG	14	0.50	0.41	0.46	0.51	0.41
Cadmium	MG/KG	2.5	0.42	0.26	0.26	0.53	0.32
Calcium	MG/KG	-	2,900 J	2,390 J	2,700 J	1,940 J	9,690 J
Chromium	MG/KG	36	15.3	12.1	13.3	13.8	12.4
Cobalt	MG/KG	-	9.5	7.5	9.0	9.2	7.4
Copper	MG/KG	270	24.5	24.0	19.3	20.3	20.4
Iron	MG/KG	-	23,200 J	21,400 J	22,100 J	24,500 J	18,800 J
Lead	MG/KG	400	74.6 J	32.1 J	30.2 J	34.3 J	43.0 J
Magnesium	MG/KG	-	3,640 J	3,310 J	3,710 J	3,440 J	4,260 J
Manganese	MG/KG	2000	961 J	688 J	880 J	1,050 J	697 J
Mercury	MG/KG	0.81	0.157	0.048	0.053	0.051	0.125
Nickel	MG/KG	140	20.8	17.9	20.2	21.6	18.2
Potassium	MG/KG	-	880	650	771	713	619
Vanadium	MG/KG	-	19.9	14.0	16.7	19.1	13.7

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

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[MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'TP-

TABLE 4-1
SUMMARY OF DETECTED TEST PIT SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			TP-01	TP-01	TP-01	TP-01	TP-02
Sample ID			TP-01-2.5	TP-00-1.0	TP-01-5.0	TP-01-7.5	TP-02-2.5
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			2.5-2.5	5.0-5.0	5.0-5.0	7.5-7.5	2.5-2.5
Date Sampled			11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	**Units**	**Criteria***		Field Duplicate (1-1)			
Metals							
Zinc	MG/KG	2200	130 J	74.1 J	75.5 J	164 J	101 J
Miscellaneous Parameters							
Total Organic Carbon (TOC)	MG/KG	-	NA	12,000	8,700	NA	NA

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-1
SUMMARY OF DETECTED TEST PIT SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			TP-02	TP-02	TP-03	TP-03	TP-03
Sample ID			TP-02-5.5	TP-02-7.0	TP-03-2.5	TP-03-5.5	TP-03-10.5
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			5.5-5.5	7.0-7.0	2.5-2.5	5.5-5.5	10.5-10.5
Date Sampled			11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
Toluene	UG/KG	100000	2 J	3 J	6 U	6	6 U
Total BTEX	UG/KG	-	2	3	ND	6	ND
Total Volatile Organic Compounds	UG/KG	-	2	3	ND	6	ND
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/KG	-	380 U	430 U	33 J	180 J	1,100 J
Acenaphthene	UG/KG	100000	380 U	430 U	46 J	230 J	1,100 J
Acenaphthylene	UG/KG	100000	380 U	430 U	210 J	620 J	3,200
Anthracene	UG/KG	100000	380 U	23 J	340 J	750 J	7,400
Benzo(a)anthracene	UG/KG	1000	140 J	190 J	1,800	3,900	12,000
Benzo(a)pyrene	UG/KG	1000	120 J	150 J	1,500	3,700	8,900
Benzo(b)fluoranthene	UG/KG	1000	200 J	170 J	1,800	4,400	10,000
Benzo(g,h,i)perylene	UG/KG	100000	73 J	30 J	790	2,400	4,900
Benzo(k)fluoranthene	UG/KG	1000	190 J	65 J	650	1,600 J	3,600
bis(2-Ethylhexyl)phthalate	UG/KG	-	380 U	430 U	94 J	1,900 U	2,200 U
Carbazole	UG/KG	-	380 U	430 U	160 J	750 J	2,000 J
Chrysene	UG/KG	1000	120 J	140 J	1,600	3,800	10,000
Dibenzo(a,h)anthracene	UG/KG	330	22 J	29 J	270 J	620 J	1,300 J
Dibenzofuran	UG/KG	14000	380 U	430 U	75 J	320 J	3,000
Fluoranthene	UG/KG	100000	190 J	260 J	3,500	8,500	29,000
Fluorene	UG/KG	100000	380 U	430 U	120 J	340 J	4,900
Indeno(1,2,3-cd)pyrene	UG/KG	500	68 J	78 J	800	2,200	4,500
Naphthalene	UG/KG	100000	380 U	430 U	72 J	620 J	1,100 J

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-1
SUMMARY OF DETECTED TEST PIT SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			TP-02	TP-02	TP-03	TP-03	TP-03
Sample ID			TP-02-5.5	TP-02-7.0	TP-03-2.5	TP-03-5.5	TP-03-10.5
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			5.5-5.5	7.0-7.0	2.5-2.5	5.5-5.5	10.5-10.5
Date Sampled			11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Phenanthrene	UG/KG	100000	46 J	51 J	1,500	5,300	27,000
Pyrene	UG/KG	100000	180 J	230 J	2,900	7,400	22,000
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	1,349	1,416	17,898	46,380	150,900
Total Semivolatile Organic Compounds	UG/KG	-	1,349	1,416	18,260	47,630	157,000
Metals							
Aluminum	MG/KG	-	15,200 J	14,200 J	11,100 J	10,900 J	5,990 J
Arsenic	MG/KG	16	5.2	4.6	5.6	7.2	10.6
Barium	MG/KG	350	31.5 J	70.7 J	84.4 J	76.1 J	62.6 J
Beryllium	MG/KG	14	0.54	0.50	0.44	0.48	0.53
Cadmium	MG/KG	2.5	0.28	0.23 U	0.30	0.25	1.6
Calcium	MG/KG	-	1,160 J	3,310 J	2,640 J	4,760 J	3,440 J
Chromium	MG/KG	36	15.8	14.3	13.2	13.2	8.8
Cobalt	MG/KG	-	10.6	9.9	7.5	8.1	6.0
Copper	MG/KG	270	19.0	14.0	19.9	24.6	37.5
Iron	MG/KG	-	24,400 J	24,700 J	18,900 J	19,500 J	19,700 J
Lead	MG/KG	400	13.1 J	18.0 J	84.3 J	150 J	598 J
Magnesium	MG/KG	-	4,180 J	3,960 J	3,040 J	3,330 J	1,250 J
Manganese	MG/KG	2000	549 J	1,040 J	571 J	744 J	470 J
Mercury	MG/KG	0.81	0.047	0.022	0.097	0.058	0.363
Nickel	MG/KG	140	27.7	18.9	18.0	18.0	11.9
Potassium	MG/KG	-	622	726	696	702	393
Vanadium	MG/KG	-	16.0	20.3	16.5	21.5	16.0

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-1
SUMMARY OF DETECTED TEST PIT SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			TP-02	TP-02	TP-03	TP-03	TP-03
Sample ID			TP-02-5.5	TP-02-7.0	TP-03-2.5	TP-03-5.5	TP-03-10.5
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			5.5-5.5	7.0-7.0	2.5-2.5	5.5-5.5	10.5-10.5
Date Sampled			11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	**Units**	**Criteria***					
Metals							
Zinc	MG/KG	2200	67.5 J	71.5 J	89.5 J	104 J	407 J
Miscellaneous Parameters							
Total Organic Carbon (TOC)	MG/KG	-	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.
J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.
NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).
UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-01	SB-03	SB-04	SB-04	SB-05
Sample ID			SB01-10-12	SB03-15-17	DUP-01	SB04-12-13.5	SB05-11-12
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			10.0-12.0	15.0-17.0	12.0-13.5	12.0-13.5	11.0-12.0
Date Sampled			11/10/05	11/10/05	11/10/05	11/10/05	11/10/05
Parameter	**Units**	**Criteria***			Field Duplicate (1-1)		
Volatile Organic Compounds							
Acetone	UG/KG	100000	27 U	27 U	26 U	26 U	41
Benzene	UG/KG	2900	5 U	5 U	5 U	5 U	8
Carbon disulfide	UG/KG	-	5 U	5 U	5 U	5 U	2 J
Ethylbenzene	UG/KG	30000	5 U	5 U	5 U	5 U	12
Isopropylbenzene (Cumene)	UG/KG	-	5 U	5 U	5 U	5 U	5 U
Methyl ethyl ketone (2-Butanone)	UG/KG	100000	27 U	27 U	26 U	26 U	8 J
Styrene	UG/KG	-	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	UG/KG	5500	5 U	5 U	5 U	5 U	5 U
Toluene	UG/KG	100000	5 U	5 U	5 U	5 U	10
Xylene (total)	UG/KG	100000	16 U	16 U	16 U	16 U	62
Total BTEX	UG/KG	-	ND	ND	ND	ND	92
Total Volatile Organic Compounds	UG/KG	-	ND	ND	ND	ND	143
Semivolatile Organic Compounds							
1,1'-Biphenyl	UG/KG	-	360 U	350 U	1,700 U	1,700 U	12,000
2,4-Dimethylphenol	UG/KG	-	360 U	350 U	1,700 U	1,700 U	3,600 J
2-Methylnaphthalene	UG/KG	-	360 U	350 U	1,700 U	1,700 U	52,000
2-Methylphenol (o-cresol)	UG/KG	100000	360 U	350 U	1,700 U	1,700 U	11,000 U
4-Methylphenol (p-cresol)	UG/KG	34000	360 U	350 U	1,700 U	1,700 U	11,000 U
Acenaphthene	UG/KG	100000	360 U	350 U	1,700 U	1,700 U	60,000
Acenaphthylene	UG/KG	100000	360 U	350 U	130 J	120 J	28,000
Anthracene	UG/KG	100000	360 U	350 U	250 J	180 J	110,000
Benzo(a)anthracene	UG/KG	1000	360 U	350 U	1,400 J	1,200 J	160,000

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-01	SB-03	SB-04	SB-04	SB-05
Sample ID			SB01-10-12	SB03-15-17	DUP-01	SB04-12-13.5	SB05-11-12
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			10.0-12.0	15.0-17.0	12.0-13.5	12.0-13.5	11.0-12.0
Date Sampled			11/10/05	11/10/05	11/10/05	11/10/05	11/10/05
Parameter	**Units**	**Criteria***			Field Duplicate (1-1)		
Semivolatile Organic Compounds							
Benzo(a)pyrene	UG/KG	1000	360 U	350 U	1,100 J	1,100 J	120,000
Benzo(b)fluoranthene	UG/KG	1000	360 U	350 U	1,200 J	1,200 J	130,000
Benzo(g,h,i)perylene	UG/KG	100000	360 U	350 U	620 J	560 J	72,000
Benzo(k)fluoranthene	UG/KG	1000	360 U	350 U	650 J	630 J	55,000
Carbazole	UG/KG	-	360 U	350 U	1,700 U	1,700 U	73,000
Chrysene	UG/KG	1000	360 U	350 U	1,200 J	1,000 J	150,000
Dibenzo(a,h)anthracene	UG/KG	330	360 U	350 U	170 J	210 J	22,000
Dibenzofuran	UG/KG	14000	360 U	350 U	1,700 U	1,700 U	74,000
Fluoranthene	UG/KG	100000	360 U	350 U	2,100	1,600 J	520,000 D
Fluorene	UG/KG	100000	360 U	350 U	1,700 U	1,700 U	100,000
Indeno(1,2,3-cd)pyrene	UG/KG	500	360 U	350 U	590 J	530 J	67,000
Naphthalene	UG/KG	100000	360 U	350 U	1,700 U	1,700 U	160,000
Phenanthrene	UG/KG	100000	360 U	350 U	620 J	360 J	680,000 D
Phenol	UG/KG	100000	360 U	350 U	1,700 U	1,700 U	55,000 U
Pyrene	UG/KG	100000	360 U	350 U	1,900	1,500 J	420,000 D
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	ND	ND	11,930	10,190	2,854,000
Total Semivolatile Organic Compounds	UG/KG	-	ND	ND	11,930	10,190	3,068,600
Metals							
Aluminum	MG/KG	-	6,230 J	6,070 J	10,300 J	10,100 J	9,790 J
Arsenic	MG/KG	16	3.7	2.3	5.2	5.3	12.2
Barium	MG/KG	350	31.3 J	28.6 J	45.6 J	51.3 J	51.5 J
Beryllium	MG/KG	14	0.31	0.25	0.42	0.42	0.54

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-01	SB-03	SB-04	SB-04	SB-05
Sample ID			SB01-10-12	SB03-15-17	DUP-01	SB04-12-13.5	SB05-11-12
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			10.0-12.0	15.0-17.0	12.0-13.5	12.0-13.5	11.0-12.0
Date Sampled			11/10/05	11/10/05	11/10/05	11/10/05	11/10/05
Parameter	**Units**	**Criteria***			Field Duplicate (1-1)		
Metals							
Cadmium	MG/KG	2.5	0.23 U	0.23 U	0.33	0.29	0.38 U
Calcium	MG/KG	-	61,400	27,600	2,590 J	23,200 J	72,400
Chromium	MG/KG	36	8.5	7.9	13.4	12.8	13.5
Cobalt	MG/KG	-	5.7	4.9	8.9	8.3	7.8
Copper	MG/KG	270	21.8	7.3	16.8	22.2	29.2
Iron	MG/KG	-	14,200 J	13,700 J	30,000 J	23,100 J	19,300 J
Lead	MG/KG	400	8.7	3.6	13.5	12.0	390
Magnesium	MG/KG	-	15,700 J	5,560 J	3,090 J	8,810 J	22,200 J
Manganese	MG/KG	2000	484 J	290 J	829 J	989 J	403 J
Mercury	MG/KG	0.81	0.018 U	0.019 U	0.051	0.041	0.140
Nickel	MG/KG	140	14.2	11.3	19.4	19.8	20.9
Potassium	MG/KG	-	786	593	502	791	1,020
Sodium	MG/KG	-	163 U	164 U	142 U	160 U	316
Vanadium	MG/KG	-	9.2	8.3	16.4	14.6	23.7
Zinc	MG/KG	2200	67.2	31.1	59.3	58.3	89.8
Miscellaneous Parameters							
Cyanide	MG/KG	27	1.1 U	0.85 U	1.0 U	0.97 U	1.8 U
Cyanide, Amenable To Chlorination	MG/KG	-	0.98 U	1.1 U	0.84 U	1.1 U	1.4 U
Total Organic Carbon (TOC)	MG/KG	-	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-05	SB-06	SB-06	SB-07	SB-07
Sample ID			SB05-15-16	SB06-14-16	SB06-16-18	SB07-13-15	SB07-15-16
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			15.0-16.0	14.0-16.0	16.0-18.0	13.0-15.0	15.0-16.0
Date Sampled			11/10/05	11/11/05	11/11/05	11/11/05	11/11/05
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
Acetone	UG/KG	100000	26 U	25 U	27 U	NA	27 U
Benzene	UG/KG	2900	5 U	5 U	5 U	NA	5 U
Carbon disulfide	UG/KG	-	5 U	5 U	5 U	NA	5 U
Ethylbenzene	UG/KG	30000	5 U	5 U	5 U	NA	5 U
Isopropylbenzene (Cumene)	UG/KG	-	5 U	5 U	5 U	NA	5 U
Methyl ethyl ketone (2-Butanone)	UG/KG	100000	26 U	25 U	27 U	NA	27 U
Styrene	UG/KG	-	5 U	5 U	5 U	NA	5 U
Tetrachloroethene	UG/KG	5500	5 U	5 U	2 J	NA	5 U
Toluene	UG/KG	100000	5 U	5 U	5 U	NA	5 U
Xylene (total)	UG/KG	100000	16 U	15 U	16 U	NA	16 U
Total BTEX	UG/KG	-	ND	ND	ND	NA	ND
Total Volatile Organic Compounds	UG/KG	-	ND	ND	2	NA	ND
Semivolatile Organic Compounds							
1,1'-Biphenyl	UG/KG	-	1,800 U	340 U	360 U	NA	350 U
2,4-Dimethylphenol	UG/KG	-	1,800 U	340 U	360 U	NA	350 U
2-Methylnaphthalene	UG/KG	-	810 J	340 U	360 U	NA	350 U
2-Methylphenol (o-cresol)	UG/KG	100000	1,800 U	340 U	360 U	NA	350 U
4-Methylphenol (p-cresol)	UG/KG	34000	1,800 U	340 U	360 U	NA	350 U
Acenaphthene	UG/KG	100000	750 J	340 U	360 U	NA	350 U
Acenaphthylene	UG/KG	100000	780 J	340 U	360 U	NA	350 U
Anthracene	UG/KG	100000	1,800	340 U	360 U	NA	350 U
Benzo(a)anthracene	UG/KG	1000	3,100	30 J	360 U	NA	52 J

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-05	SB-06	SB-06	SB-07	SB-07
Sample ID			SB05-15-16	SB06-14-16	SB06-16-18	SB07-13-15	SB07-15-16
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			15.0-16.0	14.0-16.0	16.0-18.0	13.0-15.0	15.0-16.0
Date Sampled			11/10/05	11/11/05	11/11/05	11/11/05	11/11/05
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Benzo(a)pyrene	UG/KG	1000	2,500	19 J	360 U	NA	44 J
Benzo(b)fluoranthene	UG/KG	1000	4,100	28 J	360 U	NA	67 J
Benzo(g,h,i)perylene	UG/KG	100000	1,600 J	340 U	360 U	NA	26 J
Benzo(k)fluoranthene	UG/KG	1000	4,300	340 U	360 U	NA	72 J
Carbazole	UG/KG	-	1,000 J	340 U	360 U	NA	350 U
Chrysene	UG/KG	1000	3,000	26 J	360 U	NA	42 J
Dibenzo(a,h)anthracene	UG/KG	330	440 J	340 U	360 U	NA	350 U
Dibenzofuran	UG/KG	14000	1,200 J	340 U	360 U	NA	350 U
Fluoranthene	UG/KG	100000	8,600	45 J	360 U	NA	76 J
Fluorene	UG/KG	100000	1,800	340 U	360 U	NA	350 U
Indeno(1,2,3-cd)pyrene	UG/KG	500	1,400 J	340 U	360 U	NA	22 J
Naphthalene	UG/KG	100000	1,400 J	34 J	360 U	NA	350 U
Phenanthrene	UG/KG	100000	9,800	26 J	360 U	NA	30 J
Phenol	UG/KG	100000	1,800 U	340 U	360 U	NA	350 U
Pyrene	UG/KG	100000	6,300	340 U	360 U	NA	350 U
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	51,670	208	ND	NA	431
Total Semivolatile Organic Compounds	UG/KG	-	54,680	208	ND	NA	431
Metals							
Aluminum	MG/KG	-	6,020 J	4,970 J	4,270 J	NA	8,580 J
Arsenic	MG/KG	16	4.8	2.6	2.8	NA	3.6
Barium	MG/KG	350	34.7 J	25.8 J	24.2 J	NA	38.0 J
Beryllium	MG/KG	14	0.31	0.24	0.30	NA	0.33

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-05	SB-06	SB-06	SB-07	SB-07
Sample ID			SB05-15-16	SB06-14-16	SB06-16-18	SB07-13-15	SB07-15-16
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			15.0-16.0	14.0-16.0	16.0-18.0	13.0-15.0	15.0-16.0
Date Sampled			11/10/05	11/11/05	11/11/05	11/11/05	11/11/05
Parameter	**Units**	**Criteria***					
Metals							
Cadmium	MG/KG	2.5	0.24	0.18 U	0.20 U	NA	0.23
Calcium	MG/KG	-	76,800	33,900	199,000	NA	39,400
Chromium	MG/KG	36	9.3	6.2	5.8	NA	12.4
Cobalt	MG/KG	-	5.3	4.0	3.6	NA	7.2
Copper	MG/KG	270	16.3	8.2	12.1	NA	22.7
Iron	MG/KG	-	13,400 J	11,500 J	9,090 J	NA	19,500 J
Lead	MG/KG	400	68.2	5.2	3.9	NA	10.7
Magnesium	MG/KG	-	15,300 J	4,130 J	11,000 J	NA	9,770 J
Manganese	MG/KG	2000	426 J	639 J	414 J	NA	515 J
Mercury	MG/KG	0.81	0.026	0.038	0.017 U	NA	0.016 U
Nickel	MG/KG	140	12.7	10.8	9.0	NA	17.7
Potassium	MG/KG	-	756	460	694	NA	813
Sodium	MG/KG	-	155 U	125 U	159	NA	147 U
Vanadium	MG/KG	-	10.2	6.8	6.1	NA	12.2
Zinc	MG/KG	2200	53.5	30.5	27.2	NA	65.8
Miscellaneous Parameters							
Cyanide	MG/KG	27	1.1 U	0.82 U	1.1 U	NA	1.0 U
Cyanide, Amenable To Chlorination	MG/KG	-	1.0 U	0.93 U	0.81 U	NA	0.82 U
Total Organic Carbon (TOC)	MG/KG	-	NA	NA	NA	920	NA

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-07	SB-08	SB-08	SB-09	SB-09
Sample ID			SB07-22-24	SB08-10-12	SB08-18-20	SB09-14-16	SB09-18-20
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			22.0-24.0	10.0-12.0	18.0-20.0	14.0-16.0	18.0-20.0
Date Sampled			11/11/05	11/14/05	11/14/05	11/14/05	11/14/05
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
Acetone	UG/KG	100000	28 U	30	26 U	26 U	28 U
Benzene	UG/KG	2900	6 U	15	5 U	5 U	6 U
Carbon disulfide	UG/KG	-	6 U	3 J	5 U	5 U	6 U
Ethylbenzene	UG/KG	30000	6 U	24	5 U	5 U	6 U
Isopropylbenzene (Cumene)	UG/KG	-	6 U	6	5 U	5 U	6 U
Methyl ethyl ketone (2-Butanone)	UG/KG	100000	28 U	30 U	26 U	26 U	28 U
Styrene	UG/KG	-	6 U	9	5 U	5 U	6 U
Tetrachloroethene	UG/KG	5500	6 U	6 U	5 U	5 U	6 U
Toluene	UG/KG	100000	6 U	19	5 U	5 U	6 U
Xylene (total)	UG/KG	100000	17 U	98	16 U	16 U	16 U
Total BTEX	UG/KG	-	ND	156	ND	ND	ND
Total Volatile Organic Compounds	UG/KG	-	ND	204	ND	ND	ND
Semivolatile Organic Compounds							
1,1'-Biphenyl	UG/KG	-	380 U	13,000	350 U	350 U	370 U
2,4-Dimethylphenol	UG/KG	-	380 U	1,100 J	350 U	350 U	370 U
2-Methylnaphthalene	UG/KG	-	380 U	53,000	350 U	350 U	370 U
2-Methylphenol (o-cresol)	UG/KG	100000	380 U	920 J	350 U	350 U	370 U
4-Methylphenol (p-cresol)	UG/KG	34000	380 U	2,800 J	350 U	350 U	370 U
Acenaphthene	UG/KG	100000	380 U	54,000	350 U	350 U	370 U
Acenaphthylene	UG/KG	100000	380 U	39,000	24 J	350 U	370 U
Anthracene	UG/KG	100000	380 U	90,000	31 J	350 U	370 U
Benzo(a)anthracene	UG/KG	1000	22 J	230,000 D	59 J	350 U	370 U

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-07	SB-08	SB-08	SB-09	SB-09
Sample ID			SB07-22-24	SB08-10-12	SB08-18-20	SB09-14-16	SB09-18-20
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			22.0-24.0	10.0-12.0	18.0-20.0	14.0-16.0	18.0-20.0
Date Sampled			11/11/05	11/14/05	11/14/05	11/14/05	11/14/05
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Benzo(a)pyrene	UG/KG	1000	380 U	220,000 D	48 J	350 U	370 U
Benzo(b)fluoranthene	UG/KG	1000	19 J	240,000 D	60 J	350 U	370 U
Benzo(g,h,i)perylene	UG/KG	100000	380 U	73,000	24 J	350 U	370 U
Benzo(k)fluoranthene	UG/KG	1000	380 U	72,000	350 U	350 U	370 U
Carbazole	UG/KG	-	380 U	45,000	350 U	350 U	370 U
Chrysene	UG/KG	1000	380 U	270,000 D	57 J	350 U	370 U
Dibenzo(a,h)anthracene	UG/KG	330	380 U	20,000	350 U	350 U	370 U
Dibenzofuran	UG/KG	14000	380 U	52,000	350 U	350 U	370 U
Fluoranthene	UG/KG	100000	29 J	700,000 D	140 J	350 U	370 U
Fluorene	UG/KG	100000	380 U	90,000	25 J	350 U	370 U
Indeno(1,2,3-cd)pyrene	UG/KG	500	380 U	66,000	21 J	350 U	370 U
Naphthalene	UG/KG	100000	380 U	120,000	350 U	350 U	370 U
Phenanthrene	UG/KG	100000	380 U	860,000 D	150 J	350 U	370 U
Phenol	UG/KG	100000	380 U	1,800 J	350 U	350 U	370 U
Pyrene	UG/KG	100000	380 U	670,000 D	130 J	350 U	370 U
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	70	3,814,000	769	ND	ND
Total Semivolatile Organic Compounds	UG/KG	-	70	3,983,620	769	ND	ND
Metals							
Aluminum	MG/KG	-	6,040 J	4,550 J	6,280 J	7,550 J	7,570 J
Arsenic	MG/KG	16	2.8	5.2	4.2	3.1	3.1
Barium	MG/KG	350	27.6 J	40.1 J	44.5 J	39.4 J	28.8 J
Beryllium	MG/KG	14	0.30	0.33	0.28	0.32	0.29

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-07	SB-08	SB-08	SB-09	SB-09
Sample ID			SB07-22-24	SB08-10-12	SB08-18-20	SB09-14-16	SB09-18-20
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			22.0-24.0	10.0-12.0	18.0-20.0	14.0-16.0	18.0-20.0
Date Sampled			11/11/05	11/14/05	11/14/05	11/14/05	11/14/05
Parameter	**Units**	**Criteria***					
Metals							
Cadmium	MG/KG	2.5	0.20 U	0.27 U	0.22 U	0.20 U	0.20 U
Calcium	MG/KG	-	66,400	11,500 J	62,100 J	59,200 J	46,000 J
Chromium	MG/KG	36	8.0	6.1	7.3	8.7	9.3
Cobalt	MG/KG	-	5.2	3.8	5.1	5.2	5.9
Copper	MG/KG	270	15.0	20.9	22.5	16.2	17.3
Iron	MG/KG	-	13,800 J	13,200 J	18,200 J	14,600 J	15,100 J
Lead	MG/KG	400	6.5	749	9.3	5.8	11.4
Magnesium	MG/KG	-	6,110 J	2,780	4,590	9,170	7,610
Manganese	MG/KG	2000	523 J	214 J	618 J	423 J	443 J
Mercury	MG/KG	0.81	0.019 U	0.065	0.016 U	0.016 U	0.020 U
Nickel	MG/KG	140	13.0	10.0	12.3	14.3	14.9
Potassium	MG/KG	-	591	348	557	742	675
Sodium	MG/KG	-	143 U	189 U	157 U	142 U	143 U
Vanadium	MG/KG	-	8.0	15.2	9.8	9.7	9.6
Zinc	MG/KG	2200	43.8	350	38.6	41.9	47.9
Miscellaneous Parameters							
Cyanide	MG/KG	27	1.1 U	1.0	0.92 U	1.0 U	1.0 U
Cyanide, Amenable To Chlorination	MG/KG	-	1.1 U	1.1 U	1.0 U	0.95 U	1.0 U
Total Organic Carbon (TOC)	MG/KG	-	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

(oval) Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-10	SB-10	SB-11-1	SB-11-1	SB-12
Sample ID			SB10-14-16	SB10-18-20	SB11-1-6-8	SB11-1-9-11	DUP-042606
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			14.0-16.0	18.0-20.0	6.0-8.0	9.0-11.0	10.0-12.0
Date Sampled			11/14/05	11/14/05	11/14/05	11/14/05	04/26/06
Parameter	**Units**	**Criteria***					Field Duplicate (1-1)
Volatile Organic Compounds							
Acetone	UG/KG	100000	26 U	26 U	26 U	88	NA
Benzene	UG/KG	2900	5 U	5 U	5 U	22	NA
Carbon disulfide	UG/KG	-	5 U	5 U	5 U	7	NA
Ethylbenzene	UG/KG	30000	5 U	5 U	5 U	22	NA
Isopropylbenzene (Cumene)	UG/KG	-	5 U	5 U	5 U	3 J	NA
Methyl ethyl ketone (2-Butanone)	UG/KG	100000	26 U	26 U	26 U	22 J	NA
Styrene	UG/KG	-	5 U	5 U	5 U	4 J	NA
Tetrachloroethene	UG/KG	5500	5 U	5 U	5 U	6 U	NA
Toluene	UG/KG	100000	5 U	5 U	5 U	10	NA
Xylene (total)	UG/KG	100000	16 U	16 U	16 U	60	NA
Total BTEX	UG/KG	-	ND	ND	ND	114	NA
Total Volatile Organic Compounds	UG/KG	-	ND	ND	ND	238	NA
Semivolatile Organic Compounds							
1,1'-Biphenyl	UG/KG	-	340 U	360 U	350 U	4,000 J	NA
2,4-Dimethylphenol	UG/KG	-	340 U	360 U	350 U	8,100 U	NA
2-Methylnaphthalene	UG/KG	-	340 U	360 U	18 J	19,000	58 J
2-Methylphenol (o-cresol)	UG/KG	100000	340 U	360 U	350 U	8,100 U	NA
4-Methylphenol (p-cresol)	UG/KG	34000	340 U	360 U	350 U	1,800 J	NA
Acenaphthene	UG/KG	100000	340 U	360 U	350 U	6,400 J	38 J
Acenaphthylene	UG/KG	100000	340 U	360 U	32 J	14,000	310 J
Anthracene	UG/KG	100000	340 U	360 U	37 J	23,000	120 J
Benzo(a)anthracene	UG/KG	1000	340 U	360 U	160 J	35,000	510

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

(oval) Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-10	SB-10	SB-11-1	SB-11-1	SB-12
Sample ID			SB10-14-16	SB10-18-20	SB11-1-6-8	SB11-1-9-11	DUP-042606
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			14.0-16.0	18.0-20.0	6.0-8.0	9.0-11.0	10.0-12.0
Date Sampled			11/14/05	11/14/05	11/14/05	11/14/05	04/26/06
Parameter	**Units**	**Criteria***					Field Duplicate (1-1)
Semivolatile Organic Compounds							
Benzo(a)pyrene	UG/KG	1000	340 U	360 U	180 J	22,000	660
Benzo(b)fluoranthene	UG/KG	1000	340 U	360 U	220 J	28,000	940
Benzo(g,h,i)perylene	UG/KG	100000	340 U	360 U	130 J	7,800 J	920
Benzo(k)fluoranthene	UG/KG	1000	340 U	360 U	63 J	8,800	240 J
Carbazole	UG/KG	-	340 U	360 U	36 J	8,800	NA
Chrysene	UG/KG	1000	340 U	360 U	180 J	31,000	610
Dibenzo(a,h)anthracene	UG/KG	330	340 U	360 U	28 J	2,500 J	210 J
Dibenzofuran	UG/KG	14000	340 U	360 U	19 J	18,000	19 J
Fluoranthene	UG/KG	100000	340 U	360 U	370	92,000	1,100
Fluorene	UG/KG	100000	340 U	360 U	22 J	27,000	340 U
Indeno(1,2,3-cd)pyrene	UG/KG	500	340 U	360 U	120 J	7,900 J	740
Naphthalene	UG/KG	100000	340 U	360 U	350 U	28,000	99 J
Phenanthrene	UG/KG	100000	340 U	360 U	240 J	110,000	380
Phenol	UG/KG	100000	340 U	360 U	350 U	8,100 U	NA
Pyrene	UG/KG	100000	340 U	360 U	320 J	69,000	810
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	ND	ND	2,102	512,400	7,687
Total Semivolatile Organic Compounds	UG/KG	-	ND	ND	2,175	564,000	7,764
Metals							
Aluminum	MG/KG	-	7,810 J	4,310 J	5,740 J	6,340 J	NA
Arsenic	MG/KG	16	2.9	25.0	8.9	10.9	NA
Barium	MG/KG	350	32.3 J	23.9 J	328 J	48.2 J	NA
Beryllium	MG/KG	14	0.32	0.25	0.44	0.52	NA

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-10	SB-10	SB-11-1	SB-11-1	SB-12
Sample ID			SB10-14-16	SB10-18-20	SB11-1-6-8	SB11-1-9-11	DUP-042606
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			14.0-16.0	18.0-20.0	6.0-8.0	9.0-11.0	10.0-12.0
Date Sampled			11/14/05	11/14/05	11/14/05	11/14/05	04/26/06
Parameter	**Units**	**Criteria***					Field Duplicate (1-1)
Metals							
Cadmium	MG/KG	2.5	0.21 U	0.19 U	0.23 U	0.23 U	NA
Calcium	MG/KG	-	59,400 J	120,000 J	18,300 J	75,600 J	NA
Chromium	MG/KG	36	9.7	6.3	10.1	7.5	NA
Cobalt	MG/KG	-	5.6	5.7	9.2	6.0	NA
Copper	MG/KG	270	18.2	7.4	72.9	26.2	NA
Iron	MG/KG	-	15,600 J	12,100 J	16,100 J	17,200 J	NA
Lead	MG/KG	400	7.3	10.6	2,110	168	NA
Magnesium	MG/KG	-	4,180	42,400	2,630	5,490	NA
Manganese	MG/KG	2000	808 J	334 J	265 J	484 J	NA
Mercury	MG/KG	0.81	0.018 U	0.016 U	0.227	0.058	NA
Nickel	MG/KG	140	15.0	13.9	12.0	14.3	NA
Potassium	MG/KG	-	771	523	750	589	NA
Sodium	MG/KG	-	150 U	137	497	257	NA
Vanadium	MG/KG	-	10.5	6.5	18.6	21.0	NA
Zinc	MG/KG	2200	40.9	22.8	121	64.7	NA
Miscellaneous Parameters							
Cyanide	MG/KG	27	1.0 U	0.94 U	1.0 U	1.2	1.0 UJ
Cyanide, Amenable To Chlorination	MG/KG	-	0.92 U	1.0 U	0.99 U	1.1	NA
Total Organic Carbon (TOC)	MG/KG	-	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

(oval) Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-12	SB-12	SB-13	SB-13	SB-14
Sample ID			SB12 10-12	SB12 14-15	SB13 10-12	13 14-15.7	SB14 11-12
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			10.0-12.0	14.0-15.0	10.0-12.0	14.0-15.7	11.0-12.0
Date Sampled			04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
Acetone	UG/KG	100000	NA	NA	NA	NA	NA
Benzene	UG/KG	2900	5 U	5 U	5 U	5 U	7,500 U
Carbon disulfide	UG/KG	-	NA	NA	NA	NA	NA
Ethylbenzene	UG/KG	30000	5 U	1 J	5 U	5 U	53,000
Isopropylbenzene (Cumene)	UG/KG	-	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/KG	100000	NA	NA	NA	NA	NA
Styrene	UG/KG	-	NA	NA	NA	NA	NA
Tetrachloroethene	UG/KG	5500	NA	NA	NA	NA	NA
Toluene	UG/KG	100000	5 U	3 J	5 U	3 J	14,000
Xylene (total)	UG/KG	100000	15 U	3 J	16 U	4 J	640,000
Total BTEX	UG/KG	-	ND	7	ND	7	707,000
Total Volatile Organic Compounds	UG/KG	-	ND	7	ND	7	707,000
Semivolatile Organic Compounds							
1,1'-Biphenyl	UG/KG	-	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/KG	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/KG	-	340 U	22 J	98 J	60 J	19,000
2-Methylphenol (o-cresol)	UG/KG	100000	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/KG	34000	NA	NA	NA	NA	NA
Acenaphthene	UG/KG	100000	340 U	350 U	71 J	36 J	4,800 J
Acenaphthylene	UG/KG	100000	120 J	350 U	340 U	340 U	18,000
Anthracene	UG/KG	100000	34 J	350 U	340 U	340 U	29,000
Benzo(a)anthracene	UG/KG	1000	180 J	350 U	340 U	340 U	35,000

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

(oval) Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-12	SB-12	SB-13	SB-13	SB-14
Sample ID			SB12 10-12	SB12 14-15	SB13 10-12	13 14-15.7	SB14 11-12
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			10.0-12.0	14.0-15.0	10.0-12.0	14.0-15.7	11.0-12.0
Date Sampled			04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Benzo(a)pyrene	UG/KG	1000	240 J	350 U	340 U	340 U	28,000
Benzo(b)fluoranthene	UG/KG	1000	350	31 J	340 U	340 U	31,000
Benzo(g,h,i)perylene	UG/KG	100000	380	42 J	340 U	340 U	13,000
Benzo(k)fluoranthene	UG/KG	1000	120 J	350 U	340 U	340 U	10,000
Carbazole	UG/KG	-	NA	NA	NA	NA	NA
Chrysene	UG/KG	1000	230 J	350 U	340 U	340 U	27,000
Dibenzo(a,h)anthracene	UG/KG	330	80 J	350 U	340 U	340 U	4,900 J
Dibenzofuran	UG/KG	14000	340 U	350 U	340 U	20 J	16,000
Fluoranthene	UG/KG	100000	400	21 J	340 U	340 U	66,000
Fluorene	UG/KG	100000	340 U	350 U	340 U	340 U	23,000
Indeno(1,2,3-cd)pyrene	UG/KG	500	290 J	32 J	340 U	340 U	14,000
Naphthalene	UG/KG	100000	24 J	350 U	180 J	110 J	24,000
Phenanthrene	UG/KG	100000	150 J	350 U	72 J	44 J	66,000
Phenol	UG/KG	100000	NA	NA	NA	NA	NA
Pyrene	UG/KG	100000	330 J	350 U	340 U	340 U	46,000
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	2,928	126	323	190	439,700
Total Semivolatile Organic Compounds	UG/KG	-	2,928	148	421	270	474,700
Metals							
Aluminum	MG/KG	-	NA	NA	NA	NA	NA
Arsenic	MG/KG	16	NA	NA	NA	NA	NA
Barium	MG/KG	350	NA	NA	NA	NA	NA
Beryllium	MG/KG	14	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

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J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-12	SB-12	SB-13	SB-13	SB-14
Sample ID			SB12 10-12	SB12 14-15	SB13 10-12	13 14-15.7	SB14 11-12
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			10.0-12.0	14.0-15.0	10.0-12.0	14.0-15.7	11.0-12.0
Date Sampled			04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	**Units**	**Criteria***					
Metals							
Cadmium	MG/KG	2.5	NA	NA	NA	NA	NA
Calcium	MG/KG	-	NA	NA	NA	NA	NA
Chromium	MG/KG	36	NA	NA	NA	NA	NA
Cobalt	MG/KG	-	NA	NA	NA	NA	NA
Copper	MG/KG	270	NA	NA	NA	NA	NA
Iron	MG/KG	-	NA	NA	NA	NA	NA
Lead	MG/KG	400	NA	NA	NA	NA	NA
Magnesium	MG/KG	-	NA	NA	NA	NA	NA
Manganese	MG/KG	2000	NA	NA	NA	NA	NA
Mercury	MG/KG	0.81	NA	NA	NA	NA	NA
Nickel	MG/KG	140	NA	NA	NA	NA	NA
Potassium	MG/KG	-	NA	NA	NA	NA	NA
Sodium	MG/KG	-	NA	NA	NA	NA	NA
Vanadium	MG/KG	-	NA	NA	NA	NA	NA
Zinc	MG/KG	2200	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Cyanide	MG/KG	27	0.98 UJ	1.0 J	1.0 UJ	0.97 UJ	1.2 UJ
Cyanide, Amenable To Chlorination	MG/KG	-	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/KG	-	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

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Concentration Exceeds Criteria

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Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-14	SB-15	SB-16	SB-17	SB-17
Sample ID			SB14 14-15	SB15 12-14	SB16 10-12	SB17 9-11	SB17 12-14
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			14.0-15.0	12.0-14.0	10.0-12.0	9.0-11.0	12.0-14.0
Date Sampled			04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
Acetone	UG/KG	100000	NA	NA	NA	NA	NA
Benzene	UG/KG	2900	2 J	5 U	34	12	4 J
Carbon disulfide	UG/KG	-	NA	NA	NA	NA	NA
Ethylbenzene	UG/KG	30000	2 J	5 U	2 J	7	6 U
Isopropylbenzene (Cumene)	UG/KG	-	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/KG	100000	NA	NA	NA	NA	NA
Styrene	UG/KG	-	NA	NA	NA	NA	NA
Tetrachloroethene	UG/KG	5500	NA	NA	NA	NA	NA
Toluene	UG/KG	100000	8	3 J	20	11	4 J
Xylene (total)	UG/KG	100000	28	16 U	15 J	36	3 J
Total BTEX	UG/KG	-	40	3	71	66	11
Total Volatile Organic Compounds	UG/KG	-	40	3	71	66	11
Semivolatile Organic Compounds							
1,1'-Biphenyl	UG/KG	-	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/KG	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/KG	-	980 J	250 J	67 J	460 J	460
2-Methylphenol (o-cresol)	UG/KG	100000	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/KG	34000	NA	NA	NA	NA	NA
Acenaphthene	UG/KG	100000	2,000 J	140 J	38 J	210 J	160 J
Acenaphthylene	UG/KG	100000	5,800	590	440 U	2,000 U	330 J
Anthracene	UG/KG	100000	8,800	1,000	440 U	150 J	990
Benzo(a)anthracene	UG/KG	1000	31,000	2,300	440 U	200 J	1,000

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

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Only Detected Results Reported.

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TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-14	SB-15	SB-16	SB-17	SB-17
Sample ID			SB14 14-15	SB15 12-14	SB16 10-12	SB17 9-11	SB17 12-14
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			14.0-15.0	12.0-14.0	10.0-12.0	9.0-11.0	12.0-14.0
Date Sampled			04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Benzo(a)pyrene	UG/KG	1000	24,000	1,700	440 U	120 J	730
Benzo(b)fluoranthene	UG/KG	1000	27,000	2,700	440 U	160 J	1,100
Benzo(g,h,i)perylene	UG/KG	100000	12,000	800	440 U	2,000 U	350
Benzo(k)fluoranthene	UG/KG	1000	10,000	2,800	440 U	100 J	1,200
Carbazole	UG/KG	-	NA	NA	NA	NA	NA
Chrysene	UG/KG	1000	22,000	2,200	440 U	150 J	840
Dibenzo(a,h)anthracene	UG/KG	330	4,400	310 J	440 U	2,000 U	120 J
Dibenzofuran	UG/KG	14000	1,400 J	460	440 U	340 J	560
Fluoranthene	UG/KG	100000	54,000	5,400	28 J	400 J	2,400
Fluorene	UG/KG	100000	3,500 J	780	440 U	430 J	900
Indeno(1,2,3-cd)pyrene	UG/KG	500	12,000	840	440 U	2,000 U	350
Naphthalene	UG/KG	100000	2,500 J	260 J	130 J	370 J	460
Phenanthrene	UG/KG	100000	18,000	4,400	45 J	860 J	3,500
Phenol	UG/KG	100000	NA	NA	NA	NA	NA
Pyrene	UG/KG	100000	40,000	4,000	440 U	310 J	1,800
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	277,000	30,220	241	3,460	16,230
Total Semivolatile Organic Compounds	UG/KG	-	279,380	30,930	308	4,260	17,250
Metals							
Aluminum	MG/KG	-	NA	NA	NA	NA	NA
Arsenic	MG/KG	16	NA	NA	NA	NA	NA
Barium	MG/KG	350	NA	NA	NA	NA	NA
Beryllium	MG/KG	14	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

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Only Detected Results Reported.

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TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-14	SB-15	SB-16	SB-17	SB-17
Sample ID			SB14 14-15	SB15 12-14	SB16 10-12	SB17 9-11	SB17 12-14
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			14.0-15.0	12.0-14.0	10.0-12.0	9.0-11.0	12.0-14.0
Date Sampled			04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	**Units**	**Criteria***					
Metals							
Cadmium	MG/KG	2.5	NA	NA	NA	NA	NA
Calcium	MG/KG	-	NA	NA	NA	NA	NA
Chromium	MG/KG	36	NA	NA	NA	NA	NA
Cobalt	MG/KG	-	NA	NA	NA	NA	NA
Copper	MG/KG	270	NA	NA	NA	NA	NA
Iron	MG/KG	-	NA	NA	NA	NA	NA
Lead	MG/KG	400	NA	NA	NA	NA	NA
Magnesium	MG/KG	-	NA	NA	NA	NA	NA
Manganese	MG/KG	2000	NA	NA	NA	NA	NA
Mercury	MG/KG	0.81	NA	NA	NA	NA	NA
Nickel	MG/KG	140	NA	NA	NA	NA	NA
Potassium	MG/KG	-	NA	NA	NA	NA	NA
Sodium	MG/KG	-	NA	NA	NA	NA	NA
Vanadium	MG/KG	-	NA	NA	NA	NA	NA
Zinc	MG/KG	2200	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Cyanide	MG/KG	27	0.98 UJ	1.0 UJ	1.2 UJ	4.0 J	0.97 UJ
Cyanide, Amenable To Chlorination	MG/KG	-	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/KG	-	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-18	SB-18	SB-19	SB-19	SB-20
Sample ID			SB-18-11-12	SB-18-13-15	SB-19-13-14	SB-19-14-15	SB-20-10-11
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			11.0-12.0	13.0-15.0	13.0-14.0	14.0-15.0	10.0-11.0
Date Sampled			05/05/08	05/19/08	05/06/08	05/19/08	05/05/08
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
Acetone	UG/KG	100000	26 U	26 U	25 U	25 U	24 J
Benzene	UG/KG	2900	5 U	5 U	5 U	5 U	4 J
Carbon disulfide	UG/KG	-	5 U	5 U	5 U	5 U	6 U
Ethylbenzene	UG/KG	30000	5 U	5 U	5 U	5 U	14
Isopropylbenzene (Cumene)	UG/KG	-	5 U	5 U	5 U	5 U	2 J
Methyl ethyl ketone (2-Butanone)	UG/KG	100000	26 U	26 U	25 U	25 U	29 U
Styrene	UG/KG	-	5 U	5 U	5 U	5 U	6 U
Tetrachloroethene	UG/KG	5500	5 U	5 U	5 U	5 U	6 U
Toluene	UG/KG	100000	5 U	5 U	5 U	5 U	8
Xylene (total)	UG/KG	100000	16 U	16 U	15 U	15 U	18 U
Total BTEX	UG/KG	-	ND	ND	ND	ND	26
Total Volatile Organic Compounds	UG/KG	-	ND	ND	ND	ND	52
Semivolatile Organic Compounds							
1,1'-Biphenyl	UG/KG	-	180 U	180 U	190 U	170 U	14,000
2,4-Dimethylphenol	UG/KG	-	180 U	180 U	190 U	170 U	2,700 J
2-Methylnaphthalene	UG/KG	-	180 U	180 U	190 U	170 U	65,000
2-Methylphenol (o-cresol)	UG/KG	100000	180 U	180 U	190 U	170 U	940 J
4-Methylphenol (p-cresol)	UG/KG	34000	180 U	180 U	190 U	170 U	4,900
Acenaphthene	UG/KG	100000	180 U	180 U	190 U	170 U	20,000
Acenaphthylene	UG/KG	100000	180 U	180 U	190 U	170 U	40,000
Anthracene	UG/KG	100000	10 J	180 U	190 U	170 U	82,000
Benzo(a)anthracene	UG/KG	1000	180 U	180 U	190 U	170 U	83,000

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-18	SB-18	SB-19	SB-19	SB-20
Sample ID			SB-18-11-12	SB-18-13-15	SB-19-13-14	SB-19-14-15	SB-20-10-11
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			11.0-12.0	13.0-15.0	13.0-14.0	14.0-15.0	10.0-11.0
Date Sampled			05/05/08	05/19/08	05/06/08	05/19/08	05/05/08
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Benzo(a)pyrene	UG/KG	1000	8 J	180 U	190 U	170 U	50,000
Benzo(b)fluoranthene	UG/KG	1000	11 J	180 U	190 U	170 U	59,000
Benzo(g,h,i)perylene	UG/KG	100000	180 U	180 U	190 U	170 U	18,000
Benzo(k)fluoranthene	UG/KG	1000	180 U	180 U	190 U	170 U	22,000
Carbazole	UG/KG	-	180 U	180 U	190 U	170 U	31,000
Chrysene	UG/KG	1000	13 J	180 U	190 U	170 U	74,000
Dibenzo(a,h)anthracene	UG/KG	330	180 U	180 U	190 U	170 U	8,600
Dibenzofuran	UG/KG	14000	180 U	180 U	190 U	170 U	62,000
Fluoranthene	UG/KG	100000	33 J	180 U	190 U	170 U	240,000 D
Fluorene	UG/KG	100000	180 U	180 U	190 U	170 U	93,000
Indeno(1,2,3-cd)pyrene	UG/KG	500	180 U	180 U	190 U	170 U	19,000
Naphthalene	UG/KG	100000	15 J	180 U	190 U	170 U	93,000
Phenanthrene	UG/KG	100000	31 J	180 U	190 U	170 U	370,000 D
Phenol	UG/KG	100000	180 U	180 U	190 U	170 U	2,400 J
Pyrene	UG/KG	100000	26 J	180 U	190 U	170 U	160,000 D
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	147	ND	ND	ND	1,431,600
Total Semivolatile Organic Compounds	UG/KG	-	147	ND	ND	ND	1,614,540
Metals							
Aluminum	MG/KG	-	NA	NA	NA	NA	NA
Arsenic	MG/KG	16	5.0	3.9	4.2	2.4	17.2
Barium	MG/KG	350	36.6 J	33.2 J	39.1 J	28.2 J	83.9 J
Beryllium	MG/KG	14	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-18	SB-18	SB-19	SB-19	SB-20
Sample ID			SB-18-11-12	SB-18-13-15	SB-19-13-14	SB-19-14-15	SB-20-10-11
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			11.0-12.0	13.0-15.0	13.0-14.0	14.0-15.0	10.0-11.0
Date Sampled			05/05/08	05/19/08	05/06/08	05/19/08	05/05/08
Parameter	**Units**	**Criteria***					
Metals							
Cadmium	MG/KG	2.5	0.20 U	0.21 U	0.24 U	0.22 U	0.70
Calcium	MG/KG	-	NA	NA	NA	NA	NA
Chromium	MG/KG	36	13.0	12.3 J	9.6	8.3 J	77.0
Cobalt	MG/KG	-	NA	NA	NA	NA	NA
Copper	MG/KG	270	NA	NA	NA	NA	NA
Iron	MG/KG	-	NA	NA	NA	NA	NA
Lead	MG/KG	400	7.7 J	7.2	6.5 J	4.6	99.9 J
Magnesium	MG/KG	-	NA	NA	NA	NA	NA
Manganese	MG/KG	2000	NA	NA	NA	NA	NA
Mercury	MG/KG	0.81	0.022 U	0.020 U	0.024 U	0.020 U	0.061
Nickel	MG/KG	140	NA	NA	NA	NA	NA
Potassium	MG/KG	-	NA	NA	NA	NA	NA
Sodium	MG/KG	-	NA	NA	NA	NA	NA
Vanadium	MG/KG	-	NA	NA	NA	NA	NA
Zinc	MG/KG	2200	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Cyanide	MG/KG	27	NA	NA	NA	NA	NA
Cyanide, Amenable To Chlorination	MG/KG	-	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/KG	-	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-21	SB-21	SB-21	SB-22	SB-22
Sample ID			SB-21-6-8	FD-051908	SB-21-13-15	SB-22-4-8	SB-22-8-11
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			6.0-8.0	13.0-15.0	13.0-15.0	4.0-8.0	8.0-11.0
Date Sampled			05/05/08	05/19/08	05/19/08	05/05/08	05/05/08
Parameter	**Units**	**Criteria***		Field Duplicate (0-1)			
Volatile Organic Compounds							
Acetone	UG/KG	100000	27 U	25 U	26 U	27 U	27 U
Benzene	UG/KG	2900	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	UG/KG	-	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	UG/KG	30000	5 U	5 U	5 U	5 U	5 U
Isopropylbenzene (Cumene)	UG/KG	-	5 U	5 U	5 U	5 U	5 U
Methyl ethyl ketone (2-Butanone)	UG/KG	100000	27 U	25 U	26 U	27 U	27 U
Styrene	UG/KG	-	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	UG/KG	5500	5 U	5 U	5 U	5 U	5 U
Toluene	UG/KG	100000	5 U	5 U	5 U	5 U	5 U
Xylene (total)	UG/KG	100000	16 U	15 U	16 U	16 U	16 U
Total BTEX	UG/KG	-	ND	ND	ND	ND	ND
Total Volatile Organic Compounds	UG/KG	-	ND	ND	ND	ND	ND
Semivolatile Organic Compounds							
1,1'-Biphenyl	UG/KG	-	930 U	180 U	180 U	220 U	180 U
2,4-Dimethylphenol	UG/KG	-	930 U	180 U	180 U	220 U	180 U
2-Methylnaphthalene	UG/KG	-	930 U	180 U	180 U	220 U	180 U
2-Methylphenol (o-cresol)	UG/KG	100000	930 U	180 U	180 U	220 U	180 U
4-Methylphenol (p-cresol)	UG/KG	34000	930 U	180 U	180 U	220 U	180 U
Acenaphthene	UG/KG	100000	930 U	180 U	180 U	220 U	180 U
Acenaphthylene	UG/KG	100000	930 U	180 U	180 U	220 U	180 U
Anthracene	UG/KG	100000	930 U	180 U	180 U	220 U	180 U
Benzo(a)anthracene	UG/KG	1000	930 U	180 U	180 U	220 U	180 U

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-21	SB-21	SB-21	SB-22	SB-22
Sample ID			SB-21-6-8	FD-051908	SB-21-13-15	SB-22-4-8	SB-22-8-11
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			6.0-8.0	13.0-15.0	13.0-15.0	4.0-8.0	8.0-11.0
Date Sampled			05/05/08	05/19/08	05/19/08	05/05/08	05/05/08
Parameter	**Units**	**Criteria***		Field Duplicate (0-1)			
Semivolatile Organic Compounds							
Benzo(a)pyrene	UG/KG	1000	930 U	180 U	180 U	10 J	180 U
Benzo(b)fluoranthene	UG/KG	1000	930 U	180 U	180 U	16 J	180 U
Benzo(g,h,i)perylene	UG/KG	100000	930 U	180 U	180 U	220 U	180 U
Benzo(k)fluoranthene	UG/KG	1000	930 U	180 U	180 U	220 U	180 U
Carbazole	UG/KG	-	930 U	180 U	180 U	220 U	180 U
Chrysene	UG/KG	1000	930 U	180 U	180 U	13 J	180 U
Dibenzo(a,h)anthracene	UG/KG	330	930 U	180 U	180 U	220 U	180 U
Dibenzofuran	UG/KG	14000	930 U	180 U	180 U	220 U	180 U
Fluoranthene	UG/KG	100000	930 U	180 U	180 U	27 J	180 U
Fluorene	UG/KG	100000	930 U	180 U	180 U	220 U	180 U
Indeno(1,2,3-cd)pyrene	UG/KG	500	930 U	180 U	180 U	220 U	180 U
Naphthalene	UG/KG	100000	930 U	180 U	180 U	220 U	180 U
Phenanthrene	UG/KG	100000	930 U	180 U	180 U	18 J	180 U
Phenol	UG/KG	100000	930 U	180 U	180 U	220 U	180 U
Pyrene	UG/KG	100000	930 U	180 U	180 U	220 U	180 U
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	ND	ND	ND	84	ND
Total Semivolatile Organic Compounds	UG/KG	-	ND	ND	ND	84	ND
Metals							
Aluminum	MG/KG	-	NA	NA	NA	NA	NA
Arsenic	MG/KG	16	4.7	4.1	3.7	6.7	3.3
Barium	MG/KG	350	45.5 J	37.0 J	31.4 J	44.5 J	24.8 J
Beryllium	MG/KG	14	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

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Only Detected Results Reported.

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TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-21	SB-21	SB-21	SB-22	SB-22
Sample ID			SB-21-6-8	FD-051908	SB-21-13-15	SB-22-4-8	SB-22-8-11
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			6.0-8.0	13.0-15.0	13.0-15.0	4.0-8.0	8.0-11.0
Date Sampled			05/05/08	05/19/08	05/19/08	05/05/08	05/05/08
Parameter	**Units**	**Criteria***		Field Duplicate (0-1)			
Metals							
Cadmium	MG/KG	2.5	0.23 U	0.22 U	0.21 U	0.28 U	0.23 U
Calcium	MG/KG	-	NA	NA	NA	NA	NA
Chromium	MG/KG	36	12.4	10.0 J	10.0 J	14.8	11.7
Cobalt	MG/KG	-	NA	NA	NA	NA	NA
Copper	MG/KG	270	NA	NA	NA	NA	NA
Iron	MG/KG	-	NA	NA	NA	NA	NA
Lead	MG/KG	400	10.4 J	6.2	7.5	16.0 J	5.7 J
Magnesium	MG/KG	-	NA	NA	NA	NA	NA
Manganese	MG/KG	2000	NA	NA	NA	NA	NA
Mercury	MG/KG	0.81	0.036	0.021 U	0.021 U	0.092	0.021 U
Nickel	MG/KG	140	NA	NA	NA	NA	NA
Potassium	MG/KG	-	NA	NA	NA	NA	NA
Sodium	MG/KG	-	NA	NA	NA	NA	NA
Vanadium	MG/KG	-	NA	NA	NA	NA	NA
Zinc	MG/KG	2200	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Cyanide	MG/KG	27	NA	NA	NA	NA	NA
Cyanide, Amenable To Chlorination	MG/KG	-	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/KG	-	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

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J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

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Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-22	SB-23	SB-24	SB-24	SB-25
Sample ID			SB-22-13-15	SB-23-3-6	FD-SB-050608	SB-24-3-6	SB-25-3-6
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			13.0-15.0	3.0-6.0	3.0-6.0	3.0-6.0	3.0-6.0
Date Sampled			05/19/08	05/06/08	05/06/08	05/06/08	05/06/08
Parameter	**Units**	**Criteria***			Field Duplicate (0-1)		
Volatile Organic Compounds							
Acetone	UG/KG	100000	28 U	29 U	27 U	27 U	31 U
Benzene	UG/KG	2900	6 U	6 U	5 U	5 U	6 U
Carbon disulfide	UG/KG	-	6 U	6 U	5 U	5 U	6 U
Ethylbenzene	UG/KG	30000	6 U	6 U	5 U	5 U	6 U
Isopropylbenzene (Cumene)	UG/KG	-	6 U	6 U	5 U	5 U	6 U
Methyl ethyl ketone (2-Butanone)	UG/KG	100000	28 U	29 U	27 U	27 U	31 U
Styrene	UG/KG	-	6 U	6 U	5 U	5 U	6 U
Tetrachloroethene	UG/KG	5500	6 U	6 U	5 U	5 U	6 U
Toluene	UG/KG	100000	6 U	6 U	5 U	5 U	6 U
Xylene (total)	UG/KG	100000	16 U	18 U	16 U	16 U	19 U
Total BTEX	UG/KG	-	ND	ND	ND	ND	ND
Total Volatile Organic Compounds	UG/KG	-	ND	ND	ND	ND	ND
Semivolatile Organic Compounds							
1,1'-Biphenyl	UG/KG	-	190 U	970 U	1,000 U	190 U	2,200 U
2,4-Dimethylphenol	UG/KG	-	190 U	970 U	1,000 U	190 U	2,200 U
2-Methylnaphthalene	UG/KG	-	190 U	970 U	1,000 U	190 U	2,200 U
2-Methylphenol (o-cresol)	UG/KG	100000	190 U	970 U	1,000 U	190 U	2,200 U
4-Methylphenol (p-cresol)	UG/KG	34000	190 U	970 U	1,000 U	190 U	2,200 U
Acenaphthene	UG/KG	100000	190 U	970 U	1,000 U	190 U	2,200 U
Acenaphthylene	UG/KG	100000	190 U	130 J	1,000 U	190 U	2,000 J
Anthracene	UG/KG	100000	190 U	94 J	1,000 U	190 U	1,600 J
Benzo(a)anthracene	UG/KG	1000	190 U	490 J	92 J	15 J	12,000

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

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NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-22	SB-23	SB-24	SB-24	SB-25
Sample ID			SB-22-13-15	SB-23-3-6	FD-SB-050608	SB-24-3-6	SB-25-3-6
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			13.0-15.0	3.0-6.0	3.0-6.0	3.0-6.0	3.0-6.0
Date Sampled			05/19/08	05/06/08	05/06/08	05/06/08	05/06/08
Parameter	**Units**	**Criteria***			Field Duplicate (0-1)		
Semivolatile Organic Compounds							
Benzo(a)pyrene	UG/KG	1000	190 U	350 J	61 J	190 U	9,000
Benzo(b)fluoranthene	UG/KG	1000	190 U	420 J	120 J	9 J	10,000
Benzo(g,h,i)perylene	UG/KG	100000	190 U	200 J	1,000 U	190 U	5,300
Benzo(k)fluoranthene	UG/KG	1000	190 U	180 J	1,000 U	190 U	3,400
Carbazole	UG/KG	-	190 U	970 U	1,000 U	190 U	610 J
Chrysene	UG/KG	1000	190 U	970 U	1,000 U	190 U	8,300
Dibenzo(a,h)anthracene	UG/KG	330	190 U	950 J	920 J	190 U	3,100
Dibenzofuran	UG/KG	14000	190 U	970 U	1,000 U	190 U	120 J
Fluoranthene	UG/KG	100000	190 U	720 J	180 J	23 J	26,000
Fluorene	UG/KG	100000	190 U	970 U	1,000 U	190 U	180 J
Indeno(1,2,3-cd)pyrene	UG/KG	500	190 U	180 J	1,000 U	190 U	4,800
Naphthalene	UG/KG	100000	190 U	970 U	1,000 U	190 U	390 J
Phenanthrene	UG/KG	100000	190 U	340 J	100 J	11 J	3,000
Phenol	UG/KG	100000	190 U	970 U	1,000 U	190 U	2,200 U
Pyrene	UG/KG	100000	190 U	600 J	130 J	20 J	20,000
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	ND	4,654	1,603	78	109,070
Total Semivolatile Organic Compounds	UG/KG	-	ND	4,654	1,603	78	109,800
Metals							
Aluminum	MG/KG	-	NA	NA	NA	NA	NA
Arsenic	MG/KG	16	4.8	6.9	6.8	5.0	5.0
Barium	MG/KG	350	43.4 J	62.4 J	46.3 J	32.4 J	44.1 J
Beryllium	MG/KG	14	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-22	SB-23	SB-24	SB-24	SB-25
Sample ID			SB-22-13-15	SB-23-3-6	FD-SB-050608	SB-24-3-6	SB-25-3-6
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			13.0-15.0	3.0-6.0	3.0-6.0	3.0-6.0	3.0-6.0
Date Sampled			05/19/08	05/06/08	05/06/08	05/06/08	05/06/08
Parameter	**Units**	**Criteria***			Field Duplicate (0-1)		
Metals							
Cadmium	MG/KG	2.5	0.24 U	0.24 U	0.24 U	0.21 U	0.27 U
Calcium	MG/KG	-	NA	NA	NA	NA	NA
Chromium	MG/KG	36	12.2 J	16.8	16.4	15.2	10.2
Cobalt	MG/KG	-	NA	NA	NA	NA	NA
Copper	MG/KG	270	NA	NA	NA	NA	NA
Iron	MG/KG	-	NA	NA	NA	NA	NA
Lead	MG/KG	400	7.5	72.2 J	15.5 J	13.5 J	37.0 J
Magnesium	MG/KG	-	NA	NA	NA	NA	NA
Manganese	MG/KG	2000	NA	NA	NA	NA	NA
Mercury	MG/KG	0.81	0.023 U	0.190	0.062	0.059	0.089
Nickel	MG/KG	140	NA	NA	NA	NA	NA
Potassium	MG/KG	-	NA	NA	NA	NA	NA
Sodium	MG/KG	-	NA	NA	NA	NA	NA
Vanadium	MG/KG	-	NA	NA	NA	NA	NA
Zinc	MG/KG	2200	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Cyanide	MG/KG	27	NA	NA	NA	NA	NA
Cyanide, Amenable To Chlorination	MG/KG	-	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/KG	-	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-26	SB-27	SB-27	SB-28	SB-28
Sample ID			SB-26-3-6	SB-27-9-10	SB-27-12-14	SB-28-8-10	SB-28-12-14
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			3.0-6.0	9.0-10.0	12.0-14.0	8.0-10.0	12.0-14.0
Date Sampled			05/06/08	05/19/08	05/19/08	05/19/08	05/19/08
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
Acetone	UG/KG	100000	28 U	NA	28 U	26 U	26 U
Benzene	UG/KG	2900	6 U	NA	6 U	5 U	5 U
Carbon disulfide	UG/KG	-	6 U	NA	6 U	5 U	5 U
Ethylbenzene	UG/KG	30000	6 U	NA	6 U	5 U	5 U
Isopropylbenzene (Cumene)	UG/KG	-	6 U	NA	6 U	5 U	5 U
Methyl ethyl ketone (2-Butanone)	UG/KG	100000	28 U	NA	28 U	26 U	26 U
Styrene	UG/KG	-	6 U	NA	6 U	5 U	5 U
Tetrachloroethene	UG/KG	5500	6 U	NA	6 U	5 U	5 U
Toluene	UG/KG	100000	6 U	NA	6 U	5 U	5 U
Xylene (total)	UG/KG	100000	17 U	NA	16 U	16 U	15 U
Total BTEX	UG/KG	-	ND	NA	ND	ND	ND
Total Volatile Organic Compounds	UG/KG	-	ND	NA	ND	ND	ND
Semivolatile Organic Compounds							
1,1'-Biphenyl	UG/KG	-	960 U	17,000 J	18 J	180 U	180 U
2,4-Dimethylphenol	UG/KG	-	960 U	160,000 U	190 U	180 U	180 U
2-Methylnaphthalene	UG/KG	-	960 U	86,000 J	55 J	180 U	180 U
2-Methylphenol (o-cresol)	UG/KG	100000	960 U	160,000 U	190 U	180 U	180 U
4-Methylphenol (p-cresol)	UG/KG	34000	960 U	160,000 U	190 U	180 U	180 U
Acenaphthene	UG/KG	100000	960 U	230,000	220	180 U	180 U
Acenaphthylene	UG/KG	100000	41 J	130,000 J	280	180 U	180 U
Anthracene	UG/KG	100000	960 U	620,000	1,200	180 U	180 U
Benzo(a)anthracene	UG/KG	1000	150 J	670,000	1,300	180 U	180 U

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-26	SB-27	SB-27	SB-28	SB-28
Sample ID			SB-26-3-6	SB-27-9-10	SB-27-12-14	SB-28-8-10	SB-28-12-14
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			3.0-6.0	9.0-10.0	12.0-14.0	8.0-10.0	12.0-14.0
Date Sampled			05/06/08	05/19/08	05/19/08	05/19/08	05/19/08
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Benzo(a)pyrene	UG/KG	1000	110 J	400,000	810	180 U	180 U
Benzo(b)fluoranthene	UG/KG	1000	180 J	480,000	880	180 U	180 U
Benzo(g,h,i)perylene	UG/KG	100000	68 J	130,000 J	260	180 U	180 U
Benzo(k)fluoranthene	UG/KG	1000	960 U	190,000	420	180 U	180 U
Carbazole	UG/KG	-	960 U	57,000 J	120 J	180 U	180 U
Chrysene	UG/KG	1000	960 U	460,000	1,000	180 U	180 U
Dibenzo(a,h)anthracene	UG/KG	330	900 J	57,000 J	97 J	180 U	180 U
Dibenzofuran	UG/KG	14000	960 U	200,000	180 J	180 U	180 U
Fluoranthene	UG/KG	100000	230 J	1,500,000	2,700	180 U	180 U
Fluorene	UG/KG	100000	960 U	370,000	390	180 U	180 U
Indeno(1,2,3-cd)pyrene	UG/KG	500	59 J	150,000 J	270	180 U	180 U
Naphthalene	UG/KG	100000	960 U	160,000 U	190 U	180 U	180 U
Phenanthrene	UG/KG	100000	100 J	1,000,000	1,200	180 U	180 U
Phenol	UG/KG	100000	960 U	160,000 U	190 U	180 U	180 U
Pyrene	UG/KG	100000	180 J	960,000	1,700	180 U	180 U
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	2,018	7,347,000	12,727	ND	ND
Total Semivolatile Organic Compounds	UG/KG	-	2,018	7,707,000	13,100	ND	ND
Metals							
Aluminum	MG/KG	-	NA	NA	NA	NA	NA
Arsenic	MG/KG	16	7.1	9.3	4.6	3.1	4.5
Barium	MG/KG	350	60.6 J	404 J	41.9 J	33.0 J	40.4 J
Beryllium	MG/KG	14	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

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J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-2
SUMMARY OF DETECTED SUBSURFACE SOIL BORING ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SB-26	SB-27	SB-27	SB-28	SB-28
Sample ID			SB-26-3-6	SB-27-9-10	SB-27-12-14	SB-28-8-10	SB-28-12-14
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			3.0-6.0	9.0-10.0	12.0-14.0	8.0-10.0	12.0-14.0
Date Sampled			05/06/08	05/19/08	05/19/08	05/19/08	05/19/08
Parameter	**Units**	**Criteria***					
Metals							
Cadmium	MG/KG	2.5	0.24	4.2	0.23 U	0.24 U	0.20 U
Calcium	MG/KG	-	NA	NA	NA	NA	NA
Chromium	MG/KG	36	21.6	25.3 J	12.6 J	11.3 J	12.4 J
Cobalt	MG/KG	-	NA	NA	NA	NA	NA
Copper	MG/KG	270	NA	NA	NA	NA	NA
Iron	MG/KG	-	NA	NA	NA	NA	NA
Lead	MG/KG	400	50.0 J	3,320	9.3	4.8	9.1
Magnesium	MG/KG	-	NA	NA	NA	NA	NA
Manganese	MG/KG	2000	NA	NA	NA	NA	NA
Mercury	MG/KG	0.81	0.057	0.221	0.022 U	0.023 U	0.021 U
Nickel	MG/KG	140	NA	NA	NA	NA	NA
Potassium	MG/KG	-	NA	NA	NA	NA	NA
Sodium	MG/KG	-	NA	NA	NA	NA	NA
Vanadium	MG/KG	-	NA	NA	NA	NA	NA
Zinc	MG/KG	2200	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Cyanide	MG/KG	27	NA	NA	NA	NA	NA
Cyanide, Amenable To Chlorination	MG/KG	-	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/KG	-	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

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Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-3
STATISTICAL SUMMARY OF SUBSURFACE SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections					Dist	Location of Max Value	Depth Of Max
					Min	Max	Avg	StdDev	UCL95			
Volatile Organic Compounds												
Acetone	UG/KG	100000	43	4	24.00	88.00	45.75	29.03	74.20	Non-Normal	SB-11-1	9-11
Benzene	UG/KG	2900	53	8	2.00	34.00	12.63	10.91	20.19	Non-Normal	SB-16	10-12
Carbon disulfide	UG/KG	-	43	3	2.00	7.00	4.00	2.65	6.99	Non-Normal	SB-11-1	9-11
Ethylbenzene	UG/KG	30000	53	9	1.00	5.30E+04	5,898	1.77E+04	1.74E+04	Non-Normal	SB-14	11-12
Isopropylbenzene (Cumene)	UG/KG	-	43	3	2.00	6.00	3.67	2.08	6.02	Non-Normal	SB-08	10-12
Methyl ethyl ketone (2-Butanone)	UG/KG	100000	43	2	8.00	22.00	15.00	9.90	28.72	Non-Normal	SB-11-1	9-11
Styrene	UG/KG	-	43	2	4.00	9.00	6.50	3.54	11.40	Non-Normal	SB-08	10-12
Tetrachloroethene	UG/KG	5500	43	1	2.00	2.00	2.00	-	-	Non-Normal	SB-06	16-18
Toluene	UG/KG	100000	53	17	2.00	1.40E+04	830.5	3,394	2,444	Non-Normal	SB-14	11-12
Xylene (total)	UG/KG	100000	53	10	3.00	6.40E+05	6.40E+04	2.02E+05	1.89E+05	Non-Normal	SB-14	11-12
Semivolatile Organic Compounds												
1,1'-Biphenyl	UG/KG	-	44	6	18.00	1.70E+04	1.00E+04	6,537	1.52E+04	Non-Normal	SB-27	9.0-10
2,4-Dimethylphenol	UG/KG	-	44	3	1,100	3,600	2,467	1,266	3,900	Non-Normal	SB-05	11-12
2-Methylnaphthalene	UG/KG	-	54	22	18.00	8.60E+04	1.36E+04	2.56E+04	2.43E+04	Non-Normal	SB-27	9.0-10
2-Methylphenol (o-cresol)	UG/KG	100000	44	2	920.0	940.0	930.0	14.14	949.6	Non-Normal	SB-20	10-11
4-Methylphenol (p-cresol)	UG/KG	34000	44	3	1,800	4,900	3,167	1,582	4,957	Non-Normal	SB-20	10-11

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-3
STATISTICAL SUMMARY OF SUBSURFACE SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections					Dist	Location of Max Value	Depth Of Max
					Min	Max	Avg	StdDev	UCL95			
Semivolatile Organic Compounds												
Acenaphthene	UG/KG	100000	54	20	21.75	2.30E+05	1.90E+04	5.26E+04	4.21E+04	Non-Normal	SB-27	9.0-10
Acenaphthylene	UG/KG	100000	54	24	24.00	1.30E+05	1.19E+04	2.80E+04	2.30E+04	Non-Normal	SB-27	9.0-10
Anthracene	UG/KG	100000	54	26	10.00	6.20E+05	3.77E+04	1.23E+05	8.48E+04	Non-Normal	SB-27	9.0-10
Benzo(a)anthracene	UG/KG	1000	54	32	22.00	6.70E+05	4.04E+04	1.25E+05	8.38E+04	Non-Normal	SB-27	9.0-10
Benzo(a)pyrene	UG/KG	1000	54	33	8.00	4.00E+05	2.74E+04	7.96E+04	5.45E+04	Non-Normal	SB-27	9.0-10
Benzo(b)fluoranthene	UG/KG	1000	54	35	11.00	4.80E+05	2.98E+04	9.08E+04	5.99E+04	Non-Normal	SB-27	9.0-10
Benzo(g,h,i)perylene	UG/KG	100000	54	29	24.00	1.30E+05	1.20E+04	2.93E+04	2.27E+04	Non-Normal	SB-27	9.0-10
Benzo(k)fluoranthene	UG/KG	1000	54	27	33.00	1.90E+05	1.45E+04	3.90E+04	2.92E+04	Non-Normal	SB-27	9.0-10
bis(2-Ethylhexyl)phthalate	UG/KG	-	44	1	94.00	94.00	94.00	-	-	Non-Normal	TP-03	2.5-2.5
Carbazole	UG/KG	-	44	15	23.75	7.30E+04	1.47E+04	2.45E+04	2.71E+04	Non-Normal	SB-05	11-12
Chrysene	UG/KG	1000	54	30	13.00	4.60E+05	3.59E+04	9.76E+04	7.08E+04	Non-Normal	SB-27	9.0-10
Dibenzo(a,h)anthracene	UG/KG	330	54	26	22.00	5.70E+04	4,995	1.20E+04	9,622	Non-Normal	SB-27	9.0-10
Dibenzofuran	UG/KG	14000	54	20	12.00	2.00E+05	2.15E+04	4.78E+04	4.24E+04	Non-Normal	SB-27	9.0-10
Fluoranthene	UG/KG	100000	54	36	21.00	1.50E+06	9.11E+04	2.82E+05	1.83E+05	Non-Normal	SB-27	9.0-10
Fluorene	UG/KG	100000	54	21	18.00	3.70E+05	3.41E+04	8.38E+04	7.00E+04	Non-Normal	SB-27	9.0-10
Indeno(1,2,3-cd)pyrene	UG/KG	500	54	29	21.00	1.50E+05	1.23E+04	3.15E+04	2.38E+04	Non-Normal	SB-27	9.0-10

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-3
STATISTICAL SUMMARY OF SUBSURFACE SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections					Dist	Location of Max Value	Depth Of Max
					Min	Max	Avg	StdDev	UCL95			
Semivolatile Organic Compounds												
Naphthalene	UG/KG	100000	54	22	15.00	1.60E+05	1.97E+04	4.45E+04	3.83E+04	Non-Normal	SB-05	11-12
Phenanthrene	UG/KG	100000	54	35	18.00	1.00E+06	9.05E+04	2.47E+05	1.72E+05	Non-Normal	SB-27	9.0-10
Phenol	UG/KG	100000	44	2	1,800	2,400	2,100	424.3	2,688	Non-Normal	SB-20	10-11
Pyrene	UG/KG	100000	54	30	26.00	9.60E+05	8.16E+04	2.18E+05	1.60E+05	Non-Normal	SB-27	9.0-10
Metals												
Aluminum	MG/KG	-	26	26	4,270	1.52E+04	8,315	3,176	9,536	Normal	TP-02	5.5-5.5
Arsenic	MG/KG	16	44	44	2.30	25.00	5.97	4.14	7.20	Non-Normal	SB-10	18-20
Barium	MG/KG	350	44	44	23.90	404.0	59.27	70.07	79.98	Non-Normal	SB-27	9.0-10
Beryllium	MG/KG	14	26	26	0.240	0.540	0.388	0.103	0.428	Normal	TP-02	11-12
Cadmium	MG/KG	2.5	44	14	0.230	4.20	0.706	1.07	1.27	Non-Normal	SB-27	9.0-10
Calcium	MG/KG	-	26	26	1,160	1.99E+05	4.13E+04	4.56E+04	5.88E+04	Non-Normal	SB-06	16-18
Chromium	MG/KG	36	44	44	5.80	77.00	13.10	10.60	16.23	Non-Normal	SB-20	10-11
Cobalt	MG/KG	-	26	26	3.60	10.60	6.74	1.99	7.50	Normal	TP-02	5.5-5.5
Copper	MG/KG	270	26	26	7.30	72.90	21.37	12.43	26.15	Non-Normal	SB-11-1	6-8
Iron	MG/KG	-	26	26	9,090	2.66E+04	1.76E+04	4,607	1.94E+04	Normal	SB-04	7-7
Lead	MG/KG	400	44	44	3.60	3,320	189.0	591.9	363.9	Non-Normal	SB-27	9.0-10

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-3
STATISTICAL SUMMARY OF SUBSURFACE SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections					Dist	Location of Max Value	Depth Of Max
					Min	Max	Avg	StdDev	UCL95			
Metals												
Magnesium	MG/KG	-	26	26	1,250	4.24E+04	7,892	8,544	1.12E+04	Non-Normal	SB-10	18-20
Manganese	MG/KG	2000	26	26	214.0	1,050	579.2	233.9	669.1	Normal	TP-01	7.5-7.5
Mercury	MG/KG	0.81	44	24	0.022	0.363	0.099	0.082	0.132	Non-Normal	TP-03	10.5-10.5
Nickel	MG/KG	140	26	26	9.00	27.70	15.77	4.37	17.45	Normal	TP-02	5.5-5.5
Potassium	MG/KG	-	26	26	348.0	1,020	668.3	144.4	723.8	Normal	SB-05	11-12
Sodium	MG/KG	-	26	5	137.0	497.0	273.2	144.7	400.1	Non-Normal	SB-11-1	6-8
Vanadium	MG/KG	-	26	26	6.10	23.70	13.82	5.24	15.83	Normal	SB-05	11-12
Zinc	MG/KG	2200	26	26	22.80	407.0	92.49	91.25	127.6	Non-Normal	TP-03	10.5-10.5
Miscellaneous Parameters												
Cyanide	MG/KG	27	36	4	1.00	4.00	1.80	1.47	3.24	Non-Normal	SB-17	9-11
Cyanide, Amenable To Chlorination	MG/KG	-	26	1	1.10	1.10	1.10	-	-	Non-Normal	SB-11-1	9-11
Total Organic Carbon (TOC)	MG/KG	-	2	2	920.0	1.04E+04	5,635	6,668	-	-	TP-01	5-5

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-4
SUMMARY OF DETECTED GROUNDWATER ANALYTICAL RESULTS
FORMER OFF-SITE GASHOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			PZ-01	PZ-02	PZ-02	PZ-03	PZ-04
Sample ID			PZ-01	DUP-11-16-05	PZ-02	PZ-03	PZ-04
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/16/05	11/16/05	11/16/05	11/16/05	11/16/05
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Metals							
Aluminum	UG/L	-	20.9 B	200 U	200 U	1,600	434
Barium	UG/L	1000	49.6	50.0	50.7	61.6	53.0
Calcium	UG/L	-	83,400	86,800	87,500	87,200	87,400
Chromium	UG/L	50	0.92 B	4.0 U	4.0 U	2.8 B	1.1 B
Cobalt	UG/L	-	4.0 U	4.0 U	4.0 U	0.59 B	4.0 U
Copper	UG/L	200	0.78 B	1.7 B	1.6 B	2.7 B	1.7 B
Iron	UG/L	300	30.8 B	50.0 U	50.0 U	1,200	324
Lead	UG/L	25	5.0 U	5.0 U	5.0 U	2.0 B	5.0 U
Magnesium	UG/L	35000	15,700	16,000	16,100	16,700	16,500
Manganese	UG/L	300	2.3 B	0.95 B	1.3 B	22.6	8.0
Nickel	UG/L	100	10.0 U	10.0 U	10.0 U	1.6 B	10.0 U
Potassium	UG/L	-	1,550	1,840	1,880	2,240	1,900
Sodium	UG/L	20000	56,500	67,900	68,500	61,500	64,600
Vanadium	UG/L	-	5.0 U	5.0 U	5.0 U	2.9 B	0.56 B
Zinc	UG/L	2000	1.3 B	1.1 B	1.3 B	6.3 B	2.1 B

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

B - The reported concentration is above the method detection limit but below the quantitation limit (used for metals only).

UG/L - Micrograms per liter.

Only Detected Results Reported.

Detection Limits shown are PQL

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[MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'PZ

TABLE 4-5
STATISTICAL SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections					No. Exceed	Dist	Location of Max Value	Depth Of Max
					Min	Max	Avg	StdDev	UCL95				
Metals													
Aluminum	UG/L	-	4	3	20.90	1,600	685.0	818.9	1,612	0	Non-Normal	PZ-03	0-0
Barium	UG/L	1000	4	4	49.60	61.60	53.64	5.51	59.03	0	Non-Normal	PZ-03	0-0
Calcium	UG/L	-	4	4	8.34E+04	8.74E+04	8.63E+04	1,928	8.82E+04	0	Non-Normal	PZ-04	0-0
Chromium	UG/L	50	4	3	0.920	2.80	1.61	1.04	2.78	0	Non-Normal	PZ-03	0-0
Cobalt	UG/L	-	4	1	0.590	0.590	0.590	-	-	0	Non-Normal	PZ-03	0-0
Copper	UG/L	200	4	4	0.780	2.70	1.71	0.785	2.48	0	Normal	PZ-03	0-0
Iron	UG/L	300	4	3	30.80	1,200	518.3	608.3	1,207	2	Non-Normal	PZ-03	0-0
Lead	UG/L	25	4	1	2.00	2.00	2.00	-	-	0	Non-Normal	PZ-03	0-0
Magnesium	UG/L	35000	4	4	1.57E+04	1.67E+04	1.62E+04	449.8	1.67E+04	0	Normal	PZ-03	0-0
Manganese	UG/L	300	4	4	1.13	22.60	8.51	9.86	18.17	0	Non-Normal	PZ-03	0-0
Nickel	UG/L	100	4	1	1.60	1.60	1.60	-	-	0	Non-Normal	PZ-03	0-0
Potassium	UG/L	-	4	4	1,550	2,240	1,888	282.3	2,164	0	Normal	PZ-03	0-0
Sodium	UG/L	20000	4	4	5.65E+04	6.82E+04	6.27E+04	4,958	6.76E+04	4	Normal	PZ-02	0-0
Vanadium	UG/L	-	4	2	0.560	2.90	1.73	1.65	4.02	0	Non-Normal	PZ-03	0-0
Zinc	UG/L	2000	4	4	1.20	6.30	2.73	2.42	5.09	0	Non-Normal	PZ-03	0-0

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-6
SUMMARY OF DETECTED SCRAPE SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GASHOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		SCRAPE-01	SCRAPE-02	SCRAPE-03
Sample ID		SCRAPE 1	SCRAPE 2	SCRAPE 3
Matrix		Soil	Soil	Soil
Depth Interval (ft)		-	-	-
Date Sampled		06/12/06	06/12/06	06/12/06
Parameter	**Units**			
Volatile Organic Compounds				
Benzene	UG/KG	120	44	1 J
Ethylbenzene	UG/KG	38	22	5 U
Toluene	UG/KG	97	58 U	5 U
Xylene (total)	UG/KG	170	120	15 U
Total BTEX	UG/KG	425	186	1
Total Volatile Organic Compounds	UG/KG	425	186	1
Semivolatile Organic Compounds				
2-Methylnaphthalene	UG/KG	25,000 J	6,400 J	330 U
Acenaphthene	UG/KG	4,800 J	68,000 U	330 U
Acenaphthylene	UG/KG	150,000	42,000 J	330 U
Anthracene	UG/KG	310,000	130,000	19 J
Benzo(a)anthracene	UG/KG	670,000	240,000	47 J
Benzo(a)pyrene	UG/KG	410,000	140,000	32 J
Benzo(b)fluoranthene	UG/KG	610,000	190,000	47 J
Benzo(g,h,i)perylene	UG/KG	140,000	54,000 J	20 J
Benzo(k)fluoranthene	UG/KG	200,000	65,000 J	330 U
Chrysene	UG/KG	650,000	220,000	44 J
Dibenzo(a,h)anthracene	UG/KG	69,000	22,000 J	330 U
Dibenzofuran	UG/KG	41,000 J	11,000 J	330 U
Fluoranthene	UG/KG	1,600,000 D	490,000	120 J
Fluorene	UG/KG	46,000 J	14,000 J	330 U
Indeno(1,2,3-cd)pyrene	UG/KG	160,000	60,000 J	17 J
Naphthalene	UG/KG	42,000 J	9,700 J	46 J

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit.
J - The reported concentration is an estimated value.
D - Result reported from a secondary dilution analysis.
UG/KG - Micrograms per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-6
SUMMARY OF DETECTED SCRAPE SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GASHOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		SCRAPE-01	SCRAPE-02	SCRAPE-03
Sample ID		SCRAPE 1	SCRAPE 2	SCRAPE 3
Matrix		Soil	Soil	Soil
Depth Interval (ft)		-	-	-
Date Sampled		06/12/06	06/12/06	06/12/06
Parameter	**Units**			
Semivolatile Organic Compounds				
Phenanthrene	UG/KG	990,000	370,000	110 J
Pyrene	UG/KG	1,000,000	360,000	70 J
Total Polycyclic Aromatic Hydrocarbons	UG/KG	7,051,800	2,406,700	572
Total Semivolatile Organic Compounds	UG/KG	7,117,800	2,424,100	572

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit.
J - The reported concentration is an estimated value.
D - Result reported from a secondary dilution analysis.
UG/KG - Micrograms per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-7
SUMMARY OF DETECTED SURFACE SOIL AND SHALLOW SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SS-01	SS-02	SS-02	SS-03	SS-04
Sample ID			SS-01	SS-02	SS-FD-042606	SS-03	SS-04
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2
Date Sampled			04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	Units	Criteria*			Field Duplicate (1-1)		
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/KG	-	4,300 U	4,500 U	9,000 U	4,600 U	4,200 U
4-Methylphenol (p-cresol)	UG/KG	34000	NA	NA	NA	NA	NA
Acenaphthene	UG/KG	100000	900 J	4,500 U	9,000 U	4,600 U	370 J
Acenaphthylene	UG/KG	100000	4,300 U	4,500 U	9,000 U	4,600 U	4,200 U
Anthracene	UG/KG	100000	2,400 J	660 J	1,300 J	290 J	1,200 J
Benzo(a)anthracene	UG/KG	1000	7,400	3,000 J	5,200 J	1,900 J	3,600 J
Benzo(a)pyrene	UG/KG	1000	6,600	2,900 J	4,600 J	1,800 J	3,200 J
Benzo(b)fluoranthene	UG/KG	1000	8,800	4,200 J	6,600 J	2,100 J	4,000 J
Benzo(g,h,i)perylene	UG/KG	100000	4,000 J	1,300 J	2,200 J	780 J	1,400 J
Benzo(k)fluoranthene	UG/KG	1000	2,300 J	1,000 J	1,500 J	860 J	1,600 J
bis(2-Ethylhexyl)phthalate	UG/KG	-	NA	NA	NA	NA	NA
Carbazole	UG/KG	-	NA	NA	NA	NA	NA
Chrysene	UG/KG	1000	7,300	3,100 J	5,200 J	1,800 J	3,600 J
Dibenzo(a,h)anthracene	UG/KG	330	1,200 J	430 J	740 J	270 J	450 J
Dibenzofuran	UG/KG	14000	4,300 U	4,500 U	9,000 U	4,600 U	4,200 U
Fluoranthene	UG/KG	100000	16,000	6,800	11,000	3,200 J	8,900
Fluorene	UG/KG	100000	4,300 U	4,500 U	9,000 U	4,600 U	4,200 U
Indeno(1,2,3-cd)pyrene	UG/KG	500	3,700 J	1,300 J	2,100 J	780 J	1,400 J
Naphthalene	UG/KG	100000	4,300 U	4,500 U	9,000 U	4,600 U	4,200 U
Phenanthrene	UG/KG	100000	11,000	2,800 J	5,400 J	4,600 U	5,600
Phenol	UG/KG	100000	NA	NA	NA	NA	NA
Pyrene	UG/KG	100000	12,000	4,900	7,800 J	2,500 J	6,100

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-7
SUMMARY OF DETECTED SURFACE SOIL AND SHALLOW SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SS-01	SS-02	SS-02	SS-03	SS-04
Sample ID			SS-01	SS-02	SS-FD-042606	SS-03	SS-04
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2
Date Sampled			04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	**Units**	**Criteria***			Field Duplicate (1-1)		
Semivolatile Organic Compounds							
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	83,600	32,390	53,640	16,280	41,420
Total Semivolatile Organic Compounds	UG/KG	-	83,600	32,390	53,640	16,280	41,420
Metals							
Arsenic	MG/KG	16	NA	NA	NA	NA	NA
Barium	MG/KG	350	NA	NA	NA	NA	NA
Cadmium	MG/KG	2.5	NA	NA	NA	NA	NA
Chromium	MG/KG	36	NA	NA	NA	NA	NA
Lead	MG/KG	400	NA	NA	NA	NA	NA
Mercury	MG/KG	0.81	NA	NA	NA	NA	NA
Miscellaneous Parameters							
Cyanide	MG/KG	27	1.1 UJ	0.17 UJ	1.8 J	1.3 UJ	1.2 UJ

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-7
SUMMARY OF DETECTED SURFACE SOIL AND SHALLOW SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SS-05	SS-06	SS-07	SS-07	SS-07
Sample ID			SS-05	SS-06	FD-SS-050508	SS-07-0-2"	SS-07-0.2-1.0
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.2-1.0
Date Sampled			04/26/06	04/26/06	05/05/08	05/05/08	05/06/08
Parameter	**Units**	**Criteria***			Field Duplicate (0-1)		
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/KG	-	440 U	4,400 U	1,100 U	130 J	2,000 U
4-Methylphenol (p-cresol)	UG/KG	34000	NA	NA	1,100 U	1,100 U	2,000 U
Acenaphthene	UG/KG	100000	24 J	290 J	1,100 U	430 J	400 J
Acenaphthylene	UG/KG	100000	440 U	4,400 U	1,100 U	180 J	230 J
Anthracene	UG/KG	100000	64 J	880 J	130 J	1,400	1,600 J
Benzo(a)anthracene	UG/KG	1000	290 J	3,100 J	520 J	2,000	4,900
Benzo(a)pyrene	UG/KG	1000	280 J	2,800 J	470 J	1,400	3,900
Benzo(b)fluoranthene	UG/KG	1000	400 J	4,000 J	640 J	2,100	5,700
Benzo(g,h,i)perylene	UG/KG	100000	130 J	1,400 J	280 J	970 J	2,100
Benzo(k)fluoranthene	UG/KG	1000	110 J	1,100 J	290 J	600 J	1,600 J
bis(2-Ethylhexyl)phthalate	UG/KG	-	NA	NA	1,100 U	1,100 U	2,000 U
Carbazole	UG/KG	-	NA	NA	1,100 U	500 J	580 J
Chrysene	UG/KG	1000	300 J	3,000 J	600 J	2,000	4,900
Dibenzo(a,h)anthracene	UG/KG	330	42 J	420 J	86 J	290 J	660 J
Dibenzofuran	UG/KG	14000	440 U	4,400 U	1,100 U	420 J	250 J
Fluoranthene	UG/KG	100000	620	6,900	1,400	5,800	13,000
Fluorene	UG/KG	100000	440 U	4,400 U	1,100 U	790 J	510 J
Indeno(1,2,3-cd)pyrene	UG/KG	500	130 J	1,300 J	290 J	940 J	2,000
Naphthalene	UG/KG	100000	440 U	4,400 U	1,100 U	150 J	2,000 U
Phenanthrene	UG/KG	100000	320 J	4,300 J	690 J	5,500	7,700
Phenol	UG/KG	100000	NA	NA	1,100 U	1,100 U	2,000 U
Pyrene	UG/KG	100000	490	5,200	970 J	3,800	8,400

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-7
SUMMARY OF DETECTED SURFACE SOIL AND SHALLOW SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SS-05	SS-06	SS-07	SS-07	SS-07
Sample ID			SS-05	SS-06	FD-SS-050508	SS-07-0-2"	SS-07-0.2-1.0
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.2-1.0
Date Sampled			04/26/06	04/26/06	05/05/08	05/05/08	05/06/08
Parameter	**Units**	**Criteria***			Field Duplicate (0-1)		
Semivolatile Organic Compounds							
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	3,200	34,690	6,366	28,350	57,600
Total Semivolatile Organic Compounds	UG/KG	-	3,200	34,690	6,366	29,400	58,430
Metals							
Arsenic	MG/KG	16	NA	NA	7.4	8.2	8.8
Barium	MG/KG	350	NA	NA	98.4	101	98.2 J
Cadmium	MG/KG	2.5	NA	NA	0.49	0.46	1.1
Chromium	MG/KG	36	NA	NA	26.7	16.5	22.5 J
Lead	MG/KG	400	NA	NA	133	75.6	386 J
Mercury	MG/KG	0.81	NA	NA	0.166	0.118	0.537 J
Miscellaneous Parameters							
Cyanide	MG/KG	27	1.2 UJ	1.3 UJ	NA	NA	NA

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-7
SUMMARY OF DETECTED SURFACE SOIL AND SHALLOW SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SS-07	SS-08	SS-08	SS-08	SS-09
Sample ID			SS-07-1.0-2.0	SS-08-0-2"	SS-08-0.2-1.0	SS-08-1.0-2.0	SS-09-0-2"
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2
Date Sampled			05/06/08	05/05/08	05/06/08	05/06/08	05/05/08
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/KG	-	1,000 U	210 U	1,100 U	230 U	220 U
4-Methylphenol (p-cresol)	UG/KG	34000	1,000 U	210 U	1,100 U	230 U	220 U
Acenaphthene	UG/KG	100000	61 J	210 U	1,100 U	230 U	15 J
Acenaphthylene	UG/KG	100000	290 J	210 U	1,100 U	43 J	220 U
Anthracene	UG/KG	100000	510 J	29 J	76 J	41 J	51 J
Benzo(a)anthracene	UG/KG	1000	2,000	120 J	400 J	240	200 J
Benzo(a)pyrene	UG/KG	1000	1,500	100 J	340 J	200 J	160 J
Benzo(b)fluoranthene	UG/KG	1000	2,000	160 J	420 J	260	220
Benzo(g,h,i)perylene	UG/KG	100000	720 J	77 J	180 J	110 J	120 J
Benzo(k)fluoranthene	UG/KG	1000	580 J	42 J	160 J	92 J	90 J
bis(2-Ethylhexyl)phthalate	UG/KG	-	1,000 U	210 U	1,100 U	230 U	220 U
Carbazole	UG/KG	-	160 J	15 J	1,100 U	16 J	22 J
Chrysene	UG/KG	1000	1,800	140 J	1,100 U	240	230
Dibenzo(a,h)anthracene	UG/KG	330	270 J	24 J	60 J	42 J	34 J
Dibenzofuran	UG/KG	14000	74 J	210 U	1,100 U	230 U	9 J
Fluoranthene	UG/KG	100000	4,200	310	710 J	440	560
Fluorene	UG/KG	100000	160 J	210 U	1,100 U	230 U	23 J
Indeno(1,2,3-cd)pyrene	UG/KG	500	740 J	69 J	180 J	110 J	110 J
Naphthalene	UG/KG	100000	110 J	210 U	1,100 U	230 U	220 U
Phenanthrene	UG/KG	100000	2,200	150 J	300 J	140 J	340
Phenol	UG/KG	100000	1,000 U	210 U	1,100 U	230 U	220 U
Pyrene	UG/KG	100000	3,000	230	550 J	350	400

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-7
SUMMARY OF DETECTED SURFACE SOIL AND SHALLOW SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SS-07	SS-08	SS-08	SS-08	SS-09
Sample ID			SS-07-1.0-2.0	SS-08-0-2"	SS-08-0.2-1.0	SS-08-1.0-2.0	SS-09-0-2"
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2
Date Sampled			05/06/08	05/05/08	05/06/08	05/06/08	05/05/08
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	20,141	1,451	3,376	2,308	2,553
Total Semivolatile Organic Compounds	UG/KG	-	20,375	1,466	3,376	2,324	2,584
Metals							
Arsenic	MG/KG	16	7.1	6.8	11.5	10.6	7.1
Barium	MG/KG	350	81.0 J	87.3	165 J	138 J	89.3
Cadmium	MG/KG	2.5	0.40	0.26	0.95	0.82	0.28
Chromium	MG/KG	36	17.4 J	14.3	22.6 J	26.1 J	14.8
Lead	MG/KG	400	90.9 J	23.7	181 J	126 J	23.8
Mercury	MG/KG	0.81	0.498 J	0.075	2.3 J	1.7 J	0.130
Miscellaneous Parameters							
Cyanide	MG/KG	27	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

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J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-7
SUMMARY OF DETECTED SURFACE SOIL AND SHALLOW SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SS-09	SS-09	SS-10	SS-10	SS-10
Sample ID			SS-09-0.2-1.0	SS-09-1.0-2.0	SS-10-0-2"	FD-SS-050608	SS-10-0.2-1.0
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0	0.2-1.0
Date Sampled			05/06/08	05/06/08	05/05/08	05/06/08	05/06/08
Parameter	Units	Criteria*				Field Duplicate (0-1)	
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/KG	-	86 J	17 J	1,200 U	2,200 U	2,200 U
4-Methylphenol (p-cresol)	UG/KG	34000	1,000 U	200 U	1,200 U	2,200 U	2,200 U
Acenaphthene	UG/KG	100000	100 J	31 J	1,200 U	2,200 U	2,200 U
Acenaphthylene	UG/KG	100000	200 J	95 J	110 J	2,200 U	2,200 U
Anthracene	UG/KG	100000	290 J	160 J	160 J	220 J	300 J
Benzo(a)anthracene	UG/KG	1000	1,300	630	880 J	1,400 J	1,400 J
Benzo(a)pyrene	UG/KG	1000	1,200	490	770 J	1,200 J	1,100 J
Benzo(b)fluoranthene	UG/KG	1000	1,600	660	1,000 J	1,600 J	1,500 J
Benzo(g,h,i)perylene	UG/KG	100000	730 J	320	470 J	900 J	700 J
Benzo(k)fluoranthene	UG/KG	1000	540 J	230	280 J	530 J	510 J
bis(2-Ethylhexyl)phthalate	UG/KG	-	1,000 U	200 U	1,200 U	2,200 U	2,200 U
Carbazole	UG/KG	-	390 J	99 J	54 J	2,200 U	2,200 U
Chrysene	UG/KG	1000	1,500	600	830 J	1,300 J	2,200 U
Dibenzo(a,h)anthracene	UG/KG	330	210 J	98 J	150 J	320 J	220 J
Dibenzofuran	UG/KG	14000	160 J	40 J	1,200 U	2,200 U	2,200 U
Fluoranthene	UG/KG	100000	3,600	1,400	1,800	2,500	2,700
Fluorene	UG/KG	100000	140 J	67 J	1,200 U	2,200 U	2,200 U
Indeno(1,2,3-cd)pyrene	UG/KG	500	710 J	300	460 J	790 J	730 J
Naphthalene	UG/KG	100000	340 J	52 J	1,200 U	2,200 U	2,200 U
Phenanthrene	UG/KG	100000	3,100	920	560 J	740 J	1,000 J
Phenol	UG/KG	100000	1,000 U	200 U	1,200 U	2,200 U	2,200 U
Pyrene	UG/KG	100000	2,900	1,100	1,400	2,100 J	2,200

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

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Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-7
SUMMARY OF DETECTED SURFACE SOIL AND SHALLOW SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SS-09	SS-09	SS-10	SS-10	SS-10
Sample ID			SS-09-0.2-1.0	SS-09-1.0-2.0	SS-10-0-2"	FD-SS-050608	SS-10-0.2-1.0
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0	0.2-1.0
Date Sampled			05/06/08	05/06/08	05/05/08	05/06/08	05/06/08
Parameter	**Units**	**Criteria***				Field Duplicate (0-1)	
Semivolatile Organic Compounds							
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	18,460	7,153	8,870	13,600	12,360
Total Semivolatile Organic Compounds	UG/KG	-	19,096	7,309	8,924	13,600	12,360
Metals							
Arsenic	MG/KG	16	9.9	7.9	10.6	4.8	11.8
Barium	MG/KG	350	98.1 J	91.7 J	102	66.4 J	102 J
Cadmium	MG/KG	2.5	0.30	0.39	1.3	0.25 U	0.40
Chromium	MG/KG	36	17.1 J	17.2 J	22.2	11.6 J	19.0 J
Lead	MG/KG	400	88.3 J	66.3 J	306	23.5 J	121 J
Mercury	MG/KG	0.81	0.155 J	0.289 J	0.190	0.230 J	0.183 J
Miscellaneous Parameters							
Cyanide	MG/KG	27	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-7
SUMMARY OF DETECTED SURFACE SOIL AND SHALLOW SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SS-10	SS-11	SS-11	SS-11	SS-12
Sample ID			SS-10-1.0-2.0	SS-11-0-2"	SS-11-0.2-1.0	SS-11-1.0-2.0	SS-12-0-2"
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2
Date Sampled			05/06/08	05/05/08	05/06/08	05/06/08	05/05/08
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/KG	-	190 U	2,000 U	1,100 U	1,100 U	1,100 U
4-Methylphenol (p-cresol)	UG/KG	34000	190 U	2,000 U	1,100 U	1,100 U	1,100 U
Acenaphthene	UG/KG	100000	190 U	2,000 U	1,100 U	1,100 U	1,100 U
Acenaphthylene	UG/KG	100000	83 J	2,000 U	1,100 U	1,100 U	1,100 U
Anthracene	UG/KG	100000	100 J	260 J	1,100 U	1,100 U	1,100 U
Benzo(a)anthracene	UG/KG	1000	640	750 J	250 J	120 J	230 J
Benzo(a)pyrene	UG/KG	1000	520	600 J	170 J	71 J	170 J
Benzo(b)fluoranthene	UG/KG	1000	650	740 J	210 J	82 J	220 J
Benzo(g,h,i)perylene	UG/KG	100000	380	410 J	130 J	49 J	120 J
Benzo(k)fluoranthene	UG/KG	1000	240	380 J	100 J	1,100 U	100 J
bis(2-Ethylhexyl)phthalate	UG/KG	-	190 U	2,000 U	1,100 U	1,100 U	1,100 U
Carbazole	UG/KG	-	36 J	2,000 U	1,100 U	1,100 U	1,100 U
Chrysene	UG/KG	1000	560	800 J	1,100 U	1,100 U	180 J
Dibenzo(a,h)anthracene	UG/KG	330	150 J	130 J	1,000 J	1,100 U	1,100 U
Dibenzofuran	UG/KG	14000	9 J	2,000 U	1,100 U	1,100 U	1,100 U
Fluoranthene	UG/KG	100000	1,100	1,800 J	380 J	200 J	420 J
Fluorene	UG/KG	100000	21 J	2,000 U	1,100 U	1,100 U	1,100 U
Indeno(1,2,3-cd)pyrene	UG/KG	500	340	380 J	110 J	1,100 U	110 J
Naphthalene	UG/KG	100000	20 J	2,000 U	1,100 U	1,100 U	1,100 U
Phenanthrene	UG/KG	100000	310	1,000 J	200 J	120 J	150 J
Phenol	UG/KG	100000	190 U	2,000 U	1,100 U	1,100 U	1,100 U
Pyrene	UG/KG	100000	940	1,300 J	330 J	180 J	320 J

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

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Concentration Exceeds Criteria

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J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

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TABLE 4-7
SUMMARY OF DETECTED SURFACE SOIL AND SHALLOW SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SS-10	SS-11	SS-11	SS-11	SS-12
Sample ID			SS-10-1.0-2.0	SS-11-0-2"	SS-11-0.2-1.0	SS-11-1.0-2.0	SS-12-0-2"
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2
Date Sampled			05/06/08	05/05/08	05/06/08	05/06/08	05/05/08
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	6,054	8,550	2,880	822	2,020
Total Semivolatile Organic Compounds	UG/KG	-	6,099	8,550	2,880	822	2,020
Metals							
Arsenic	MG/KG	16	5.1	7.4	11.9	7.9	8.6
Barium	MG/KG	350	54.0 J	111	84.6 J	53.4 J	89.8
Cadmium	MG/KG	2.5	0.23 U	2.1	0.60	0.23 U	0.33
Chromium	MG/KG	36	13.0 J	17.1	15.7 J	17.8 J	16.4
Lead	MG/KG	400	39.1 J	483	150 J	26.7 J	54.0
Mercury	MG/KG	0.81	0.067 J	0.563	0.138 J	0.055 J	0.086
Miscellaneous Parameters							
Cyanide	MG/KG	27	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

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J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-7
SUMMARY OF DETECTED SURFACE SOIL AND SHALLOW SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SS-12	SS-12	SS-13	SS-13	SS-13
Sample ID			SS-12-0.2-1.0	SS-12-1.0-2.0	SS-13-0-2"	SS-13-0.2-1.0	SS-13-1.0-2.0
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0
Date Sampled			05/06/08	05/06/08	05/05/08	05/06/08	05/06/08
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/KG	-	200 U	140 J	2,300 U	2,100 U	940 U
4-Methylphenol (p-cresol)	UG/KG	34000	200 U	390 J	2,300 U	2,100 U	940 U
Acenaphthene	UG/KG	100000	200 U	280 J	2,300 U	2,100 U	940 U
Acenaphthylene	UG/KG	100000	200 U	2,100	2,300 U	100 J	940 U
Anthracene	UG/KG	100000	200 U	5,100	2,300 U	2,100 U	940 U
Benzo(a)anthracene	UG/KG	1000	37 J	20,000	2,300 U	900 J	96 J
Benzo(a)pyrene	UG/KG	1000	24 J	12,000	320 J	760 J	57 J
Benzo(b)fluoranthene	UG/KG	1000	32 J	14,000	370 J	980 J	84 J
Benzo(g,h,i)perylene	UG/KG	100000	20 J	4,500	170 J	530 J	55 J
Benzo(k)fluoranthene	UG/KG	1000	12 J	4,700	190 J	300 J	940 U
bis(2-Ethylhexyl)phthalate	UG/KG	-	200 U	1,900 U	2,300 U	2,100 U	940 U
Carbazole	UG/KG	-	200 U	1,900 U	2,300 U	2,100 U	940 U
Chrysene	UG/KG	1000	200 U	14,000	360 J	2,100 U	940 U
Dibenzo(a,h)anthracene	UG/KG	330	190 J	3,200	2,300 U	150 J	940 U
Dibenzofuran	UG/KG	14000	200 U	260 J	2,300 U	2,100 U	940 U
Fluoranthene	UG/KG	100000	52 J	40,000	640 J	1,400 J	100 J
Fluorene	UG/KG	100000	200 U	1,100 J	2,300 U	2,100 U	940 U
Indeno(1,2,3-cd)pyrene	UG/KG	500	16 J	4,700	170 J	510 J	52 J
Naphthalene	UG/KG	100000	200 U	510 J	2,300 U	2,100 U	940 U
Phenanthrene	UG/KG	100000	17 J	12,000	190 J	300 J	940 U
Phenol	UG/KG	100000	200 U	220 J	2,300 U	2,100 U	940 U
Pyrene	UG/KG	100000	44 J	26,000	490 J	1,200 J	99 J

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

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J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-7
SUMMARY OF DETECTED SURFACE SOIL AND SHALLOW SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SS-12	SS-12	SS-13	SS-13	SS-13
Sample ID			SS-12-0.2-1.0	SS-12-1.0-2.0	SS-13-0-2"	SS-13-0.2-1.0	SS-13-1.0-2.0
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0
Date Sampled			05/06/08	05/06/08	05/05/08	05/06/08	05/06/08
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	444	164,190	2,900	7,130	543
Total Semivolatile Organic Compounds	UG/KG	-	444	165,200	2,900	7,130	543
Metals							
Arsenic	MG/KG	16	5.7	4.9	7.8	6.8	5.7
Barium	MG/KG	350	48.5 J	77.5 J	110	92.1 J	56.5 J
Cadmium	MG/KG	2.5	0.24 U	0.25	0.50	0.54	0.26
Chromium	MG/KG	36	14.4 J	10.8 J	19.7	18.3 J	14.9 J
Lead	MG/KG	400	14.6 J	43.4 J	93.4	87.8 J	19.6 J
Mercury	MG/KG	0.81	0.049 J	0.053 J	0.073	0.105 J	0.053 J
Miscellaneous Parameters							
Cyanide	MG/KG	27	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-7
SUMMARY OF DETECTED SURFACE SOIL AND SHALLOW SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SS-14	SS-14	SS-14	SS-15	SS-15
Sample ID			SS-14-0-2"	SS-14-0.2-1.0	SS-14-1.0-2.0	SS-15-0-2"	SS-15-0.2-1.0
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0
Date Sampled			05/05/08	05/06/08	05/06/08	05/05/08	05/06/08
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/KG	-	2,400 U	1,000 U	1,000 U	2,500 U	1,000 U
4-Methylphenol (p-cresol)	UG/KG	34000	2,400 U	1,000 U	1,000 U	2,500 U	1,000 U
Acenaphthene	UG/KG	100000	2,400 U	1,000 U	1,000 U	2,500 U	1,000 U
Acenaphthylene	UG/KG	100000	210 J	210 J	160 J	340 J	240 J
Anthracene	UG/KG	100000	340 J	250 J	160 J	450 J	400 J
Benzo(a)anthracene	UG/KG	1000	2,000 J	1,800	1,200	3,000	2,400
Benzo(a)pyrene	UG/KG	1000	1,600 J	1,600	970 J	2,600	1,800
Benzo(b)fluoranthene	UG/KG	1000	1,900 J	2,100	1,300	3,000	2,400
Benzo(g,h,i)perylene	UG/KG	100000	980 J	1,200	700 J	1,600 J	1,300
Benzo(k)fluoranthene	UG/KG	1000	910 J	660 J	400 J	1,300 J	790 J
bis(2-Ethylhexyl)phthalate	UG/KG	-	2,400 U	1,000 U	1,000 U	2,500 U	1,000 U
Carbazole	UG/KG	-	110 J	110 J	1,000 U	180 J	76 J
Chrysene	UG/KG	1000	1,800 J	1,600	1,000	2,800	2,000
Dibenzo(a,h)anthracene	UG/KG	330	280 J	450 J	280 J	510 J	530 J
Dibenzofuran	UG/KG	14000	2,400 U	1,000 U	1,000 U	2,500 U	1,000 U
Fluoranthene	UG/KG	100000	3,400	3,100	1,700	5,300	4,000
Fluorene	UG/KG	100000	2,400 U	1,000 U	1,000 U	2,500 U	1,000 U
Indeno(1,2,3-cd)pyrene	UG/KG	500	940 J	1,200	670 J	1,400 J	1,200
Naphthalene	UG/KG	100000	2,400 U	1,000 U	1,000 U	2,500 U	1,000 U
Phenanthrene	UG/KG	100000	950 J	930 J	400 J	1,800 J	1,000
Phenol	UG/KG	100000	2,400 U	1,000 U	1,000 U	2,500 U	1,000 U
Pyrene	UG/KG	100000	2,700	2,700	1,500	4,300	3,300

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-7
SUMMARY OF DETECTED SURFACE SOIL AND SHALLOW SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SS-14	SS-14	SS-14	SS-15	SS-15
Sample ID			SS-14-0-2"	SS-14-0.2-1.0	SS-14-1.0-2.0	SS-15-0-2"	SS-15-0.2-1.0
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0
Date Sampled			05/05/08	05/06/08	05/06/08	05/05/08	05/06/08
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	18,010	17,800	10,440	28,400	21,360
Total Semivolatile Organic Compounds	UG/KG	-	18,120	17,910	10,440	28,580	21,436
Metals							
Arsenic	MG/KG	16	7.5	6.4	6.5	10.8	8.3
Barium	MG/KG	350	93.1	85.3 J	78.7 J	115	80.6 J
Cadmium	MG/KG	2.5	0.42	0.33	0.22 U	1.4	0.39
Chromium	MG/KG	36	16.6	16.9 J	15.3 J	23.1	16.9 J
Lead	MG/KG	400	85.2	73.6 J	54.8 J	339	59.8 J
Mercury	MG/KG	0.81	0.133	0.113 J	0.043 J	0.204	0.182 J
Miscellaneous Parameters							
Cyanide	MG/KG	27	NA	NA	NA	NA	NA

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-7
SUMMARY OF DETECTED SURFACE SOIL AND SHALLOW SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SS-15	SS-16	SS-16	SS-16
Sample ID			SS-15-1.0-2.0	SS-16-0-2"	SS-16-0.2-1.0	SS-16-1.0-2.0
Matrix			Soil	Soil	Soil	Soil
Depth Interval (ft)			1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0
Date Sampled			05/06/08	05/05/08	05/06/08	05/06/08
Parameter	**Units**	**Criteria***				
Semivolatile Organic Compounds						
2-Methylnaphthalene	UG/KG	-	1,000 U	240 J	2,000 U	210 U
4-Methylphenol (p-cresol)	UG/KG	34000	1,000 U	2,300 U	2,000 U	210 U
Acenaphthene	UG/KG	100000	1,000 U	3,400	160 J	210 U
Acenaphthylene	UG/KG	100000	120 J	240 J	740 J	16 J
Anthracene	UG/KG	100000	150 J	8,700	1,400 J	24 J
Benzo(a)anthracene	UG/KG	1000	1,000	19,000	5,800	170 J
Benzo(a)pyrene	UG/KG	1000	900 J	13,000	4,600	150 J
Benzo(b)fluoranthene	UG/KG	1000	1,100	17,000	5,800	180 J
Benzo(g,h,i)perylene	UG/KG	100000	640 J	6,700	3,200	110 J
Benzo(k)fluoranthene	UG/KG	1000	380 J	6,800	2,000	61 J
bis(2-Ethylhexyl)phthalate	UG/KG	-	1,000 U	2,300 U	2,000 U	1,900
Carbazole	UG/KG	-	110 J	2,000 J	340 J	210 U
Chrysene	UG/KG	1000	1,000	16,000	5,000	140 J
Dibenzo(a,h)anthracene	UG/KG	330	260 J	2,200 J	1,100 J	36 J
Dibenzofuran	UG/KG	14000	48 J	1,700 J	160 J	210 U
Fluoranthene	UG/KG	100000	1,800	44,000	9,300	270
Fluorene	UG/KG	100000	1,000 U	3,800	290 J	210 U
Indeno(1,2,3-cd)pyrene	UG/KG	500	600 J	6,600	3,000	100 J
Naphthalene	UG/KG	100000	100 J	340 J	2,000 U	210 U
Phenanthrene	UG/KG	100000	1,000	33,000	3,800	67 J
Phenol	UG/KG	100000	1,000 U	2,300 U	2,000 U	210 U
Pyrene	UG/KG	100000	1,500	28,000	7,700	230

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-7
SUMMARY OF DETECTED SURFACE SOIL AND SHALLOW SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			SS-15	SS-16	SS-16	SS-16
Sample ID			SS-15-1.0-2.0	SS-16-0-2"	SS-16-0.2-1.0	SS-16-1.0-2.0
Matrix			Soil	Soil	Soil	Soil
Depth Interval (ft)			1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0
Date Sampled			05/06/08	05/05/08	05/06/08	05/06/08
Parameter	**Units**	**Criteria***				
Semivolatile Organic Compounds						
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	10,550	208,780	53,890	1,554
Total Semivolatile Organic Compounds	UG/KG	-	10,708	212,720	54,390	3,454
Metals						
Arsenic	MG/KG	16	7.0	8.8	8.8	6.5
Barium	MG/KG	350	70.4 J	137	180 J	99.1 J
Cadmium	MG/KG	2.5	0.23 U	1.4	1.2	0.24 U
Chromium	MG/KG	36	14.4 J	21.0	25.2 J	13.9 J
Lead	MG/KG	400	42.3 J	379	293 J	32.1 J
Mercury	MG/KG	0.81	0.103 J	0.210	0.198 J	0.066 J
Miscellaneous Parameters						
Cyanide	MG/KG	27	NA	NA	NA	NA

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 4-8
STATISTICAL SUMMARY OF SURFACE SOIL AND SHALLOW SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections					Dist	Location of Max Value	Depth Of Max
					Min	Max	Avg	StdDev	UCL95			
Semivolatile Organic Compounds												
2-Methylnaphthalene	UG/KG	-	36	5	17.00	240.0	110.3	84.81	184.6	Non-Normal	SS-16	0.0-0.2
4-Methylphenol (p-cresol)	UG/KG	34000	30	1	390.0	390.0	390.0	-	-	Non-Normal	SS-12	1.0-2.0
Acenaphthene	UG/KG	100000	36	13	15.00	3,400	480.7	908.9	974.8	Non-Normal	SS-16	0.0-0.2
Acenaphthylene	UG/KG	100000	36	19	16.00	2,100	295.7	464.3	504.5	Non-Normal	SS-12	1.0-2.0
Anthracene	UG/KG	100000	36	29	24.00	8,700	934.1	1,809	1,593	Non-Normal	SS-16	0.0-0.2
Benzo(a)anthracene	UG/KG	1000	36	35	37.00	2.00E+04	2,660	4,556	4,170	Non-Normal	SS-12	1.0-2.0
Benzo(a)pyrene	UG/KG	1000	36	36	24.00	1.30E+04	1,975	2,991	2,952	Non-Normal	SS-16	0.0-0.2
Benzo(b)fluoranthene	UG/KG	1000	36	36	32.00	1.70E+04	2,550	3,782	3,785	Non-Normal	SS-16	0.0-0.2
Benzo(g,h,i)perylene	UG/KG	100000	36	36	20.00	6,700	1,070	1,443	1,541	Non-Normal	SS-16	0.0-0.2
Benzo(k)fluoranthene	UG/KG	1000	36	34	12.00	6,800	915.4	1,385	1,381	Non-Normal	SS-16	0.0-0.2
bis(2-Ethylhexyl)phthalate	UG/KG	-	30	1	1,900	1,900	1,900	-	-	Non-Normal	SS-16	1.0-2.0
Carbazole	UG/KG	-	30	17	15.00	2,000	267.7	472.0	492.1	Non-Normal	SS-16	0.0-0.2
Chrysene	UG/KG	1000	36	30	140.0	1.60E+04	2,653	3,784	4,007	Non-Normal	SS-16	0.0-0.2
Dibenzo(a,h)anthracene	UG/KG	330	36	32	24.00	3,200	482.5	668.3	714.0	Non-Normal	SS-12	1.0-2.0
Dibenzofuran	UG/KG	14000	36	11	9.00	1,700	265.8	484.7	552.2	Non-Normal	SS-16	0.0-0.2
Fluoranthene	UG/KG	100000	36	36	52.00	4.40E+04	5,436	9,762	8,625	Non-Normal	SS-16	0.0-0.2

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-8
STATISTICAL SUMMARY OF SURFACE SOIL AND SHALLOW SOIL ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections					Dist	Location of Max Value	Depth Of Max
					Min	Max	Avg	StdDev	UCL95			
Semivolatile Organic Compounds												
Fluorene	UG/KG	100000	36	10	21.00	3,800	651.3	1,153	1,366	Non-Normal	SS-16	0.0-0.2
Indeno(1,2,3-cd)pyrene	UG/KG	500	36	35	16.00	6,600	1,062	1,430	1,536	Non-Normal	SS-16	0.0-0.2
Naphthalene	UG/KG	100000	36	8	20.00	510.0	194.0	178.0	317.4	Non-Normal	SS-12	1.0-2.0
Phenanthrene	UG/KG	100000	36	34	17.00	3.30E+04	2,998	6,089	5,045	Non-Normal	SS-16	0.0-0.2
Phenol	UG/KG	100000	30	1	220.0	220.0	220.0	-	-	Normal	SS-12	1.0-2.0
Pyrene	UG/KG	100000	36	36	44.00	2.80E+04	3,843	6,320	5,907	Non-Normal	SS-16	0.0-0.2
Metals												
Arsenic	MG/KG	16	30	30	4.90	11.90	7.96	1.83	8.61	Normal	SS-11	0.2-1.0
Barium	MG/KG	350	30	30	48.50	180.0	95.04	29.84	105.7	Non-Normal	SS-16	0.2-1.0
Cadmium	MG/KG	2.5	30	24	0.214	2.10	0.675	0.498	0.874	Non-Normal	SS-11	0.0-0.2
Chromium	MG/KG	36	30	30	10.80	26.10	17.75	3.75	19.09	Normal	SS-08	1.0-2.0
Lead	MG/KG	400	30	30	14.60	483.0	128.0	129.2	174.2	Non-Normal	SS-11	0.0-0.2
Mercury	MG/KG	0.81	30	30	0.043	2.30	0.291	0.491	0.466	Non-Normal	SS-08	0.2-1.0
Miscellaneous Parameters												
Cyanide	MG/KG	27	6	1	0.943	0.943	0.943	-	-	Normal	SS-02	

*Criteria- 6 NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, Section 375-6.8, Restricted Use - Protection of Public Health, Residential. Effective 12/14/2006.

Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4-9
SUMMARY OF INDOOR/OUTDOOR AIR & SUBSLAB SOIL VAPOR ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-001	H-001	H-001	H-001
Sample ID		H-001-IA-1	H-001-IA-B-1	H-001-IA-B-1-DUP	H-001-IA-B-2	H-001-SS-1
Matrix		Indoor Air	Indoor Air	Indoor Air	Indoor Air	Sub-Slab Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/14/06	11/14/06	11/14/06	11/14/06	11/14/06
Parameter	Units		(2-2)	Field Duplicate (2-2)	(2-2)	
Volatile Organic Compounds						
1,1,2,2-Tetrachloroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	14 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.41 J	0.47 J	0.49 J	0.45 J	15 U
1,1,2-Trichloroethane	UG/M3	1.1 U	1.1 U	1.1 U	1.1 U	11 U
1,1-Dichloroethane	UG/M3	0.81 U	0.81 U	0.81 U	0.81 U	8.1 U
1,1-Dichloroethene	UG/M3	0.79 U	0.79 U	0.79 U	0.79 U	7.9 U
1,2,4-Trichlorobenzene	UG/M3	7.4 U	7.4 U	7.4 U	7.4 U	74 U
1,2,4-Trimethylbenzene	UG/M3	2.0	1.4	1.3	1.0	9.8 U
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	1.5 U	1.5 U	1.5 U	1.5 U	15 U
1,2-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	12 U
1,2-Dichloroethane	UG/M3	0.81 U	0.81 U	0.81 U	0.81 U	8.1 U
1,2-Dichloroethene (cis)	UG/M3	0.79 U	0.79 U	0.79 U	0.79 U	7.9 U
1,2-Dichloroethene (trans)	UG/M3	0.79 U	0.79 U	0.79 U	0.79 U	7.9 U
1,2-Dichloropropane	UG/M3	0.92 U	0.92 U	0.92 U	0.92 U	9.2 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	14 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.55 J	0.46 J	0.37 J	0.34 J	9.8 U
1,3-Butadiene	UG/M3	0.88 U	0.88 U	0.88 U	0.88 U	8.8 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	12 U
1,3-Dichloropropene (cis)	UG/M3	0.91 U	0.91 U	0.91 U	0.91 U	9.1 U
1,3-Dichloropropene (trans)	UG/M3	0.91 U	0.91 U	0.91 U	0.91 U	9.1 U
1,4-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	12 U
3-Chloropropene	UG/M3	0.63 U	0.63 U	0.63 U	0.63 U	6.3 U
alpha-Methylstyrene	UG/M3	1.9 U	1.9 U	1.9 U	1.9 U	19 U
Benzene	UG/M3	2.1	3.0	2.9	2.3	4.2 J

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit. J - The reported concentration is an estimated value.
UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value. R - Rejected, the data are unusable.
NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value. NEG - The analysis tested negative for the presence of this analyte.
NA - Not analyzed. UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4-9
SUMMARY OF INDOOR/OUTDOOR AIR & SUBSLAB SOIL VAPOR ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-001	H-001	H-001	H-001
Sample ID		H-001-IA-1	H-001-IA-B-1	H-001-IA-B-1-DUP	H-001-IA-B-2	H-001-SS-1
Matrix		Indoor Air	Indoor Air	Indoor Air	Indoor Air	Sub-Slab Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/14/06	11/14/06	11/14/06	11/14/06	11/14/06
Parameter	Units		(2-2)	Field Duplicate (2-2)	(2-2)	
Volatile Organic Compounds						
Benzyl chloride	UG/M3	2.1 U	2.1 U	2.1 U	2.1 U	21 U
Bromodichloromethane	UG/M3	1.3 U	1.3 U	1.3 U	1.3 U	13 U
Bromoform	UG/M3	2.1 U	2.1 U	2.1 U	2.1 U	21 U
Bromomethane	UG/M3	0.78 U	0.78 U	0.78 U	0.78 U	7.8 U
Carbon disulfide	UG/M3	0.097 J	0.11 J	0.31 J	1.6 U	16 U
Carbon tetrachloride	UG/M3	0.40 J	0.50 J	0.48 J	0.47 J	13 U
Chlorobenzene	UG/M3	0.92 U	0.92 U	0.92 U	0.92 U	9.2 U
Chlorodifluoromethane	UG/M3	0.71 U	0.71 U	0.71 U	0.71 U	7.1 U
Chloroethane	UG/M3	0.53 U	0.53 U	0.53 U	0.53 U	5.3 U
Chloroform	UG/M3	0.54 J	0.29 J	0.26 J	0.98 U	9.8 U
Chloromethane	UG/M3	1.4	1.4	1.2	1.1	10 U
Cyclohexane	UG/M3	1.1 J	1.4 J	1.3 J	1.1 J	17 U
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	17 U
Dibromomethane	UG/M3	2.8 U	2.8 U	2.8 U	2.8 U	28 U
Dichlorodifluoromethane	UG/M3	72	8.8	8.5	7.0	8.7 J
Ethylbenzene	UG/M3	1.1	1.0	1.0	0.81 J	8.7 U
Heptane	UG/M3	1.8 J	2.5	2.5	1.9 J	2.2 J
Hexachlorobutadiene	UG/M3	11 U	11 U	11 U	11 U	110 U
Hexane	UG/M3	2.2	3.5	3.4	2.8	3.7 J
Isopropylbenzene (Cumene)	UG/M3	2.0 U	2.0 U	2.0 U	2.0 U	20 U
m&p-Xylene	UG/M3	3.7	3.3	3.2	2.9	2.5 J
Methylene chloride	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	17 U
Naphthalene	UG/M3	2.6 U	2.6 U	2.6 U	2.6 U	26 U

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit. J - The reported concentration is an estimated value.
UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value. R - Rejected, the data are unusable.
NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value. NEG - The analysis tested negative for the presence of this analyte.
NA - Not analyzed. UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4-9
SUMMARY OF INDOOR/OUTDOOR AIR & SUBSLAB SOIL VAPOR ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-001	H-001	H-001	H-001
Sample ID		H-001-IA-1	H-001-IA-B-1	H-001-IA-B-1-DUP	H-001-IA-B-2	H-001-SS-1
Matrix		Indoor Air	Indoor Air	Indoor Air	Indoor Air	Sub-Slab Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/14/06	11/14/06	11/14/06	11/14/06	11/14/06
Parameter	Units		(2-2)	Field Duplicate (2-2)	(2-2)	
Volatile Organic Compounds						
n-Butane	UG/M3	21	25	24	20	23
n-Decane	UG/M3	3.8 J	2.3 J	1.7 J	1.8 J	58 U
n-Dodecane	UG/M3	0.51 J	0.45 J	7.0 U	7.0 U	70 U
n-Octane	UG/M3	0.77 J	1.2 J	1.2 J	1.0 J	19 U
Nonane	UG/M3	0.90 J	1.3 J	1.2 J	1.2 J	26 U
n-Propylbenzene	UG/M3	2.0 U	2.0 U	2.0 U	2.0 U	20 U
n-Undecane	UG/M3	1.1 J	1.2 J	0.58 J	0.91 J	64 U
o-Xylene	UG/M3	1.4	1.1	1.1	0.97	8.7 U
Pentane	UG/M3	5.4	8.3	7.9	7.1	8.3 J
Styrene	UG/M3	0.48 J	0.36 J	0.34 J	0.30 J	8.5 U
Tetrachloroethene	UG/M3	0.34 J	0.52 J	0.60 J	0.47 J	14 U
Toluene	UG/M3	8.2	4.8	4.7	4.2	3.8 J
1,1,1-Trichloroethane	UG/M3	1.1 U	1.1 U	1.1 U	1.1 U	11 U
Trichloroethene	UG/M3	0.59 J	1.1 U	1.1 U	1.1 U	11 U
Trichlorofluoromethane	UG/M3	28	3.8	3.6	3.7	4.2 J
Vinyl chloride	UG/M3	0.51 U	0.51 U	0.51 U	0.51 U	5.1 U
Total BTEX	UG/M3	16.5	13.2	12.9	11.18	10.5
Total Volatile Organic Compounds	UG/M3	161.887	78.46	74.13	63.82	60.6
Tentatively Identified Volatiles						
1,2,3-Trimethylbenzene	UG/M3	NEG	NEG	NEG	NEG	NEG
2,2,4-Trimethylpentane	UG/M3	NEG	NEG	NEG	NEG	NEG
2,3-Dimethylheptane	UG/M3	NEG	NEG	NEG	NEG	NEG
2,3-Dimethylpentane	UG/M3	NEG	NEG	NEG	NEG	NEG

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit. J - The reported concentration is an estimated value.
UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value. R - Rejected, the data are unusable.
NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value. NEG - The analysis tested negative for the presence of this analyte.
NA - Not analyzed. UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4-9
SUMMARY OF INDOOR/OUTDOOR AIR & SUBSLAB SOIL VAPOR ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-001	H-001	H-001	H-001
Sample ID		H-001-IA-1	H-001-IA-B-1	H-001-IA-B-1-DUP	H-001-IA-B-2	H-001-SS-1
Matrix		Indoor Air	Indoor Air	Indoor Air	Indoor Air	Sub-Slab Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/14/06	11/14/06	11/14/06	11/14/06	11/14/06
Parameter	Units		(2-2)	Field Duplicate (2-2)	(2-2)	
Tentatively Identified Volatiles						
Butylcyclohexane	UG/M3	NEG	NEG	NEG	NEG	NEG
Indane	UG/M3	NEG	NEG	NEG	NEG	NEG
Indene	UG/M3	NEG	NEG	NEG	NEG	NEG
Isopentane	UG/M3	16 NJ	25 NJ	24 NJ	21 NJ	NEG
Thiopene	UG/M3	NEG	NEG	NEG	NEG	NEG
2-Methylnaphthalene	UG/M3	NEG	NEG	NEG	NEG	NEG

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit. J - The reported concentration is an estimated value.
UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value. R - Rejected, the data are unusable.
NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value. NEG - The analysis tested negative for the presence of this analyte.
NA - Not analyzed. UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4-9
SUMMARY OF INDOOR/OUTDOOR AIR & SUBSLAB SOIL VAPOR ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-001	H-001	H-001	H-001
Sample ID		H-001-SS-1-DUP	H-001-SS-2	20070314-OA-1	H-001-IA-1	H-001-IA-1-DUP
Matrix		Sub-Slab Air	Sub-Slab Air	Ambient Air	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/14/06	11/14/06	03/14/07	03/14/07	03/14/07
Parameter	Units	Field Duplicate (1-1)				Field Duplicate (1-1)
Volatile Organic Compounds						
1,1,2,2-Tetrachloroethane	UG/M3	14 U	14 U	1.4 U	1.4 U	R
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	15 U	15 U	0.67 J	0.52 J	R
1,1,2-Trichloroethane	UG/M3	11 U	11 U	1.1 U	1.1 U	R
1,1-Dichloroethane	UG/M3	8.1 U	8.1 U	0.81 U	0.81 U	R
1,1-Dichloroethene	UG/M3	7.9 U	7.9 U	0.79 U	0.79 U	R
1,2,4-Trichlorobenzene	UG/M3	74 U	74 U	7.4 U	7.4 U	R
1,2,4-Trimethylbenzene	UG/M3	9.8 U	9.8 U	0.37 J	4.5	R
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	15 U	15 U	1.5 U	1.5 U	R
1,2-Dichlorobenzene	UG/M3	12 U	12 U	1.2 U	1.2 U	R
1,2-Dichloroethane	UG/M3	8.1 U	8.1 U	0.81 U	0.81 U	R
1,2-Dichloroethene (cis)	UG/M3	7.9 U	7.9 U	0.79 U	0.79 U	R
1,2-Dichloroethene (trans)	UG/M3	7.9 U	7.9 U	0.79 U	0.79 U	R
1,2-Dichloropropane	UG/M3	9.2 U	9.2 U	0.92 U	0.92 U	R
1,2-Dichlorotetrafluoroethane	UG/M3	14 U	14 U	1.4 U	1.4 U	R
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	9.8 U	9.8 U	0.98 U	1.2	R
1,3-Butadiene	UG/M3	8.8 U	8.8 U	0.88 U	0.88 U	R
1,3-Dichlorobenzene	UG/M3	12 U	12 U	1.2 U	1.2 U	R
1,3-Dichloropropene (cis)	UG/M3	9.1 U	9.1 U	0.91 U	0.91 U	R
1,3-Dichloropropene (trans)	UG/M3	9.1 U	9.1 U	0.91 U	0.91 U	R
1,4-Dichlorobenzene	UG/M3	12 U	12 U	1.2 U	1.2 U	R
3-Chloropropene	UG/M3	6.3 U	6.3 U	0.63 U	0.63 U	R
alpha-Methylstyrene	UG/M3	19 U	19 U	1.9 U	1.9 U	R
Benzene	UG/M3	5.4 J	7.4	4.9	4.0	R

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit. J - The reported concentration is an estimated value.
UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value. R - Rejected, the data are unusable.
NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value. NEG - The analysis tested negative for the presence of this analyte.
NA - Not analyzed. UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4-9
SUMMARY OF INDOOR/OUTDOOR AIR & SUBSLAB SOIL VAPOR ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-001	H-001	H-001	H-001
Sample ID		H-001-SS-1-DUP	H-001-SS-2	20070314-OA-1	H-001-IA-1	H-001-IA-1-DUP
Matrix		Sub-Slab Air	Sub-Slab Air	Ambient Air	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/14/06	11/14/06	03/14/07	03/14/07	03/14/07
Parameter	Units	Field Duplicate (1-1)				Field Duplicate (1-1)
Volatile Organic Compounds						
Benzyl chloride	UG/M3	21 U	21 U	2.1 U	2.1 U	R
Bromodichloromethane	UG/M3	13 U	13 U	1.3 U	1.3 U	R
Bromoform	UG/M3	21 U	21 U	2.1 U	2.1 U	R
Bromomethane	UG/M3	7.8 U	7.8 U	0.78 U	0.78 U	R
Carbon disulfide	UG/M3	1.0 J	1.1 J	3.5	0.11 J	R
Carbon tetrachloride	UG/M3	13 U	13 U	0.64 J	0.47 J	R
Chlorobenzene	UG/M3	9.2 U	9.2 U	0.92 U	0.92 U	R
Chlorodifluoromethane	UG/M3	7.1 U	7.1 U	1.6	0.71 U	R
Chloroethane	UG/M3	5.3 U	5.3 U	0.53 U	0.53 U	R
Chloroform	UG/M3	9.8 U	9.8 U	0.98 U	0.98 U	R
Chloromethane	UG/M3	10 U	10 U	1.6	1.7	R
Cyclohexane	UG/M3	17 U	17 U	1.7 U	1.5 J	R
Dibromochloromethane	UG/M3	17 U	17 U	1.7 U	1.7 U	R
Dibromomethane	UG/M3	28 U	28 U	2.8 U	2.8 U	R
Dichlorodifluoromethane	UG/M3	4.7 J	4.9 J	2.8	2.9	R
Ethylbenzene	UG/M3	8.7 U	8.7 U	2.3	3.9	R
Heptane	UG/M3	20 U	2.4 J	2.2	2.3	R
Hexachlorobutadiene	UG/M3	110 U	110 U	11 U	11 U	R
Hexane	UG/M3	18 U	2.7 J	3.5	3.9	R
Isopropylbenzene (Cumene)	UG/M3	20 U	20 U	2.0 U	0.32 J	R
m&p-Xylene	UG/M3	8.7 U	8.7 U	5.8	13	R
Methylene chloride	UG/M3	17 U	17 U	1.7 U	1.7 U	R
Naphthalene	UG/M3	26 U	26 U	2.6 U	2.6 U	R

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit. J - The reported concentration is an estimated value.
UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value. R - Rejected, the data are unusable.
NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value. NEG - The analysis tested negative for the presence of this analyte.
NA - Not analyzed. UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4-9
SUMMARY OF INDOOR/OUTDOOR AIR & SUBSLAB SOIL VAPOR ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-001	H-001	H-001	H-001
Sample ID		H-001-SS-1-DUP	H-001-SS-2	20070314-OA-1	H-001-IA-1	H-001-IA-1-DUP
Matrix		Sub-Slab Air	Sub-Slab Air	Ambient Air	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/14/06	11/14/06	03/14/07	03/14/07	03/14/07
Parameter	Units	Field Duplicate (1-1)				Field Duplicate (1-1)
Volatile Organic Compounds						
n-Butane	UG/M3	5.3 J	4.5 J	16	24	R
n-Decane	UG/M3	58 U	58 U	5.8 U	11	R
n-Dodecane	UG/M3	70 U	70 U	7.0 U	2.5 J	R
n-Octane	UG/M3	19 U	19 U	0.67 J	1.1 J	R
Nonane	UG/M3	26 U	26 U	0.31 J	1.9 J	R
n-Propylbenzene	UG/M3	20 U	20 U	2.0 U	0.58 J	R
n-Undecane	UG/M3	64 U	64 U	6.4 U	11	R
o-Xylene	UG/M3	8.7 U	8.7 U	1.7	4.8	R
Pentane	UG/M3	30 U	3.3 J	7.8	7.9	R
Styrene	UG/M3	8.5 U	8.5 U	0.85 U	0.85	R
Tetrachloroethene	UG/M3	14 U	5.2 J	0.34 J	0.34 J	R
Toluene	UG/M3	7.5 U	2.4 J	14	12	R
1,1,1-Trichloroethane	UG/M3	11 U	11 U	1.1 U	1.1 U	R
Trichloroethene	UG/M3	11 U	11 U	1.1 U	1.1 U	R
Trichlorofluoromethane	UG/M3	2.0 J	2.0 J	1.4	2.0	R
Vinyl chloride	UG/M3	5.1 U	5.1 U	0.51 U	0.51 U	R
Total BTEX	UG/M3	5.4	9.8	28.7	37.7	ND
Total Volatile Organic Compounds	UG/M3	18.4	35.9	72.1	120.29	ND
Tentatively Identified Volatiles						
1,2,3-Trimethylbenzene	UG/M3	NEG	NEG	NEG	NEG	R
2,2,4-Trimethylpentane	UG/M3	NEG	NEG	NEG	NEG	R
2,3-Dimethylheptane	UG/M3	NEG	NEG	NEG	NEG	R
2,3-Dimethylpentane	UG/M3	NEG	NEG	NEG	NEG	R

Flags assigned during chemistry validation are shown.

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UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value. R - Rejected, the data are unusable.
NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value. NEG - The analysis tested negative for the presence of this analyte.
NA - Not analyzed. UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4-9
SUMMARY OF INDOOR/OUTDOOR AIR & SUBSLAB SOIL VAPOR ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-001	H-001	H-001	H-001
Sample ID		H-001-SS-1-DUP	H-001-SS-2	20070314-OA-1	H-001-IA-1	H-001-IA-1-DUP
Matrix		Sub-Slab Air	Sub-Slab Air	Ambient Air	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/14/06	11/14/06	03/14/07	03/14/07	03/14/07
Parameter	Units	Field Duplicate (1-1)				Field Duplicate (1-1)
Tentatively Identified Volatiles						
Butylcyclohexane	UG/M3	NEG	NEG	NEG	NEG	R
Indane	UG/M3	NEG	NEG	NEG	NEG	R
Indene	UG/M3	NEG	NEG	NEG	NEG	R
Isopentane	UG/M3	NEG	NEG	15 NJ	13 NJ	R
Thiopene	UG/M3	NEG	NEG	NEG	NEG	R
2-Methylnaphthalene	UG/M3	NEG	NEG	NEG	NEG	R

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit. J - The reported concentration is an estimated value.
UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value. R - Rejected, the data are unusable.
NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value. NEG - The analysis tested negative for the presence of this analyte.
NA - Not analyzed. UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4-9
SUMMARY OF INDOOR/OUTDOOR AIR & SUBSLAB SOIL VAPOR ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-001	H-001	H-001	H-001
Sample ID		H-001-IA-B-1	H-001-IA-B-1-DUP	H-001-IA-B-2	H-001-SS-1	H-001-SS-1-DUP
Matrix		Indoor Air	Indoor Air	Indoor Air	Sub-Slab Air	Sub-Slab Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/14/07	03/14/07	03/14/07	03/14/07	03/14/07
Parameter	Units	(2-2)	Field Duplicate (2-2)	(3-3)		Field Duplicate (1-1)
Volatile Organic Compounds						
1,1,2,2-Tetrachloroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 UJ	1.4 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.64 J	0.55 J	0.47 J	0.62 J	0.55 J
1,1,2-Trichloroethane	UG/M3	1.1 U	1.1 U	1.1 U	1.1 UJ	1.1 U
1,1-Dichloroethane	UG/M3	0.81 U	0.81 U	0.81 U	0.81 UJ	0.81 U
1,1-Dichloroethene	UG/M3	0.79 U	0.79 U	0.79 U	0.79 UJ	0.79 U
1,2,4-Trichlorobenzene	UG/M3	7.4 U	7.4 U	7.4 U	7.4 UJ	7.4 U
1,2,4-Trimethylbenzene	UG/M3	4.2	3.5	3.7	2.3 J	0.74 J
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	1.5 U	1.5 U	1.5 U	1.5 UJ	1.5 U
1,2-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 UJ	1.2 U
1,2-Dichloroethane	UG/M3	0.81 U	0.81 U	0.81 U	0.56 J	0.70 J
1,2-Dichloroethene (cis)	UG/M3	0.79 U	0.79 U	0.79 U	0.79 UJ	0.79 U
1,2-Dichloroethene (trans)	UG/M3	0.79 U	0.79 U	0.79 U	0.79 UJ	0.79 U
1,2-Dichloropropane	UG/M3	0.92 U	0.92 U	0.92 U	0.92 UJ	0.92 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 UJ	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	1.0	0.89 J	1.0	0.64 J	0.31 J
1,3-Butadiene	UG/M3	0.88 U	0.88 U	0.88 U	0.88 UJ	0.88 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 UJ	1.2 U
1,3-Dichloropropene (cis)	UG/M3	0.91 U	0.91 U	0.91 U	0.91 UJ	0.91 U
1,3-Dichloropropene (trans)	UG/M3	0.91 U	0.91 U	0.91 U	0.91 UJ	0.91 U
1,4-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 UJ	1.2 U
3-Chloropropene	UG/M3	0.63 U	0.63 U	0.63 U	0.63 UJ	0.63 U
alpha-Methylstyrene	UG/M3	1.9 U	1.9 U	1.9 U	1.7 J	1.8 J
Benzene	UG/M3	4.1	3.5	3.1	4.7 J	3.4

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit. J - The reported concentration is an estimated value.
UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value. R - Rejected, the data are unusable.
NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value. NEG - The analysis tested negative for the presence of this analyte.
NA - Not analyzed. UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4-9
SUMMARY OF INDOOR/OUTDOOR AIR & SUBSLAB SOIL VAPOR ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-001	H-001	H-001	H-001
Sample ID		H-001-IA-B-1	H-001-IA-B-1-DUP	H-001-IA-B-2	H-001-SS-1	H-001-SS-1-DUP
Matrix		Indoor Air	Indoor Air	Indoor Air	Sub-Slab Air	Sub-Slab Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/14/07	03/14/07	03/14/07	03/14/07	03/14/07
Parameter	**Units**	(2-2)	Field Duplicate (2-2)	(3-3)		Field Duplicate (1-1)
Volatile Organic Compounds						
Benzyl chloride	UG/M3	2.1 U	2.1 U	2.1 U	2.1 UJ	2.1 U
Bromodichloromethane	UG/M3	1.3 U	1.3 U	1.3 U	1.3 UJ	1.3 U
Bromoform	UG/M3	2.1 U	2.1 U	2.1 U	2.1 UJ	2.1 U
Bromomethane	UG/M3	0.78 U	0.78 U	0.78 U	0.78 UJ	0.78 U
Carbon disulfide	UG/M3	1.6 U	0.10 J	1.6 U	1.0 J	0.33 J
Carbon tetrachloride	UG/M3	0.56 J	0.47 J	0.47 J	0.41 J	0.33 J
Chlorobenzene	UG/M3	0.92 U	0.92 U	0.92 U	0.92 UJ	0.92 U
Chlorodifluoromethane	UG/M3	1.3	0.92	0.90	1.1 J	0.74
Chloroethane	UG/M3	0.53 U	0.53 U	0.53 U	0.53 UJ	0.53 U
Chloroform	UG/M3	0.98 U	0.98 U	0.98 U	0.98 UJ	0.98 U
Chloromethane	UG/M3	1.5	1.2	1.1	0.81 J	1.0 U
Cyclohexane	UG/M3	1.8	1.5 J	1.2 J	0.79 J	1.7 U
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 UJ	1.7 U
Dibromomethane	UG/M3	2.8 U	2.8 U	2.8 U	2.8 UJ	2.8 U
Dichlorodifluoromethane	UG/M3	2.7	2.2	2.2	2.8 J	2.2
Ethylbenzene	UG/M3	2.3	1.9	1.8	1.4 J	0.58 J
Heptane	UG/M3	3.8	2.1	1.8 J	1.5 J	1.1 J
Hexachlorobutadiene	UG/M3	11 U	11 U	11 U	11 UJ	11 U
Hexane	UG/M3	5.6	4.9	4.2	2.6 J	0.60 J
Isopropylbenzene (Cumene)	UG/M3	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U
m&p-Xylene	UG/M3	7.8	6.7	6.3	4.6 J	1.8
Methylene chloride	UG/M3	1.7 U	1.7 U	1.7 U	1.7 UJ	1.7 U
Naphthalene	UG/M3	2.6 U	2.6 U	2.6 U	2.6 UJ	2.6 U

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit. J - The reported concentration is an estimated value.
UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value. R - Rejected, the data are unusable.
NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value. NEG - The analysis tested negative for the presence of this analyte.
NA - Not analyzed. UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

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([MATRIX] = 'AA' OR [MATRIX] = 'AI' OR [MATRIX] = 'AS') AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOGDATE] >= #11/1/200

TABLE 4-9
SUMMARY OF INDOOR/OUTDOOR AIR & SUBSLAB SOIL VAPOR ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-001	H-001	H-001	H-001
Sample ID		H-001-IA-B-1	H-001-IA-B-1-DUP	H-001-IA-B-2	H-001-SS-1	H-001-SS-1-DUP
Matrix		Indoor Air	Indoor Air	Indoor Air	Sub-Slab Air	Sub-Slab Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/14/07	03/14/07	03/14/07	03/14/07	03/14/07
Parameter	Units	(2-2)	Field Duplicate (2-2)	(3-3)		Field Duplicate (1-1)
Volatile Organic Compounds						
n-Butane	UG/M3	34	28	29	13 J	0.86 J
n-Decane	UG/M3	8.3	6.5	7.8	4.6 J	2.0 J
n-Dodecane	UG/M3	3.5 J	1.9 J	2.3 J	1.7 J	1.3 J
n-Octane	UG/M3	1.5 J	1.1 J	0.92 J	1.0 J	0.72 J
Nonane	UG/M3	2.3 J	1.6 J	1.7 J	1.1 J	0.53 J
n-Propylbenzene	UG/M3	0.55 J	0.46 J	0.48 J	2.0 UJ	2.0 U
n-Undecane	UG/M3	11	9.1	12	5.3 J	1.5 J
o-Xylene	UG/M3	2.9	2.5	2.4	1.7 J	0.68 J
Pentane	UG/M3	12	11	8.9	6.1 J	3.0 U
Styrene	UG/M3	0.35 J	0.22 J	0.26 J	0.20 J	0.85 U
Tetrachloroethene	UG/M3	0.50 J	0.40 J	0.49 J	0.78 J	0.84 J
Toluene	UG/M3	10	8.3	7.5	6.7 J	3.5
1,1,1-Trichloroethane	UG/M3	1.1 U	1.1 U	1.1 U	1.1 UJ	1.1 U
Trichloroethene	UG/M3	1.1 U	1.1 U	1.1 U	1.1 UJ	1.1 U
Trichlorofluoromethane	UG/M3	1.5	1.2	1.2	1.5 J	1.1
Vinyl chloride	UG/M3	0.51 U	0.51 U	0.51 U	0.51 UJ	0.51 U
Total BTEX	UG/M3	27.1	22.9	21.1	19.1	9.96
Total Volatile Organic Compounds	UG/M3	125.7	102.71	103.19	71.21	28.21
Tentatively Identified Volatiles						
1,2,3-Trimethylbenzene	UG/M3	NEG	NEG	NEG	NEG	NEG
2,2,4-Trimethylpentane	UG/M3	NEG	NEG	NEG	NEG	NEG
2,3-Dimethylheptane	UG/M3	NEG	NEG	NEG	NEG	NEG
2,3-Dimethylpentane	UG/M3	NEG	NEG	NEG	NEG	NEG

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit. J - The reported concentration is an estimated value.
UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value. R - Rejected, the data are unusable.
NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value. NEG - The analysis tested negative for the presence of this analyte.
NA - Not analyzed. UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4-9
SUMMARY OF INDOOR/OUTDOOR AIR & SUBSLAB SOIL VAPOR ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-001	H-001	H-001	H-001
Sample ID		H-001-IA-B-1	H-001-IA-B-1-DUP	H-001-IA-B-2	H-001-SS-1	H-001-SS-1-DUP
Matrix		Indoor Air	Indoor Air	Indoor Air	Sub-Slab Air	Sub-Slab Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/14/07	03/14/07	03/14/07	03/14/07	03/14/07
Parameter	Units	(2-2)	Field Duplicate (2-2)	(3-3)		Field Duplicate (1-1)
Tentatively Identified Volatiles						
Butylcyclohexane	UG/M3	NEG	NEG	NEG	NEG	NEG
Indane	UG/M3	NEG	NEG	NEG	NEG	NEG
Indene	UG/M3	NEG	NEG	NEG	NEG	NEG
Isopentane	UG/M3	21 NJ	18 NJ	15 NJ	9.2 NJ	NEG
Thiopene	UG/M3	NEG	NEG	NEG	NEG	NEG
2-Methylnaphthalene	UG/M3	NEG	NEG	NEG	NEG	NEG

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit. J - The reported concentration is an estimated value.
UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value. R - Rejected, the data are unusable.
NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value. NEG - The analysis tested negative for the presence of this analyte.
NA - Not analyzed. UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4-9
SUMMARY OF INDOOR/OUTDOOR AIR & SUBSLAB SOIL VAPOR ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-002	H-002	H-002	H-002
Sample ID		H-001-SS-2	H-002-IA-1	H-002-IA-1-DUP	H-002-IA-B	H-002-SS-1
Matrix		Sub-Slab Air	Indoor Air	Indoor Air	Indoor Air	Sub-Slab Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/14/07	11/14/06	11/14/06	11/14/06	11/14/06
Parameter	Units			Field Duplicate (1-1)	(2-2)	
Volatile Organic Compounds						
1,1,2,2-Tetrachloroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	14 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.67 J	0.44 J	0.47 J	0.43 J	15 U
1,1,2-Trichloroethane	UG/M3	1.1 U	1.1 U	1.1 U	1.1 U	11 U
1,1-Dichloroethane	UG/M3	0.81 U	0.81 U	0.81 U	0.81 U	8.1 U
1,1-Dichloroethene	UG/M3	0.79 U	0.79 U	0.79 U	0.79 U	7.9 U
1,2,4-Trichlorobenzene	UG/M3	7.4 U	7.4 U	7.4 U	7.4 U	74 U
1,2,4-Trimethylbenzene	UG/M3	0.98 U	1.4	1.2	1.1	9.8 U
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	1.5 U	1.5 U	1.5 U	1.5 U	15 U
1,2-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	12 U
1,2-Dichloroethane	UG/M3	0.46 J	0.81 U	0.81 U	0.81 U	8.1 U
1,2-Dichloroethene (cis)	UG/M3	0.79 U	0.79 U	0.79 U	0.79 U	7.9 U
1,2-Dichloroethene (trans)	UG/M3	0.79 U	0.79 U	0.79 U	0.79 U	7.9 U
1,2-Dichloropropane	UG/M3	0.92 U	0.92 U	0.92 U	0.92 U	9.2 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	14 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.98 U	0.66 J	0.45 J	0.33 J	9.8 U
1,3-Butadiene	UG/M3	0.88 U	0.88 U	0.88 U	0.88 U	8.8 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	12 U
1,3-Dichloropropene (cis)	UG/M3	0.91 U	0.91 U	0.91 U	0.91 U	9.1 U
1,3-Dichloropropene (trans)	UG/M3	0.91 U	0.91 U	0.91 U	0.91 U	9.1 U
1,4-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	12 U
3-Chloropropene	UG/M3	0.63 U	0.63 U	0.63 U	0.63 U	6.3 U
alpha-Methylstyrene	UG/M3	1.9 U	1.9 U	0.91 J	1.9 U	19 U
Benzene	UG/M3	8.7	1.7	1.9	1.5	1.6 J

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UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value. R - Rejected, the data are unusable.
NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value. NEG - The analysis tested negative for the presence of this analyte.
NA - Not analyzed. UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4-9
SUMMARY OF INDOOR/OUTDOOR AIR & SUBSLAB SOIL VAPOR ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-002	H-002	H-002	H-002
Sample ID		H-001-SS-2	H-002-IA-1	H-002-IA-1-DUP	H-002-IA-B	H-002-SS-1
Matrix		Sub-Slab Air	Indoor Air	Indoor Air	Indoor Air	Sub-Slab Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/14/07	11/14/06	11/14/06	11/14/06	11/14/06
Parameter	Units			Field Duplicate (1-1)	(2-2)	
Volatile Organic Compounds						
Benzyl chloride	UG/M3	2.1 U	2.1 U	2.1 U	2.1 U	21 U
Bromodichloromethane	UG/M3	1.3 U	1.3 U	1.3 U	1.3 U	13 U
Bromoform	UG/M3	2.1 U	2.1 U	2.1 U	2.1 U	21 U
Bromomethane	UG/M3	0.78 U	0.78 U	0.78 U	0.78 U	7.8 U
Carbon disulfide	UG/M3	0.65 J	0.30 J	0.095 J	0.12 J	16 U
Carbon tetrachloride	UG/M3	0.27 J	0.46 J	0.52 J	0.41 J	13 U
Chlorobenzene	UG/M3	0.92 U	0.92 U	0.92 U	0.92 U	9.2 U
Chlorodifluoromethane	UG/M3	1.8	0.71 U	0.71 U	0.76	7.1 U
Chloroethane	UG/M3	0.53 U	0.15 J	0.12 J	0.53 U	5.3 U
Chloroform	UG/M3	0.98 U	0.24 J	0.25 J	0.98 U	9.8 U
Chloromethane	UG/M3	1.0 U	1.1	1.2	1.3	10 U
Cyclohexane	UG/M3	1.4 J	0.87 J	1.0 J	0.45 J	17 U
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	17 U
Dibromomethane	UG/M3	2.8 U	2.8 U	2.8 U	2.8 U	28 U
Dichlorodifluoromethane	UG/M3	2.2	2.3	2.5	2.2	3.3 J
Ethylbenzene	UG/M3	0.87 U	1.1	1.2	0.81 J	8.7 U
Heptane	UG/M3	0.62 J	3.1	3.5	1.3 J	20 U
Hexachlorobutadiene	UG/M3	11 U	11 U	11 U	11 U	110 U
Hexane	UG/M3	1.1 J	1.5 J	1.5 J	1.2 J	18 U
Isopropylbenzene (Cumene)	UG/M3	2.0 U	2.0 U	2.0 U	2.0 U	20 U
m&p-Xylene	UG/M3	0.87 U	3.5	3.5	2.8	2.5 J
Methylene chloride	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	17 U
Naphthalene	UG/M3	2.6 U	2.6 U	2.6 U	2.6 U	26 U

Flags assigned during chemistry validation are shown.

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NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value. NEG - The analysis tested negative for the presence of this analyte.
NA - Not analyzed. UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4-9
SUMMARY OF INDOOR/OUTDOOR AIR & SUBSLAB SOIL VAPOR ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-002	H-002	H-002	H-002
Sample ID		H-001-SS-2	H-002-IA-1	H-002-IA-1-DUP	H-002-IA-B	H-002-SS-1
Matrix		Sub-Slab Air	Indoor Air	Indoor Air	Indoor Air	Sub-Slab Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/14/07	11/14/06	11/14/06	11/14/06	11/14/06
Parameter	Units			Field Duplicate (1-1)	(2-2)	
Volatile Organic Compounds						
n-Butane	UG/M3	4.6	8.3	9.2	7.7	0.92 J
n-Decane	UG/M3	5.8 U	0.83 J	1.0 J	0.42 J	58 U
n-Dodecane	UG/M3	7.0 U	0.41 J	0.61 J	7.0 U	70 U
n-Octane	UG/M3	1.9 U	0.65 J	0.68 J	0.33 J	19 U
Nonane	UG/M3	2.6 U	0.37 J	0.43 J	2.6 U	26 U
n-Propylbenzene	UG/M3	2.0 U	2.0 U	2.0 U	2.0 U	20 U
n-Undecane	UG/M3	6.4 U	0.54 J	0.55 J	6.4 U	64 U
o-Xylene	UG/M3	0.87 U	1.4	1.4	1.1	8.7 U
Pentane	UG/M3	2.5 J	4.2	5.3	3.0	30 U
Styrene	UG/M3	0.85 U	0.48 J	0.54 J	0.20 J	8.5 U
Tetrachloroethene	UG/M3	1.8	0.23 J	0.27 J	1.4 U	14 U
Toluene	UG/M3	1.5	9.9	9.2	4.3	2.3 J
1,1,1-Trichloroethane	UG/M3	0.85 J	1.1 U	1.1 U	1.1 U	11 U
Trichloroethene	UG/M3	1.1 U	1.1 U	1.1 U	1.1 U	11 U
Trichlorofluoromethane	UG/M3	1.2	1.3	1.4	1.3	11 U
Vinyl chloride	UG/M3	0.51 U	0.51 U	0.51 U	0.51 U	5.1 U
Total BTEX	UG/M3	10.2	17.6	17.2	10.51	6.4
Total Volatile Organic Compounds	UG/M3	30.32	47.43	50.895	33.06	10.62
Tentatively Identified Volatiles						
1,2,3-Trimethylbenzene	UG/M3	NEG	NEG	NEG	NEG	NEG
2,2,4-Trimethylpentane	UG/M3	NEG	NEG	NEG	NEG	NEG
2,3-Dimethylheptane	UG/M3	NEG	NEG	NEG	NEG	NEG
2,3-Dimethylpentane	UG/M3	NEG	NEG	NEG	NEG	NEG

Flags assigned during chemistry validation are shown.

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NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value. NEG - The analysis tested negative for the presence of this analyte.
NA - Not analyzed. UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4-9
SUMMARY OF INDOOR/OUTDOOR AIR & SUBSLAB SOIL VAPOR ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-002	H-002	H-002	H-002
Sample ID		H-001-SS-2	H-002-IA-1	H-002-IA-1-DUP	H-002-IA-B	H-002-SS-1
Matrix		Sub-Slab Air	Indoor Air	Indoor Air	Indoor Air	Sub-Slab Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/14/07	11/14/06	11/14/06	11/14/06	11/14/06
Parameter	Units			Field Duplicate (1-1)	(2-2)	
Tentatively Identified Volatiles						
Butylcyclohexane	UG/M3	NEG	NEG	NEG	NEG	NEG
Indane	UG/M3	NEG	NEG	NEG	NEG	NEG
Indene	UG/M3	NEG	NEG	NEG	NEG	NEG
Isopentane	UG/M3	NEG	9.4 NJ	10 NJ	8.8 NJ	NEG
Thiopene	UG/M3	NEG	NEG	NEG	NEG	NEG
2-Methylnaphthalene	UG/M3	NEG	NEG	NEG	NEG	NEG

Flags assigned during chemistry validation are shown.

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UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value. R - Rejected, the data are unusable.
NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value. NEG - The analysis tested negative for the presence of this analyte.
NA - Not analyzed. UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4-9
SUMMARY OF INDOOR/OUTDOOR AIR & SUBSLAB SOIL VAPOR ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-002	H-002	H-002	H-002	OA-001
Sample ID		20070312-OA-1	H-002-IA-1	H-002-IA-B	H-002-SS-1	20061114-OA-1
Matrix		Ambient Air	Indoor Air	Indoor Air	Sub-Slab Air	Ambient Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/12/07	03/12/07	03/12/07	03/12/07	11/14/06
Parameter	Units			(2-2)		
Volatile Organic Compounds						
1,1,2,2-Tetrachloroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.79 J	0.69 J	0.78 J	0.82 J	0.46 J
1,1,2-Trichloroethane	UG/M3	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
1,1-Dichloroethane	UG/M3	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
1,1-Dichloroethene	UG/M3	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
1,2,4-Trichlorobenzene	UG/M3	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U
1,2,4-Trimethylbenzene	UG/M3	0.43 J	2.3	2.3	0.58 J	0.92 J
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,2-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	0.81 U	0.27 J	0.81 U	0.81 U	0.81 U
1,2-Dichloroethene (cis)	UG/M3	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
1,2-Dichloroethene (trans)	UG/M3	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
1,2-Dichloropropane	UG/M3	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.98 U	0.68 J	0.88 J	0.34 J	0.28 J
1,3-Butadiene	UG/M3	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,3-Dichloropropene (cis)	UG/M3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
1,3-Dichloropropene (trans)	UG/M3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
1,4-Dichlorobenzene	UG/M3	1.2 U	1.2 U	0.57 J	1.2 U	1.2 U
3-Chloropropene	UG/M3	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
alpha-Methylstyrene	UG/M3	1.9 U	1.9 U	1.9 U	0.22 J	1.9 U
Benzene	UG/M3	3.4	4.2	4.2	3.9	1.4

Flags assigned during chemistry validation are shown.

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NA - Not analyzed. UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

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([MATRIX] = 'AA' OR [MATRIX] = 'AI' OR [MATRIX] = 'AS') AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOGDATE] >= #11/1/200

TABLE 4-9
SUMMARY OF INDOOR/OUTDOOR AIR & SUBSLAB SOIL VAPOR ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-002	H-002	H-002	H-002	OA-001
Sample ID		20070312-OA-1	H-002-IA-1	H-002-IA-B	H-002-SS-1	20061114-OA-1
Matrix		Ambient Air	Indoor Air	Indoor Air	Sub-Slab Air	Ambient Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/12/07	03/12/07	03/12/07	03/12/07	11/14/06
Parameter	Units			(2-2)		
Volatile Organic Compounds						
Benzyl chloride	UG/M3	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Bromodichloromethane	UG/M3	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Bromoform	UG/M3	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	UG/M3	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U
Carbon disulfide	UG/M3	0.12 J	1.6 U	1.6 U	2.5	0.14 J
Carbon tetrachloride	UG/M3	0.70 J	0.63 J	0.73 J	0.62 J	0.54 J
Chlorobenzene	UG/M3	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Chlorodifluoromethane	UG/M3	0.87	0.52 J	0.98	0.56 J	0.88
Chloroethane	UG/M3	0.53 U	0.14 J	0.53 U	0.53 U	0.53 U
Chloroform	UG/M3	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Chloromethane	UG/M3	1.3	0.95 J	1.1	1.0 U	1.0 J
Cyclohexane	UG/M3	0.55 J	1.0 J	0.88 J	1.7 U	1.7 U
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dibromomethane	UG/M3	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U
Dichlorodifluoromethane	UG/M3	2.7	2.2	2.3	2.3	2.6
Ethylbenzene	UG/M3	0.65 J	2.0	2.1	0.54 J	0.66 J
Heptane	UG/M3	0.74 J	1.6 J	1.4 J	2.4	2.5
Hexachlorobutadiene	UG/M3	11 U	11 U	11 U	11 U	11 U
Hexane	UG/M3	2.4	3.0	3.2	2.4	0.65 J
Isopropylbenzene (Cumene)	UG/M3	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
m&p-Xylene	UG/M3	1.3	6.1	6.7	3.1	2.2
Methylene chloride	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Naphthalene	UG/M3	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit. J - The reported concentration is an estimated value.
UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value. R - Rejected, the data are unusable.
NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value. NEG - The analysis tested negative for the presence of this analyte.
NA - Not analyzed. UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4-9
SUMMARY OF INDOOR/OUTDOOR AIR & SUBSLAB SOIL VAPOR ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-002	H-002	H-002	H-002	OA-001
Sample ID		20070312-OA-1	H-002-IA-1	H-002-IA-B	H-002-SS-1	20061114-OA-1
Matrix		Ambient Air	Indoor Air	Indoor Air	Sub-Slab Air	Ambient Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/12/07	03/12/07	03/12/07	03/12/07	11/14/06
Parameter	Units			(2-2)		
Volatile Organic Compounds						
n-Butane	UG/M3	8.0	12	11	3.3	3.6
n-Decane	UG/M3	5.8 U	1.2 J	0.60 J	1.3 J	0.76 J
n-Dodecane	UG/M3	7.0 U	7.0 U	7.0 U	0.86 J	0.48 J
n-Octane	UG/M3	1.9 U	0.94 J	0.74 J	2.5	0.35 J
Nonane	UG/M3	2.6 U	0.49 J	0.47 J	1.7 J	0.30 J
n-Propylbenzene	UG/M3	2.0 U	0.42 J	0.44 J	2.0 U	2.0 U
n-Undecane	UG/M3	6.4 U	0.62 J	6.4 U	1.2 J	0.70 J
o-Xylene	UG/M3	0.44 J	2.4	2.5	0.83 J	0.90
Pentane	UG/M3	3.6	4.5	4.7	2.5 J	3.0 U
Styrene	UG/M3	0.85 U	0.34 J	0.85 U	0.85 U	0.25 J
Tetrachloroethene	UG/M3	0.22 J	0.61 J	0.48 J	0.59 J	1.4 U
Toluene	UG/M3	7.0	12	11	7.6	3.3
1,1,1-Trichloroethane	UG/M3	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	UG/M3	1.1 U	0.30 J	0.27 J	1.1 U	1.1 U
Trichlorofluoromethane	UG/M3	1.5	1.6	2.4	1.4	1.2
Vinyl chloride	UG/M3	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
Total BTEX	UG/M3	12.79	26.7	26.5	15.97	8.46
Total Volatile Organic Compounds	UG/M3	36.71	63.7	62.72	44.06	26.07
Tentatively Identified Volatiles						
1,2,3-Trimethylbenzene	UG/M3	NEG	NEG	NEG	NEG	NEG
2,2,4-Trimethylpentane	UG/M3	NEG	NEG	NEG	NEG	NEG
2,3-Dimethylheptane	UG/M3	NEG	NEG	NEG	NEG	NEG
2,3-Dimethylpentane	UG/M3	NEG	NEG	NEG	NEG	NEG

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit. J - The reported concentration is an estimated value.
UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value. R - Rejected, the data are unusable.
NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value. NEG - The analysis tested negative for the presence of this analyte.
NA - Not analyzed. UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4-9
SUMMARY OF INDOOR/OUTDOOR AIR & SUBSLAB SOIL VAPOR ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-002	H-002	H-002	H-002	OA-001
Sample ID		20070312-OA-1	H-002-IA-1	H-002-IA-B	H-002-SS-1	20061114-OA-1
Matrix		Ambient Air	Indoor Air	Indoor Air	Sub-Slab Air	Ambient Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/12/07	03/12/07	03/12/07	03/12/07	11/14/06
Parameter	Units			(2-2)		
Tentatively Identified Volatiles						
Butylcyclohexane	UG/M3	NEG	NEG	NEG	NEG	NEG
Indane	UG/M3	NEG	NEG	NEG	NEG	NEG
Indene	UG/M3	NEG	NEG	NEG	NEG	NEG
Isopentane	UG/M3	16 NJ	19 NJ	23 NJ	NEG	NEG
Thiopene	UG/M3	NEG	NEG	NEG	NEG	NEG
2-Methylnaphthalene	UG/M3	NEG	NEG	NEG	NEG	NEG

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit. J - The reported concentration is an estimated value.
UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value. R - Rejected, the data are unusable.
NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value. NEG - The analysis tested negative for the presence of this analyte.
NA - Not analyzed. UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 6-1
CONTAMINANTS OF POTENTIAL CONCERN IN SAMPLES COLLECTED
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Parameter	Matrix				
	Subsurface Soil	Surface Soil	Groundwater	Soil Vapor	Ambient Air
Toluene	Yes				
Ethylbenzene	Yes				
Xylene	Yes				
Acenaphthene	Yes				
Acenaphthylene	Yes				
Anthracene	Yes				
Benzo(a)anthracene	Yes	Yes			
Benzo(a)pyrene	Yes	Yes			
Benzo(b)fluoranthene	Yes	Yes			
Benzo(k)fluoranthene	Yes	Yes			
Benzo(g,h,i)perylene	Yes				
Carbazole	Yes				
Chrysene	Yes	Yes			
Dibenz(a,h)anthracene	Yes	Yes			
Dibenzofuran	Yes				
Fluoranthene	Yes				
Fluorene	Yes				
Indeno(1,2,3-cd)pyrene	Yes	Yes			
2-Methylnaphthalene	Yes				
2-Methylphenol	Yes				
4-Methylphenol	Yes				
Naphthalene	Yes				
Phenanthrene	Yes				
Phenol	Yes	Yes			
Pyrene	Yes				
Arsenic	Yes	Yes			
Barium	Yes				
Beryllium	Yes				
Cadmium	Yes	Yes			
Calcium	Yes				
Chromium	Yes	Yes			
Copper	Yes				
Iron	Yes		Yes		
Lead	Yes				
Magnesium	Yes				
Mercury	Yes	Yes			
Nickel	Yes				
Sodium			Yes		
Zinc	Yes				

Yes - Indicates parameter is a contaminant of potential concern.

TABLE 6-2
POTENTIAL PATHWAYS OF EXPOSURE - CURRENT USE SCENARIO
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Potentially Contaminated Medium	Potential Routes of Exposure	Potential Receptors	Pathway Complete?
Surface Soil	Dermal absorption, ingestion.	Contractors, trespassers.	Yes. Contact is possible.
Subsurface Soil	Dermal absorption, ingestion.	Contractors, trespassers.	No. Any disturbance of subsurface soils associated with gardening/landscaping, maintenance, etc. will be performed in accordance with the Site Management Plan, thus eliminating any potential exposure pathways.*
On-site Soil Vapor/Indoor Air	Inhalation of volatile contaminants from soil that have migrated into structures.	Contractors, trespassers.	No. The results of soil vapor sampling indicate that VOCs are present in the soil vapor beneath both residences at the site, but indoor air sampling results indicate that concentration levels are not expected to have a significant effect on indoor air quality. Additionally, there are no current occupants in the on-site residences.
Off-site Soil Vapor/Indoor Air	Inhalation of volatile contaminants from soil that have migrated into structures.	Residents, contractors, trespassers.	No. Although off-site soil vapor/indoor air sampling was not performed, it is anticipated that soil vapor/indoor air at off-site locations would be affected to an even lesser extent than the on-site locations. In addition, results from off-site soil sampling indicate that contaminants are not migrating off-site.
Outdoor Air	Inhalation of volatile contaminants from soil or fugitive dust.	Residents, contractors, trespassers.	No. Total VOC concentrations in outdoor air samples were consistently less than those in the indoor air samples, and are not expected to have a significant effect on outdoor air quality. Any disturbance of subsurface soils that may expose contaminants to the surrounding atmosphere will be performed in accordance with the Site Management Plan, thus eliminating any potential exposure pathways.*
Groundwater	Dermal absorption, inhalation.	Contractors, trespassers.	No. Exposure to groundwater (i.e., the subsurface) not anticipated under current site conditions. Any disturbance of subsurface soils that may expose groundwater will be performed in accordance with the Site Management Plan, thus eliminating any potential exposure pathways.**
	Ingestion.	Contractors, trespassers.	No. No known potable water use near site.

* A Site Management Plan will be developed to provide specific procedures for controlling and/or eliminating exposure to any potentially contaminated media during any intrusive activities at the site.

TABLE 6-3
POTENTIAL PATHWAYS OF EXPOSURE - FUTURE USE SCENARIO
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Potentially Contaminated Medium	Potential Routes of Exposure	Potential Receptors	Pathway Complete?
Surface Soil	Dermal absorption, ingestion.	Residents, contractors, trespassers.	Yes. Contact is possible.
Subsurface Soil	Dermal absorption, ingestion.	Residents, contractors, trespassers.	No. Any disturbance of subsurface soils associated with gardening/landscaping, maintenance, future site development, etc. will be performed in accordance with the Site Management Plan, thus eliminating any potential exposure pathways.*
On-site Soil Vapor/Indoor Air	Inhalation of volatile contaminants from soil that have migrated into structures.	Residents, contractors, trespassers.	No. The results of soil vapor sampling indicate that VOCs are present in the soil vapor beneath both residences at the site, but indoor air sampling results indicate that concentration levels are not expected to have a significant effect on indoor air quality.
Off-site Soil Vapor/Indoor Air	Inhalation of volatile contaminants from soil that have migrated into structures.	Residents, contractors, trespassers.	No. Although off-site soil vapor/indoor air sampling was not performed, it is anticipated that soil vapor/indoor air at off-site locations would be affected to an even lesser extent than the on-site locations. In addition, results from off-site soil sampling indicate that contaminants are not migrating off-site.
Outdoor Air	Inhalation of volatile contaminants from soil or fugitive dust.	Residents, contractors, trespassers.	No. Total VOC concentrations in outdoor air samples were consistently less than those in the indoor air samples, and are not expected to have a significant effect on outdoor air quality. Any disturbance of subsurface soils that may expose contaminants to the surrounding atmosphere will be performed in accordance with the Site Management Plan, thus eliminating any potential exposure pathways.*
Groundwater	Dermal absorption, inhalation.	Residents, contractors, trespassers.	No. Any disturbance of subsurface soils that may expose groundwater will be performed in accordance with the Site Management Plan, thus eliminating any potential exposure pathways.**
	Ingestion.	Residents, contractors, trespassers.	No. No known potable water use near site.

* A Site Management Plan will be developed to provide specific procedures for controlling and/or eliminating exposure to any potentially contaminated media during any intrusive activities at the site.

TABLE 6-4
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
TOXICITY VALUES: CARCINOGENIC EFFECTS

Compound	USEPA Weight-of-Evidence Classification	Slope Factor (mg/kg-day)^-1		Basis for Carcinogenicity Classification
		Inhalation	Oral	
Naphthalene	C (1)	NV (1)	NV (1)	Inadequate data of carcinogenicity in humans exposed to naphthalene via the oral and inhalation routes, and the limited evidence of carcinogenicity in animals via the inhalation route
Benzo(a)anthracene	B2 (1)	NV (1)	NV (1)	No human data from animal bioassays. B(a)A produced tumors in mice exposed by gavage, i.p., subcutaneous, or intramuscular injection & topical application. B(a)A produced mutations in bacteria and mammalian cells, & transformed mammalian cells . .
Benzo(a)pyrene	B2 (1)	NV (1)	7.3 (1)	Human data specifically linking BAP to a carcinogenic effect are lacking. There are, however, multiple animal studies in many species demonstrating BAP to be carcinogenic following administration by numerous routes. BAP has produced positive . . .
Benzo(b)fluoranthene	B2 (1)	NV (1)	NV (1)	No human and sufficient data from aniaml bioassays. B(b)F produced tumors in mice after lung implantation, i.p. or subcutaneous injection and skin painting.
Benzo(k)fluoranthene	B2 (1)	NV (1)	NV (1)	No human data & sufficient data from animal bioassays. B(k)F produced tumors after lung implantation in mice and when administered with a promoting agent in skin-painting studies. Equivocal results have been found in a lung adenoma assay in mice .
Chrysene	B2 (1)	NV (1)	NV (1)	No human data and sufficient data from animal bioassays. Produced carcinomas and malignant lymphoma in mice after intraperitoneal injection and skin carcinomas in mice following dermal exposure. Produced chromosomal abnormalities in hamster . . . .
Dibenzo(a,h)anthracene	B2 (1)	NV (1)	NV (1)	No human data & sufficient data from animal bioassays. Produced carcinomas in mice following oral or dermal exposure & injection site tumors in several species folowing subcutaneous or intramuscular administration. Has induced DNA damage . . .
Indeno(1,2,3-cd)pyrene	B2 (1)	NV (1)	NV (1)	No human data and sufficient data from animal bioassays. Produced tumors in mice following lung implants, subcutaneous injection and dermal exposure. Tested positive in bacterial gene mutation assays.
Arsenic	A (1)	15.05 (1)	1.5 (1)	Based on sufficient evidence from human data. An increased lung cancer mortality was observed in multiple human populations exposed primarily through inhalation. Also, increased mortality from multiple internal organ cancers (liver, kidney, ...

Source List:
1 SmartTOX Database
2 Based on estimated order of potency with respect to Benzo(a)pyrene presented in USEPA.
3 Chronic RFD is used for subchronic RFD when no subchronic value is available.

NV - No Value Available

USEPA Weight-of-Evidence Classification
A - Human Carcinogen
B1 or B2 - Probable Human Carcinogen
C - Possible Human Carcinogen

TABLE 6-4
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
TOXICITY VALUES: CARCINOGENIC EFFECTS

Compound	USEPA Weight-of-Evidence Classification	Slope Factor (mg/kg-day)^-1		Basis for Carcinogenicity Classification
		Inhalation	Oral	
Lead	B2 (1)	NV (1)	NV (1)	Sufficient animal evidence. Ten rat bioassays and one mouse assay have shown statistically significant increases i renal tumors with dietary and subcutaneous exposure to several soluble lead salts. Animal assays provide reproducible results in .

Source List:
1 SmartTOX Database
2 Based on estimated order of potency with respect to Benzo(a)pyrene presented in USEPA.
3 Chronic RFD is used for subchronic RFD when no subchronic value is available.

NV - No Value Available

USEPA Weight-of-Evidence Classification
A - Human Carcinogen
B1 or B2 - Probable Human Carcinogen
C - Possible Human Carcinogen

TABLE 6-5
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
TOXICITY VALUES: POTENTIAL NONCARCINOGENIC EFFECTS

Compound	Reference Dose (mg/kg-day)				Critical Effects			
	Inhalation		Oral		Inhalation		Oral	
	Chronic	Subchronic	Chronic	Subchronic	Chronic	Subchronic	Chronic	Subchronic
Ethylbenzene	0.286 (1)	NV (1)	0.1 (1)	NV (1)	Developmental toxicity	—	Liver and kidney toxicity	—
Naphthalene	8.57E-04 (1)	NV (1)	0.02 (1)	NV (1)	Nasal effects: hyperplasia and metaplasia in respiratory and olfactory epithelium, respectively	—	Decreased mean terminal body weight in males	—
Xylene (total)	0.029 (1)	NV (1)	0.2 (1)	NV (1)	Impaired motor coordination (decreased rotarod performance).	—	Decreased body weight, increased mortality.	—
Acenaphthene	NV (1)	NV (1)	0.06 (1)	0.6 (1)	—	—	Hepatotoxicity	Liver - Hepatotoxicity
Acenaphthylene	NV (1)	NV (1)	NV (1)	NV (1)	—	—	—	—
Anthracene	NV (1)	NV (1)	0.3 (1)	3.0 (1)	—	—	No observed effects	None observed
Benzo(a)anthracene	NV (1)	NV (1)	NV (1)	NV (1)	—	—	—	—
Benzo(a)pyrene	NV (1)	NV (1)	NV (1)	NV (1)	—	—	—	—
Benzo(b)fluoranthene	NV (1)	NV (1)	NV (1)	NV (1)	—	—	—	—
Benzo(g,h,i)perylene	NV (1)	NV (1)	NV (1)	NV (1)	—	—	—	—
Benzo(k)fluoranthene	NV (1)	NV (1)	NV (1)	NV (1)	—	—	—	—

Source List:

1 SmartTOX Database
2 Based on estimated order of potency with respect to Benzo(a)pyrene presented in USEPA.
3 Chronic RFD is used for subchronic RFD when no subchronic value is available.

NV - No Values Available
NOEL - No Observed Effects Level

TABLE 6-5
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
TOXICITY VALUES: POTENTIAL NONCARCINOGENIC EFFECTS

Compound	Reference Dose (mg/kg-day)				Critical Effects			
	Inhalation		Oral		Inhalation		Oral	
	Chronic	Subchronic	Chronic	Subchronic	Chronic	Subchronic	Chronic	Subchronic
Chrysene	NV (1)	NV (1)	NV (1)	NV (1)	—	—	—	—
Dibenzo(a,h)anthracene	NV (1)	NV (1)	NV (1)	NV (1)	—	—	—	—
Dibenzofuran	NV (1)	NV (1)	NV (1)	NV (1)	—	—	—	—
Fluoranthene	NV (1)	NV (1)	0.04 (1)	0.4 (1)	—	—	Nephropathy, increased liver weights, hematological alterations, and clinical effects	Kidney - Nephropathy; Liver - Weight change; Blood - Hematological changes
Fluorene	NV (1)	NV (1)	0.04 (1)	0.4 (1)	—	—	Decreased RBC, packed cell volume and hemoglobin	Erythrocytes - Decreased counts
Indeno(1,2,3-cd)pyrene	NV (1)	NV (1)	NV (1)	NV (1)	—	—	—	—
Phenanthrene	NV (1)	NV (1)	NV (1)	NV (1)	—	—	—	—
Pyrene	NV (1)	NV (1)	0.03 (1)	0.3 (1)	—	—	Kidney effects (renal tubular pathology, decreased kidney weights)	Kidney - Effects
Arsenic	NV (1)	NV (1)	3.00E-04 (1)	3.00E-04 (1)	—	—	Hyperpigmentation, keratosisi and possible vascular complications.	Skin - Keratosis; Skin - Hyperpigmen
Sodium	NV (1)	NV (1)	NV (1)	NV (1)	—	—	—	—
Barium	1.43E-04 (1)	0.001 (1)	0.07 (1)	0.07 (1)	Fetus - Fetotoxicity	Fetus - Fetotoxicity	None. RfD is based on NOAEL.	Cardiovascular system - Increased blood pressure

Source List:

1 SmartTOX Database
2 Based on estimated order of potency with respect to Benzo(a)pyrene presented in USEPA.
3 Chronic RFD is used for subchronic RFD when no subchronic value is available.

NV - No Values Available
NOEL - No Observed Effects Level

TABLE 6-5
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
TOXICITY VALUES: POTENTIAL NONCARCINOGENIC EFFECTS

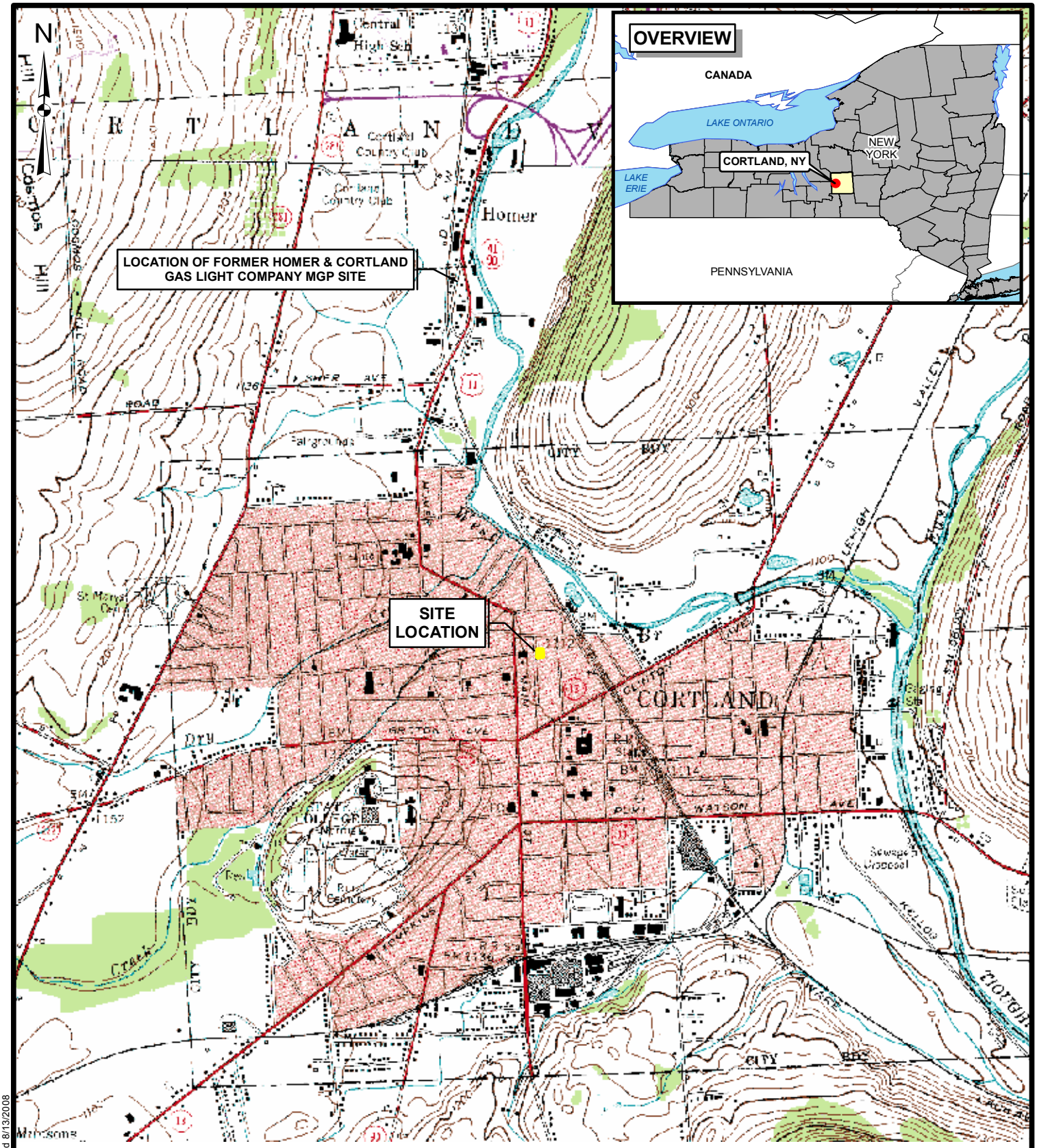
Compound	Reference Dose (mg/kg-day)				Critical Effects			
	Inhalation		Oral		Inhalation		Oral	
	Chronic	Subchronic	Chronic	Subchronic	Chronic	Subchronic	Chronic	Subchronic
Chromium	NV (1)	NV (1)	1.5 (1)	1.0 (1)	—	—	No effects observed	NOEL
Iron	NV (1)	NV (1)	NV (1)	NV (1)	—	—	—	—
Mercury	8.57E-05 (1)	8.57E-05 (1)	NV (1)	NV (1)	Hand tremor; increases in memory disturbances; slight subjective and objective evidence of autonomic dysfunction	Nervous system - Neurotoxicity	—	—
Cadmium					—	—	—	—
Lead	NV (1)	NV (1)	NV (1)	NV (1)	—	—	—	—

Source List:

1 SmartTOX Database
2 Based on estimated order of potency with respect to Benzo(a)pyrene presented in USEPA.
3 Chronic RFD is used for subchronic RFD when no subchronic value is available.

NV - No Values Available
NOEL - No Observed Effects Level

FIGURES



SOURCE: USGS 7.5 Minute Quadrangles - Cortland, NY - 1955 and Homer, NY - 1988.

2,000 0 2,000
Feet

URS

NYSEG - CORTLAND
SITE LOCATION MAP

FIGURE 1-1

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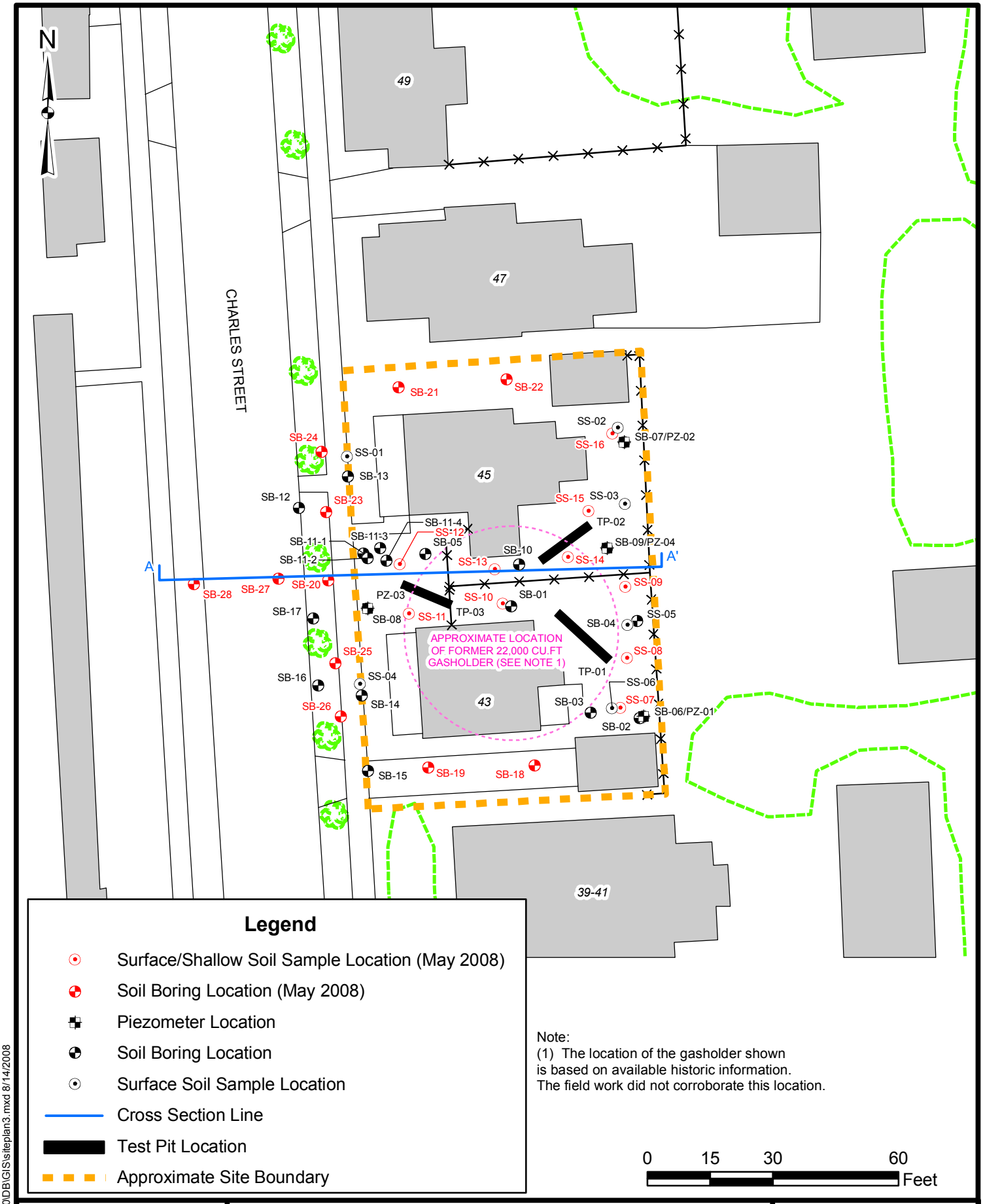

Legend

- Surface/Shallow Soil Sample Location (May 2008)
- Soil Boring Location (May 2008)
- Piezometer Location
- Soil Boring Location
- Surface Soil Sample Location
- Cross Section Line
- Test Pit Location
- Approximate Site Boundary

Note:
(1) The location of the gasholder shown is based on available historic information. The field work did not corroborate this location.

0 15 30 60 Feet

URS

NYSEG - CORTLAND
SITE PLAN

FIGURE 1-2

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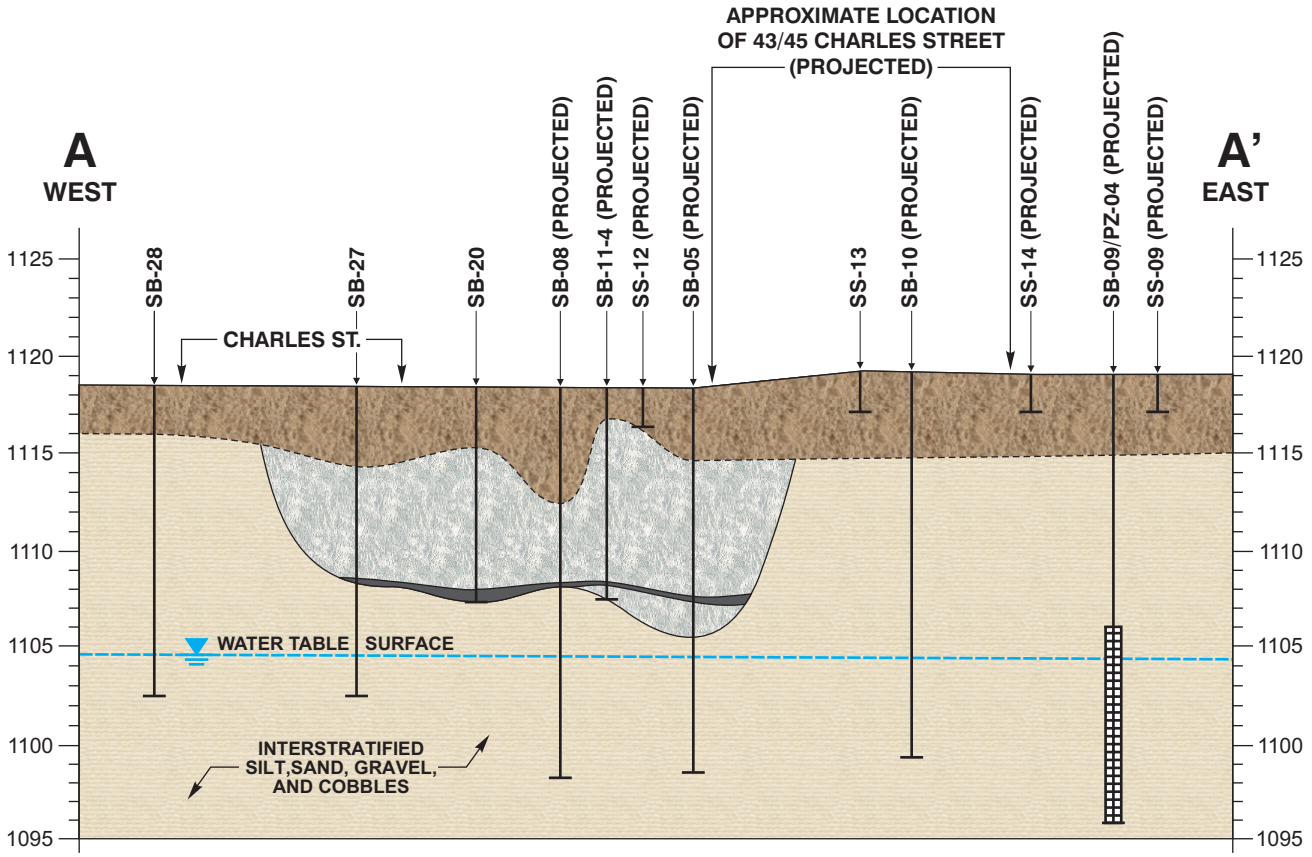


Very darkly stained Ash and Silt with mild to moderate odor typically associated with MGP sites.

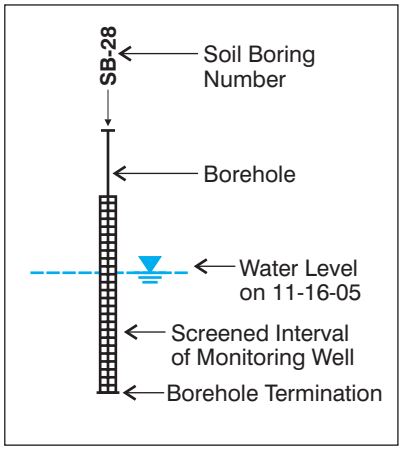
Reworked Silt, Sand, Gravel, and Cobbles with minor amounts of urban fill material

Fill (Ash and Cinders)

Interstratified Silt, Sand, Gravel, and Cobbles

NOTES:
1. Location of the section is shown on Figure 1-2.
2. Water table surface based on November 16, 2005 elevation contours shown in Figure 3-2.
3. Trace coal fragments were observed from 12-16 feet at location SB-09/PZ-04 indicating reworked native materials may be present to that depth.

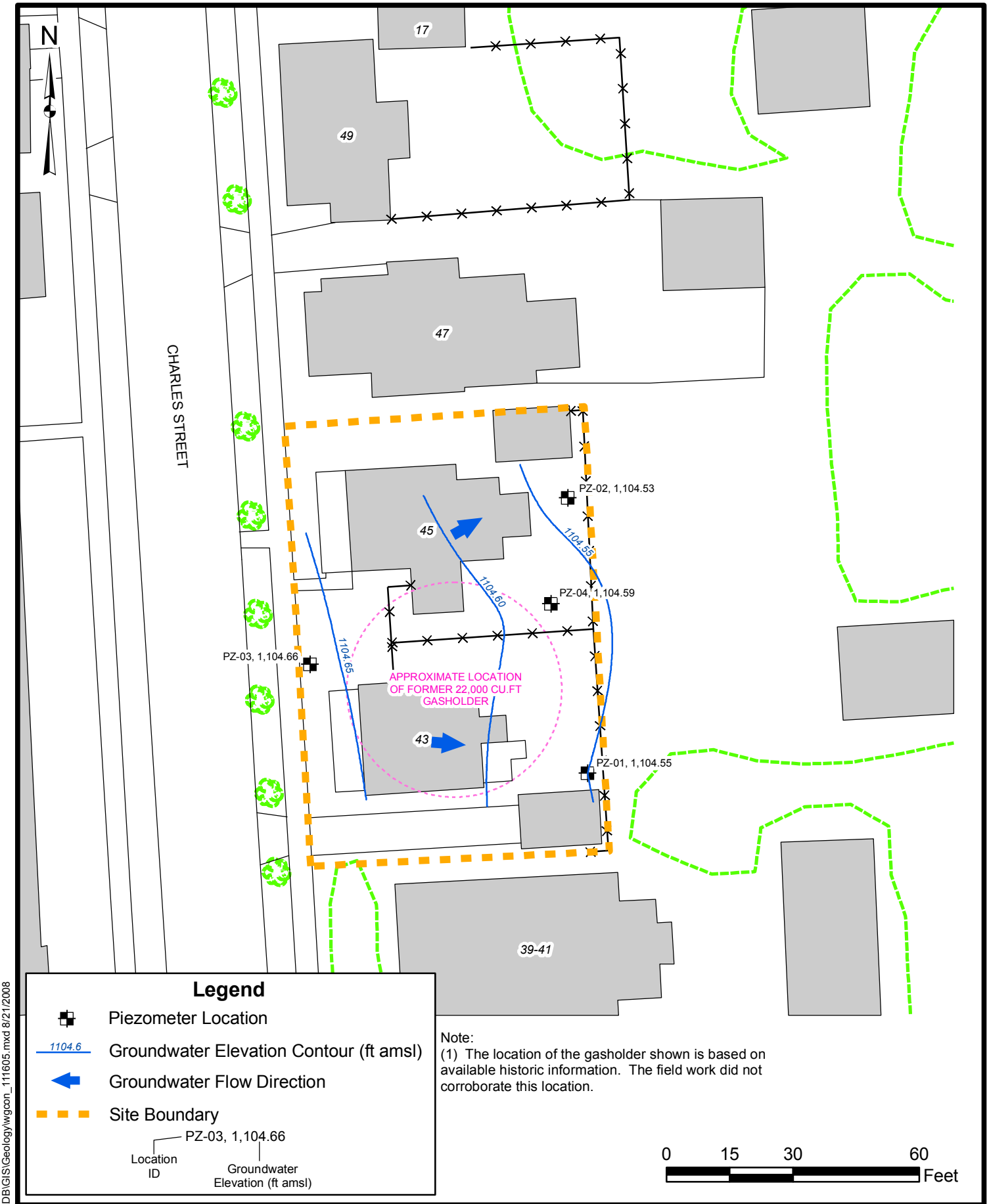
Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 10'



URS

NYSEG-CORTLAND CROSS SECTION A-A'

FIGURE 3-1



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URS

NYSEG - CORTLAND
GROUNDWATER ELEVATION CONTOUR MAP
(NOVEMBER 16, 2005)

FIGURE 3-2

N

TP-03 (2.5'-2.5')	CR	11/05
VOCs:		
Total VOCs	--	ND
Total BTEX	--	ND
SVOCs:		
Total SVOCs	--	18260
Total PAHs	--	17898
Benzo(a)anthracene	1000	1800
Benzo(a)pyrene	1000	1500
Benzo(b)fluoranthene	1000	1800
Chrysene	1000	1600
Indeno(1,2,3-cd)pyrene	500	800

TP-03 (5.5'-5.5')	CR	11/05
VOCs:		
Total VOCs	--	6
Total BTEX	--	6
SVOCs:		
Total SVOCs	--	47630
Total PAHs	--	46380
Benzo(a)anthracene	1000	3900
Benzo(a)pyrene	1000	3700
Benzo(b)fluoranthene	1000	4400
Benzo(k)fluoranthene	1000	1600
Chrysene	1000	3800
Dibenzo(a,h)anthracene	330	620
Indeno(1,2,3-cd)pyrene	500	2200

TP-03 (10.5'-10.5')	CR	11/05
VOCs:		
Total BTEX	--	ND
Total VOCs	--	ND
SVOCs:		
Total SVOCs	--	157000
Total PAHs	--	150900
Benzo(a)anthracene	1000	12000
Benzo(a)pyrene	1000	8900
Benzo(b)fluoranthene	1000	10000
Benzo(k)fluoranthene	1000	3600
Chrysene	1000	10000
Dibenzo(a,h)anthracene	330	1300
Indeno(1,2,3-cd)pyrene	500	4500
Metals:		
Lead	400	598

TP-02 (2.5'-2.5')	CR	11/05
VOCs:		
Total BTEX	--	ND
Total VOCs	--	ND
SVOCs:		
Total PAHs	--	48340
Total SVOCs	--	48560
Benzo(a)anthracene	1000	5500
Benzo(a)pyrene	1000	4800
Benzo(b)fluoranthene	1000	6000
Benzo(k)fluoranthene	1000	1800
Chrysene	1000	5200
Dibenzo(a,h)anthracene	330	900
Indeno(1,2,3-cd)pyrene	500	2500

TP-02 (5.5'-5.5')	CR	11/05
VOCs:		
Total VOCs	--	2
Total BTEX	--	2
SVOCs:		
Total SVOCs	--	1349
Total PAHs	--	1349

TP-02 (7'-7')	CR	11/05
VOCs:		
Total VOCs	--	3
Total BTEX	--	3
SVOCs:		
Total SVOCs	--	1416
Total PAHs	--	1416

TP-01 (2.5'-2.5')	CR	11/05
VOCs:		
Total VOCs	--	ND
Total BTEX	--	ND
SVOCs:		
Total SVOCs	--	20241
Total PAHs	--	20040
Benzo(a)anthracene	1000	2000
Benzo(a)pyrene	1000	1900
Benzo(b)fluoranthene	1000	2400
Chrysene	1000	1800
Dibenzo(a,h)anthracene	330	350
Indeno(1,2,3-cd)pyrene	500	1100

TP-01 (5'-5')	CR	11/05
VOCs:		
Total VOCs	--	4
Total BTEX	--	4
SVOCs:		
Total SVOCs	--	19183
Total PAHs	--	19141
Benzo(a)anthracene	1000	2200
Benzo(a)pyrene	1000	1700
Benzo(b)fluoranthene	1000	2200
Chrysene	1000	1900
Indeno(1,2,3-cd)pyrene	500	1000

TP-01 (7.5'-7.5')	CR	11/05
VOCs:		
Total BTEX	--	5
Total VOCs	--	5
SVOCs:		
Total PAHs	--	848
Total SVOCs	--	848

CHARLES STREET

45

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39-41

APPROXIMATE LOCATION OF FORMER 22,000 CU.FT GASHOLDER

Legend

- Test Pit Location
- Site Boundary

SB-08 (10' - 12')
Benzo(a)anthracene, 230,000

Location ID — Depth Interval — Compound Exceeding Criteria — Concentration

Notes:
(1) The location of the gasholder shown is based on available historic information. The field work did not corroborate this location.
(2) Metals are reported in MG/KG. All other compounds are reported in UG/KG.
(3) CR - Criteria (6 NYCRR Subpart 375.6, Residential)
(4) ND - Not Detected

0 10 20 40 Feet

NYSEG - CORTLAND
TEST PIT ANALYTICAL RESULTS

URS

FIGURE 4-1

N:\11174305.00000\DB\GIS\Chemistry\Redo_375res\testpit_results.mxd 10/23/2008 B. Farster

N

SB-11-1 (9'-11')	CR	11/05
VOCs:		
Total VOCs	--	238
Total BTEX	--	114
SVOCs:		
Total PAHs	--	512400
Total SVOCs	--	564000
Benzo(a)anthracene	1000	35000
Benzo(a)pyrene	1000	22000
Benzo(b)fluoranthene	1000	28000
Benzo(k)fluoranthene	1000	8800
Chrysene	1000	31000
Dibenzo(a,h)anthracene	330	2500
Dibenzofuran	14000	18000
Indeno(1,2,3-cd)pyrene	500	7900
Phenanthrene	100000	110000

SB-11-1 (6'-8')	CR	11/05
VOCs:		
Total VOCs	--	ND
Total BTEX	--	ND
SVOCs:		
Total SVOCs	--	2175
Total PAHs	--	2102
Metals:		
Lead	400	2110

SB-24 (3'-6')	CR	5/08
VOCs:		
Total BTEX	--	ND
Total VOCs	--	ND
SVOCs:		
Total SVOCs	--	1603
Total PAHs	--	1603
Dibenzo(a,h)anthracene	330	920

SB-13 (10'-12')	CR	4/06
VOCs:		
Total BTEX	--	ND
Total VOCs	--	ND
SVOCs:		
Total PAHs	--	323
Total SVOCs	--	421

SB-13 (14'-15.7')	CR	4/06
VOCs:		
Total BTEX	--	7
Total VOCs	--	7
SVOCs:		
Total SVOCs	--	270
Total PAHs	--	190

SB-22 (8'-11')	CR	5/08
VOCs:		
Total BTEX	--	ND
Total VOCs	--	ND
SVOCs:		
Total PAHs	--	ND
Total SVOCs	--	ND

SB-22 (13'-15')	CR	5/08
VOCs:		
Total BTEX	--	ND
Total VOCs	--	ND
SVOCs:		
Total PAHs	--	ND
Total SVOCs	--	ND

SB-17 (9'-11')	CR	4/06
VOCs:		
Total VOCs	--	66
Total BTEX	--	66
SVOCs:		
Total SVOCs	--	4260
Total PAHs	--	3460

SB-17 (12'-14')	CR	4/06
VOCs:		
Total BTEX	--	11
Total VOCs	--	11
SVOCs:		
Total PAHs	--	16230
Total SVOCs	--	17250
Benzo(b)fluoranthene	1000	1100
Benzo(k)fluoranthene	1000	1200

SB-23 (3'-6')	CR	5/08
VOCs:		
Total VOCs	--	ND
Total BTEX	--	ND
SVOCs:		
Total PAHs	--	4654
Total SVOCs	--	4654
Dibenzo(a,h)anthracene	330	950

SB-12 (10'-12')	CR	4/06
VOCs:		
Total VOCs	--	ND
Total BTEX	--	ND
SVOCs:		
Total PAHs	--	7687
Total SVOCs	--	7764
Indeno(1,2,3-cd)pyrene	500	740

SB-12 (14'-15')	CR	4/06
VOCs:		
Total BTEX	--	7
Total VOCs	--	7
SVOCs:		
Total SVOCs	--	148
Total PAHs	--	126

SB-21 (6'-8')	CR	5/08
VOCs:		
Total VOCs	--	ND
Total BTEX	--	ND
SVOCs:		
Total SVOCs	--	ND
Total PAHs	--	ND

SB-21 (13'-15')	CR	5/08
VOCs:		
Total BTEX	--	ND
Total VOCs	--	ND
SVOCs:		
Total SVOCs	--	ND
Total PAHs	--	ND

SB-27 (9'-10')	CR	5/08
SVOCs:		
Total PAHs	--	7347000
Total SVOCs	--	7707000
Acenaphthene	100000	230000
Acenaphthylene	100000	130000
Anthracene	100000	620000
Benzo(a)anthracene	1000	670000
Benzo(a)pyrene	1000	400000
Benzo(b)fluoranthene	1000	480000
Benzo(g,h,i)perylene	100000	130000
Benzo(k)fluoranthene	1000	190000
Chrysene	1000	460000
Dibenzo(a,h)anthracene	330	57000
Dibenzofuran	14000	200000
Fluoranthene	100000	1500000
Fluorene	100000	370000
Indeno(1,2,3-cd)pyrene	500	150000
Phenanthrene	100000	1000000
Pyrene	100000	960000
Metals:		
Barium	350	404
Cadmium	2.5	4.2
Lead	400	3320

SB-27 (12'-14')	CR	5/08
VOCs:		
Total VOCs	--	ND
Total BTEX	--	ND
SVOCs:		
Total PAHs	--	12727
Total SVOCs	--	13100
Benzo(a)anthracene	1000	1300

SB-07 (15'-16')	CR	11/05
VOCs:		
Total VOCs	--	ND
Total BTEX	--	ND
SVOCs:		
Total PAHs	--	431
Total SVOCs	--	431

SB-07 (22'-24')	CR	11/05
VOCs:		
Total VOCs	--	ND
Total BTEX	--	ND
SVOCs:		
Total PAHs	--	70
Total SVOCs	--	70

SB-05 (11'-12')	CR	11/05
VOCs:		
Total BTEX	--	92
Total VOCs	--	143
Anthracene	100000	110000
Benzo(a)anthracene	1000	3100
Benzo(a)pyrene	1000	2500
Benzo(b)fluoranthene	1000	130000
Benzo(k)fluoranthene	1000	55000
Chrysene	1000	150000
Dibenzo(a,h)anthracene	330	22000
Fluoranthene	100000	520000
Indeno(1,2,3-cd)pyrene	500	67000
Naphthalene	100000	160000
Pyrene	100000	420000
SVOCs:		
Total PAHs	--	2854000
Total SVOCs	--	3068600
Dibenzofuran	14000	74000
Phenanthrene	100000	680000

SB-05 (15'-16')	CR	11/05
VOCs:		
Total BTEX	--	ND
Total VOCs	--	ND
SVOCs:		
Total SVOCs	--	54680
Total PAHs	--	51670
Benzo(a)anthracene	1000	3100
Benzo(a)pyrene	1000	2500
Benzo(b)fluoranthene	1000	4100
Benzo(k)fluoranthene	1000	4300
Chrysene	1000	3000
Dibenzo(a,h)anthracene	330	440
Indeno(1,2,3-cd)pyrene	500	1400

SB-09 (14'-16')	CR	11/05
VOCs:		
Total BTEX	--	ND
Total VOCs	--	ND
SVOCs:		
Total PAHs	--	ND
Total SVOCs	--	ND

SB-09 (18'-20')	CR	11/05
VOCs:		
Total BTEX	--	ND
Total VOCs	--	ND
SVOCs:		
Total PAHs	--	ND
Total SVOCs	--	ND

SB-10 (14'-16')	CR	11/05
VOCs:		
Total VOCs	--	ND
Total BTEX	--	ND
SVOCs:		
Total SVOCs	--	ND
Total PAHs	--	ND

SB-10 (18'-20')	CR	11/05
VOCs:		
Total VOCs	--	ND
Total BTEX	--	ND
SVOCs:		
Total PAHs	--	ND
Total SVOCs	--	ND
Metals:		
Arsenic	16	25

SB-28 (8'-10')	CR	5/08
VOCs:		
Total VOCs	--	ND
Total BTEX	--	ND
SVOCs:		
Total PAHs	--	ND
Total SVOCs	--	ND

SB-28 (12'-14')	CR	5/08
VOCs:		
Total BTEX	--	ND
Total VOCs	--	ND
SVOCs:		
Total PAHs	--	ND
Total SVOCs	--	ND

SB-20 (10'-11')	CR	5/08
VOCs:		
Total BTEX	--	26
Total VOCs	--	52
SVOCs:		
Total PAHs	--	1431600
Total SVOCs	--	1614540
Benzo(a)anthracene	1000	83000
Benzo(a)pyrene	1000	50000
Benzo(b)fluoranthene	1000	59000
Benzo(k)fluoranthene	1000	22000
Chrysene	1000	74000
Dibenzo(a,h)anthracene	330	8600
Dibenzofuran	14000	62000
Fluoranthene	100000	240000
Indeno(1,2,3-cd)pyrene	500	19000
Phenanthrene	100000	370000
Pyrene	100000	160000
Metals:		
Arsenic	16	17.2
Chromium	36	77

SB-08 (10'-12')	CR	11/05
VOCs:		
Total BTEX	--	156
Total VOCs	--	204
SVOCs:		
Total PAHs	--	3814000
Total SVOCs	--	3983620
Benzo(a)anthracene	1000	230000
Benzo(a)pyrene	1000	220000
Benzo(b)fluoranthene	1000	240000
Benzo(k)fluoranthene	1000	72000
Chrysene	1000	270000
Dibenzo(a,h)anthracene	330	20000
Dibenzofuran	14000	52000
Fluoranthene	100000	700000
Indeno(1,2,3-cd)pyrene	500	66000
Naphthalene	100000	120000
Phenanthrene	100000	860000
Pyrene	100000	670000
Metals:		
Lead	400	749

SB-08 (18'-20')	CR	11/05
VOCs:		
Total BTEX	--	ND
Total VOCs	--	ND
SVOCs:		
Total PAHs	--	769
Total SVOCs	--	769

SB-16 (10'-12')	CR	4/06
VOCs:		
Total VOCs	--	71
Total BTEX	--	71
SVOCs:		
Total SVOCs	--	308
Total PAHs	--	241

SB-25 (3'-6')	CR	5/08
VOCs:		
Total BTEX	--	ND
Total VOCs	--	ND
SVOCs:		
Total PAHs	--	109070
Total SVOCs	--	109800
Benzo(a)anthracene	1000	12000
Benzo(a)pyrene	1000	9000
Benzo(b)fluoranthene	1000	10000
Benzo(k)fluoranthene	1000	3400
Chrysene	1000	8300
Dibenzo(a,h)anthracene	330	3100
Indeno(1,2,3-cd)pyrene	500	4800

SB-15 (12'-14')	CR	4/06
VOCs:		
Total VOCs	--	3
Total BTEX	--	3
SVOCs:		
Total SVOCs	--	30930
Total PAHs	--	30220
Benzo(a)anthracene	1000	2300
Benzo(a)pyrene	1000	1700
Benzo(b)fluoranthene	1000	2700
Benzo(k)fluoranthene	1000	2800
Chrysene	1000	2200
Indeno(1,2,3-cd)pyrene	500	840

SB-19 (13'-14')	CR	5/08
VOCs:		
Total BTEX	--	ND
Total VOCs	--	ND
SVOCs:		
Total PAHs	--	ND
Total SVOCs	--	ND

SB-19 (14'-15')	CR	5/08
VOCs:		
Total BTEX	--	ND
Total VOCs	--	ND
SVOCs:		
Total SVOCs	--	ND
Total PAHs	--	ND

SB-18 (11'-12')	CR	5/08
VOCs:		
Total VOCs	--	ND
Total BTEX	--	ND
SVOCs:		
Total SVOCs	--	147
Total PAHs	--	147

SB-18 (13'-15')	CR	5/08
VOCs:		
Total VOCs	--	ND
Total BTEX	--	ND
SVOCs:		
Total SVOCs	--	ND
Total PAHs	--	ND

SB-01 (10'-12')	CR	11/05
VOCs:		
Total BTEX	--	ND
Total VOCs	--	ND
SVOCs:		
Total PAHs	--	ND
Total SVOCs	--	ND

SB-04 (12'-13.5')	CR	11/05
VOCs:		
Total VOCs	--	ND
Total BTEX	--	ND
SVOCs:		
Total SVOCs	--	11930
Total PAHs	--	11930
Benzo(a)anthracene	1000	1400
Benzo(a)pyrene	1000	1100
Benzo(b)fluoranthene	1000	1200
Chrysene	1000	1200
Indeno(1,2,3-cd)pyrene	500	590

SB-06 (14'-16')	CR	11/05
VOCs:		
Total VOCs	--	ND
Total BTEX	--	ND
SVOCs:		
Total SVOCs	--	208
Total PAHs	--	208

SB-06 (16'-18')	CR	11/05
VOCs:		
Total VOCs	--	2
Total BTEX	--	ND
SVOCs:		
Total SVOCs	--	ND
Total PAHs	--	ND

SB-03 (15'-17')	CR	11/05
VOCs:		
Total BTEX	--	ND
Total VOCs	--	ND
SVOCs:		
Total PAHs	--	ND
Total SVOCs	--	ND

SB-26 (3'-6')	CR	5/08
VOCs:		
Total BTEX	--	ND
Total VOCs	--	ND
SVOCs:		
Total PAHs	--	2018
Total SVOCs	--	2018
Dibenzo(a,h)anthracene	330	900

SB-14 (11'-12')	CR	4/06
VOCs:		
Total BTEX	--	707000
Total VOCs	--	707000
Ethylbenzene	30000	53000
Xylene (total)	100000	640000
SVOCs:		
Total PAHs	--	439700
Total SVOCs	--	474700
Benzo(a)anthracene	1000	35000
Benzo(a)pyrene	1000	28000
Benzo(b)fluoranthene	1000	31000
Benzo(k)fluoranthene	1000	10000
Chrysene	1000	27000
Dibenzo(a,h)anthracene	330	4900
Dibenzofuran	14000	16000
Indeno(1,2,3-cd)pyrene	500	14000

SB-14 (14'-15')	CR	4/06
VOCs:		
Total BTEX	--	40
Total VOCs	--	40
SVOCs:		
Total PAHs	--	277000
Total SVOCs	--	279380
Benzo(a)anthracene	1000	31000
Benzo(a)pyrene	1000	24000
Benzo(b)fluoranthene	1000	27000
Benzo(k)fluoranthene	1000	10000
Chrysene	1000	22000
Dibenzo(a,h)anthracene	330	4400
Indeno(1,2,3-cd)pyrene	500	12000

CHARLES STREET

APPROXIMATE LOCATION OF FORMER 22,000 CU.FT GAS HOLDER

47 45 43

Legend

- Soil Boring Location
- Total SVOCs Greater than 500,000 UG/KG
- Site Boundary

SB-08 (10' - 12')
Benzo(a)anthracene, 230,000

Location ID; Depth Interval; Compound Exceeding Criteria; Concentration

Notes:
(1) The location of the gasholder shown is based on available historic information. The field work did not corroborate this location.
(2) Metals are reported in MG/KG. All other compounds are reported in UG/KG.
(3) CR - Criteria (6 NYCRR Subpart 375.6, Residential)
(4) ND - Not Detected

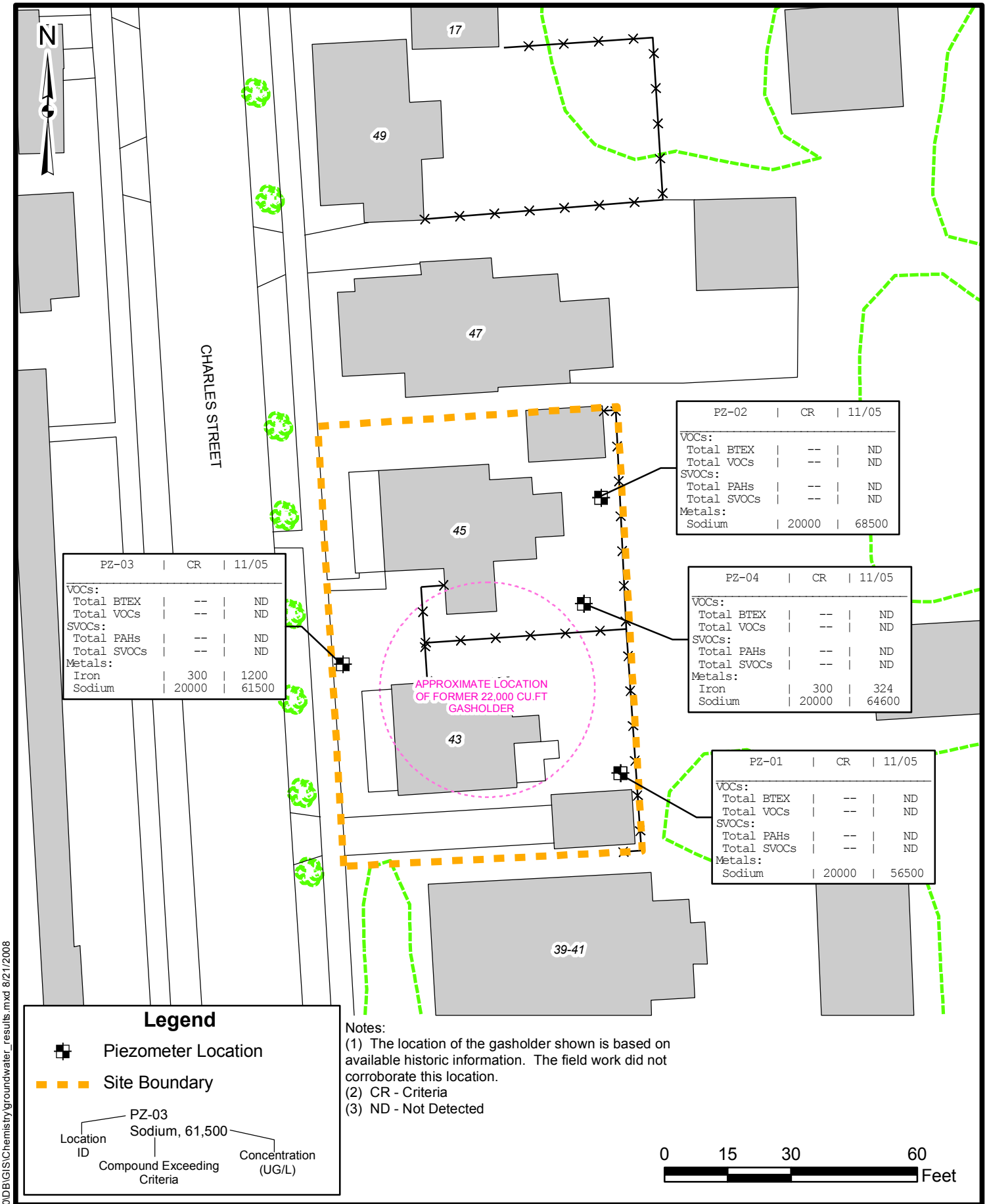
30 0 30 Feet

NYSEG - CORTLAND
SOIL BORING ANALYTICAL RESULTS

URS

FIGURE 4-2

N:\11174305.00000\DB\GIS\Chemistry\Redo_375\es\soil_results_08.mxd 10/23/2008 B. Farster



N:\11174305.00000\DB\GIS\Chemistry\groundwater_results.mxd 8/21/2008

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NYSEG - CORTLAND
GROUNDWATER ANALYTICAL RESULTS
(NOVEMBER 16, 2005)

FIGURE 4-3

N:\11174305.00000\DB\GIS\Chemistry\Redo_375res\sursoil_results2.mxd 10/23/2008 B. Farster

N

SS-16 (0'-0.2')	CR	5/08
SVOCs:		
Total SVOCs	--	212720
Total PAHs	--	208780
Benzo(a)anthracene	1000	19000
Benzo(a)pyrene	1000	13000
Benzo(b)fluoranthene	1000	17000
Benzo(k)fluoranthene	1000	6800
Chrysene	1000	16000
Dibenzo(a,h)anthracene	330	2200
Indeno(1,2,3-cd)pyrene	500	6600

SS-02 (0'-0.2')	CR	4/06
SVOCs:		
Total PAHs	--	53640
Total SVOCs	--	53640
Benzo(a)anthracene	1000	5200
Benzo(a)pyrene	1000	4600
Benzo(b)fluoranthene	1000	6600
Benzo(k)fluoranthene	1000	1500
Chrysene	1000	5200
Dibenzo(a,h)anthracene	330	740
Indeno(1,2,3-cd)pyrene	500	2100

SS-14 (0'-0.2')	CR	5/08
SVOCs:		
Total PAHs	--	18010
Total SVOCs	--	18120
Benzo(a)anthracene	1000	2000
Benzo(a)pyrene	1000	1600
Benzo(b)fluoranthene	1000	1900
Chrysene	1000	1800
Indeno(1,2,3-cd)pyrene	500	940

SS-13 (0'-0.2')	CR	5/08
SVOCs:		
Total SVOCs	--	2900
Total PAHs	--	2900

SS-15 (0'-0.2')	CR	5/08
SVOCs:		
Total PAHs	--	28400
Total SVOCs	--	28580
Benzo(a)anthracene	1000	3000
Benzo(a)pyrene	1000	2600
Benzo(b)fluoranthene	1000	3000
Benzo(k)fluoranthene	1000	1300
Chrysene	1000	2800
Dibenzo(a,h)anthracene	330	510
Indeno(1,2,3-cd)pyrene	500	1400

SS-01 (0'-0.2')	CR	4/06
SVOCs:		
Total SVOCs	--	83600
Total PAHs	--	83600
Benzo(a)anthracene	1000	7400
Benzo(a)pyrene	1000	6600
Benzo(b)fluoranthene	1000	8800
Benzo(k)fluoranthene	1000	2300
Chrysene	1000	7300
Dibenzo(a,h)anthracene	330	1200
Indeno(1,2,3-cd)pyrene	500	3700

SS-03 (0'-0.2')	CR	4/06
SVOCs:		
Total PAHs	--	16280
Total SVOCs	--	16280
Benzo(a)anthracene	1000	1900
Benzo(a)pyrene	1000	1800
Benzo(b)fluoranthene	1000	2100
Chrysene	1000	1800
Indeno(1,2,3-cd)pyrene	500	780

SS-09 (0'-0.2')	CR	5/08
SVOCs:		
Total PAHs	--	2553
Total SVOCs	--	2584

SS-12 (0'-0.2')	CR	5/08
SVOCs:		
Total SVOCs	--	2020
Total PAHs	--	2020

SS-05 (0'-0.2')	CR	4/06
SVOCs:		
Total PAHs	--	3200
Total SVOCs	--	3200

SS-11 (0'-0.2')	CR	5/08
SVOCs:		
Total SVOCs	--	8550
Total PAHs	--	8550
Metals:		
Lead	400	483

SS-08 (0'-0.2')	CR	5/08
SVOCs:		
Total PAHs	--	1451
Total SVOCs	--	1466

SS-10 (0'-0.2')	CR	5/08
SVOCs:		
Total PAHs	--	8870
Total SVOCs	--	8924

SS-07 (0'-0.2')	CR	5/08
SVOCs:		
Total PAHs	--	28350
Total SVOCs	--	29400
Benzo(a)anthracene	1000	2000
Benzo(a)pyrene	1000	1400
Benzo(b)fluoranthene	1000	2100
Chrysene	1000	2000
Indeno(1,2,3-cd)pyrene	500	940

SS-04 (0'-0.2')	CR	4/06
SVOCs:		
Total SVOCs	--	41420
Total PAHs	--	41420
Benzo(a)anthracene	1000	3600
Benzo(a)pyrene	1000	3200
Benzo(b)fluoranthene	1000	4000
Benzo(k)fluoranthene	1000	1600
Chrysene	1000	3600
Dibenzo(a,h)anthracene	330	450
Indeno(1,2,3-cd)pyrene	500	1400

SS-06 (0'-0.2')	CR	4/06
SVOCs:		
Total PAHs	--	34690
Total SVOCs	--	34690
Benzo(a)anthracene	1000	3100
Benzo(a)pyrene	1000	2800
Benzo(b)fluoranthene	1000	4000
Benzo(k)fluoranthene	1000	1100
Chrysene	1000	3000
Dibenzo(a,h)anthracene	330	420
Indeno(1,2,3-cd)pyrene	500	1300

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CHARLES S

APPROXIMATE LOCATION OF FORMER 22,000 CU.FT GAS HOLDER

Legend

Surface Soil Sample Location

Site Boundary

Depth Interval

SS-04 (0' - 0.2')
Benzo(a)anthracene, 3600

Location ID

Compound Exceeding Criteria

Concentration (UG/KG)

Notes:
(1) The location of the gasholder shown is based on available historic information. The field work did not corroborate this location.
(2) CR - Criteria (6 NYCRR Subpart 375.6, Residential)
(3) ND - Not Detected

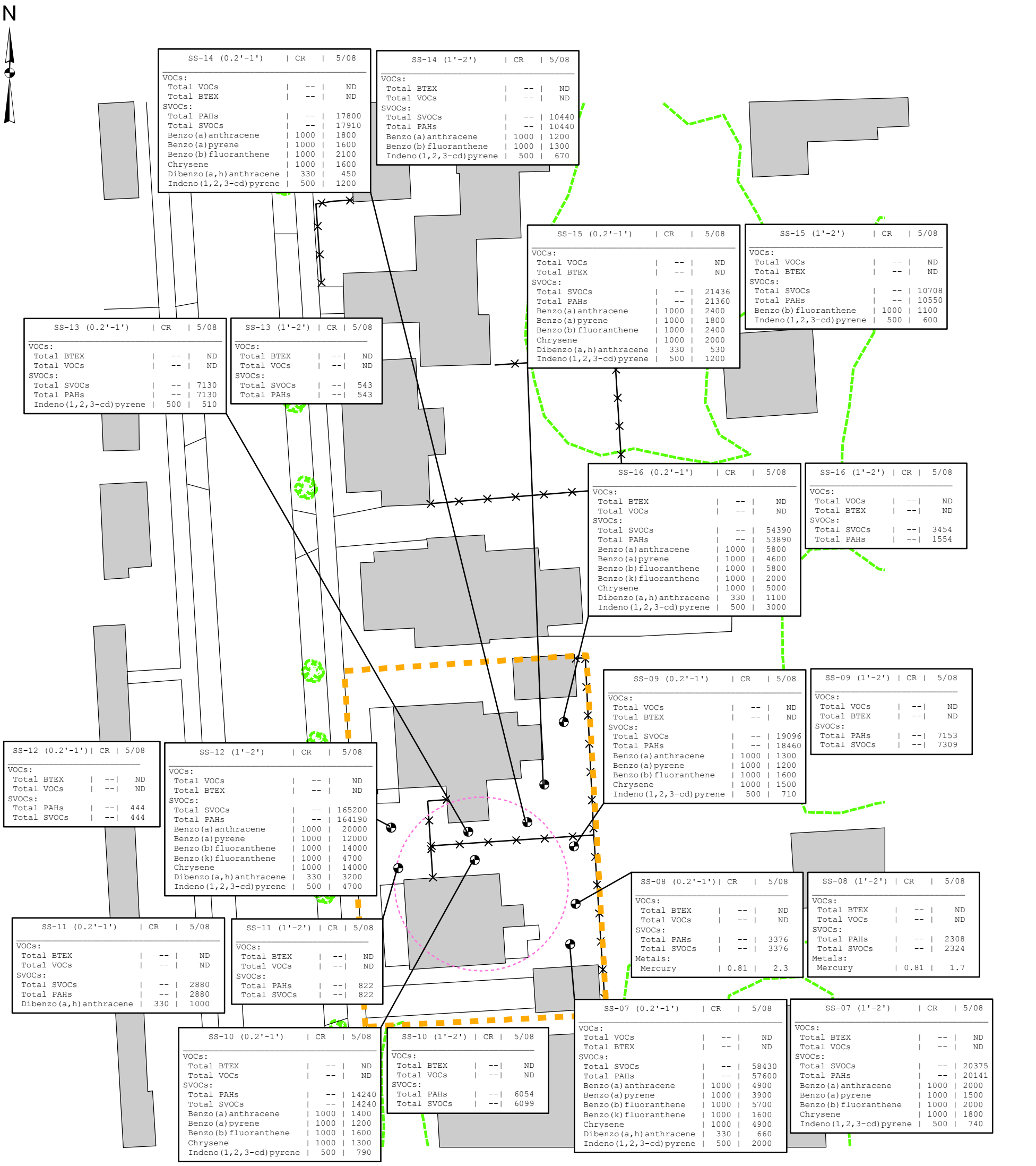
20 0 20 Feet

URS

NYSEG - CORTLAND
SURFACE SOIL ANALYTICAL RESULTS

FIGURE 4-4

N:\11174305.00000\DB\GIS\Chemistry\Redo_375res\sursoil_results3.mxd 10/23/2008 B. Farster



URS

NYSEG - CORTLAND
SHALLOW SOIL ANALYTICAL RESULTS

FIGURE 4-5

APPENDIX A

BORING LOGS

URS Corporation

TEST BORING LOG

BORING NO. : SB-01

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949265.96 **EASTING:** 928981.76

GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: 1119.29

DATE STARTED: 11/10/05

DATE FINISHED: 11/10/05

DRILLER: Mike Saeli

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Brunelle

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	60	D. Brn Brown		Silty organic Topsoil.	OL MH	ND	moist
							Clayey Silt, some fine to coarse gravel and cobbles, trace organics (roots). Trace to some coarse sand (4-8'). Occasional Fine to medium sand zones and cobbles (8-12')			
-5		2	NA	50					ND	very moist
		3	NA	50					ND	
-10										very moist to wet
		4	NA	60	Gray Brown		Silty Fine Sand and Fine to Coarse Gravel (rounded) and cobbles, some clay.	SP	ND	very moist
-15		5	NA	75	Light Brown		Silty Gravel with Medium to Coarse Sand and Cobbles	GM	ND	wet
		6	NA	80			Medium to Coarse Sand and Gravel.	SW	ND	
-20										
-25							End of Boring at 23' due to gravel collapse into borehole.			

COMMENTS: Boring advanced with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Collected Sample SB-01-10-12' for analysis of VOCs, SVOCs, phenols, cyanide, and metals.

No odors, staining or sheens observed. Terminated hole due collapse of materials.

ND = Non-detect above background levels

BORING NO. : SB-01

URS Corporation

TEST BORING LOG

BORING NO. : SB-02

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949239.27 **EASTING:** 929012.44

GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: 1118.59

DATE STARTED: 11/10/05

DATE FINISHED: 11/10/05

DRILLER: Mike Saeli

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Brunelle

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	60	Brown		Silty Organic Topsoil, trace coal fragments.	OL	ND	moist
							Clayey Silt, some fine to coarse gravel and cobble.	MH		
-5		2	NA	50			Silt, trace clay and fine to coarse gravel and cobble.		ND	dry
		3	NA	50			Silt to Clayey Silt, fine to coarse gravel and cobbles, trace organics. 10-11':Silty Fine Sand Zone, no gravel.		ND	
-10		4	NA	17			Significant Fall in from above fills up liner.		ND	
-15							End of boring due to sampler refusal and cave in.			
-20										
-25										

COMMENTS: Boring advanced with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

No samples were collected.

No odors, staining or sheens observed. Terminated hole due collapse of materials.

ND = Non-detect above background levels

BORING NO. : SB-02

URS Corporation

TEST BORING LOG

BORING NO. : SB-03

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949240.51 **EASTING:** 929000.69

GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: 1118.86

DATE STARTED: 11/10/05

DATE FINISHED: 11/10/05

DRILLER: Mike Saeli

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Brunelle

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	75	D. Brn Brown		Silty organic topsoil.	OL MH	ND	moist
							Clayey Silt with fine to coarse gravel and cobbles. Silty Fine Sand zone at 9.0-9.5'.			
-5		2	NA	50					ND	moist to dry
		3	NA	75					ND	
-10		4	NA	75	Gray Brown		Silty Medium Sand, Gravel, and Cobbles.	GM	ND	
-15		5	NA	75			Silty Gravel and Medium to Coarse Sand.		ND	wet
-20							End of Boring at 20' due to hole collapse.			
-25										

COMMENTS: Boring advanced with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Collect Sample SB-03-15-17' for analysis of VOCs, SVOCs, Phenols, Cyanide, and Metals.

End boring at 20' due to hole collapse.

ND = Non-detect above background levels

BORING NO. : SB-03

URS Corporation

TEST BORING LOG

BORING NO. : SB-04

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949262.45 **EASTING:** 929011.79

GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: 1118.76

DATE STARTED: 11/10/05

DATE FINISHED: 11/10/05

DRILLER: Mike Saeli

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Brunelle

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	50	Dark Brown / Brown		Silty organic topsoil.	OL	ND	Moist
							Clayey Silt with fine to coarse gravel and cobbles, some coarse sand.	MH		
-5		2	NA	50			Silty medium to coarse sand and gravel, trace fine sand.	SW-SM	ND	Dry
		3	NA	75	Light Brown				ND	
-10							Silty Fine to Coarse Gravel, some medium to coarse sand.	GM		
		4	NA	70	Gray				ND	
-15							End of boring due to material cave-in.			
-20										
-25										

COMMENTS: Boring advanced with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Collected Sample SB-04-12-13.5' and Field Duplicate (DUP-01) for analysis of VOCs, SVOCs, Phenols, Cyanide, and Metals.

End boring at 13.5' due to hole collapse.

ND = Non-detect above background levels

BORING NO. : SB-04

URS Corporation

TEST BORING LOG

BORING NO. : SB-05

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949278.47 **EASTING:** 928961.18

GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: 1118.57

DATE STARTED: 11/10/05

DATE FINISHED: 11/10/05

DRILLER: Mike Saeli

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Brunelle

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	50	D. Brn Brown		Silty Organic Topsoil Clayey Silt, some fine to coarse gravel	FILL	ND	moist
-5		2	NA	50	Gray		Ash and Gravel, some cobbles, rock and mortar.		ND	dry
		3	NA	75			Ash and Coal fragments, perched wet zone at 9.5-10.0'.		ND	
-10					Green Brown		Clayey Silt and Ash, some fine gravel. Slight possible napthalene odor at 11' associated with a thin band (~1") of dark staining			perched wet zone at 9.5'-10.0', then moist
		4	NA	75	Gray Brown		Ash, Cinder, and Fine Gravel.		ND	
-15							Clayey Silt and Gravel (rounded).	MH		
		5	NA	50			Silty Fine to Coarse Gravel, trace coarse sand.	GM	ND	wet
-20							End of Boring at 20' due to hole collapse.			
-25										

COMMENTS: Boring advanced with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Collected Samples SB-05-11-12' and SB-05-15-16' for analysis of VOCs, SVOCs, Phenols, Cyanide, and Metals.

11-12' Sample was of stained material and material just beneath it. Ended boring at 20' due to hole collapse.

ND = Non-detect above background levels

BORING NO. : SB-05

URS Corporation

TEST BORING LOG

BORING NO. : SB-06

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949239.66 **EASTING:** 929013.36

GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: 1118.56

DATE STARTED: 11/11/05

DATE FINISHED: 11/11/05

DRILLER: Mike Saeli

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Brunelle

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	75	Dark Brown		Organic Silt, some clay.	OL	ND	moist
					Brown		Clayey Silt with gravel and cobbles.	MH		
-5		2	NA	30			Silty Fine to Coarse Sand and Gravel.	SM	ND	dry
		3	NA	75					ND	
-10							Silty Fine Sand.			
							Clayey Silt and Coarse Sand to Coarse Gravel. No odor.	MH		
		4	NA	50	Brown Gray				ND	very moist
-15										wet at 15'
		5	NA	50	Gray Brown		Gravel and Silty Medium to Coarse Sand.	GM	ND	
-20							End of Boring at 20' due to hole collapse.			
-25										

COMMENTS: Boring advanced with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Collected Samples SB-06-14-16' and SB-06-16-18' for analysis of VOCs, SVOCs, Phenols, Cyanide, and Metals.

This boring was next to SB-02, in order to collect samples from this area. PZ-01 was installed in the borehole.

ND = Non-detect above background levels

BORING NO. : SB-06

URS Corporation

TEST BORING LOG

BORING NO. :	**SB-07**
PROJECT/PROJECT LOCATION:	**Former Cortland Gasholder Location**
SHEET:	**1 OF 1**
CLIENT:	**New York State Electric & Gas**
JOB NO. :	11174428.00000
BORING CONTRACTOR:	**Nature's Way EC & C, Inc.**
NORTHING:	949305.17 **EASTING:** 929008.71
GROUNDWATER:	
GROUND ELEVATION:	1119.11
DATE STARTED:	11/11/05
DATE FINISHED:	11/11/05
DRILLER:	Mike Saeli
GEOLOGIST:	R. Murphy
REVIEWED BY:	Tim Brunelle

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	40	D. Brn Brown		Silty Organic Topsoil	OL MH	ND	moist
							Clayey Silt and Fine to Coarse Angular Gravel, with occasional cobbles.			
-5		2	NA	40					ND	
		3	NA	60	Gray Brown				ND	dry with occasional moist zones
-10		4	NA	60					ND	
-15							Silty Fine to Coarse Gravel and Coarse Sand.	GM		wet
		5	NA	60			Silty Medium to Coarse Sand and Gravel. 0.1' thick fine sand layer at 19.0'.		ND	
-20		6	NA	60			Silty Fine to Coarse Gravel (rounded), some coarse sand. Coarsening downward.		ND	
-25							End of Boring at 24'.			

COMMENTS: Boring advanced with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Collected Samples SB-07-15-16' and SB-07-22-24' for analysis of VOCs, SVOCs, Phenols, Cyanide, and Metals.

Also collect Sample SB-07-13-15' for analysis of NOD and TOC. Installed PZ-02 in borehole.

ND = Non-detect above background levels

BORING NO. : SB-07

URS Corporation

TEST BORING LOG

BORING NO. : SB-08

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949265.49 **EASTING:** 928947.38

GROUNDWATER:

DATE	TIME	LEVEL	TYPE

	CAS.	SAMPLER	CORE	TUBE
TYPE		Macrocore		
DIA.		2"		
WT.				
LENGTH		4'		

* POCKET PENETROMETER READING

GROUND ELEVATION: 1118.77

DATE STARTED: 11/14/05

DATE FINISHED: 11/14/05

DRILLER: Eric Laurienzo

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Brunein

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	60	Brown		Clayey Silt with Fine to Coarse Gravel and Cobbles, trace coal fragments.	FILL	ND	dry to moist
-5		2	NA	50	Gray		Ash and Fine Gravel, one piece coarse gravel size, lightweight shiny/ glassy-looking cinder, no odor		ND	
		3	NA	50			Ash		ND	
					Brown		Clayey Silt, Ash, and Fine Gravel.			
-10					Gray Brown		Clayey Silt and Fine to Coarse rounded Gravel, darker stained material with slight musty decay odor from 10-10.2'	MH		
		4	NA	50			Clayey Silt and Fine Rounded Gravel.		ND	very moist
-15							Very Silty Fine to Coarse Gravel (rounded), trace coarse sand.	GM		wet
		5	NA	50			Fine to Coarse Sand and Gravel. One piece of decayed wood, caved in from above.	SW	ND	
-20							End of Boring at 20'.			
-25										

COMMENTS: Boring advanced with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Collected Samples SB-08-10-12' and SB-08-18-20' for analysis of VOCs, SVOCs, Phenols, Cyanide, and Metals.

Installed PZ-03 in borehole. Sample from 10-12' contained slightly stained soils.

ND = Non-detect above background levels

BORING NO. : SB-08

URS Corporation

TEST BORING LOG

BORING NO. : SB-09

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949279.89 **EASTING:** 929004.64

GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: 1119.10

DATE STARTED: 11/14/05

DATE FINISHED: 11/14/05

DRILLER: Eric Laurienzo

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Brunelle

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	30	Dark Brown / Brown		Silty Organic Topsoil Clayey Silt and Fine to Coarse Gravel, trace brick	FILL	ND	moist damp
-5		2	NA	30	Light Brown		Clayey Silt with Fine to Coarse Gravel and Cobbles.		ND	
		3	NA	50			Clayey Silt and Gravel, trace to some coarse sand.		ND	
-10		4	NA	75	Gray Brown		Clayey Silt and Fine to Coarse Gravel, trace coal fragments.		ND	moist to dry
-15		5	NA	50			Silty Coarse Sand to Coarse Gravel.	GM	ND	wet at 16'.
-20							End of Boring at 20'.			
-25										

COMMENTS: Boring advanced with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Collected Samples SB-09-14-16' and SB-09-18-20' for analysis of VOCs, SVOCs, Phenols, Cyanide, and Metals.

Installed PZ-04 in borehole. No odors or staining noted.

ND = Non-detect above background levels

BORING NO. : SB-09

URS Corporation

TEST BORING LOG

BORING NO. : SB-10

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949275.91 **EASTING:** 928983.61

GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: 1119.51

DATE STARTED: 11/14/05

DATE FINISHED: 11/14/05

DRILLER: Eric Laurienzo

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Brunelle

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	50	D. Brn Brown		Silty Organic Topsoil	OL MH	ND	moist
							Clayey Silt, some fine to coarse gravel and cobbles.			
-5		2	NA	25					ND	
		3	NA	50			Clayey Silt, some coarse sand and fine to coarse gravel and cobbles.		ND	very moist to wet at 9', then moist
-10		4	NA	40	Gray Brown		Clayey Silt and Coarse Gravel, some cobbles and medium to coarse sand.		ND	
-15		5	NA	50			Silty Fine to Coarse Gravel and cobbles, some silty medium to coarse sand zones. Iron staining around one piece of gravel; no odor.	GM	ND	wet at 16'.
-20							End of Boring at 20'.			
-25										

COMMENTS: Boring advanced with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Collected Samples SB-10-14-16' and SB-10-18-20' for analysis of VOCs, SVOCs, Phenols, Cyanide, and Metals.

No odors or staining noted.

ND = Non-detect above background levels

BORING NO. : SB-10

URS Corporation

TEST BORING LOG

BORING NO. : SB-11-1 thru 4

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949278.57* **EASTING:** 928946.46*

GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: 1118.74*

DATE STARTED: 11/14/05

DATE FINISHED: 11/14/05

DRILLER: Eric Laurienzo

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Brunelle

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	50	Brown		Organic Clayey Silt and Gravel	FILL	ND	
					Gray Brown		Gray Ash, cinder, and coal, with fine to coarse gravel and ocasional layers of clayey silt, trace glass.			
-5		2	NA	25					ND	
		3	NA	50					ND	
-10							Silt with 0.2' black stained zone with decay odor, underlain by more ash and gravel.			
							End of Boring at 11'. Refusal. Four attempts four refusals at 11'. Four attempts surveyed in as SB-11-1 through SB-11-4. All four borings had similar lithology. Possible mortar in shoe from third refusal.			
-15							* - Survey information shown is for SB-11-1			
-20										
-25										

COMMENTS: Boring advanced with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Collected Samples SB-11-6-8' and SB-11-9-11' for analysis of VOCs, SVOCs, Phenols, Cyanide, and Metals.

Four attempts, four refusals at 11'. Black staining and decay odor in 0.2' zone between 10 and 11'.

ND = Non-detect above background levels

URS Corporation

TEST BORING LOG

BORING NO. : SB-12

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: TREC Environmental Inc.

NORTHING: 949289.48* **EASTING:** 928931.04*

GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: NA

DATE STARTED: 04/26/06

DATE FINISHED: 04/26/06

DRILLER: Jim Agar

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Brunelle

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	50	Dark Brown / Brown		Organic-Rich Silty Topsoil	OL	ND	Moist
							Clayey silt, some fine gravel, organics (roots), trace cobble.	MH		
-5		2	NA	60	Brown to Gray Brown		Clayey silt, some cobbles and coarse gravel. Coarse sand layer 7.8-8.0'.		ND	Damp
		3	NA	75	Gray Brown		Clayey silt with coarse gravel and cobbles, no odor.		ND	
-10		4	NA	90					ND	
-15	⊠ ⊠ ⊠						Silty fine to coarse gravel.	GM		Wet at 15'.
							End of Boring at 16'.			
-20										
-25										

COMMENTS: Boring advanced with a track mounted Geoprobe unit equipped with a macrocore sampler.

Collected Samples SB-12-10-12' (plus DUP-042606) and SB-12-14-15' for analysis of BTEX, PAHs, and total cyanide.

* - Survey information is approximate, boring location was measured offset from building corners.

ND = Non-detect above background levels

BORING NO. : SB-12

URS Corporation

TEST BORING LOG

BORING NO. : SB-13

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: TREC Environmental Inc.

NORTHING: 949296.99* **EASTING:** 928942.67*

GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: NA

DATE STARTED: 04/26/06

DATE FINISHED: 04/26/06

DRILLER: Jim Agar

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Brunelle

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	50	Dark Brown / Brown		Silty organic topsoil. / Clayey Silt, trace gravel.	OL / MH	ND	Moist
-5		2	NA	50	Gray Brown		Silt, some fine to coarse gravel and cobbles, trace clay.		ND	Dry
		3	NA	70					ND	
-10		4	NA	75					ND	
-15					Gray		Silty fine to coarse gravel.	GM		Wet @ 15.5'.
							End of boring 15.7' (Refusal).			
-20										
-25										

COMMENTS: Boring advanced with a track mounted Geoprobe unit equipped with a macrocore sampler.

Collected Samples SB-13-10-12' and SB-13-14-15.7' (plus MS/MSD) for analysis of BTEX, PAHs, and total cyanide.

* - Survey information is approximate, boring location was measured offset from building corners.

ND = Non-detect above background levels

BORING NO. : SB-13

URS Corporation

TEST BORING LOG

BORING NO. : SB-14

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: TREC Environmental Inc.

NORTHING: 949244.64* **EASTING:** 928945.99*

GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: NA

DATE STARTED: 04/26/06

DATE FINISHED: 04/26/06

DRILLER: Jim Agar

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Brunelle

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA		Dark Brown / Brown		Silty organic topsoil. / Clayey silt and coarse gravel.	FILL	ND	Moist
-5		2	NA		Gray		Ash, cinder, coal, and gravel.		ND	Very Moist
		3	NA		Brown		Silt, with gravel and sand, some organics (roots).		ND	Wet at 10'.
-10					Black		Silt, trace fine sand, moderate MGP odor.		17.7	
		4	NA		Brown / Gray		Silty fine to coarse sand and gravel, slight odor. / Silty fine to coarse sand and gravel, no odor. (Coarser, mostly gravel 15.5-16.0')	SM-GM	2.0 / ND	
-15							End of Boring 16'.			
-20										
-25										

COMMENTS: Boring advanced with a track mounted Geoprobe unit equipped with a macrocore sampler.

Collected Samples SB-14-11-12' and SB-14-14-15' for analysis of BTEX, PAHs, and total cyanide.

* - Survey information is approximate, boring location was measured offset from building corners.

ND = Non-detect above background levels

BORING NO. : SB-14

URS Corporation

TEST BORING LOG

BORING NO. : SB-15

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: TREC Environmental Inc.

NORTHING: 949226.66* **EASTING:** 928947.48*

GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: NA

DATE STARTED: 04/26/06

DATE FINISHED: 04/26/06

DRILLER: Jim Agar

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Brunelle

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	60	Brown		Asphalt and Gravel.		ND	Moist
							Clayey Silt, some fine to coarse gravel, trace cobbles.	MH		
-5		2	NA	40	Gray Brown				ND	
		3	NA	50					ND	
-10		4	NA	70			Clayey Silt, some fine to coarse gravel, some cobbles.		ND	
-15							Silty fine to coarse gravel.	GM		Wet at 15'.
							End of boring at 16'.			
-20										
-25										

COMMENTS: Boring advanced with a track mounted Geoprobe unit equipped with a macrocore sampler.

Collected Samples SB-15-12-14' for analysis of BTEX, PAHs, and total cyanide.

* - Survey information is approximate, boring location was measured offset from building corners.

ND = Non-detect above background levels

BORING NO. : SB-15

URS Corporation

TEST BORING LOG

BORING NO. : SB-16

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: TREC Environmental Inc.

NORTHING: 949247.10* **EASTING:** 928935.59*

GROUNDWATER:				CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE	Macrocore		
				DIA.	2"		
				WT.			
				LENGTH	4'		
				* POCKET PENETROMETER READING			

GROUND ELEVATION: NA

DATE STARTED: 04/26/06

DATE FINISHED: 04/26/06

DRILLER: Jim Agar

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Brunelle

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	40	Dark Brown / Brown		Silty organic topsoil. / Clayey silt, some fine to coarse gravel.	FILL	ND	Moist
-5		2	NA	30	Gray		Ash, cinder, coal fragments, glass fragments, trace organics (roots).		ND	
		3	NA	50			Ash, trace gravel, sand, and wood fragments, no odor.		ND	
-10		4	NA	50	D.Gray Brown		Fine to coarse sand, some silt.	SW	ND	
					Gray Brown		Clayey silt and coarse gravel.	MH		
-15					Gray		Silty fine to coarse gravel, no odor.	GM		Wet at 15'.
-20							End of boring at 16'.			
-25										

COMMENTS: Boring advanced with a track mounted Geoprobe unit equipped with a macrocore sampler.

Collected Samples SB-16-10-12' for analysis of BTEX, PAHs, and total cyanide.

* - Survey information is approximate, boring location was measured offset from building corners.

ND = Non-detect above background levels

BORING NO. : SB-16

URS Corporation

TEST BORING LOG

BORING NO. : SB-17

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: TREC Environmental Inc.

NORTHING: 949263.10* **EASTING:** 928934.38*

GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: NA

DATE STARTED: 04/26/06

DATE FINISHED: 04/26/06

DRILLER: Jim Agar

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Brunelle

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	60	Dark Brown / Gray Brown		Silty organic topsoil. / Clayey silt.	FILL	ND	Moist
-5		2	NA	60	Gray		Ash, cinder, gravel, coal fragments, some coarse sand.		ND	
		3	NA	70	Black / Gray		Fine to coarse gravel. / Stained Silt, slight odor. / Ash, some gravel.		ND	
-10		4	NA	50	Gray Brown		Silt and gravel.	GM	ND	Wet 12-12.5' Moist
-15							Silty fine to coarse gravel, no odor.			Wet at 15'.
-20							End of boring 16'.			
-25										

COMMENTS: Boring advanced with a track mounted Geoprobe unit equipped with a macrocore sampler.

Collected Samples SB-17-9-11' and SB-17-12-14' for analysis of BTEX, PAHs, and total cyanide.

* - Survey information is approximate, boring location was measured offset from building corners.

ND = Non-detect above background levels

BORING NO. : SB-17

URS Corporation

TEST BORING LOG

BORING NO. : SB-18

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11175514.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949227.93 **EASTING:** 928987.33

GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: 1119.33

DATE STARTED: 5/5/08

DATE FINISHED: 5/19/08

DRILLER: Steve Gingrich/Eric Laurienzo

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Bruce

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	15	Gray Brown		Asphalt with gravel underlayment.	Asphalt	ND	Dry
							CLAYEY SILT and GRAVEL	GM		
-5		2	NA	10			SILTY fine to coarse SAND and GRAVEL, trace cobble.		ND	
		3	NA	90					ND	
-10		4	NA	80	Gray Brown		SILTY GRAVEL, some medium to coarse sand.		ND	
-15							Fine GRAVEL some medium to coarse sand and coarse gravel, trace silt.	GW		Wet at 15'
-20							End of boring 16'. Three refusals on cobbles/gravel on 5/5/08 at 9.5', 10', and 12', respectively. Returned 5/19/08 with different probe and advanced boring to 16'.			
-25										

COMMENTS: Boring advanced to 12' with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Returned 5/19/08 to advance boring deeper using a pick-up truck mounted Simco Earthprobe 200.

Collected Samples SB-18-11-12' and SB-18-13-15' for analysis of VOCs, SVOCs, and RCRA Metals.

ND = Non-detect above background levels

BORING NO. : SB-18

URS Corporation

TEST BORING LOG

BORING NO. : SB-19

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11175514.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949227.45 **EASTING:** 928961.88

GROUNDWATER:

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
			TYPE		Macrocore		
			DIA.		2"		
			WT.				
			LENGTH		4'		
			* POCKET PENETROMETER READING				

GROUND ELEVATION: 1119.35

DATE STARTED: 5/6/08

DATE FINISHED: 5/19/08

DRILLER: Steve Gingrich/Eric Laurienzo

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Bruce

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	75	Gray Brown		Asphalt with gravel underlayment.	Asphalt	ND	Dry
							CLAYEY SILT and GRAVEL	GM		
							CLAYEY SILT, some gravel.	ML		
-5		2	NA	60			SILTY fine to coarse SAND and GRAVEL.	GM	ND	Moist
		3	NA	80	Gray Brown		SILTY fine to coarse GRAVEL, some medium to coarse sand, trace cobble.		ND	
-10		4	NA	80					ND	
-15										Wet at 15.5' Iron Staining
							End of boring 16'. Two refusals on cobbles/gravel on 5/6/08 at 10' and 14', respectively. Returned 5/19/08 with different probe and advanced boring to 16'.			
-20										
-25										

COMMENTS: Boring advanced to 14' with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Returned 5/19/08 to advance boring deeper using a pick-up truck mounted Simco Earthprobe 200.

Collected Samples SB-19-13-14' and SB-19-14-15' for analysis of VOCs, SVOCs, and RCRA Metals.

ND = Non-detect above background levels

BORING NO. : SB-19

URS Corporation

TEST BORING LOG

BORING NO. : SB-20

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 OF 1

CLIENT: New York State Electric & Gas

JOB NO. : 11175514.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949272.17 **EASTING:** 928938.04

GROUNDWATER:

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
			TYPE		Macrocore		
			DIA.		2"		
			WT.				
			LENGTH		4'		
			* POCKET PENETROMETER READING				

GROUND ELEVATION: 1118.62

DATE STARTED: 5/5/08

DATE FINISHED: 5/5/08

DRILLER: Steve Gingrich/Eric Laurienzo

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Brunein

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	90	Brown		Clayey silt, trace to some fine to coarse gravel.	FILL	ND	Dry
					Gray		Ash, fine gravel, cinder.			
-5		2	NA	50			Clayey silt, ash, and gravel.		ND	
					Black to Gray		Ash, some coarse sand, brick, glass, and coal fragments.			
		3	NA	70	Gray Brown		Clayey silt and gravel		ND	Moist
-10					D.Gray -Black		Ash with fibrous material, slight coal tar odor.			
							End of boring 11'. Two refusals on cobbles/gravel at 10' and 11', respectively.			
-15										
-20										
-25										

COMMENTS: Boring advanced to 11' with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Made two attempts, first sampler refusal was at 11', second refusal was at 10' on cobble.

Collected Sample SB-20-10-11' for analysis of VOCs, SVOCs, and RCRA Metals.

ND = Non-detect above background levels

BORING NO. : SB-20

URS Corporation

TEST BORING LOG

BORING NO. : SB-21

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11175514.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949318.26 **EASTING:** 928954.79

GROUNDWATER:

GROUND ELEVATION: 1119.38

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

DATE STARTED: 5/5/08

DATE FINISHED: 5/19/08

DRILLER: Steve Gingrich/Eric Laurienzo

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Bruce

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	75	Gray Brown		Asphalt with gravel underlayment.	FILL	ND	Dry Moist
							CLAYEY SILT some fine to coarse gravel.	ML		
-5		2	NA	50			SILTY fine to coarse SAND and GRAVEL	GM	ND	
		3	NA	50	Gray Brown		SILTY GRAVEL, some coarse sand, trace cobble.		ND	Moist to Dry
-10		4	NA	75			SILTY medium to coarse SAND, some fine to coarse gravel.	SM	ND	
-15							Medium to coarse SAND, some fine to coarse gravel.	SW		Wet at 15'
-20							End of boring 16'. Three refusals on cobbles/gravel on 5/5/08 at depths ranging from 8 to 8.5'. Returned 5/19/08 with different probe and advanced boring to 16'.			
-25										

COMMENTS: Boring advanced to 8' with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Returned 5/19/08 to advance boring deeper using a pick-up truck mounted Simco Earthprobe 200.

Collected Samples SB-21-6-8' and SB-21-13-15' (plus duplicate) for analysis of VOCs, SVOCs, and RCRA Metals.

ND = Non-detect above background levels

BORING NO. : SB-21

URS Corporation

TEST BORING LOG

BORING NO. : SB-22

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11175514.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949320.18 **EASTING:** 928980.66

GROUNDWATER:

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: 1119.45

DATE STARTED: 5/5/08

DATE FINISHED: 5/19/08

DRILLER: Steve Gingrich/Eric Laurienzo

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Bruce

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	50	Gray Brown		Asphalt with gravel underlayment. CLAYEY SILT some fine to coarse gravel.	FILL ML	ND	Dry Moist
-5		2	NA	25			SILTY fine to coarse SAND and GRAVEL	GM	ND	
-10		3	NA	35	Gray Brown		SILTY fine to medium SAND and GRAVEL, trace cobble.		ND	Moist to Dry
		4	NA	50			SILTY fine to coarse GRAVEL, some sand, becomes wet at 15'.		ND	Wet at 15'
-15							End of boring 15'. Four refusals on cobbles/gravel on 5/5/08 at depths ranging from 3 to 11'. Returned 5/19/08 with different probe and advanced boring to 15'.			
-20										
-25										

COMMENTS: Boring advanced to 11' with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Returned 5/19/08 to advance boring deeper using a pick-up truck mounted Simco Earthprobe 200.

Collected Samples SB-22-4-8', SB-22-8-11', and SB-22-13-15' for analysis of VOCs, SVOCs, and RCRA Metals.

ND = Non-detect above background levels

BORING NO. : SB-22

URS Corporation

TEST BORING LOG

BORING NO. : SB-23

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11175514.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949288.49 **EASTING:** 928937.55

GROUNDWATER:				CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: 1118.91

DATE STARTED: 5/6/08

DATE FINISHED: 5/6/08

DRILLER: Steve Gingrich

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Bruce

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	60	Brown		Brown clayey silt, some fine to coarse gravel, trace coal.	FILL	ND	Moist
-5		2	NA	40			SILTY SAND and GRAVEL, trace roots.	GM	ND	
							End of boring 6'.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced to 6' with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Boring was advanced directly adjacent to the sewer service line for 45 Charles Street.

Collected Sample SB-23-3-6' for analysis of VOCs, SVOCs, and RCRA Metals.

ND = Non-detect above background levels

BORING NO. : SB-23

URS Corporation

TEST BORING LOG

BORING NO. : SB-24

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11175514.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949302.82 **EASTING:** 928936.43

GROUNDWATER:				CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: 1118.69

DATE STARTED: 5/6/08

DATE FINISHED: 5/6/08

DRILLER: Steve Gingrich

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Bruce

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	60	Brown		SILTY Topsoil CLAYEY SILT, some gravel.	ML	ND	Moist
-5		2	NA	40			SILTY SAND and GRAVEL, trace roots.	GM	ND	
							End of boring 6'.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced to 6' with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Boring was advanced directly adjacent to the gas service line for 45 Charles Street.

Collected Sample SB-24-3-6' (plus duplicate FD-SB-050608) for analysis of VOCs, SVOCs, and RCRA Metals.

ND = Non-detect above background levels

BORING NO. : SB-24

URS Corporation

TEST BORING LOG

BORING NO. : SB-25

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11175514.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949252.38 **EASTING:** 928939.75

GROUNDWATER:

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
			TYPE		Macrocore		
			DIA.		2"		
			WT.				
			LENGTH		4'		
			* POCKET PENETROMETER READING				

GROUND ELEVATION: 1118.87

DATE STARTED: 5/6/08

DATE FINISHED: 5/6/08

DRILLER: Steve Gingrich

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Bruce

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	90	Brown		SILTY Topsoil Silty fine to coarse gravel, little sand, trace coal fragments, roots.	FILL	ND	Moist
		2	NA	90	Gray		Ash, cinder, and coal fragments.		ND	
-5										
							End of boring 6'.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced to 6' with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Boring was advanced directly adjacent to the gas service line for 43 Charles Street.

Collected Sample SB-25-3-6' (plus MS/MSD) for analysis of VOCs, SVOCs, and RCRA Metals.

ND = Non-detect above background levels

BORING NO. : SB-25

URS Corporation

TEST BORING LOG

BORING NO. : SB-26

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11175514.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949239.70 **EASTING:** 928941.00

GROUNDWATER:

DATE	TIME	LEVEL	TYPE

	CAS.	SAMPLER	CORE	TUBE
TYPE		Macrocore		
DIA.		2"		
WT.				
LENGTH		4'		

* POCKET PENETROMETER READING

GROUND ELEVATION: 1118.90

DATE STARTED: 5/6/08

DATE FINISHED: 5/6/08

DRILLER: Steve Gingrich

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Bruce

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	90	Brown		CLAYEY SILT and GRAVEL	GM	ND	Moist
-5		2	NA	90			SILTY fine to coarse GRAVEL, some fine to coarse sand.		ND	
							End of boring 6'.			
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced to 6' with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Boring was advanced adjacent to the probable location of the sewer service line for 43 Charles Street.

Collected Sample SB-26-3-6' for analysis of VOCs, SVOCs, and RCRA Metals.

ND = Non-detect above background levels

BORING NO. : SB-26

URS Corporation

TEST BORING LOG

BORING NO. : SB-27

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11175514.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949272.53 **EASTING:** 928926.14

GROUNDWATER:

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
			TYPE		Macrocore		
			DIA.		2"		
			WT.				
			LENGTH		4'		
			* POCKET PENETROMETER READING				

GROUND ELEVATION: 1118.62

DATE STARTED: 5/19/08

DATE FINISHED: 5/19/08

DRILLER: Eric Laurienzo

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Brunein

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	20	Gray Brown		Asphalt with gravel underlayment.	FILL	ND	Dry Sl. Moist
							Silty gravel			
							Silt, some fine sand, coarse sand, fine gravel, trace coal fragments, no odor.			
-5		2	NA	50			Silt, ash, coal fragments, fine gravel, fine sand, some iron staining.		ND	Moist
							Gravel and silt, some ash, trace coal fragments.			
		3	NA	50	Gray to Dark Gray		1" thick silty black stained layer with mild to moderate weathered coal tar odor at 10'.		ND	
-10					Gray Brown		Fine SAND, some fine to coarse gravel.	SP		
		4	NA	50			Fine to coarse GRAVEL, some medium to coarse sand and silt.	GW	ND	Very Moist
-15										Wet at 14'
							End of boring 16'.			
							One refusal on concrete at 2'.			
-20							SB-27-9-10' sample was only submitted for analysis of TCL SVOCs and RCRA metals due to limited sample volume. URS discussed this with NYSDEC in the field.			
-25										

COMMENTS: Boring advanced to 16' with a pick-up truck mounted Simco Earthprobe 200 unit equipped with a macrocore sampler. Collected sample SB-27-9-10' for analysis of SVOCs and RCRA Metals and SB-27-12-14' for analysis of VOCs, SVOCs, and RCRA Metals.

ND = Non-detect above background levels

BORING NO. : SB-27

URS Corporation

TEST BORING LOG

BORING NO. : SB-28

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11175514.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949271.27 **EASTING:** 928905.91

GROUNDWATER:				CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: 1118.81

DATE STARTED: 5/19/08

DATE FINISHED: 5/19/08

DRILLER: Eric Laurienzo

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Bruce

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	75	Gray Brown		Asphalt with gravel underlayment. SILTY fine SAND and fine to coarse GRAVEL	FILL GM	ND	Dry Moist
-5		2	NA	50			SILTY GRAVEL, trace to some sand.		ND	
-10		3	NA	60			Fine to coarse GRAVEL, some fine to medium sand, trace to some silt.	GW	ND	
-15		4	NA	100			SILTY medium to coarse SAND, some fine to coarse gravel.	SM	ND	Wet at 15'
-20							End of boring 16'.			
-25										

COMMENTS: Boring advanced to 16' with a pick-up truck mounted Simco Earthprobe 200 unit equipped with a macrocore sampler.

Collected samples SB-28-8-10' and SB-28-12-14' for analysis of VOCs, SVOCs, and RCRA Metals

ND = Non-detect above background levels

BORING NO. : SB-28

URS Corporation

TEST BORING LOG

BORING NO. : SS-07

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11175514.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949241.78 **EASTING:** 929007.86

GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: 1118.70

DATE STARTED: 5/5/08

DATE FINISHED: 5/6/08

DRILLER: Steve Gingrich

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Bruce

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	90	Brown		CLAYEY SILT and GRAVEL	GM	ND	moist
							End of boring at 2'.			
-5										
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced to 2' with a skid-steer mounted Geoprobe unit equipped with a macrocore sampler.

Collected sample SS-07-0-0.2' on 5/5/08 using a hand trowel for analysis of SVOCs and RCRA Metals.

Used a macrocore to collect samples SS-07-0.2-1.0 and SS-07-1.0-2.0 on 5/6/08 for VOCs, SVOCs, and RCRA Metals.

ND = Non-detect above background levels

BORING NO. : SS-07

URS Corporation

TEST BORING LOG

BORING NO. : SS-08

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11175514.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949253.67 **EASTING:** 929009.45

GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: 1118.74

DATE STARTED: 5/5/08

DATE FINISHED: 5/6/08

DRILLER: Steve Gingrich

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Bruce

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	100	Brown		CLAYEY SILT and GRAVEL	GM	ND	moist
							End of boring at 2'.			
-5										
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced to 2' with a skid-steer mounted Geoprobe unit equipped with a macrocore sampler. Collected sample SS-08-0-0.2' on 5/5/08 using a hand trowel for analysis of SVOCs and RCRA Metals. Used a macrocore to collect samples SS-08-0.2-1.0 and SS-08-1.0-2.0 (plus MS/MSD) on 5/6/08 for VOCs, SVOCs, and RCRA Metals.

ND = Non-detect above background levels

BORING NO. : SS-08

URS Corporation

TEST BORING LOG

BORING NO. : SS-09

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11175514.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949270.62 **EASTING:** 929008.97

GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: 1118.75

DATE STARTED: 5/5/08

DATE FINISHED: 5/6/08

DRILLER: Steve Gingrich

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Bruce

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	90	Brown		CLAYEY SILT and GRAVEL	GM	ND	moist
							End of boring at 2'.			
-5										
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced to 2' with a skid-steer mounted Geoprobe unit equipped with a macrocore sampler. Collected sample SS-09-0-0.2' on 5/5/08 using a hand trowel for analysis of SVOCs and RCRA Metals. Used a macrocore to collect samples SS-09-0.2-1.0 and SS-09-1.0-2.0 on 5/6/08 for VOCs, SVOCs, and RCRA Metals.

ND = Non-detect above background levels

BORING NO. : SS-09

URS Corporation

TEST BORING LOG

BORING NO. : SS-10

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11175514.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949266.64 **EASTING:** 928979.72

GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: 1119.13

DATE STARTED: 5/5/08

DATE FINISHED: 5/6/08

DRILLER: Steve Gingrich

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Bruce

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	50	Brown		CLAYEY SILT and coarse GRAVEL	GM	ND	moist
							End of boring at 2'.			
-5										
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced to 2' with a skid-steer mounted Geoprobe unit equipped with a macrocore sampler.
Collected sample SS-10-0-0.2' on 5/5/08 using a hand trowel for analysis of SVOCs and RCRA Metals. Used a macrocore to collect samples SS-10-0.2-1.0 (plus duplicate FD-SS-050608) and SS-10-1.0-2.0 on 5/6/08 for VOCs, SVOCs, and RCRA Metals

ND = Non-detect above background levels

BORING NO. : SS-10

URS Corporation

TEST BORING LOG

BORING NO. : SS-11

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11175514.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949264.26 **EASTING:** 928957.31

GROUNDWATER:

DATE	TIME	LEVEL	TYPE	CAS.	SAMPLER	CORE	TUBE
			TYPE		Macrocore		
			DIA.		2"		
			WT.				
			LENGTH		4'		
			* POCKET PENETROMETER READING				

GROUND ELEVATION: 1118.83

DATE STARTED: 5/5/08

DATE FINISHED: 5/6/08

DRILLER: Steve Gingrich

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Brunein

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	90	Brown		CLAYEY SILT and GRAVEL, trace coal ash.	FILL	ND	moist
							End of boring at 2'.			
-5										
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced to 2' with a skid-steer mounted Geoprobe unit equipped with a macrocore sampler. Collected sample SS-11-0-0.2' on 5/5/08 using a hand trowel for analysis of SVOCs and RCRA Metals. Used a macrocore to collect samples SS-11-0.2-1.0 and SS-11-1.0-2.0 on 5/6/08 for VOCs, SVOCs, and RCRA Metals.

ND = Non-detect above background levels

BORING NO. : SS-11

URS Corporation

TEST BORING LOG

BORING NO. : SS-12

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11175514.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949276.10 **EASTING:** 928955.15

GROUNDWATER:

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: 1118.57

DATE STARTED: 5/5/08

DATE FINISHED: 5/6/08

DRILLER: Steve Gingrich

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Bruce

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	90	Brown		CLAYEY SILT and GRAVEL, trace ash and coal fragments	FILL	ND	moist
							End of boring at 2'.			
-5										
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced to 2' with a skid-steer mounted Geoprobe unit equipped with a macrocore sampler. Collected sample SS-12-0-0.2' on 5/5/08 using a hand trowel for analysis of SVOCs and RCRA Metals. Used a macrocore to collect samples SS-12-0.2-1.0 and SS-12-1.0-2.0 on 5/6/08 for VOCs, SVOCs, and RCRA Metals.

ND = Non-detect above background levels

BORING NO. : SS-12

URS Corporation

TEST BORING LOG

BORING NO. : SS-13

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11175514.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949274.87 **EASTING:** 928977.84

GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: 1119.52

DATE STARTED: 5/5/08

DATE FINISHED: 5/6/08

DRILLER: Steve Gingrich

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Bruce

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	100	Brown		CLAYEY SILT and GRAVEL.	GM	ND	moist
							End of boring at 2'.			
-5										
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced to 2' with a skid-steer mounted Geoprobe unit equipped with a macrocore sampler. Collected sample SS-13-0-0.2' on 5/5/08 using a hand trowel for analysis of SVOCs and RCRA Metals. Used a macrocore to collect samples SS-13-0.2-1.0 and SS-13-1.0-2.0 on 5/6/08 for VOCs, SVOCs, and RCRA Metals.

ND = Non-detect above background levels

BORING NO. : SS-13

URS Corporation

TEST BORING LOG

BORING NO. : SS-14

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11175514.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949277.76 **EASTING:** 928995.27

GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: 1119.10

DATE STARTED: 5/5/08

DATE FINISHED: 5/6/08

DRILLER: Steve Gingrich

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Bruce

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	75	Brown		CLAYEY SILT and GRAVEL.	GM	ND	moist
							End of boring at 2'.			
-5										
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced to 2' with a skid-steer mounted Geoprobe unit equipped with a macrocore sampler. Collected sample SS-14-0-0.2' on 5/5/08 using a hand trowel for analysis of SVOCs and RCRA Metals. Used a macrocore to collect samples SS-14-0.2-1.0 and SS-14-1.0-2.0 on 5/6/08 for VOCs, SVOCs, and RCRA Metals.

ND = Non-detect above background levels

BORING NO. : SS-14

URS Corporation

TEST BORING LOG

BORING NO. : SS-15

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11175514.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949288.80 **EASTING:** 929000.24

GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: 1119.22

DATE STARTED: 5/5/08

DATE FINISHED: 5/6/08

DRILLER: Steve Gingrich

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Bruce

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	90	Brown		CLAYEY SILT and GRAVEL.	GM	ND	moist
							End of boring at 2'.			
-5										
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced to 2' with a skid-steer mounted Geoprobe unit equipped with a macrocore sampler. Collected sample SS-15-0-0.2' on 5/5/08 using a hand trowel for analysis of SVOCs and RCRA Metals. Used a macrocore to collect samples SS-15-0.2-1.0 and SS-15-1.0-2.0 on 5/6/08 for VOCs, SVOCs, and RCRA Metals.

ND = Non-detect above background levels

BORING NO. : SS-15

URS Corporation

TEST BORING LOG

BORING NO. : SS-16

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 **OF** 1

CLIENT: New York State Electric & Gas

JOB NO. : 11175514.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949307.23 **EASTING:** 929005.94

GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore		
				DIA.		2"		
				WT.				
				LENGTH		4'		
				* POCKET PENETROMETER READING				

GROUND ELEVATION: 1119.26

DATE STARTED: 5/5/08

DATE FINISHED: 5/6/08

DRILLER: Steve Gingrich

GEOLOGIST: R. Murphy

REVIEWED BY: Tim Bruce

DEPTH FEET	STRATA	SAMPLE NO.	SAMPLE BLOW COUNT	REC% / RQD%	COLOR	SOIL CONSISTENCY / ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	90	Brown		CLAYEY SILT and GRAVEL.	GM	ND	moist
							End of boring at 2'.			
-5										
-10										
-15										
-20										
-25										

COMMENTS: Boring advanced to 2' with a skid-steer mounted Geoprobe unit equipped with a macrocore sampler. Collected sample SS-16-0-0.2' on 5/5/08 using a hand trowel for analysis of SVOCs and RCRA Metals. Used a macrocore to collect samples SS-16-0.2-1.0 and SS-16-1.0-2.0 on 5/6/08 for VOCs, SVOCs, and RCRA Metals.

ND = Non-detect above background levels

BORING NO. : SS-16

APPENDIX B

TEST TRENCH LOGS

URS

77 Goodell Street
Buffalo, New York 14203
(716) 856-5636

TEST TRENCH LOG

PROJECT:	**Former Cortland Gasholder Location**		Sheet 1 of 1
CLIENT:	NYSEG	**JOB NUMBER:**	11174428.00000
CONTRACTOR:	Nature's Way EC & C, Inc.	**LOCATION:**	Cortland, New York
DATE STARTED:	11/9/2005	**GROUND ELEVATION:**	1118.86 feet AMSL
DATE COMPLETED:	11/9/2005	**OPERATOR:**	Rich Brown
TRENCH NUMBER:	**TP-01**	**GEOLOGIST:**	Rob Murphy

DEPTH (FT)	SAMPLE	DESCRIPTION
1		Fill: (0.0 to 1.5') Dark Brown to brown Clayey Silt, some coarse gravel and cobbles. Thin ash layer at 1.5' with trace coal. One piece of fire brick, one small piece of cast iron pipe.
2		Clayey Silt:(1.5 to 7.5) (MH) brown, moist, with coarse gravel and cobbles.
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

COMMENTS: Collected soil samples TP-01-2.5', TP-01-5.0', and TP-01-7.5' from north end of pit. Samples submitted to STL Laboratory for VOCs, SVOCs, TAL metals, Phenols, and Cyanide analyses.

URS

77 Goodell Street
Buffalo, New York 14203
(716) 856-5636

TEST TRENCH LOG

PROJECT:	**Former Cortland Gasholder Location**		Sheet 1 of 1
CLIENT:	NYSEG	**JOB NUMBER:**	11174428.00000
CONTRACTOR:	Nature's Way EC & C, Inc.	**LOCATION:**	Cortland, New York
DATE STARTED:	11/9/2005	**GROUND ELEVATION:**	1119.20 feet AMSL
DATE COMPLETED:	11/9/2005	**OPERATOR:**	Rich Brown
TRENCH NUMBER:	**TP-02**	**GEOLOGIST:**	Rob Murphy

DEPTH (FT)	SAMPLE	DESCRIPTION
1		Fill: (0.0 to 1.5') Dark Brown to gray Clayey Silt with fine to coarse gravel (rounded) and cobbles. One piece of scrap metal and trace red brick near surface.
2		Clayey Silt:(1.5 to 7.0) (MH) brown, moist, with coarse gravel and cobbles. Increasing clay content with depth. Cobbles numerous at depth is this pit. Minor amounts of perched water percolated into pit from north end during excavation, could be related to downspout discharge to unseen drain tile system.
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

COMMENTS: Collected soil samples TP-02-2.5' from north end of pit, and TP-02-5.5' and TP-02-7.0' from south end of pit. Samples submitted to STL Laboratory for VOCs, SVOCs, TAL metals, Phenols, and Cyanide analyses.

URS

77 Goodell Street
Buffalo, New York 14203
(716) 856-5636

TEST TRENCH LOG

PROJECT:	**Former Cortland Gasholder Location**		Sheet 1 of 1
CLIENT:	NYSEG	**JOB NUMBER:**	11174428.00000
CONTRACTOR:	Nature's Way EC & C, Inc.	**LOCATION:**	Cortland, New York
DATE STARTED:	11/9/2005	**GROUND ELEVATION:**	1118.66 feet AMSL
DATE COMPLETED:	11/9/2005	**OPERATOR:**	Rich Brown
TRENCH NUMBER:	**TP-03**	**GEOLOGIST:**	Rob Murphy

DEPTH (FT)	SAMPLE	DESCRIPTION
1 2 3 4 5 6 7 8 9 10		Fill: (0.0 to 10.5') Brown to Gray Brown Clayey Silt with Fine to Coarse Gravel and Cobbles. Mortar material and Ash zone at approximately 1.5'. Brown Clayey Silt with Cobbles at 1.5' to 6.0'. Below 6.0', Debris: glass, bottles, bricks, fire brick, ash, one piece of metal pipe, one piece of ceramic coated metal. Slight odor on two pieces of brick. One piece of 4-5 cobbles encased in weathered glassy appearing tar, no odor. 
11 12		Perched water encountered at 10.5'. Excavator limit reached.

COMMENTS: Collected soil samples TP-03-2.5', TP-03-5.5', and TP-03-10.5' from the west end of the pit. Samples submitted to STL Laboratory for VOCs, SVOCs, TAL metals, Phenols, and Cyanide analyses.

APPENDIX C

PIEZOMETER CONSTRUCTION LOGS

DRILLING SUMMARY

Geologist:
Rob Murphy

Drilling Company:
Nature's Way Environmental, Inc

Driller:
Mike Saeli

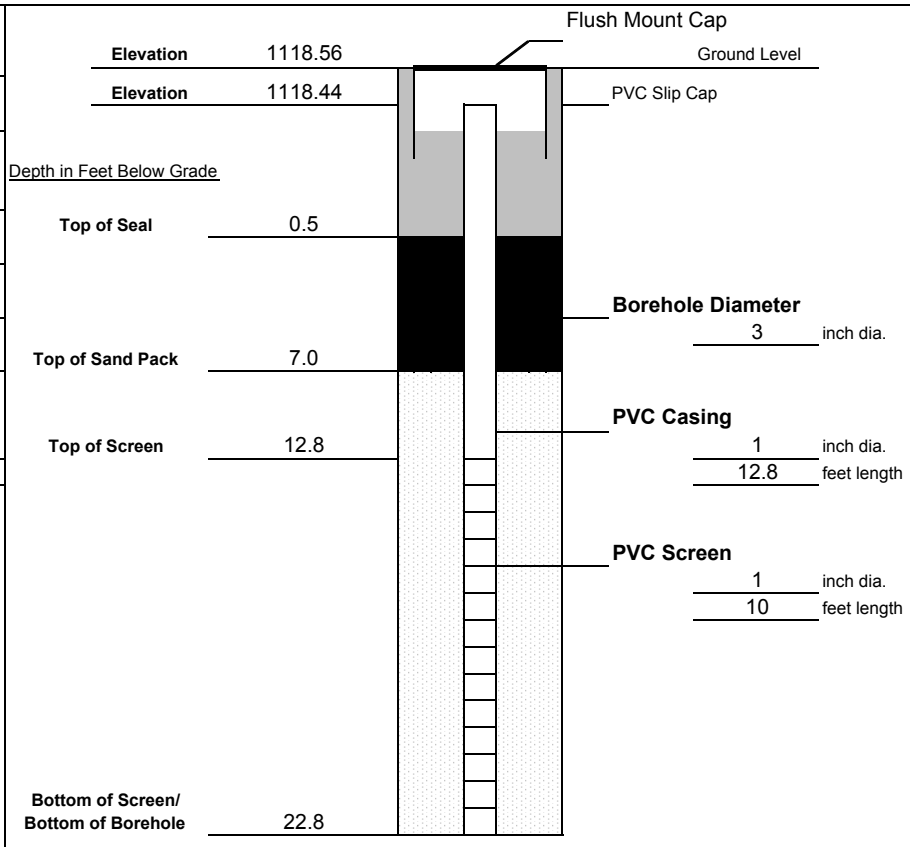
Rig Make/Model:
Skid Steer/ Geoprobe

Date:
11/11/2005

GEOLOGIC LOG

Depth(ft.)	Description
	See Boring Log of SB-06 for Lithologic Description.

WELL DESIGN



CASING MATERIAL		*SCREEN MATERIAL*		*FILTER MATERIAL*	
Surface:	Flush Mount Road Box	**Type:**	PVC	**Type:**	#00N (Filpro)
				Setting:	7.0'-22.8'
Monitor:	PVC	**Slot Size:**	0.010"	*SEAL MATERIAL*	
				Type:	Bentonite Chips
				Setting:	0.5'-7.0'

COMMENTS:

LEGEND

- Cement Grout
- Bentonite Seal
- Sand Pack

Client: NYSEG	**Location:** Cortland Fomer Gasholder Site	**Project No.:** 11174428.00000
URS Corporation	**OVERBURDEN PIEZOMETER CONSTRUCTION DETAILS**	**Well Number:** PZ-01

DRILLING SUMMARY

Geologist:
Rob Murphy

Drilling Company:
Nature's Way Environmental, Inc

Driller:
Mike Saeli

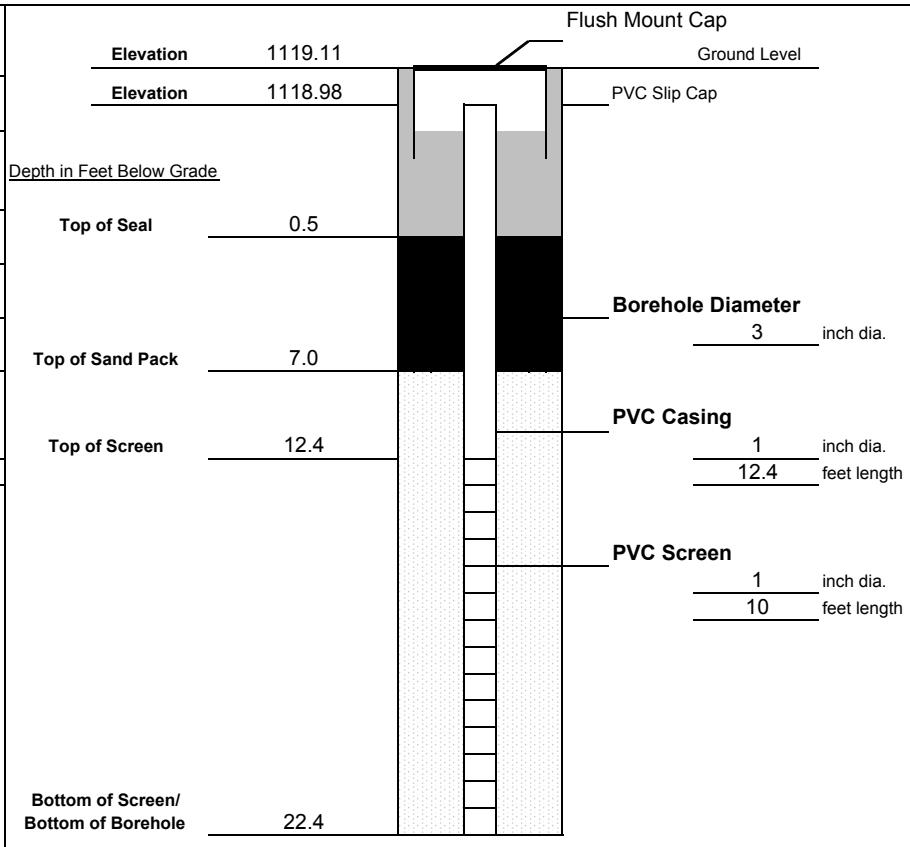
Rig Make/Model:
Skid Steer/ Geoprobe

Date:
11/11/2005

GEOLOGIC LOG

Depth(ft.)	Description
	See Boring Log of SB-07 for Lithologic Description.

WELL DESIGN



CASING MATERIAL		*SCREEN MATERIAL*		*FILTER MATERIAL*	
Surface:	Flush Mount Road Box	**Type:**	PVC	**Type:**	#00N (Filpro)
				Setting:	7.0'-22.4'
Monitor:	PVC	**Slot Size:**	0.010"	*SEAL MATERIAL*	
				Type:	Bentonite Chips
				Setting:	0.5'-7.0'

COMMENTS:

LEGEND

- Cement Grout
- Bentonite Seal
- Sand Pack

Client: NYSEG	**Location:** Cortland Fomer Gasholder Site	**Project No.:** 11174428.00000
URS Corporation	**OVERBURDEN PIEZOMETER CONSTRUCTION DETAILS**	**Well Number:** PZ-02

DRILLING SUMMARY

Geologist:
Rob Murphy

Drilling Company:
Nature's Way Environmental, Inc

Driller:
Eric Laurienzo

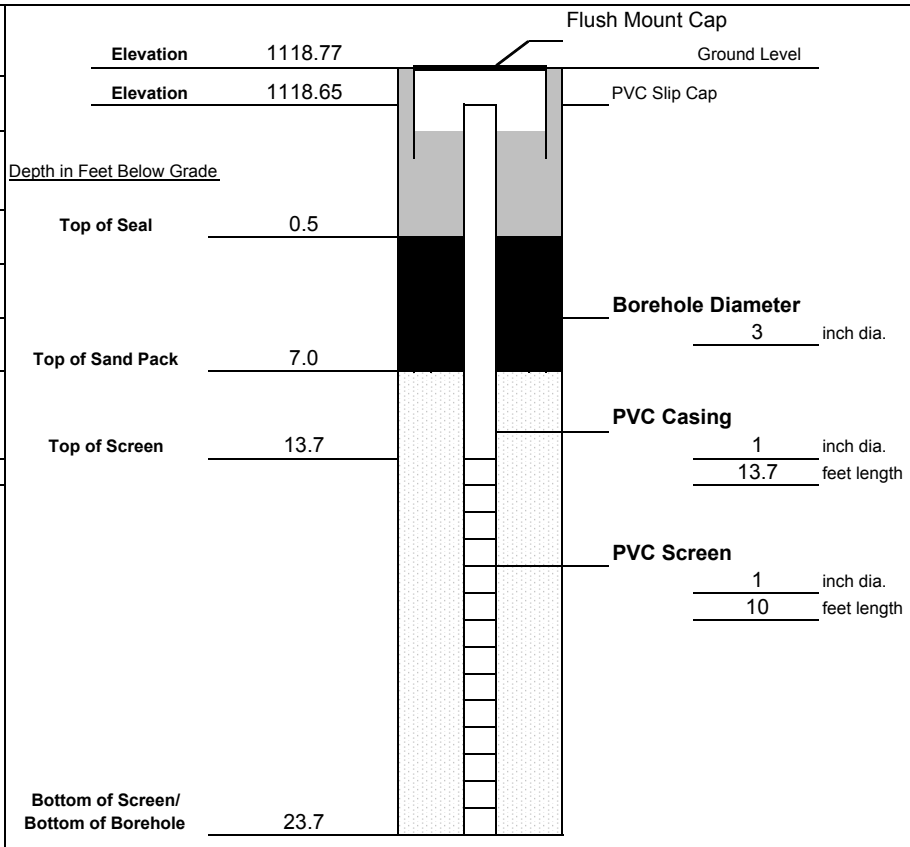
Rig Make/Model:
Skid Steer/ Geoprobe

Date:
11/14/2005

GEOLOGIC LOG

Depth(ft.)	Description
	See Boring Log of SB-08 for Lithologic Description.

WELL DESIGN



CASING MATERIAL		*SCREEN MATERIAL*		*FILTER MATERIAL*	
Surface:	Flush Mount Road Box	**Type:**	PVC	**Type:**	#00N (Filpro)
				Setting:	7.0'-23.7'
Monitor:	PVC	**Slot Size:**	0.010"	***SEAL MATERIAL***	
				Type:	Bentonite Chips
				Setting:	0.5'-7.0'

COMMENTS:

LEGEND

- Cement Grout
- Bentonite Seal
- Sand Pack

Client: NYSEG	**Location:** Cortland Fomer Gasholder Site	**Project No.:** 11174428.00000
URS Corporation	**OVERBURDEN PIEZOMETER CONSTRUCTION DETAILS**	**Well Number:** PZ-03

DRILLING SUMMARY

Geologist:
Rob Murphy

Drilling Company:
Nature's Way Environmental, Inc

Driller:
Eric Laurienzo

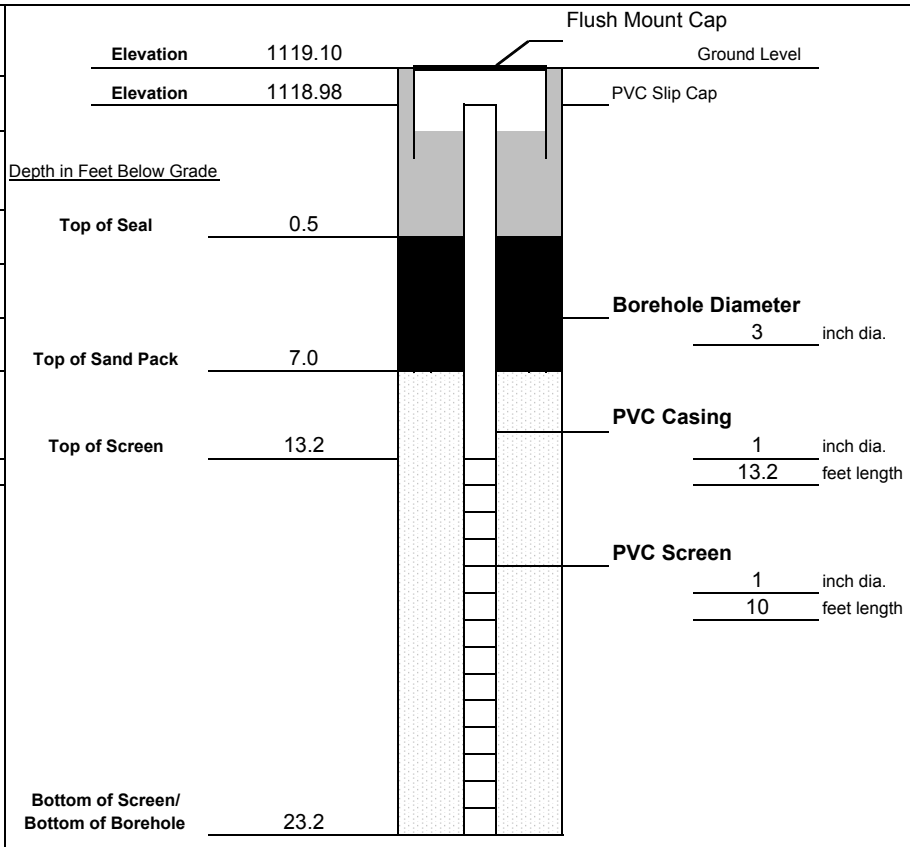
Rig Make/Model:
Skid Steer/ Geoprobe

Date:
11/14/2005

GEOLOGIC LOG

Depth(ft.)	Description
	See Boring Log of SB-09 for Lithologic Description.

WELL DESIGN



CASING MATERIAL		*SCREEN MATERIAL*		*FILTER MATERIAL*	
Surface:	Flush Mount Road Box	**Type:**	PVC	**Type:**	#00N (Filpro)
				Setting:	7.0'-23.2'
Monitor:	PVC	**Slot Size:**	0.010"	***SEAL MATERIAL***	
				Type:	Bentonite Chips
				Setting:	0.5'-7.0'

COMMENTS:

LEGEND

- Cement Grout
- Bentonite Seal
- Sand Pack

Client: NYSEG	**Location:** Cortland Fomer Gasholder Site	**Project No.:** 11174428.00000
URS Corporation	**OVERBURDEN PIEZOMETER CONSTRUCTION DETAILS**	**Well Number:** PZ-04

APPENDIX D

ANALYTICAL DATA ASSESSMENT SUMMARY AND VALIDATED DATA TABLES

2008 INVESTIGATION DATA ASSESSMENT SUMMARY AND VALIDATED SAMPLE ANALYTICAL RESULTS TABLES

DATA ASSESSMENT SUMMARY FOR
SURFACE SOIL AND SUBSURFACE SOIL SAMPLES - MAY 2008
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE – CORTLAND, NEW YORK
NEW YORK STATE ELECTRIC AND GAS

This Data Assessment Summary addresses quality control deficiencies resulting in qualification of the data for the 30 surface soil samples (plus 2 field duplicates [FDs] and 2 matrix spike/matrix spike duplicate [MS/MSD] pairs), 18 subsurface soil samples (plus 2 FDs and 2 MS/MSD pairs), and 3 equipment rinsate blanks collected on May 5-19, 2008 at the Former Off-Site Gas Holder site located in Cortland, NY. All of the samples were sent to Test America Laboratories (Amherst, NY) and were received by the laboratory intact, properly preserved (where applicable), and under proper chain-of-custody.

The samples were analyzed for target compound list (TCL) volatile organic compounds (VOCs) following USEPA Method SW8260B, TCL seimvolatile organic compounds (SVOCs) following USEPA Method SW8270C, and the eight Resource Conservation and Recovery Act (RCRA) metals following USEPA Methods SW6010B/SW7470A/SW7471A. Not all samples were analyzed for VOCs.

Data validation was limited to a review of holding times, surrogate spike recoveries, laboratory control sample (LCS) and MS/MSD recoveries, FD results, and blanks (method, rinsate, and calibration). Qualification of data was made following the procedures outlined in the following USEPA Region II documents:

Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B, SOP HW-24, Rev. 2, October 2006;

Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D, SOP HW-22, Rev. 3, October 2006; and

Validation of Metals for the Contract Laboratory Program (CLP) Based on SOW ILM05.3, SOP HW-2, Rev. 13, September 2006.

A summary of data qualifications is provided in Table 1. The validated analytical results are presented in Tables 2 through 4. Definitions of data qualifiers are presented in at the end of this summary. Chain-of-custody (COC) records, the laboratory report narratives, and documentation supporting the qualification of data are provided in Attachment A.

VOCs

The concentrations of methylene chloride in the surface and sub-surface soil samples listed in Table 1 were less than 10 times the amount in the associated method and/or rinsate blanks. The final results for methylene chloride in these samples were qualified 'U'. It should be noted that the results for methylene chloride in the associated method and rinsate blanks were reported as non-detect by the laboratory because the concentrations were less than the method detection limit (MDL). However, the raw analytical data (i.e., quantitation report and mass spectra), which is provided in Attachment A, confirm the presence of methylene chloride in the blanks.

No other data qualifications were made, and all other data are usable as reported.

SVOCs

The concentrations of benzo(a)anthracene in the surface and sub-surface soil samples listed in Table 1 were less than five times the amount in the associated equipment rinsate blank. The final results for benzo(a)anthracene in these samples were qualified 'U'.

The concentrations of chrysene in the surface and sub-surface soil samples listed in Table 1 were less than five times the amount in the associated equipment rinsate blank. The final results for chrysene in these samples were qualified 'U'.

The concentrations of naphthalene in the sub-surface soil samples listed in Table 1 were less than five times the amount in the associated equipment rinsate blank. The final results for naphthalene in these samples were qualified 'U'.

The concentrations of bis(2-ethylhexyl)phthalate and/or di-n-octylphthalate in the surface and sub-surface soil samples listed in Table 1 were less than 10 times the amount in the associated method blanks. The final results for bis(2-ethylhexyl)phthalate and/or di-n-octylphthalate in these samples were qualified 'U'. It should be noted that, in some instances, the results for bis(2-ethylhexyl)phthalate and/or di-n-octylphthalate in the method blanks were reported as non-detect by the laboratory because the concentrations were less than the MDL. However, the raw analytical data (i.e., quantitation report and mass spectra), confirm the presence of these compounds in the blanks.

Several of the samples were diluted prior to analysis due to elevated concentrations of target compounds, matrix interferences, and/or high viscosity of the sample extracts. The reported quantitation limits for the non-detect compounds are the lowest achievable at the diluted levels.

No other data qualifications were made, and all other data are usable as reported.

Metals

The MS and/or MSD analyses of surface soil sample SS-08-1.0-2.0 exhibited recoveries above quality control limits for barium, chromium, lead, and mercury. The detected results for these analytes in the associated surface soil samples listed in Table 1 were qualified 'J'.

The MS/MSD analyses of subsurface soil sample SB-25-3-6 exhibited recoveries above quality control limits for barium and lead. The detected results for these analytes in the associated subsurface soil samples listed in Table 1 were qualified 'J'.

The percent difference for barium and chromium in the serial dilution analysis associated with the subsurface soil samples listed in Table 1 exceeded the quality control limit. The detected results for barium and chromium in these samples were qualified 'J'.

No other data qualifications were made, and all other data are usable as reported.

DEFINITIONS OF DATA QUALIFIERS

U – The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

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

N – The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

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

UJ – The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

TABLE 1
SUMMARY OF DATA QUALIFICATIONS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE
HOMER, NEW YORK FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Fraction	Affected Samples	Reason for Qualification	Data Qualifier
VOCs	SS-07-0.2-1.0, SS-07-1.0-2.0, SS-08-0.2-1.0, SS-08-1.0-2.0, SS-09-1.0-2.0, SS-10-0.2-1.0, FD-050608 (field duplicate of SS-10-0.2-1.0), SS-10-1.0-2.0, SS-11-0.2-1.0, SS-11-1.0-2.0, SS-12-0.2-1.0, SS-12-1.0-2.0, SS-13-0.2-1.0, SS-13-1.0-2.0, SS-15-0.2-1.0, SS-15-1.0-2.0, SS-16-0.2-1.0, SS-16-1.0-2.0, SB-18-11-12, SB-18-13-15, SB-19-13-14, SB-19-14-15, SB-20-10-11, SB-21-6-8, SB-21-13-15, FD-051908 (field duplicate of SB-21-13-15), SB-22-4-8, SB-22-8-11, SB-22-13-15, SB-23-3-6, SB-24-3-6, FD-SB-050608 (field duplicate of SB-24-3-6), SB-25-3-6, SB-26-3-6, SB-27-12-14, SB-28-8-10, and SB-28-12-14	Sample concentration of methylene chloride less than 10 times the concentration in the associated method/rinsate blank.	If sample concentration less than the QL, raise result to the QL and qualify 'U'. If sample concentration greater than the QL, qualify 'U' at the reported value.
SVOCs	SB-18-11-12, SB-22-4-8, and SS-13-0-2"	Sample concentration of benzo(a)anthracene less than five times the concentration in the associated rinsate blank.	Raise result to the QL and qualify 'U'.
SVOCs	SB-23-3-6, SB-24-3-6, FD-SB-050608 (field duplicate of SB-24-3-6), SB-26-3-6, SS-08-0.2-1.0, SS-10-0.2-1.0, SS-11-0.2-1.0, SS-11-1.0-2.0, SS-12-0.2-1.0, SS-13-0.2-1.0, and SS-13-1.0-2.0	Sample concentration of chrysene less than five times the concentration in the associated rinsate blank.	Raise result to the QL and qualify 'U'.
SVOCs	SB-27-12-14 and SB-27-9-10	Sample concentration of naphthalene less than five times the concentration in the associated rinsate blank.	Raise result to the QL and qualify 'U'.
SVOCs	SB-18-11-12, SB-22-4-8, SB-24-3-6, FD-SB-050608 (field duplicate of SB-24-3-6), SS-08-0-2", SS-08-1.0-2.0, SS-09-0-2", SS-09-1.0-2.0, SS-10-1.0-2.0, SS-12-0.2-1.0, SB-19-13-14, SB-21-13-15, and SB-27-12-14	Sample concentration of bis(2-ethylhexyl)phthalate less than 10 times the concentration in the associated method blank.	Raise result to the QL and qualify 'U'.

Fraction	Affected Samples	Reason for Qualification	Data Qualifier
SVOCs	FD-SS-050508 (field duplicate of SS-07-0-2"), SS-07-0.2-1.0, SS-08-0-2", SS-08-1.0-2.0, SS-09-0-2", SS-09-1.0-2.0,, SS-10-0-2", SS-10-1.0-2.0, SS-11-0-2", SS-12-0-2", SS-13-1.0-2.0, and SS-14-1.0-2.0	Sample concentration of di-n-octylphthalate less than 10 times the concentration in the associated method blank.	Raise result to the QL and qualify 'U'.
Metals	SS-07-0.2-1.0, SS-07-1.0-2.0, SS-08-0.2-1.0, SS-08-1.0-2.0, SS-09-0.2-1.0, SS-09-1.0-2.0, SS-10-0.2-1.0, FD-SS-050608 (field duplicate of SS-10-0.2-1.0), SS-10-1.0-2.0, SS-11-0.2-1.0, SS-11-1.0-2.0, SS-12-0.2-1.0, SS-12-1.0-2.0, SS-13-0.2-1.0, SS-13-1.0-2.0, SS-14-0.2-1.0, SS-14-1.0-2.0, SS-15-0.2-1.0, SS-15-1.0-2.0, SS-16-0.2-1.0, and SS-16-1.0-2.0	MS and/or MSD recovery above quality control limits for barium, chromium, lead, and mercury.	Qualify detected results 'J'.
Metals	SB-18-11-12, SB-19-13-14, SB-20-10-11, SB-21-6-8, SB-22-4-8, SB-22-8-11, SB-23-3-6, SB-24-3-6, FD-SB-050608 (field duplicate of SB-24-3-6), SB-25-3-6, and SB-26-3-6	MS/MSD recovery above quality control limit for barium and lead.	Qualify detected results 'J'.
Metals	SB-18-13-15, SB-19-14-15, SB-21-13-15, FD-051908 (field duplicate of SB-21-13-15), SB-22-13-15, SB-27-9-10, SB-27-12-14, SB-28-8-10 and SB-28-12-14	Serial dilution percent difference exceeded 10% for barium and chromium.	Qualify detected results 'J'.

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-07	SS-07	SS-07	SS-07	SS-08
Sample ID				FD-SS-050508	SS-07-0-2"	SS-07-0.2-1.0	SS-07-1.0-2.0	SS-08-0-2"
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.2	0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2
Date Sampled				05/05/08	05/05/08	05/06/08	05/06/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	Field Duplicate (0-1)				
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	UG/KG	600	-	NA	NA	5 U	6 U	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	6000	-	NA	NA	5 U	6 U	NA
1,1,2-Trichloroethane	UG/KG	-	-	NA	NA	5 U	6 U	NA
1,1-Dichloroethane	UG/KG	200	-	NA	NA	5 U	6 U	NA
1,1-Dichloroethene	UG/KG	400	-	NA	NA	5 U	6 U	NA
1,2,4-Trichlorobenzene	UG/KG	3400	-	NA	NA	5 U	6 U	NA
1,2-Dibromo-3-chloropropane	UG/KG	-	-	NA	NA	5 U	6 U	NA
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	-	-	NA	NA	5 U	6 U	NA
1,2-Dichlorobenzene	UG/KG	7900	-	NA	NA	5 U	6 U	NA
1,2-Dichloroethane	UG/KG	100	-	NA	NA	5 U	6 U	NA
1,2-Dichloroethene (cis)	UG/KG	300	-	NA	NA	5 U	6 U	NA
1,2-Dichloroethene (trans)	UG/KG	300	-	NA	NA	5 U	6 U	NA
1,2-Dichloropropane	UG/KG	-	-	NA	NA	5 U	6 U	NA
1,3-Dichlorobenzene	UG/KG	600	-	NA	NA	5 U	6 U	NA
1,3-Dichloropropene (cis)	UG/KG	300	-	NA	NA	5 U	6 U	NA
1,3-Dichloropropene (trans)	UG/KG	300	-	NA	NA	5 U	6 U	NA
1,4-Dichlorobenzene	UG/KG	8500	-	NA	NA	5 U	6 U	NA
2-Hexanone	UG/KG	-	-	NA	NA	27 U	31 U	NA
4-Methyl-2-pentanone	UG/KG	1000	-	NA	NA	27 U	31 U	NA
Acetone	UG/KG	200	-	NA	NA	27 U	31 U	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-07	SS-07	SS-07	SS-07	SS-08
Sample ID				FD-SS-050508	SS-07-0-2"	SS-07-0.2-1.0	SS-07-1.0-2.0	SS-08-0-2"
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.2	0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2
Date Sampled				05/05/08	05/05/08	05/06/08	05/06/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	Field Duplicate (0-1)				
Volatile Organic Compounds								
Benzene	UG/KG	60	-	NA	NA	5 U	6 U	NA
Bromodichloromethane	UG/KG	-	-	NA	NA	5 U	6 U	NA
Bromoform	UG/KG	-	-	NA	NA	5 U	6 U	NA
Bromomethane	UG/KG	-	-	NA	NA	5 U	6 U	NA
Carbon disulfide	UG/KG	2700	-	NA	NA	5 U	6 U	NA
Carbon tetrachloride	UG/KG	600	-	NA	NA	5 U	6 U	NA
Chlorobenzene	UG/KG	1700	-	NA	NA	5 U	6 U	NA
Chloroethane	UG/KG	1900	-	NA	NA	5 U	6 U	NA
Chloroform	UG/KG	300	-	NA	NA	5 U	6 U	NA
Chloromethane	UG/KG	-	-	NA	NA	5 U	6 U	NA
Cyclohexane	UG/KG	-	-	NA	NA	5 U	6 U	NA
Dibromochloromethane	UG/KG	-	-	NA	NA	5 U	6 U	NA
Dichlorodifluoromethane	UG/KG	-	-	NA	NA	5 U	6 U	NA
Ethylbenzene	UG/KG	5500	-	NA	NA	5 U	6 U	NA
Isopropylbenzene (Cumene)	UG/KG	2300	-	NA	NA	5 U	6 U	NA
Methyl acetate	UG/KG	-	-	NA	NA	5 U	6 U	NA
Methyl ethyl ketone (2-Butanone)	UG/KG	300	-	NA	NA	27 U	31 U	NA
Methyl tert-butyl ether	UG/KG	120	-	NA	NA	5 U	6 U	NA
Methylcyclohexane	UG/KG	-	-	NA	NA	5 U	6 U	NA
Methylene chloride	UG/KG	100	-	NA	NA	5 U	6 U	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

Advanced Selection: 2008 SS
N:\11174305.00000\DB\Program\EDMS.mdb
Printed: 8/13/2008 9:17:46 AM
[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SS

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-07	SS-07	SS-07	SS-07	SS-08
Sample ID				FD-SS-050508	SS-07-0-2"	SS-07-0.2-1.0	SS-07-1.0-2.0	SS-08-0-2"
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.2	0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2
Date Sampled				05/05/08	05/05/08	05/06/08	05/06/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	Field Duplicate (0-1)				
Volatile Organic Compounds								
Styrene	UG/KG	-	-	NA	NA	5 U	6 U	NA
Tetrachloroethene	UG/KG	1400	-	NA	NA	5 U	6 U	NA
Toluene	UG/KG	1500	-	NA	NA	5 U	6 U	NA
1,1,1-Trichloroethane	UG/KG	800	-	NA	NA	5 U	6 U	NA
Trichloroethene	UG/KG	700	-	NA	NA	5 U	6 U	NA
Trichlorofluoromethane	UG/KG	-	-	NA	NA	5 U	6 U	NA
Vinyl chloride	UG/KG	200	-	NA	NA	11 U	12 U	NA
Xylene (total)	UG/KG	1200	-	NA	NA	16 U	18 U	NA
Total BTEX	UG/KG	-	-	NA	NA	ND	ND	NA
Total Volatile Organic Compounds	UG/KG	10000	-	NA	NA	ND	ND	NA
Semivolatile Organic Compounds								
1,1'-Biphenyl	UG/KG	50000	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
2,2'-oxybis(2-Chloropropane)	UG/KG	50000	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
2,4,5-Trichlorophenol	UG/KG	100	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
2,4,6-Trichlorophenol	UG/KG	50000	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
2,4-Dichlorophenol	UG/KG	400	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
2,4-Dimethylphenol	UG/KG	50000	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
2,4-Dinitrophenol	UG/KG	200 or MDL	-	2,100 U	2,200 U	4,000 U	1,900 U	410 U
2,4-Dinitrotoluene	UG/KG	50000	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
2,6-Dinitrotoluene	UG/KG	1000	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

Advanced Selection: 2008 SS
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[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SS

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-07	SS-07	SS-07	SS-07	SS-08
Sample ID				FD-SS-050508	SS-07-0-2"	SS-07-0.2-1.0	SS-07-1.0-2.0	SS-08-0-2"
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.2	0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2
Date Sampled				05/05/08	05/05/08	05/06/08	05/06/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	Field Duplicate (0-1)				
Semivolatile Organic Compounds								
2-Chloronaphthalene	UG/KG	50000	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
2-Chlorophenol	UG/KG	800	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
2-Methylnaphthalene	UG/KG	36400	-	1,100 U	130 J	2,000 U	1,000 U	210 U
2-Methylphenol (o-cresol)	UG/KG	100 or MDL	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
2-Nitroaniline	UG/KG	430 or MDL	-	2,100 U	2,200 U	4,000 U	1,900 U	410 U
2-Nitrophenol	UG/KG	330 or MDL	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
3,3'-Dichlorobenzidine	UG/KG	50000	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
3-Nitroaniline	UG/KG	500 or MDL	-	2,100 U	2,200 U	4,000 U	1,900 U	410 U
4,6-Dinitro-2-methylphenol	UG/KG	50000	-	2,100 U	2,200 U	4,000 U	1,900 U	410 U
4-Bromophenyl-phenylether	UG/KG	50000	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
4-Chloro-3-methylphenol	UG/KG	240 or MDL	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
4-Chloroaniline	UG/KG	220 or MDL	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
4-Chlorophenyl-phenylether	UG/KG	50000	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
4-Methylphenol (p-cresol)	UG/KG	900	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
4-Nitroaniline	UG/KG	50000	-	2,100 U	2,200 U	4,000 U	1,900 U	410 U
4-Nitrophenol	UG/KG	100 or MDL	-	2,100 U	2,200 U	4,000 U	1,900 U	410 U
Acenaphthene	UG/KG	50000	-	1,100 U	430 J	400 J	61 J	210 U
Acenaphthylene	UG/KG	41000	-	1,100 U	180 J	230 J	290 J	210 U
Acetophenone	UG/KG	50000	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
Anthracene	UG/KG	50000	-	130 J	1,400	1,600 J	510 J	29 J

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-07	SS-07	SS-07	SS-07	SS-08
Sample ID				FD-SS-050508	SS-07-0-2"	SS-07-0.2-1.0	SS-07-1.0-2.0	SS-08-0-2"
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.2	0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2
Date Sampled				05/05/08	05/05/08	05/06/08	05/06/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	Field Duplicate (0-1)				
Semivolatile Organic Compounds								
Atrazine	UG/KG	50000	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
Benzaldehyde	UG/KG	50000	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
Benzo(a)anthracene	UG/KG	224 or MDL	-	520 J	2,000	4,900	2,000	120 J
Benzo(a)pyrene	UG/KG	61 or MDL	-	470 J	1,400	3,900	1,500	100 J
Benzo(b)fluoranthene	UG/KG	1100	-	640 J	2,100	5,700	2,000	160 J
Benzo(g,h,i)perylene	UG/KG	50000	-	280 J	970 J	2,100	720 J	77 J
Benzo(k)fluoranthene	UG/KG	1100	-	290 J	600 J	1,600 J	580 J	42 J
bis(2-Chloroethoxy)methane	UG/KG	50000	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
bis(2-Chloroethyl)ether	UG/KG	50000	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
bis(2-Ethylhexyl)phthalate	UG/KG	50000	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
Butylbenzylphthalate	UG/KG	50000	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
Caprolactam	UG/KG	50000	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
Carbazole	UG/KG	50000	-	1,100 U	500 J	580 J	160 J	15 J
Chrysene	UG/KG	400	-	600 J	2,000	4,900	1,800	140 J
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	86 J	290 J	660 J	270 J	24 J
Dibenzofuran	UG/KG	6200	-	1,100 U	420 J	250 J	74 J	210 U
Diethylphthalate	UG/KG	7100	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
Dimethylphthalate	UG/KG	2000	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
Di-n-butylphthalate	UG/KG	8100	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
Di-n-octylphthalate	UG/KG	50000	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

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[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SS

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-07	SS-07	SS-07	SS-07	SS-08
Sample ID				FD-SS-050508	SS-07-0-2"	SS-07-0.2-1.0	SS-07-1.0-2.0	SS-08-0-2"
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.2	0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2
Date Sampled				05/05/08	05/05/08	05/06/08	05/06/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	Field Duplicate (0-1)				
Semivolatile Organic Compounds								
Fluoranthene	UG/KG	50000	-	1,400	5,800	13,000	4,200	310
Fluorene	UG/KG	50000	-	1,100 U	790 J	510 J	160 J	210 U
Hexachlorobenzene	UG/KG	410	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
Hexachlorobutadiene	UG/KG	50000	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
Hexachlorocyclopentadiene	UG/KG	50000	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
Hexachloroethane	UG/KG	50000	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	290 J	940 J	2,000	740 J	69 J
Isophorone	UG/KG	4400	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
Naphthalene	UG/KG	13000	-	1,100 U	150 J	2,000 U	110 J	210 U
Nitrobenzene	UG/KG	200 or MDL	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
N-Nitroso-di-n-propylamine	UG/KG	50000	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
N-Nitrosodiphenylamine	UG/KG	50000	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
Pentachlorophenol	UG/KG	1000 or MDL	-	2,100 U	2,200 U	4,000 U	1,900 U	410 U
Phenanthrene	UG/KG	50000	-	690 J	5,500	7,700	2,200	150 J
Phenol	UG/KG	30 or MDL	-	1,100 U	1,100 U	2,000 U	1,000 U	210 U
Pyrene	UG/KG	50000	-	970 J	3,800	8,400	3,000	230
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	6,366	28,350	57,600	20,141	1,451
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	6,366	29,400	58,430	20,375	1,466
Metals								
Arsenic	MG/KG	7.5	3-12	7.4	8.2	8.8	7.1	6.8

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-07	SS-07	SS-07	SS-07	SS-08
Sample ID				FD-SS-050508	SS-07-0-2"	SS-07-0.2-1.0	SS-07-1.0-2.0	SS-08-0-2"
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.2	0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2
Date Sampled				05/05/08	05/05/08	05/06/08	05/06/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	Field Duplicate (0-1)				
Metals								
Barium	MG/KG	300	15-600	98.4	101	98.2 J	81.0 J	87.3
Cadmium	MG/KG	1	0.1-1	0.49	0.46	1.1	0.40	0.26
Chromium	MG/KG	10	1.5-40	26.7	16.5	22.5 J	17.4 J	14.3
Lead	MG/KG	SB	500	133	75.6	386 J	90.9 J	23.7
Mercury	MG/KG	0.1	0.001-0.2	0.166	0.118	0.537 J	0.498 J	0.075
Selenium	MG/KG	2	0.1-3.9	5.2 U	5.3 U	4.9 U	4.7 U	4.8 U
Silver	MG/KG	SB	-	0.65 U	0.66 U	0.61 U	0.59 U	0.60 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
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[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SS

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-08	SS-08	SS-09	SS-09	SS-09
Sample ID				SS-08-0.2-1.0	SS-08-1.0-2.0	SS-09-0-2"	SS-09-0.2-1.0	SS-09-1.0-2.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0
Date Sampled				05/06/08	05/06/08	05/05/08	05/06/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	UG/KG	600	-	7 U	6 U	NA	6 U	6 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	6000	-	7 U	6 U	NA	6 U	6 U
1,1,2-Trichloroethane	UG/KG	-	-	7 U	6 U	NA	6 U	6 U
1,1-Dichloroethane	UG/KG	200	-	7 U	6 U	NA	6 U	6 U
1,1-Dichloroethene	UG/KG	400	-	7 U	6 U	NA	6 U	6 U
1,2,4-Trichlorobenzene	UG/KG	3400	-	7 U	6 U	NA	6 U	6 U
1,2-Dibromo-3-chloropropane	UG/KG	-	-	7 U	6 U	NA	6 U	6 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	-	-	7 U	6 U	NA	6 U	6 U
1,2-Dichlorobenzene	UG/KG	7900	-	7 U	6 U	NA	6 U	6 U
1,2-Dichloroethane	UG/KG	100	-	7 U	6 U	NA	6 U	6 U
1,2-Dichloroethene (cis)	UG/KG	300	-	7 U	6 U	NA	6 U	6 U
1,2-Dichloroethene (trans)	UG/KG	300	-	7 U	6 U	NA	6 U	6 U
1,2-Dichloropropane	UG/KG	-	-	7 U	6 U	NA	6 U	6 U
1,3-Dichlorobenzene	UG/KG	600	-	7 U	6 U	NA	6 U	6 U
1,3-Dichloropropene (cis)	UG/KG	300	-	7 U	6 U	NA	6 U	6 U
1,3-Dichloropropene (trans)	UG/KG	300	-	7 U	6 U	NA	6 U	6 U
1,4-Dichlorobenzene	UG/KG	8500	-	7 U	6 U	NA	6 U	6 U
2-Hexanone	UG/KG	-	-	33 U	28 U	NA	30 U	29 U
4-Methyl-2-pentanone	UG/KG	1000	-	33 U	28 U	NA	30 U	29 U
Acetone	UG/KG	200	-	33 U	28 U	NA	30 U	29 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
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TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-08	SS-08	SS-09	SS-09	SS-09
Sample ID				SS-08-0.2-1.0	SS-08-1.0-2.0	SS-09-0-2"	SS-09-0.2-1.0	SS-09-1.0-2.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0
Date Sampled				05/06/08	05/06/08	05/05/08	05/06/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
Benzene	UG/KG	60	-	7 U	6 U	NA	6 U	6 U
Bromodichloromethane	UG/KG	-	-	7 U	6 U	NA	6 U	6 U
Bromoform	UG/KG	-	-	7 U	6 U	NA	6 U	6 U
Bromomethane	UG/KG	-	-	7 U	6 U	NA	6 U	6 U
Carbon disulfide	UG/KG	2700	-	7 U	6 U	NA	6 U	6 U
Carbon tetrachloride	UG/KG	600	-	7 U	6 U	NA	6 U	6 U
Chlorobenzene	UG/KG	1700	-	7 U	6 U	NA	6 U	6 U
Chloroethane	UG/KG	1900	-	7 U	6 U	NA	6 U	6 U
Chloroform	UG/KG	300	-	7 U	6 U	NA	6 U	6 U
Chloromethane	UG/KG	-	-	7 U	6 U	NA	6 U	6 U
Cyclohexane	UG/KG	-	-	7 U	6 U	NA	6 U	6 U
Dibromochloromethane	UG/KG	-	-	7 U	6 U	NA	6 U	6 U
Dichlorodifluoromethane	UG/KG	-	-	7 U	6 U	NA	6 U	6 U
Ethylbenzene	UG/KG	5500	-	7 U	6 U	NA	6 U	6 U
Isopropylbenzene (Cumene)	UG/KG	2300	-	7 U	6 U	NA	6 U	6 U
Methyl acetate	UG/KG	-	-	7 U	6 U	NA	6 U	6 U
Methyl ethyl ketone (2-Butanone)	UG/KG	300	-	33 U	28 U	NA	30 U	29 U
Methyl tert-butyl ether	UG/KG	120	-	7 U	6 U	NA	6 U	6 U
Methylcyclohexane	UG/KG	-	-	7 U	6 U	NA	6 U	6 U
Methylene chloride	UG/KG	100	-	7 U	6 U	NA	6 U	7 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

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TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-08	SS-08	SS-09	SS-09	SS-09
Sample ID				SS-08-0.2-1.0	SS-08-1.0-2.0	SS-09-0-2"	SS-09-0.2-1.0	SS-09-1.0-2.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0
Date Sampled				05/06/08	05/06/08	05/05/08	05/06/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
Styrene	UG/KG	-	-	7 U	6 U	NA	6 U	6 U
Tetrachloroethene	UG/KG	1400	-	7 U	6 U	NA	6 U	6 U
Toluene	UG/KG	1500	-	7 U	6 U	NA	6 U	6 U
1,1,1-Trichloroethane	UG/KG	800	-	7 U	6 U	NA	6 U	6 U
Trichloroethene	UG/KG	700	-	7 U	6 U	NA	6 U	6 U
Trichlorofluoromethane	UG/KG	-	-	7 U	6 U	NA	6 U	6 U
Vinyl chloride	UG/KG	200	-	13 U	11 U	NA	12 U	12 U
Xylene (total)	UG/KG	1200	-	20 U	17 U	NA	18 U	17 U
Total BTEX	UG/KG	-	-	ND	ND	NA	ND	ND
Total Volatile Organic Compounds	UG/KG	10000	-	ND	ND	NA	ND	ND
Semivolatile Organic Compounds								
1,1'-Biphenyl	UG/KG	50000	-	1,100 U	230 U	220 U	1,000 U	200 U
2,2'-oxybis(2-Chloropropane)	UG/KG	50000	-	1,100 U	230 U	220 U	1,000 U	200 U
2,4,5-Trichlorophenol	UG/KG	100	-	1,100 U	230 U	220 U	1,000 U	200 U
2,4,6-Trichlorophenol	UG/KG	50000	-	1,100 U	230 U	220 U	1,000 U	200 U
2,4-Dichlorophenol	UG/KG	400	-	1,100 U	230 U	220 U	1,000 U	200 U
2,4-Dimethylphenol	UG/KG	50000	-	1,100 U	230 U	220 U	1,000 U	200 U
2,4-Dinitrophenol	UG/KG	200 or MDL	-	2,200 U	440 U	420 U	2,000 U	380 U
2,4-Dinitrotoluene	UG/KG	50000	-	1,100 U	230 U	220 U	1,000 U	200 U
2,6-Dinitrotoluene	UG/KG	1000	-	1,100 U	230 U	220 U	1,000 U	200 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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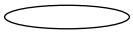
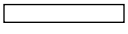


Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

Advanced Selection: 2008 SS
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[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SS

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-08	SS-08	SS-09	SS-09	SS-09
Sample ID				SS-08-0.2-1.0	SS-08-1.0-2.0	SS-09-0-2"	SS-09-0.2-1.0	SS-09-1.0-2.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0
Date Sampled				05/06/08	05/06/08	05/05/08	05/06/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
2-Chloronaphthalene	UG/KG	50000	-	1,100 U	230 U	220 U	1,000 U	200 U
2-Chlorophenol	UG/KG	800	-	1,100 U	230 U	220 U	1,000 U	200 U
2-Methylnaphthalene	UG/KG	36400	-	1,100 U	230 U	220 U	86 J	17 J
2-Methylphenol (o-cresol)	UG/KG	100 or MDL	-	1,100 U	230 U	220 U	1,000 U	200 U
2-Nitroaniline	UG/KG	430 or MDL	-	2,200 U	440 U	420 U	2,000 U	380 U
2-Nitrophenol	UG/KG	330 or MDL	-	1,100 U	230 U	220 U	1,000 U	200 U
3,3'-Dichlorobenzidine	UG/KG	50000	-	1,100 U	230 U	220 U	1,000 U	200 U
3-Nitroaniline	UG/KG	500 or MDL	-	2,200 U	440 U	420 U	2,000 U	380 U
4,6-Dinitro-2-methylphenol	UG/KG	50000	-	2,200 U	440 U	420 U	2,000 U	380 U
4-Bromophenyl-phenylether	UG/KG	50000	-	1,100 U	230 U	220 U	1,000 U	200 U
4-Chloro-3-methylphenol	UG/KG	240 or MDL	-	1,100 U	230 U	220 U	1,000 U	200 U
4-Chloroaniline	UG/KG	220 or MDL	-	1,100 U	230 U	220 U	1,000 U	200 U
4-Chlorophenyl-phenylether	UG/KG	50000	-	1,100 U	230 U	220 U	1,000 U	200 U
4-Methylphenol (p-cresol)	UG/KG	900	-	1,100 U	230 U	220 U	1,000 U	200 U
4-Nitroaniline	UG/KG	50000	-	2,200 U	440 U	420 U	2,000 U	380 U
4-Nitrophenol	UG/KG	100 or MDL	-	2,200 U	440 U	420 U	2,000 U	380 U
Acenaphthene	UG/KG	50000	-	1,100 U	230 U	15 J	100 J	31 J
Acenaphthylene	UG/KG	41000	-	1,100 U	43 J	220 U	200 J	95 J
Acetophenone	UG/KG	50000	-	1,100 U	230 U	220 U	1,000 U	200 U
Anthracene	UG/KG	50000	-	76 J	41 J	51 J	290 J	160 J

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

Advanced Selection: 2008 SS
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[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SS

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

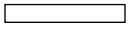
Location ID				SS-08	SS-08	SS-09	SS-09	SS-09
Sample ID				SS-08-0.2-1.0	SS-08-1.0-2.0	SS-09-0-2"	SS-09-0.2-1.0	SS-09-1.0-2.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0
Date Sampled				05/06/08	05/06/08	05/05/08	05/06/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Atrazine	UG/KG	50000	-	1,100 U	230 U	220 U	1,000 U	200 U
Benzaldehyde	UG/KG	50000	-	1,100 U	230 U	220 U	1,000 U	200 U
Benzo(a)anthracene	UG/KG	224 or MDL	-	400 J	240	200 J	1,300	630
Benzo(a)pyrene	UG/KG	61 or MDL	-	340 J	200 J	160 J	1,200	490
Benzo(b)fluoranthene	UG/KG	1100	-	420 J	260	220	1,600	660
Benzo(g,h,i)perylene	UG/KG	50000	-	180 J	110 J	120 J	730 J	320
Benzo(k)fluoranthene	UG/KG	1100	-	160 J	92 J	90 J	540 J	230
bis(2-Chloroethoxy)methane	UG/KG	50000	-	1,100 U	230 U	220 U	1,000 U	200 U
bis(2-Chloroethyl)ether	UG/KG	50000	-	1,100 U	230 U	220 U	1,000 U	200 U
bis(2-Ethylhexyl)phthalate	UG/KG	50000	-	1,100 U	230 U	220 U	1,000 U	200 U
Butylbenzylphthalate	UG/KG	50000	-	1,100 U	230 U	220 U	1,000 U	200 U
Caprolactam	UG/KG	50000	-	1,100 U	230 U	220 U	1,000 U	200 U
Carbazole	UG/KG	50000	-	1,100 U	16 J	22 J	390 J	99 J
Chrysene	UG/KG	400	-	1,100 U	240	230	1,500	600
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	60 J	42 J	34 J	210 J	98 J
Dibenzofuran	UG/KG	6200	-	1,100 U	230 U	9 J	160 J	40 J
Diethylphthalate	UG/KG	7100	-	1,100 U	230 U	220 U	1,000 U	200 U
Dimethylphthalate	UG/KG	2000	-	1,100 U	230 U	220 U	1,000 U	200 U
Di-n-butylphthalate	UG/KG	8100	-	1,100 U	230 U	220 U	1,000 U	200 U
Di-n-octylphthalate	UG/KG	50000	-	1,100 U	230 U	220 U	1,000 U	200 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-08	SS-08	SS-09	SS-09	SS-09
Sample ID				SS-08-0.2-1.0	SS-08-1.0-2.0	SS-09-0-2"	SS-09-0.2-1.0	SS-09-1.0-2.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0
Date Sampled				05/06/08	05/06/08	05/05/08	05/06/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Fluoranthene	UG/KG	50000	-	710 J	440	560	3,600	1,400
Fluorene	UG/KG	50000	-	1,100 U	230 U	23 J	140 J	67 J
Hexachlorobenzene	UG/KG	410	-	1,100 U	230 U	220 U	1,000 U	200 U
Hexachlorobutadiene	UG/KG	50000	-	1,100 U	230 U	220 U	1,000 U	200 U
Hexachlorocyclopentadiene	UG/KG	50000	-	1,100 U	230 U	220 U	1,000 U	200 U
Hexachloroethane	UG/KG	50000	-	1,100 U	230 U	220 U	1,000 U	200 U
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	180 J	110 J	110 J	710 J	300
Isophorone	UG/KG	4400	-	1,100 U	230 U	220 U	1,000 U	200 U
Naphthalene	UG/KG	13000	-	1,100 U	230 U	220 U	340 J	52 J
Nitrobenzene	UG/KG	200 or MDL	-	1,100 U	230 U	220 U	1,000 U	200 U
N-Nitroso-di-n-propylamine	UG/KG	50000	-	1,100 U	230 U	220 U	1,000 U	200 U
N-Nitrosodiphenylamine	UG/KG	50000	-	1,100 U	230 U	220 U	1,000 U	200 U
Pentachlorophenol	UG/KG	1000 or MDL	-	2,200 U	440 U	420 U	2,000 U	380 U
Phenanthrene	UG/KG	50000	-	300 J	140 J	340	3,100	920
Phenol	UG/KG	30 or MDL	-	1,100 U	230 U	220 U	1,000 U	200 U
Pyrene	UG/KG	50000	-	550 J	350	400	2,900	1,100
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	3,376	2,308	2,553	18,460	7,153
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	3,376	2,324	2,584	19,096	7,309
Metals								
Arsenic	MG/KG	7.5	3-12	11.5	10.6	7.1	9.9	7.9

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

Advanced Selection: 2008 SS
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[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SS

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-08	SS-08	SS-09	SS-09	SS-09
Sample ID				SS-08-0.2-1.0	SS-08-1.0-2.0	SS-09-0-2"	SS-09-0.2-1.0	SS-09-1.0-2.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0
Date Sampled				05/06/08	05/06/08	05/05/08	05/06/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Barium	MG/KG	300	15-600	165 J	138 J	89.3	98.1 J	91.7 J
Cadmium	MG/KG	1	0.1-1	0.95	0.82	0.28	0.30	0.39
Chromium	MG/KG	10	1.5-40	22.6 J	26.1 J	14.8	17.1 J	17.2 J
Lead	MG/KG	SB	500	181 J	126 J	23.8	88.3 J	66.3 J
Mercury	MG/KG	0.1	0.001-0.2	2.3 J	1.7 J	0.130	0.155 J	0.289 J
Selenium	MG/KG	2	0.1-3.9	5.5 U	5.3 U	5.4 U	5.1 U	4.8 U
Silver	MG/KG	SB	-	0.69 U	0.66 U	0.67 U	0.64 U	0.60 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-10	SS-10	SS-10	SS-10	SS-11
Sample ID				SS-10-0-2"	FD-SS-050608	SS-10-0.2-1.0	SS-10-1.0-2.0	SS-11-0-2"
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.2	0.2-1.0	0.2-1.0	1.0-2.0	0.0-0.2
Date Sampled				05/05/08	05/06/08	05/06/08	05/06/08	05/05/08
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (0-1)			
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	UG/KG	600	-	NA	6 U	6 U	6 U	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	6000	-	NA	6 U	6 U	6 U	NA
1,1,2-Trichloroethane	UG/KG	-	-	NA	6 U	6 U	6 U	NA
1,1-Dichloroethane	UG/KG	200	-	NA	6 U	6 U	6 U	NA
1,1-Dichloroethene	UG/KG	400	-	NA	6 U	6 U	6 U	NA
1,2,4-Trichlorobenzene	UG/KG	3400	-	NA	6 U	6 U	6 U	NA
1,2-Dibromo-3-chloropropane	UG/KG	-	-	NA	6 U	6 U	6 U	NA
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	-	-	NA	6 U	6 U	6 U	NA
1,2-Dichlorobenzene	UG/KG	7900	-	NA	6 U	6 U	6 U	NA
1,2-Dichloroethane	UG/KG	100	-	NA	6 U	6 U	6 U	NA
1,2-Dichloroethene (cis)	UG/KG	300	-	NA	6 U	6 U	6 U	NA
1,2-Dichloroethene (trans)	UG/KG	300	-	NA	6 U	6 U	6 U	NA
1,2-Dichloropropane	UG/KG	-	-	NA	6 U	6 U	6 U	NA
1,3-Dichlorobenzene	UG/KG	600	-	NA	6 U	6 U	6 U	NA
1,3-Dichloropropene (cis)	UG/KG	300	-	NA	6 U	6 U	6 U	NA
1,3-Dichloropropene (trans)	UG/KG	300	-	NA	6 U	6 U	6 U	NA
1,4-Dichlorobenzene	UG/KG	8500	-	NA	6 U	6 U	6 U	NA
2-Hexanone	UG/KG	-	-	NA	29 U	30 U	28 U	NA
4-Methyl-2-pentanone	UG/KG	1000	-	NA	29 U	30 U	28 U	NA
Acetone	UG/KG	200	-	NA	29 U	30 U	28 U	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-10	SS-10	SS-10	SS-10	SS-11
Sample ID				SS-10-0-2"	FD-SS-050608	SS-10-0.2-1.0	SS-10-1.0-2.0	SS-11-0-2"
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.2	0.2-1.0	0.2-1.0	1.0-2.0	0.0-0.2
Date Sampled				05/05/08	05/06/08	05/06/08	05/06/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		Field Duplicate (0-1)			
Volatile Organic Compounds								
Benzene	UG/KG	60	-	NA	6 U	6 U	6 U	NA
Bromodichloromethane	UG/KG	-	-	NA	6 U	6 U	6 U	NA
Bromoform	UG/KG	-	-	NA	6 U	6 U	6 U	NA
Bromomethane	UG/KG	-	-	NA	6 U	6 U	6 U	NA
Carbon disulfide	UG/KG	2700	-	NA	6 U	6 U	6 U	NA
Carbon tetrachloride	UG/KG	600	-	NA	6 U	6 U	6 U	NA
Chlorobenzene	UG/KG	1700	-	NA	6 U	6 U	6 U	NA
Chloroethane	UG/KG	1900	-	NA	6 U	6 U	6 U	NA
Chloroform	UG/KG	300	-	NA	6 U	6 U	6 U	NA
Chloromethane	UG/KG	-	-	NA	6 U	6 U	6 U	NA
Cyclohexane	UG/KG	-	-	NA	6 U	6 U	6 U	NA
Dibromochloromethane	UG/KG	-	-	NA	6 U	6 U	6 U	NA
Dichlorodifluoromethane	UG/KG	-	-	NA	6 U	6 U	6 U	NA
Ethylbenzene	UG/KG	5500	-	NA	6 U	6 U	6 U	NA
Isopropylbenzene (Cumene)	UG/KG	2300	-	NA	6 U	6 U	6 U	NA
Methyl acetate	UG/KG	-	-	NA	6 U	6 U	6 U	NA
Methyl ethyl ketone (2-Butanone)	UG/KG	300	-	NA	29 U	30 U	28 U	NA
Methyl tert-butyl ether	UG/KG	120	-	NA	6 U	6 U	6 U	NA
Methylcyclohexane	UG/KG	-	-	NA	6 U	6 U	6 U	NA
Methylene chloride	UG/KG	100	-	NA	6 U	6 U	6 U	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

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TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-10	SS-10	SS-10	SS-10	SS-11
Sample ID				SS-10-0-2"	FD-SS-050608	SS-10-0.2-1.0	SS-10-1.0-2.0	SS-11-0-2"
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.2	0.2-1.0	0.2-1.0	1.0-2.0	0.0-0.2
Date Sampled				05/05/08	05/06/08	05/06/08	05/06/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		Field Duplicate (0-1)			
Volatile Organic Compounds								
Styrene	UG/KG	-	-	NA	6 U	6 U	6 U	NA
Tetrachloroethene	UG/KG	1400	-	NA	6 U	6 U	6 U	NA
Toluene	UG/KG	1500	-	NA	6 U	6 U	6 U	NA
1,1,1-Trichloroethane	UG/KG	800	-	NA	6 U	6 U	6 U	NA
Trichloroethene	UG/KG	700	-	NA	6 U	6 U	6 U	NA
Trichlorofluoromethane	UG/KG	-	-	NA	6 U	6 U	6 U	NA
Vinyl chloride	UG/KG	200	-	NA	12 U	12 U	11 U	NA
Xylene (total)	UG/KG	1200	-	NA	17 U	18 U	17 U	NA
Total BTEX	UG/KG	-	-	NA	ND	ND	ND	NA
Total Volatile Organic Compounds	UG/KG	10000	-	NA	ND	ND	ND	NA
Semivolatile Organic Compounds								
1,1'-Biphenyl	UG/KG	50000	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
2,2'-oxybis(2-Chloropropane)	UG/KG	50000	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
2,4,5-Trichlorophenol	UG/KG	100	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
2,4,6-Trichlorophenol	UG/KG	50000	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
2,4-Dichlorophenol	UG/KG	400	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
2,4-Dimethylphenol	UG/KG	50000	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
2,4-Dinitrophenol	UG/KG	200 or MDL	-	2,300 U	4,300 U	4,300 U	370 U	4,000 U
2,4-Dinitrotoluene	UG/KG	50000	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
2,6-Dinitrotoluene	UG/KG	1000	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-10	SS-10	SS-10	SS-10	SS-11
Sample ID				SS-10-0-2"	FD-SS-050608	SS-10-0.2-1.0	SS-10-1.0-2.0	SS-11-0-2"
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.2	0.2-1.0	0.2-1.0	1.0-2.0	0.0-0.2
Date Sampled				05/05/08	05/06/08	05/06/08	05/06/08	05/05/08
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (0-1)			
Semivolatile Organic Compounds								
2-Chloronaphthalene	UG/KG	50000	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
2-Chlorophenol	UG/KG	800	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
2-Methylnaphthalene	UG/KG	36400	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
2-Methylphenol (o-cresol)	UG/KG	100 or MDL	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
2-Nitroaniline	UG/KG	430 or MDL	-	2,300 U	4,300 U	4,300 U	370 U	4,000 U
2-Nitrophenol	UG/KG	330 or MDL	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
3,3'-Dichlorobenzidine	UG/KG	50000	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
3-Nitroaniline	UG/KG	500 or MDL	-	2,300 U	4,300 U	4,300 U	370 U	4,000 U
4,6-Dinitro-2-methylphenol	UG/KG	50000	-	2,300 U	4,300 U	4,300 U	370 U	4,000 U
4-Bromophenyl-phenylether	UG/KG	50000	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
4-Chloro-3-methylphenol	UG/KG	240 or MDL	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
4-Chloroaniline	UG/KG	220 or MDL	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
4-Chlorophenyl-phenylether	UG/KG	50000	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
4-Methylphenol (p-cresol)	UG/KG	900	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
4-Nitroaniline	UG/KG	50000	-	2,300 U	4,300 U	4,300 U	370 U	4,000 U
4-Nitrophenol	UG/KG	100 or MDL	-	2,300 U	4,300 U	4,300 U	370 U	4,000 U
Acenaphthene	UG/KG	50000	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
Acenaphthylene	UG/KG	41000	-	110 J	2,200 U	2,200 U	83 J	2,000 U
Acetophenone	UG/KG	50000	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
Anthracene	UG/KG	50000	-	160 J	220 J	300 J	100 J	260 J

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

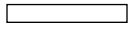
Location ID				SS-10	SS-10	SS-10	SS-10	SS-11
Sample ID				SS-10-0-2"	FD-SS-050608	SS-10-0.2-1.0	SS-10-1.0-2.0	SS-11-0-2"
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.2	0.2-1.0	0.2-1.0	1.0-2.0	0.0-0.2
Date Sampled				05/05/08	05/06/08	05/06/08	05/06/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		Field Duplicate (0-1)			
Semivolatile Organic Compounds								
Atrazine	UG/KG	50000	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
Benzaldehyde	UG/KG	50000	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
Benzo(a)anthracene	UG/KG	224 or MDL	-	880 J	1,400 J	1,400 J	640	750 J
Benzo(a)pyrene	UG/KG	61 or MDL	-	770 J	1,200 J	1,100 J	520	600 J
Benzo(b)fluoranthene	UG/KG	1100	-	1,000 J	1,600 J	1,500 J	650	740 J
Benzo(g,h,i)perylene	UG/KG	50000	-	470 J	900 J	700 J	380	410 J
Benzo(k)fluoranthene	UG/KG	1100	-	280 J	530 J	510 J	240	380 J
bis(2-Chloroethoxy)methane	UG/KG	50000	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
bis(2-Chloroethyl)ether	UG/KG	50000	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
bis(2-Ethylhexyl)phthalate	UG/KG	50000	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
Butylbenzylphthalate	UG/KG	50000	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
Caprolactam	UG/KG	50000	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
Carbazole	UG/KG	50000	-	54 J	2,200 U	2,200 U	36 J	2,000 U
Chrysene	UG/KG	400	-	830 J	1,300 J	2,200 U	560	800 J
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	150 J	320 J	220 J	150 J	130 J
Dibenzofuran	UG/KG	6200	-	1,200 U	2,200 U	2,200 U	9 J	2,000 U
Diethylphthalate	UG/KG	7100	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
Dimethylphthalate	UG/KG	2000	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
Di-n-butylphthalate	UG/KG	8100	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
Di-n-octylphthalate	UG/KG	50000	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

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[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SS

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-10	SS-10	SS-10	SS-10	SS-11
Sample ID				SS-10-0-2"	FD-SS-050608	SS-10-0.2-1.0	SS-10-1.0-2.0	SS-11-0-2"
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.2	0.2-1.0	0.2-1.0	1.0-2.0	0.0-0.2
Date Sampled				05/05/08	05/06/08	05/06/08	05/06/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		Field Duplicate (0-1)			
Semivolatile Organic Compounds								
Fluoranthene	UG/KG	50000	-	1,800	2,500	2,700	1,100	1,800 J
Fluorene	UG/KG	50000	-	1,200 U	2,200 U	2,200 U	21 J	2,000 U
Hexachlorobenzene	UG/KG	410	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
Hexachlorobutadiene	UG/KG	50000	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
Hexachlorocyclopentadiene	UG/KG	50000	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
Hexachloroethane	UG/KG	50000	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	460 J	790 J	730 J	340	380 J
Isophorone	UG/KG	4400	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
Naphthalene	UG/KG	13000	-	1,200 U	2,200 U	2,200 U	20 J	2,000 U
Nitrobenzene	UG/KG	200 or MDL	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
N-Nitroso-di-n-propylamine	UG/KG	50000	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
N-Nitrosodiphenylamine	UG/KG	50000	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
Pentachlorophenol	UG/KG	1000 or MDL	-	2,300 U	4,300 U	4,300 U	370 U	4,000 U
Phenanthrene	UG/KG	50000	-	560 J	740 J	1,000 J	310	1,000 J
Phenol	UG/KG	30 or MDL	-	1,200 U	2,200 U	2,200 U	190 U	2,000 U
Pyrene	UG/KG	50000	-	1,400	2,100 J	2,200	940	1,300 J
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	8,870	13,600	12,360	6,054	8,550
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	8,924	13,600	12,360	6,099	8,550
Metals								
Arsenic	MG/KG	7.5	3-12	10.6	4.8	11.8	5.1	7.4

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-10	SS-10	SS-10	SS-10	SS-11
Sample ID				SS-10-0-2"	FD-SS-050608	SS-10-0.2-1.0	SS-10-1.0-2.0	SS-11-0-2"
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.2	0.2-1.0	0.2-1.0	1.0-2.0	0.0-0.2
Date Sampled				05/05/08	05/06/08	05/06/08	05/06/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		Field Duplicate (0-1)			
Metals								
Barium	MG/KG	300	15-600	102	66.4 J	102 J	54.0 J	111
Cadmium	MG/KG	1	0.1-1	1.3	0.25 U	0.40	0.23 U	2.1
Chromium	MG/KG	10	1.5-40	22.2	11.6 J	19.0 J	13.0 J	17.1
Lead	MG/KG	SB	500	306	23.5 J	121 J	39.1 J	483
Mercury	MG/KG	0.1	0.001-0.2	0.190	0.230 J	0.183 J	0.067 J	0.563
Selenium	MG/KG	2	0.1-3.9	5.7 U	4.9 U	5.5 U	4.7 U	5.0 U
Silver	MG/KG	SB	-	0.71 U	0.62 U	0.69 U	0.59 U	0.62 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

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[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SS

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-11	SS-11	SS-12	SS-12	SS-12
Sample ID				SS-11-0.2-1.0	SS-11-1.0-2.0	SS-12-0-2"	SS-12-0.2-1.0	SS-12-1.0-2.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0
Date Sampled				05/06/08	05/06/08	05/05/08	05/06/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	UG/KG	600	-	6 U	6 U	NA	6 U	5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	6000	-	6 U	6 U	NA	6 U	5 U
1,1,2-Trichloroethane	UG/KG	-	-	6 U	6 U	NA	6 U	5 U
1,1-Dichloroethane	UG/KG	200	-	6 U	6 U	NA	6 U	5 U
1,1-Dichloroethene	UG/KG	400	-	6 U	6 U	NA	6 U	5 U
1,2,4-Trichlorobenzene	UG/KG	3400	-	6 U	6 U	NA	6 U	5 U
1,2-Dibromo-3-chloropropane	UG/KG	-	-	6 U	6 U	NA	6 U	5 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	-	-	6 U	6 U	NA	6 U	5 U
1,2-Dichlorobenzene	UG/KG	7900	-	6 U	6 U	NA	6 U	5 U
1,2-Dichloroethane	UG/KG	100	-	6 U	6 U	NA	6 U	5 U
1,2-Dichloroethene (cis)	UG/KG	300	-	6 U	6 U	NA	6 U	5 U
1,2-Dichloroethene (trans)	UG/KG	300	-	6 U	6 U	NA	6 U	5 U
1,2-Dichloropropane	UG/KG	-	-	6 U	6 U	NA	6 U	5 U
1,3-Dichlorobenzene	UG/KG	600	-	6 U	6 U	NA	6 U	5 U
1,3-Dichloropropene (cis)	UG/KG	300	-	6 U	6 U	NA	6 U	5 U
1,3-Dichloropropene (trans)	UG/KG	300	-	6 U	6 U	NA	6 U	5 U
1,4-Dichlorobenzene	UG/KG	8500	-	6 U	6 U	NA	6 U	5 U
2-Hexanone	UG/KG	-	-	30 U	30 U	NA	29 U	27 U
4-Methyl-2-pentanone	UG/KG	1000	-	30 U	30 U	NA	29 U	27 U
Acetone	UG/KG	200	-	30 U	30 U	NA	29 U	27 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

Advanced Selection: 2008 SS
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[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SS

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-11	SS-11	SS-12	SS-12	SS-12
Sample ID				SS-11-0.2-1.0	SS-11-1.0-2.0	SS-12-0-2"	SS-12-0.2-1.0	SS-12-1.0-2.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0
Date Sampled				05/06/08	05/06/08	05/05/08	05/06/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
Benzene	UG/KG	60	-	6 U	6 U	NA	6 U	5 U
Bromodichloromethane	UG/KG	-	-	6 U	6 U	NA	6 U	5 U
Bromoform	UG/KG	-	-	6 U	6 U	NA	6 U	5 U
Bromomethane	UG/KG	-	-	6 U	6 U	NA	6 U	5 U
Carbon disulfide	UG/KG	2700	-	6 U	6 U	NA	6 U	5 U
Carbon tetrachloride	UG/KG	600	-	6 U	6 U	NA	6 U	5 U
Chlorobenzene	UG/KG	1700	-	6 U	6 U	NA	6 U	5 U
Chloroethane	UG/KG	1900	-	6 U	6 U	NA	6 U	5 U
Chloroform	UG/KG	300	-	6 U	6 U	NA	6 U	5 U
Chloromethane	UG/KG	-	-	6 U	6 U	NA	6 U	5 U
Cyclohexane	UG/KG	-	-	6 U	6 U	NA	6 U	5 U
Dibromochloromethane	UG/KG	-	-	6 U	6 U	NA	6 U	5 U
Dichlorodifluoromethane	UG/KG	-	-	6 U	6 U	NA	6 U	5 U
Ethylbenzene	UG/KG	5500	-	6 U	6 U	NA	6 U	5 U
Isopropylbenzene (Cumene)	UG/KG	2300	-	6 U	6 U	NA	6 U	5 U
Methyl acetate	UG/KG	-	-	6 U	6 U	NA	6 U	5 U
Methyl ethyl ketone (2-Butanone)	UG/KG	300	-	30 U	30 U	NA	29 U	27 U
Methyl tert-butyl ether	UG/KG	120	-	6 U	6 U	NA	6 U	5 U
Methylcyclohexane	UG/KG	-	-	6 U	6 U	NA	6 U	5 U
Methylene chloride	UG/KG	100	-	7 U	6 U	NA	6 U	5 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-11	SS-11	SS-12	SS-12	SS-12
Sample ID				SS-11-0.2-1.0	SS-11-1.0-2.0	SS-12-0-2"	SS-12-0.2-1.0	SS-12-1.0-2.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0
Date Sampled				05/06/08	05/06/08	05/05/08	05/06/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
Styrene	UG/KG	-	-	6 U	6 U	NA	6 U	5 U
Tetrachloroethene	UG/KG	1400	-	6 U	6 U	NA	6 U	5 U
Toluene	UG/KG	1500	-	6 U	6 U	NA	6 U	5 U
1,1,1-Trichloroethane	UG/KG	800	-	6 U	6 U	NA	6 U	5 U
Trichloroethene	UG/KG	700	-	6 U	6 U	NA	6 U	5 U
Trichlorofluoromethane	UG/KG	-	-	6 U	6 U	NA	6 U	5 U
Vinyl chloride	UG/KG	200	-	12 U	12 U	NA	12 U	11 U
Xylene (total)	UG/KG	1200	-	18 U	18 U	NA	17 U	16 U
Total BTEX	UG/KG	-	-	ND	ND	NA	ND	ND
Total Volatile Organic Compounds	UG/KG	10000	-	ND	ND	NA	ND	ND
Semivolatile Organic Compounds								
1,1'-Biphenyl	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
2,2'-oxybis(2-Chloropropane)	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
2,4,5-Trichlorophenol	UG/KG	100	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
2,4,6-Trichlorophenol	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
2,4-Dichlorophenol	UG/KG	400	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
2,4-Dimethylphenol	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
2,4-Dinitrophenol	UG/KG	200 or MDL	-	2,100 U	2,100 U	2,100 U	390 U	3,700 U
2,4-Dinitrotoluene	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
2,6-Dinitrotoluene	UG/KG	1000	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-11	SS-11	SS-12	SS-12	SS-12
Sample ID				SS-11-0.2-1.0	SS-11-1.0-2.0	SS-12-0-2"	SS-12-0.2-1.0	SS-12-1.0-2.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0
Date Sampled				05/06/08	05/06/08	05/05/08	05/06/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
2-Chloronaphthalene	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
2-Chlorophenol	UG/KG	800	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
2-Methylnaphthalene	UG/KG	36400	-	1,100 U	1,100 U	1,100 U	200 U	140 J
2-Methylphenol (o-cresol)	UG/KG	100 or MDL	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
2-Nitroaniline	UG/KG	430 or MDL	-	2,100 U	2,100 U	2,100 U	390 U	3,700 U
2-Nitrophenol	UG/KG	330 or MDL	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
3,3'-Dichlorobenzidine	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
3-Nitroaniline	UG/KG	500 or MDL	-	2,100 U	2,100 U	2,100 U	390 U	3,700 U
4,6-Dinitro-2-methylphenol	UG/KG	50000	-	2,100 U	2,100 U	2,100 U	390 U	3,700 U
4-Bromophenyl-phenylether	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
4-Chloro-3-methylphenol	UG/KG	240 or MDL	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
4-Chloroaniline	UG/KG	220 or MDL	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
4-Chlorophenyl-phenylether	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
4-Methylphenol (p-cresol)	UG/KG	900	-	1,100 U	1,100 U	1,100 U	200 U	390 J
4-Nitroaniline	UG/KG	50000	-	2,100 U	2,100 U	2,100 U	390 U	3,700 U
4-Nitrophenol	UG/KG	100 or MDL	-	2,100 U	2,100 U	2,100 U	390 U	3,700 U
Acenaphthene	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	280 J
Acenaphthylene	UG/KG	41000	-	1,100 U	1,100 U	1,100 U	200 U	2,100
Acetophenone	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
Anthracene	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	5,100

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

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Advanced Selection: 2008 SS
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[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SS

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

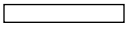
Location ID				SS-11	SS-11	SS-12	SS-12	SS-12
Sample ID				SS-11-0.2-1.0	SS-11-1.0-2.0	SS-12-0-2"	SS-12-0.2-1.0	SS-12-1.0-2.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0
Date Sampled				05/06/08	05/06/08	05/05/08	05/06/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Atrazine	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
Benzaldehyde	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
Benzo(a)anthracene	UG/KG	224 or MDL	-	250 J	120 J	230 J	37 J	20,000
Benzo(a)pyrene	UG/KG	61 or MDL	-	170 J	71 J	170 J	24 J	12,000
Benzo(b)fluoranthene	UG/KG	1100	-	210 J	82 J	220 J	32 J	14,000
Benzo(g,h,i)perylene	UG/KG	50000	-	130 J	49 J	120 J	20 J	4,500
Benzo(k)fluoranthene	UG/KG	1100	-	100 J	1,100 U	100 J	12 J	4,700
bis(2-Chloroethoxy)methane	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
bis(2-Chloroethyl)ether	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
bis(2-Ethylhexyl)phthalate	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
Butylbenzylphthalate	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
Caprolactam	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
Carbazole	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
Chrysene	UG/KG	400	-	1,100 U	1,100 U	180 J	200 U	14,000
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	1,000 J	1,100 U	1,100 U	190 J	3,200
Dibenzofuran	UG/KG	6200	-	1,100 U	1,100 U	1,100 U	200 U	260 J
Diethylphthalate	UG/KG	7100	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
Dimethylphthalate	UG/KG	2000	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
Di-n-butylphthalate	UG/KG	8100	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
Di-n-octylphthalate	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

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[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SS

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-11	SS-11	SS-12	SS-12	SS-12
Sample ID				SS-11-0.2-1.0	SS-11-1.0-2.0	SS-12-0-2"	SS-12-0.2-1.0	SS-12-1.0-2.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0
Date Sampled				05/06/08	05/06/08	05/05/08	05/06/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Fluoranthene	UG/KG	50000	-	380 J	200 J	420 J	52 J	40,000
Fluorene	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	1,100 J
Hexachlorobenzene	UG/KG	410	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
Hexachlorobutadiene	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
Hexachlorocyclopentadiene	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
Hexachloroethane	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	110 J	1,100 U	110 J	16 J	4,700
Isophorone	UG/KG	4400	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
Naphthalene	UG/KG	13000	-	1,100 U	1,100 U	1,100 U	200 U	510 J
Nitrobenzene	UG/KG	200 or MDL	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
N-Nitroso-di-n-propylamine	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
N-Nitrosodiphenylamine	UG/KG	50000	-	1,100 U	1,100 U	1,100 U	200 U	1,900 U
Pentachlorophenol	UG/KG	1000 or MDL	-	2,100 U	2,100 U	2,100 U	390 U	3,700 U
Phenanthrene	UG/KG	50000	-	200 J	120 J	150 J	17 J	12,000
Phenol	UG/KG	30 or MDL	-	1,100 U	1,100 U	1,100 U	200 U	220 J
Pyrene	UG/KG	50000	-	330 J	180 J	320 J	44 J	26,000
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	2,880	822	2,020	444	164,190
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	2,880	822	2,020	444	165,200
Metals								
Arsenic	MG/KG	7.5	3-12	11.9	7.9	8.6	5.7	4.9

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

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TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-11	SS-11	SS-12	SS-12	SS-12
Sample ID				SS-11-0.2-1.0	SS-11-1.0-2.0	SS-12-0-2"	SS-12-0.2-1.0	SS-12-1.0-2.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0
Date Sampled				05/06/08	05/06/08	05/05/08	05/06/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Barium	MG/KG	300	15-600	84.6 J	53.4 J	89.8	48.5 J	77.5 J
Cadmium	MG/KG	1	0.1-1	0.60	0.23 U	0.33	0.24 U	0.25
Chromium	MG/KG	10	1.5-40	15.7 J	17.8 J	16.4	14.4 J	10.8 J
Lead	MG/KG	SB	500	150 J	26.7 J	54.0	14.6 J	43.4 J
Mercury	MG/KG	0.1	0.001-0.2	0.138 J	0.055 J	0.086	0.049 J	0.053 J
Selenium	MG/KG	2	0.1-3.9	5.6 U	4.6 U	5.5 U	4.9 U	4.9 U
Silver	MG/KG	SB	-	0.70 U	0.57 U	0.68 U	0.61 U	0.61 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
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TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-13	SS-13	SS-13	SS-14	SS-14
Sample ID				SS-13-0-2"	SS-13-0.2-1.0	SS-13-1.0-2.0	SS-14-0-2"	SS-14-0.2-1.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0
Date Sampled				05/05/08	05/06/08	05/06/08	05/05/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	UG/KG	600	-	NA	6 U	5 U	NA	6 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	6000	-	NA	6 U	5 U	NA	6 U
1,1,2-Trichloroethane	UG/KG	-	-	NA	6 U	5 U	NA	6 U
1,1-Dichloroethane	UG/KG	200	-	NA	6 U	5 U	NA	6 U
1,1-Dichloroethene	UG/KG	400	-	NA	6 U	5 U	NA	6 U
1,2,4-Trichlorobenzene	UG/KG	3400	-	NA	6 U	5 U	NA	6 U
1,2-Dibromo-3-chloropropane	UG/KG	-	-	NA	6 U	5 U	NA	6 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	-	-	NA	6 U	5 U	NA	6 U
1,2-Dichlorobenzene	UG/KG	7900	-	NA	6 U	5 U	NA	6 U
1,2-Dichloroethane	UG/KG	100	-	NA	6 U	5 U	NA	6 U
1,2-Dichloroethene (cis)	UG/KG	300	-	NA	6 U	5 U	NA	6 U
1,2-Dichloroethene (trans)	UG/KG	300	-	NA	6 U	5 U	NA	6 U
1,2-Dichloropropane	UG/KG	-	-	NA	6 U	5 U	NA	6 U
1,3-Dichlorobenzene	UG/KG	600	-	NA	6 U	5 U	NA	6 U
1,3-Dichloropropene (cis)	UG/KG	300	-	NA	6 U	5 U	NA	6 U
1,3-Dichloropropene (trans)	UG/KG	300	-	NA	6 U	5 U	NA	6 U
1,4-Dichlorobenzene	UG/KG	8500	-	NA	6 U	5 U	NA	6 U
2-Hexanone	UG/KG	-	-	NA	31 U	27 U	NA	32 U
4-Methyl-2-pentanone	UG/KG	1000	-	NA	31 U	27 U	NA	32 U
Acetone	UG/KG	200	-	NA	31 U	27 U	NA	32 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
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[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SS

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-13	SS-13	SS-13	SS-14	SS-14
Sample ID				SS-13-0-2"	SS-13-0.2-1.0	SS-13-1.0-2.0	SS-14-0-2"	SS-14-0.2-1.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0
Date Sampled				05/05/08	05/06/08	05/06/08	05/05/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
Benzene	UG/KG	60	-	NA	6 U	5 U	NA	6 U
Bromodichloromethane	UG/KG	-	-	NA	6 U	5 U	NA	6 U
Bromoform	UG/KG	-	-	NA	6 U	5 U	NA	6 U
Bromomethane	UG/KG	-	-	NA	6 U	5 U	NA	6 U
Carbon disulfide	UG/KG	2700	-	NA	6 U	5 U	NA	6 U
Carbon tetrachloride	UG/KG	600	-	NA	6 U	5 U	NA	6 U
Chlorobenzene	UG/KG	1700	-	NA	6 U	5 U	NA	6 U
Chloroethane	UG/KG	1900	-	NA	6 U	5 U	NA	6 U
Chloroform	UG/KG	300	-	NA	6 U	5 U	NA	6 U
Chloromethane	UG/KG	-	-	NA	6 U	5 U	NA	6 U
Cyclohexane	UG/KG	-	-	NA	6 U	5 U	NA	6 U
Dibromochloromethane	UG/KG	-	-	NA	6 U	5 U	NA	6 U
Dichlorodifluoromethane	UG/KG	-	-	NA	6 U	5 U	NA	6 U
Ethylbenzene	UG/KG	5500	-	NA	6 U	5 U	NA	6 U
Isopropylbenzene (Cumene)	UG/KG	2300	-	NA	6 U	5 U	NA	6 U
Methyl acetate	UG/KG	-	-	NA	6 U	5 U	NA	6 U
Methyl ethyl ketone (2-Butanone)	UG/KG	300	-	NA	31 U	27 U	NA	32 U
Methyl tert-butyl ether	UG/KG	120	-	NA	6 U	5 U	NA	6 U
Methylcyclohexane	UG/KG	-	-	NA	6 U	5 U	NA	6 U
Methylene chloride	UG/KG	100	-	NA	6 U	5 U	NA	6 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

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Advanced Selection: 2008 SS
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TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-13	SS-13	SS-13	SS-14	SS-14
Sample ID				SS-13-0-2"	SS-13-0.2-1.0	SS-13-1.0-2.0	SS-14-0-2"	SS-14-0.2-1.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0
Date Sampled				05/05/08	05/06/08	05/06/08	05/05/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
Styrene	UG/KG	-	-	NA	6 U	5 U	NA	6 U
Tetrachloroethene	UG/KG	1400	-	NA	6 U	5 U	NA	6 U
Toluene	UG/KG	1500	-	NA	6 U	5 U	NA	6 U
1,1,1-Trichloroethane	UG/KG	800	-	NA	6 U	5 U	NA	6 U
Trichloroethene	UG/KG	700	-	NA	6 U	5 U	NA	6 U
Trichlorofluoromethane	UG/KG	-	-	NA	6 U	5 U	NA	6 U
Vinyl chloride	UG/KG	200	-	NA	12 U	11 U	NA	13 U
Xylene (total)	UG/KG	1200	-	NA	18 U	16 U	NA	19 U
Total BTEX	UG/KG	-	-	NA	ND	ND	NA	ND
Total Volatile Organic Compounds	UG/KG	10000	-	NA	ND	ND	NA	ND
Semivolatile Organic Compounds								
1,1'-Biphenyl	UG/KG	50000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
2,2'-oxybis(2-Chloropropane)	UG/KG	50000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
2,4,5-Trichlorophenol	UG/KG	100	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
2,4,6-Trichlorophenol	UG/KG	50000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
2,4-Dichlorophenol	UG/KG	400	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
2,4-Dimethylphenol	UG/KG	50000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
2,4-Dinitrophenol	UG/KG	200 or MDL	-	4,400 U	4,100 U	1,800 U	4,600 U	2,000 U
2,4-Dinitrotoluene	UG/KG	50000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
2,6-Dinitrotoluene	UG/KG	1000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-13	SS-13	SS-13	SS-14	SS-14
Sample ID				SS-13-0-2"	SS-13-0.2-1.0	SS-13-1.0-2.0	SS-14-0-2"	SS-14-0.2-1.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0
Date Sampled				05/05/08	05/06/08	05/06/08	05/05/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
2-Chloronaphthalene	UG/KG	50000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
2-Chlorophenol	UG/KG	800	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
2-Methylnaphthalene	UG/KG	36400	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
2-Methylphenol (o-cresol)	UG/KG	100 or MDL	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
2-Nitroaniline	UG/KG	430 or MDL	-	4,400 U	4,100 U	1,800 U	4,600 U	2,000 U
2-Nitrophenol	UG/KG	330 or MDL	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
3,3'-Dichlorobenzidine	UG/KG	50000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
3-Nitroaniline	UG/KG	500 or MDL	-	4,400 U	4,100 U	1,800 U	4,600 U	2,000 U
4,6-Dinitro-2-methylphenol	UG/KG	50000	-	4,400 U	4,100 U	1,800 U	4,600 U	2,000 U
4-Bromophenyl-phenylether	UG/KG	50000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
4-Chloro-3-methylphenol	UG/KG	240 or MDL	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
4-Chloroaniline	UG/KG	220 or MDL	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
4-Chlorophenyl-phenylether	UG/KG	50000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
4-Methylphenol (p-cresol)	UG/KG	900	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
4-Nitroaniline	UG/KG	50000	-	4,400 U	4,100 U	1,800 U	4,600 U	2,000 U
4-Nitrophenol	UG/KG	100 or MDL	-	4,400 U	4,100 U	1,800 U	4,600 U	2,000 U
Acenaphthene	UG/KG	50000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
Acenaphthylene	UG/KG	41000	-	2,300 U	100 J	940 U	210 J	210 J
Acetophenone	UG/KG	50000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
Anthracene	UG/KG	50000	-	2,300 U	2,100 U	940 U	340 J	250 J

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

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TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-13	SS-13	SS-13	SS-14	SS-14
Sample ID				SS-13-0-2"	SS-13-0.2-1.0	SS-13-1.0-2.0	SS-14-0-2"	SS-14-0.2-1.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0
Date Sampled				05/05/08	05/06/08	05/06/08	05/05/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Atrazine	UG/KG	50000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
Benzaldehyde	UG/KG	50000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
Benzo(a)anthracene	UG/KG	224 or MDL	-	2,300 U	900 J	96 J	2,000 J	1,800
Benzo(a)pyrene	UG/KG	61 or MDL	-	320 J	760 J	57 J	1,600 J	1,600
Benzo(b)fluoranthene	UG/KG	1100	-	370 J	980 J	84 J	1,900 J	2,100
Benzo(g,h,i)perylene	UG/KG	50000	-	170 J	530 J	55 J	980 J	1,200
Benzo(k)fluoranthene	UG/KG	1100	-	190 J	300 J	940 U	910 J	660 J
bis(2-Chloroethoxy)methane	UG/KG	50000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
bis(2-Chloroethyl)ether	UG/KG	50000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
bis(2-Ethylhexyl)phthalate	UG/KG	50000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
Butylbenzylphthalate	UG/KG	50000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
Caprolactam	UG/KG	50000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
Carbazole	UG/KG	50000	-	2,300 U	2,100 U	940 U	110 J	110 J
Chrysene	UG/KG	400	-	360 J	2,100 U	940 U	1,800 J	1,600
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	2,300 U	150 J	940 U	280 J	450 J
Dibenzofuran	UG/KG	6200	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
Diethylphthalate	UG/KG	7100	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
Dimethylphthalate	UG/KG	2000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
Di-n-butylphthalate	UG/KG	8100	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
Di-n-octylphthalate	UG/KG	50000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
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TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-13	SS-13	SS-13	SS-14	SS-14
Sample ID				SS-13-0-2"	SS-13-0.2-1.0	SS-13-1.0-2.0	SS-14-0-2"	SS-14-0.2-1.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0
Date Sampled				05/05/08	05/06/08	05/06/08	05/05/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Fluoranthene	UG/KG	50000	-	640 J	1,400 J	100 J	3,400	3,100
Fluorene	UG/KG	50000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
Hexachlorobenzene	UG/KG	410	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
Hexachlorobutadiene	UG/KG	50000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
Hexachlorocyclopentadiene	UG/KG	50000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
Hexachloroethane	UG/KG	50000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	170 J	510 J	52 J	940 J	1,200
Isophorone	UG/KG	4400	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
Naphthalene	UG/KG	13000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
Nitrobenzene	UG/KG	200 or MDL	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
N-Nitroso-di-n-propylamine	UG/KG	50000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
N-Nitrosodiphenylamine	UG/KG	50000	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
Pentachlorophenol	UG/KG	1000 or MDL	-	4,400 U	4,100 U	1,800 U	4,600 U	2,000 U
Phenanthrene	UG/KG	50000	-	190 J	300 J	940 U	950 J	930 J
Phenol	UG/KG	30 or MDL	-	2,300 U	2,100 U	940 U	2,400 U	1,000 U
Pyrene	UG/KG	50000	-	490 J	1,200 J	99 J	2,700	2,700
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	2,900	7,130	543	18,010	17,800
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	2,900	7,130	543	18,120	17,910
Metals								
Arsenic	MG/KG	7.5	3-12	7.8	6.8	5.7	7.5	6.4

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

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TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-13	SS-13	SS-13	SS-14	SS-14
Sample ID				SS-13-0-2"	SS-13-0.2-1.0	SS-13-1.0-2.0	SS-14-0-2"	SS-14-0.2-1.0
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2	0.2-1.0
Date Sampled				05/05/08	05/06/08	05/06/08	05/05/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Barium	MG/KG	300	15-600	110	92.1 J	56.5 J	93.1	85.3 J
Cadmium	MG/KG	1	0.1-1	0.50	0.54	0.26	0.42	0.33
Chromium	MG/KG	10	1.5-40	19.7	18.3 J	14.9 J	16.6	16.9 J
Lead	MG/KG	SB	500	93.4	87.8 J	19.6 J	85.2	73.6 J
Mercury	MG/KG	0.1	0.001-0.2	0.073	0.105 J	0.053 J	0.133	0.113 J
Selenium	MG/KG	2	0.1-3.9	5.7 U	5.1 U	4.4 U	6.2 U	4.9 U
Silver	MG/KG	SB	-	0.72 U	0.63 U	0.55 U	0.77 U	0.61 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

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[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SS

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-14	SS-15	SS-15	SS-15	SS-16
Sample ID				SS-14-1.0-2.0	SS-15-0-2"	SS-15-0.2-1.0	SS-15-1.0-2.0	SS-16-0-2"
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2
Date Sampled				05/06/08	05/05/08	05/06/08	05/06/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	UG/KG	600	-	6 U	NA	6 U	5 U	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	6000	-	6 U	NA	6 U	5 U	NA
1,1,2-Trichloroethane	UG/KG	-	-	6 U	NA	6 U	5 U	NA
1,1-Dichloroethane	UG/KG	200	-	6 U	NA	6 U	5 U	NA
1,1-Dichloroethene	UG/KG	400	-	6 U	NA	6 U	5 U	NA
1,2,4-Trichlorobenzene	UG/KG	3400	-	6 U	NA	6 U	5 U	NA
1,2-Dibromo-3-chloropropane	UG/KG	-	-	6 U	NA	6 U	5 U	NA
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	-	-	6 U	NA	6 U	5 U	NA
1,2-Dichlorobenzene	UG/KG	7900	-	6 U	NA	6 U	5 U	NA
1,2-Dichloroethane	UG/KG	100	-	6 U	NA	6 U	5 U	NA
1,2-Dichloroethene (cis)	UG/KG	300	-	6 U	NA	6 U	5 U	NA
1,2-Dichloroethene (trans)	UG/KG	300	-	6 U	NA	6 U	5 U	NA
1,2-Dichloropropane	UG/KG	-	-	6 U	NA	6 U	5 U	NA
1,3-Dichlorobenzene	UG/KG	600	-	6 U	NA	6 U	5 U	NA
1,3-Dichloropropene (cis)	UG/KG	300	-	6 U	NA	6 U	5 U	NA
1,3-Dichloropropene (trans)	UG/KG	300	-	6 U	NA	6 U	5 U	NA
1,4-Dichlorobenzene	UG/KG	8500	-	6 U	NA	6 U	5 U	NA
2-Hexanone	UG/KG	-	-	29 U	NA	30 U	27 U	NA
4-Methyl-2-pentanone	UG/KG	1000	-	29 U	NA	30 U	27 U	NA
Acetone	UG/KG	200	-	29 U	NA	30 U	27 U	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-14	SS-15	SS-15	SS-15	SS-16
Sample ID				SS-14-1.0-2.0	SS-15-0-2"	SS-15-0.2-1.0	SS-15-1.0-2.0	SS-16-0-2"
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2
Date Sampled				05/06/08	05/05/08	05/06/08	05/06/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
Benzene	UG/KG	60	-	6 U	NA	6 U	5 U	NA
Bromodichloromethane	UG/KG	-	-	6 U	NA	6 U	5 U	NA
Bromoform	UG/KG	-	-	6 U	NA	6 U	5 U	NA
Bromomethane	UG/KG	-	-	6 U	NA	6 U	5 U	NA
Carbon disulfide	UG/KG	2700	-	6 U	NA	6 U	5 U	NA
Carbon tetrachloride	UG/KG	600	-	6 U	NA	6 U	5 U	NA
Chlorobenzene	UG/KG	1700	-	6 U	NA	6 U	5 U	NA
Chloroethane	UG/KG	1900	-	6 U	NA	6 U	5 U	NA
Chloroform	UG/KG	300	-	6 U	NA	6 U	5 U	NA
Chloromethane	UG/KG	-	-	6 U	NA	6 U	5 U	NA
Cyclohexane	UG/KG	-	-	6 U	NA	6 U	5 U	NA
Dibromochloromethane	UG/KG	-	-	6 U	NA	6 U	5 U	NA
Dichlorodifluoromethane	UG/KG	-	-	6 U	NA	6 U	5 U	NA
Ethylbenzene	UG/KG	5500	-	6 U	NA	6 U	5 U	NA
Isopropylbenzene (Cumene)	UG/KG	2300	-	6 U	NA	6 U	5 U	NA
Methyl acetate	UG/KG	-	-	6 U	NA	6 U	5 U	NA
Methyl ethyl ketone (2-Butanone)	UG/KG	300	-	29 U	NA	30 U	27 U	NA
Methyl tert-butyl ether	UG/KG	120	-	6 U	NA	6 U	5 U	NA
Methylcyclohexane	UG/KG	-	-	6 U	NA	6 U	5 U	NA
Methylene chloride	UG/KG	100	-	6 U	NA	6 U	5 U	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
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TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-14	SS-15	SS-15	SS-15	SS-16
Sample ID				SS-14-1.0-2.0	SS-15-0-2"	SS-15-0.2-1.0	SS-15-1.0-2.0	SS-16-0-2"
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2
Date Sampled				05/06/08	05/05/08	05/06/08	05/06/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
Styrene	UG/KG	-	-	6 U	NA	6 U	5 U	NA
Tetrachloroethene	UG/KG	1400	-	6 U	NA	6 U	5 U	NA
Toluene	UG/KG	1500	-	6 U	NA	6 U	5 U	NA
1,1,1-Trichloroethane	UG/KG	800	-	6 U	NA	6 U	5 U	NA
Trichloroethene	UG/KG	700	-	6 U	NA	6 U	5 U	NA
Trichlorofluoromethane	UG/KG	-	-	6 U	NA	6 U	5 U	NA
Vinyl chloride	UG/KG	200	-	12 U	NA	12 U	11 U	NA
Xylene (total)	UG/KG	1200	-	18 U	NA	18 U	16 U	NA
Total BTEX	UG/KG	-	-	ND	NA	ND	ND	NA
Total Volatile Organic Compounds	UG/KG	10000	-	ND	NA	ND	ND	NA
Semivolatile Organic Compounds								
1,1'-Biphenyl	UG/KG	50000	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
2,2'-oxybis(2-Chloropropane)	UG/KG	50000	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
2,4,5-Trichlorophenol	UG/KG	100	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
2,4,6-Trichlorophenol	UG/KG	50000	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
2,4-Dichlorophenol	UG/KG	400	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
2,4-Dimethylphenol	UG/KG	50000	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
2,4-Dinitrophenol	UG/KG	200 or MDL	-	1,900 U	4,800 U	2,000 U	1,900 U	4,500 U
2,4-Dinitrotoluene	UG/KG	50000	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
2,6-Dinitrotoluene	UG/KG	1000	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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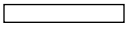
Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
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TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-14	SS-15	SS-15	SS-15	SS-16
Sample ID				SS-14-1.0-2.0	SS-15-0-2"	SS-15-0.2-1.0	SS-15-1.0-2.0	SS-16-0-2"
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2
Date Sampled				05/06/08	05/05/08	05/06/08	05/06/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
2-Chloronaphthalene	UG/KG	50000	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
2-Chlorophenol	UG/KG	800	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
2-Methylnaphthalene	UG/KG	36400	-	1,000 U	2,500 U	1,000 U	1,000 U	240 J
2-Methylphenol (o-cresol)	UG/KG	100 or MDL	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
2-Nitroaniline	UG/KG	430 or MDL	-	1,900 U	4,800 U	2,000 U	1,900 U	4,500 U
2-Nitrophenol	UG/KG	330 or MDL	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
3,3'-Dichlorobenzidine	UG/KG	50000	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
3-Nitroaniline	UG/KG	500 or MDL	-	1,900 U	4,800 U	2,000 U	1,900 U	4,500 U
4,6-Dinitro-2-methylphenol	UG/KG	50000	-	1,900 U	4,800 U	2,000 U	1,900 U	4,500 U
4-Bromophenyl-phenylether	UG/KG	50000	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
4-Chloro-3-methylphenol	UG/KG	240 or MDL	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
4-Chloroaniline	UG/KG	220 or MDL	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
4-Chlorophenyl-phenylether	UG/KG	50000	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
4-Methylphenol (p-cresol)	UG/KG	900	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
4-Nitroaniline	UG/KG	50000	-	1,900 U	4,800 U	2,000 U	1,900 U	4,500 U
4-Nitrophenol	UG/KG	100 or MDL	-	1,900 U	4,800 U	2,000 U	1,900 U	4,500 U
Acenaphthene	UG/KG	50000	-	1,000 U	2,500 U	1,000 U	1,000 U	3,400
Acenaphthylene	UG/KG	41000	-	160 J	340 J	240 J	120 J	240 J
Acetophenone	UG/KG	50000	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
Anthracene	UG/KG	50000	-	160 J	450 J	400 J	150 J	8,700

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

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[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SS

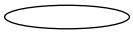
TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-14	SS-15	SS-15	SS-15	SS-16
Sample ID				SS-14-1.0-2.0	SS-15-0-2"	SS-15-0.2-1.0	SS-15-1.0-2.0	SS-16-0-2"
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2
Date Sampled				05/06/08	05/05/08	05/06/08	05/06/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Atrazine	UG/KG	50000	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
Benzaldehyde	UG/KG	50000	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
Benzo(a)anthracene	UG/KG	224 or MDL	-	1,200	3,000	2,400	1,000	19,000
Benzo(a)pyrene	UG/KG	61 or MDL	-	970 J	2,600	1,800	900 J	13,000
Benzo(b)fluoranthene	UG/KG	1100	-	1,300	3,000	2,400	1,100	17,000
Benzo(g,h,i)perylene	UG/KG	50000	-	700 J	1,600 J	1,300	640 J	6,700
Benzo(k)fluoranthene	UG/KG	1100	-	400 J	1,300 J	790 J	380 J	6,800
bis(2-Chloroethoxy)methane	UG/KG	50000	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
bis(2-Chloroethyl)ether	UG/KG	50000	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
bis(2-Ethylhexyl)phthalate	UG/KG	50000	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
Butylbenzylphthalate	UG/KG	50000	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
Caprolactam	UG/KG	50000	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
Carbazole	UG/KG	50000	-	1,000 U	180 J	76 J	110 J	2,000 J
Chrysene	UG/KG	400	-	1,000	2,800	2,000	1,000	16,000
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	280 J	510 J	530 J	260 J	2,200 J
Dibenzofuran	UG/KG	6200	-	1,000 U	2,500 U	1,000 U	48 J	1,700 J
Diethylphthalate	UG/KG	7100	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
Dimethylphthalate	UG/KG	2000	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
Di-n-butylphthalate	UG/KG	8100	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
Di-n-octylphthalate	UG/KG	50000	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U

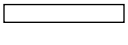
Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

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TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-14	SS-15	SS-15	SS-15	SS-16
Sample ID				SS-14-1.0-2.0	SS-15-0-2"	SS-15-0.2-1.0	SS-15-1.0-2.0	SS-16-0-2"
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2
Date Sampled				05/06/08	05/05/08	05/06/08	05/06/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Fluoranthene	UG/KG	50000	-	1,700	5,300	4,000	1,800	44,000
Fluorene	UG/KG	50000	-	1,000 U	2,500 U	1,000 U	1,000 U	3,800
Hexachlorobenzene	UG/KG	410	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
Hexachlorobutadiene	UG/KG	50000	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
Hexachlorocyclopentadiene	UG/KG	50000	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
Hexachloroethane	UG/KG	50000	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	670 J	1,400 J	1,200	600 J	6,600
Isophorone	UG/KG	4400	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
Naphthalene	UG/KG	13000	-	1,000 U	2,500 U	1,000 U	100 J	340 J
Nitrobenzene	UG/KG	200 or MDL	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
N-Nitroso-di-n-propylamine	UG/KG	50000	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
N-Nitrosodiphenylamine	UG/KG	50000	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
Pentachlorophenol	UG/KG	1000 or MDL	-	1,900 U	4,800 U	2,000 U	1,900 U	4,500 U
Phenanthrene	UG/KG	50000	-	400 J	1,800 J	1,000	1,000	33,000
Phenol	UG/KG	30 or MDL	-	1,000 U	2,500 U	1,000 U	1,000 U	2,300 U
Pyrene	UG/KG	50000	-	1,500	4,300	3,300	1,500	28,000
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	10,440	28,400	21,360	10,550	208,780
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	10,440	28,580	21,436	10,708	212,720
Metals								
Arsenic	MG/KG	7.5	3-12	6.5	10.8	8.3	7.0	8.8

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

(oval) Concentration Exceeds Criteria (1)

(rectangle) Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

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[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SS

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-14	SS-15	SS-15	SS-15	SS-16
Sample ID				SS-14-1.0-2.0	SS-15-0-2"	SS-15-0.2-1.0	SS-15-1.0-2.0	SS-16-0-2"
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				1.0-2.0	0.0-0.2	0.2-1.0	1.0-2.0	0.0-0.2
Date Sampled				05/06/08	05/05/08	05/06/08	05/06/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Barium	MG/KG	300	15-600	78.7 J	115	80.6 J	70.4 J	137
Cadmium	MG/KG	1	0.1-1	0.22 U	1.4	0.39	0.23 U	1.4
Chromium	MG/KG	10	1.5-40	15.3 J	23.1	16.9 J	14.4 J	21.0
Lead	MG/KG	SB	500	54.8 J	339	59.8 J	42.3 J	379
Mercury	MG/KG	0.1	0.001-0.2	0.043 J	0.204	0.182 J	0.103 J	0.210
Selenium	MG/KG	2	0.1-3.9	4.3 U	5.9 U	4.7 U	4.7 U	5.6 U
Silver	MG/KG	SB	-	0.54 U	0.73 U	0.59 U	0.58 U	0.70 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

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[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SS

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-16	SS-16
Sample ID				SS-16-0.2-1.0	SS-16-1.0-2.0
Matrix				Soil	Soil
Depth Interval (ft)				0.2-1.0	1.0-2.0
Date Sampled				05/06/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		
Volatile Organic Compounds					
1,1,2,2-Tetrachloroethane	UG/KG	600	-	6 U	6 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	6000	-	6 U	6 U
1,1,2-Trichloroethane	UG/KG	-	-	6 U	6 U
1,1-Dichloroethane	UG/KG	200	-	6 U	6 U
1,1-Dichloroethene	UG/KG	400	-	6 U	6 U
1,2,4-Trichlorobenzene	UG/KG	3400	-	6 U	6 U
1,2-Dibromo-3-chloropropane	UG/KG	-	-	6 U	6 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	-	-	6 U	6 U
1,2-Dichlorobenzene	UG/KG	7900	-	6 U	6 U
1,2-Dichloroethane	UG/KG	100	-	6 U	6 U
1,2-Dichloroethene (cis)	UG/KG	300	-	6 U	6 U
1,2-Dichloroethene (trans)	UG/KG	300	-	6 U	6 U
1,2-Dichloropropane	UG/KG	-	-	6 U	6 U
1,3-Dichlorobenzene	UG/KG	600	-	6 U	6 U
1,3-Dichloropropene (cis)	UG/KG	300	-	6 U	6 U
1,3-Dichloropropene (trans)	UG/KG	300	-	6 U	6 U
1,4-Dichlorobenzene	UG/KG	8500	-	6 U	6 U
2-Hexanone	UG/KG	-	-	31 U	29 U
4-Methyl-2-pentanone	UG/KG	1000	-	31 U	29 U
Acetone	UG/KG	200	-	31 U	29 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-16	SS-16
Sample ID				SS-16-0.2-1.0	SS-16-1.0-2.0
Matrix				Soil	Soil
Depth Interval (ft)				0.2-1.0	1.0-2.0
Date Sampled				05/06/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		
Volatile Organic Compounds					
Benzene	UG/KG	60	-	6 U	6 U
Bromodichloromethane	UG/KG	-	-	6 U	6 U
Bromoform	UG/KG	-	-	6 U	6 U
Bromomethane	UG/KG	-	-	6 U	6 U
Carbon disulfide	UG/KG	2700	-	6 U	6 U
Carbon tetrachloride	UG/KG	600	-	6 U	6 U
Chlorobenzene	UG/KG	1700	-	6 U	6 U
Chloroethane	UG/KG	1900	-	6 U	6 U
Chloroform	UG/KG	300	-	6 U	6 U
Chloromethane	UG/KG	-	-	6 U	6 U
Cyclohexane	UG/KG	-	-	6 U	6 U
Dibromochloromethane	UG/KG	-	-	6 U	6 U
Dichlorodifluoromethane	UG/KG	-	-	6 U	6 U
Ethylbenzene	UG/KG	5500	-	6 U	6 U
Isopropylbenzene (Cumene)	UG/KG	2300	-	6 U	6 U
Methyl acetate	UG/KG	-	-	6 U	6 U
Methyl ethyl ketone (2-Butanone)	UG/KG	300	-	31 U	29 U
Methyl tert-butyl ether	UG/KG	120	-	6 U	6 U
Methylcyclohexane	UG/KG	-	-	6 U	6 U
Methylene chloride	UG/KG	100	-	6 U	6 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

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[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SS

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-16	SS-16
Sample ID				SS-16-0.2-1.0	SS-16-1.0-2.0
Matrix				Soil	Soil
Depth Interval (ft)				0.2-1.0	1.0-2.0
Date Sampled				05/06/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		
Volatile Organic Compounds					
Styrene	UG/KG	-	-	6 U	6 U
Tetrachloroethene	UG/KG	1400	-	6 U	6 U
Toluene	UG/KG	1500	-	6 U	6 U
1,1,1-Trichloroethane	UG/KG	800	-	6 U	6 U
Trichloroethene	UG/KG	700	-	6 U	6 U
Trichlorofluoromethane	UG/KG	-	-	6 U	6 U
Vinyl chloride	UG/KG	200	-	12 U	11 U
Xylene (total)	UG/KG	1200	-	18 U	17 U
Total BTEX	UG/KG	-	-	ND	ND
Total Volatile Organic Compounds	UG/KG	10000	-	ND	ND
Semivolatile Organic Compounds					
1,1'-Biphenyl	UG/KG	50000	-	2,000 U	210 U
2,2'-oxybis(2-Chloropropane)	UG/KG	50000	-	2,000 U	210 U
2,4,5-Trichlorophenol	UG/KG	100	-	2,000 U	210 U
2,4,6-Trichlorophenol	UG/KG	50000	-	2,000 U	210 U
2,4-Dichlorophenol	UG/KG	400	-	2,000 U	210 U
2,4-Dimethylphenol	UG/KG	50000	-	2,000 U	210 U
2,4-Dinitrophenol	UG/KG	200 or MDL	-	4,000 U	410 U
2,4-Dinitrotoluene	UG/KG	50000	-	2,000 U	210 U
2,6-Dinitrotoluene	UG/KG	1000	-	2,000 U	210 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-16	SS-16
Sample ID				SS-16-0.2-1.0	SS-16-1.0-2.0
Matrix				Soil	Soil
Depth Interval (ft)				0.2-1.0	1.0-2.0
Date Sampled				05/06/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		
Semivolatile Organic Compounds					
2-Chloronaphthalene	UG/KG	50000	-	2,000 U	210 U
2-Chlorophenol	UG/KG	800	-	2,000 U	210 U
2-Methylnaphthalene	UG/KG	36400	-	2,000 U	210 U
2-Methylphenol (o-cresol)	UG/KG	100 or MDL	-	2,000 U	210 U
2-Nitroaniline	UG/KG	430 or MDL	-	4,000 U	410 U
2-Nitrophenol	UG/KG	330 or MDL	-	2,000 U	210 U
3,3'-Dichlorobenzidine	UG/KG	50000	-	2,000 U	210 U
3-Nitroaniline	UG/KG	500 or MDL	-	4,000 U	410 U
4,6-Dinitro-2-methylphenol	UG/KG	50000	-	4,000 U	410 U
4-Bromophenyl-phenylether	UG/KG	50000	-	2,000 U	210 U
4-Chloro-3-methylphenol	UG/KG	240 or MDL	-	2,000 U	210 U
4-Chloroaniline	UG/KG	220 or MDL	-	2,000 U	210 U
4-Chlorophenyl-phenylether	UG/KG	50000	-	2,000 U	210 U
4-Methylphenol (p-cresol)	UG/KG	900	-	2,000 U	210 U
4-Nitroaniline	UG/KG	50000	-	4,000 U	410 U
4-Nitrophenol	UG/KG	100 or MDL	-	4,000 U	410 U
Acenaphthene	UG/KG	50000	-	160 J	210 U
Acenaphthylene	UG/KG	41000	-	740 J	16 J
Acetophenone	UG/KG	50000	-	2,000 U	210 U
Anthracene	UG/KG	50000	-	1,400 J	24 J

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

Advanced Selection: 2008 SS
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[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SS

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

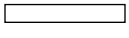
Location ID				SS-16	SS-16
Sample ID				SS-16-0.2-1.0	SS-16-1.0-2.0
Matrix				Soil	Soil
Depth Interval (ft)				0.2-1.0	1.0-2.0
Date Sampled				05/06/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		
Semivolatile Organic Compounds					
Atrazine	UG/KG	50000	-	2,000 U	210 U
Benzaldehyde	UG/KG	50000	-	2,000 U	210 U
Benzo(a)anthracene	UG/KG	224 or MDL	-	5,800	170 J
Benzo(a)pyrene	UG/KG	61 or MDL	-	4,600	150 J
Benzo(b)fluoranthene	UG/KG	1100	-	5,800	180 J
Benzo(g,h,i)perylene	UG/KG	50000	-	3,200	110 J
Benzo(k)fluoranthene	UG/KG	1100	-	2,000	61 J
bis(2-Chloroethoxy)methane	UG/KG	50000	-	2,000 U	210 U
bis(2-Chloroethyl)ether	UG/KG	50000	-	2,000 U	210 U
bis(2-Ethylhexyl)phthalate	UG/KG	50000	-	2,000 U	1,900
Butylbenzylphthalate	UG/KG	50000	-	2,000 U	210 U
Caprolactam	UG/KG	50000	-	2,000 U	210 U
Carbazole	UG/KG	50000	-	340 J	210 U
Chrysene	UG/KG	400	-	5,000	140 J
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	1,100 J	36 J
Dibenzofuran	UG/KG	6200	-	160 J	210 U
Diethylphthalate	UG/KG	7100	-	2,000 U	210 U
Dimethylphthalate	UG/KG	2000	-	2,000 U	210 U
Di-n-butylphthalate	UG/KG	8100	-	2,000 U	210 U
Di-n-octylphthalate	UG/KG	50000	-	2,000 U	210 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

Advanced Selection: 2008 SS
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[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SS

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-16	SS-16
Sample ID				SS-16-0.2-1.0	SS-16-1.0-2.0
Matrix				Soil	Soil
Depth Interval (ft)				0.2-1.0	1.0-2.0
Date Sampled				05/06/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		
Semivolatile Organic Compounds					
Fluoranthene	UG/KG	50000	-	9,300	270
Fluorene	UG/KG	50000	-	290 J	210 U
Hexachlorobenzene	UG/KG	410	-	2,000 U	210 U
Hexachlorobutadiene	UG/KG	50000	-	2,000 U	210 U
Hexachlorocyclopentadiene	UG/KG	50000	-	2,000 U	210 U
Hexachloroethane	UG/KG	50000	-	2,000 U	210 U
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	3,000	100 J
Isophorone	UG/KG	4400	-	2,000 U	210 U
Naphthalene	UG/KG	13000	-	2,000 U	210 U
Nitrobenzene	UG/KG	200 or MDL	-	2,000 U	210 U
N-Nitroso-di-n-propylamine	UG/KG	50000	-	2,000 U	210 U
N-Nitrosodiphenylamine	UG/KG	50000	-	2,000 U	210 U
Pentachlorophenol	UG/KG	1000 or MDL	-	4,000 U	410 U
Phenanthrene	UG/KG	50000	-	3,800	67 J
Phenol	UG/KG	30 or MDL	-	2,000 U	210 U
Pyrene	UG/KG	50000	-	7,700	230
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	53,890	1,554
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	54,390	3,454
Metals					
Arsenic	MG/KG	7.5	3-12	8.8	6.5

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

Advanced Selection: 2008 SS
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[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SS

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SS-16	SS-16
Sample ID				SS-16-0.2-1.0	SS-16-1.0-2.0
Matrix				Soil	Soil
Depth Interval (ft)				0.2-1.0	1.0-2.0
Date Sampled				05/06/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		
Metals					
Barium	MG/KG	300	15-600	180 J	99.1 J
Cadmium	MG/KG	1	0.1-1	1.2	0.24 U
Chromium	MG/KG	10	1.5-40	25.2 J	13.9 J
Lead	MG/KG	SB	500	293 J	32.1 J
Mercury	MG/KG	0.1	0.001-0.2	0.198 J	0.066 J
Selenium	MG/KG	2	0.1-3.9	4.9 U	4.7 U
Silver	MG/KG	SB	-	0.61 U	0.59 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

Advanced Selection: 2008 SS
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Printed: 8/13/2008 9:17:52 AM
[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SS

TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

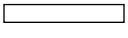
Location ID				SB-18	SB-18	SB-19	SB-19	SB-20
Sample ID				SB-18-11-12	SB-18-13-15	SB-19-13-14	SB-19-14-15	SB-20-10-11
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				11.0-12.0	13.0-15.0	13.0-14.0	14.0-15.0	10.0-11.0
Date Sampled				05/05/08	05/19/08	05/06/08	05/19/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	UG/KG	600	-	5 U	5 U	5 U	5 U	6 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	6000	-	5 U	5 U	5 U	5 U	6 U
1,1,2-Trichloroethane	UG/KG	-	-	5 U	5 U	5 U	5 U	6 U
1,1-Dichloroethane	UG/KG	200	-	5 U	5 U	5 U	5 U	6 U
1,1-Dichloroethene	UG/KG	400	-	5 U	5 U	5 U	5 U	6 U
1,2,4-Trichlorobenzene	UG/KG	3400	-	5 U	5 U	5 U	5 U	6 U
1,2-Dibromo-3-chloropropane	UG/KG	-	-	5 U	5 U	5 U	5 U	6 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	-	-	5 U	5 U	5 U	5 U	6 U
1,2-Dichlorobenzene	UG/KG	7900	-	5 U	5 U	5 U	5 U	6 U
1,2-Dichloroethane	UG/KG	100	-	5 U	5 U	5 U	5 U	6 U
1,2-Dichloroethene (cis)	UG/KG	300	-	5 U	5 U	5 U	5 U	6 U
1,2-Dichloroethene (trans)	UG/KG	300	-	5 U	5 U	5 U	5 U	6 U
1,2-Dichloropropane	UG/KG	-	-	5 U	5 U	5 U	5 U	6 U
1,3-Dichlorobenzene	UG/KG	600	-	5 U	5 U	5 U	5 U	6 U
1,3-Dichloropropene (cis)	UG/KG	300	-	5 U	5 U	5 U	5 U	6 U
1,3-Dichloropropene (trans)	UG/KG	300	-	5 U	5 U	5 U	5 U	6 U
1,4-Dichlorobenzene	UG/KG	8500	-	5 U	5 U	5 U	5 U	6 U
2-Hexanone	UG/KG	-	-	26 U	26 U	25 U	25 U	29 U
4-Methyl-2-pentanone	UG/KG	1000	-	26 U	26 U	25 U	25 U	29 U
Acetone	UG/KG	200	-	26 U	26 U	25 U	25 U	24 J

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SB-18	SB-18	SB-19	SB-19	SB-20
Sample ID				SB-18-11-12	SB-18-13-15	SB-19-13-14	SB-19-14-15	SB-20-10-11
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				11.0-12.0	13.0-15.0	13.0-14.0	14.0-15.0	10.0-11.0
Date Sampled				05/05/08	05/19/08	05/06/08	05/19/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
Benzene	UG/KG	60	-	5 U	5 U	5 U	5 U	4 J
Bromodichloromethane	UG/KG	-	-	5 U	5 U	5 U	5 U	6 U
Bromoform	UG/KG	-	-	5 U	5 U	5 U	5 U	6 U
Bromomethane	UG/KG	-	-	5 U	5 U	5 U	5 U	6 U
Carbon disulfide	UG/KG	2700	-	5 U	5 U	5 U	5 U	6 U
Carbon tetrachloride	UG/KG	600	-	5 U	5 U	5 U	5 U	6 U
Chlorobenzene	UG/KG	1700	-	5 U	5 U	5 U	5 U	6 U
Chloroethane	UG/KG	1900	-	5 U	5 U	5 U	5 U	6 U
Chloroform	UG/KG	300	-	5 U	5 U	5 U	5 U	6 U
Chloromethane	UG/KG	-	-	5 U	5 U	5 U	5 U	6 U
Cyclohexane	UG/KG	-	-	5 U	5 U	5 U	5 U	6 U
Dibromochloromethane	UG/KG	-	-	5 U	5 U	5 U	5 U	6 U
Dichlorodifluoromethane	UG/KG	-	-	5 U	5 U	5 U	5 U	6 U
Ethylbenzene	UG/KG	5500	-	5 U	5 U	5 U	5 U	14
Isopropylbenzene (Cumene)	UG/KG	2300	-	5 U	5 U	5 U	5 U	2 J
Methyl acetate	UG/KG	-	-	5 U	5 U	5 U	5 U	6 U
Methyl ethyl ketone (2-Butanone)	UG/KG	300	-	26 U	26 U	25 U	25 U	29 U
Methyl tert-butyl ether	UG/KG	120	-	5 U	5 U	5 U	5 U	6 U
Methylcyclohexane	UG/KG	-	-	5 U	5 U	5 U	5 U	6 U
Methylene chloride	UG/KG	100	-	6 U	5 U	5 U	5 U	6 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

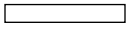
Location ID				SB-18	SB-18	SB-19	SB-19	SB-20
Sample ID				SB-18-11-12	SB-18-13-15	SB-19-13-14	SB-19-14-15	SB-20-10-11
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				11.0-12.0	13.0-15.0	13.0-14.0	14.0-15.0	10.0-11.0
Date Sampled				05/05/08	05/19/08	05/06/08	05/19/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
Styrene	UG/KG	-	-	5 U	5 U	5 U	5 U	6 U
Tetrachloroethene	UG/KG	1400	-	5 U	5 U	5 U	5 U	6 U
Toluene	UG/KG	1500	-	5 U	5 U	5 U	5 U	8
1,1,1-Trichloroethane	UG/KG	800	-	5 U	5 U	5 U	5 U	6 U
Trichloroethene	UG/KG	700	-	5 U	5 U	5 U	5 U	6 U
Trichlorofluoromethane	UG/KG	-	-	5 U	5 U	5 U	5 U	6 U
Vinyl chloride	UG/KG	200	-	11 U	10 U	10 U	10 U	12 U
Xylene (total)	UG/KG	1200	-	16 U	16 U	15 U	15 U	18 U
Total BTEX	UG/KG	-	-	ND	ND	ND	ND	26
Total Volatile Organic Compounds	UG/KG	10000	-	ND	ND	ND	ND	52
Semivolatile Organic Compounds								
1,1'-Biphenyl	UG/KG	50000	-	180 U	180 U	190 U	170 U	14,000
2,2'-oxybis(2-Chloropropane)	UG/KG	50000	-	180 U	180 U	190 U	170 U	4,000 U
2,4,5-Trichlorophenol	UG/KG	100	-	180 U	180 U	190 U	170 U	4,000 U
2,4,6-Trichlorophenol	UG/KG	50000	-	180 U	180 U	190 U	170 U	4,000 U
2,4-Dichlorophenol	UG/KG	400	-	180 U	180 U	190 U	170 U	4,000 U
2,4-Dimethylphenol	UG/KG	50000	-	180 U	180 U	190 U	170 U	2,700 J
2,4-Dinitrophenol	UG/KG	200 or MDL	-	360 U	350 U	370 U	340 U	7,700 U
2,4-Dinitrotoluene	UG/KG	50000	-	180 U	180 U	190 U	170 U	4,000 U
2,6-Dinitrotoluene	UG/KG	1000	-	180 U	180 U	190 U	170 U	4,000 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

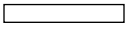
Location ID				SB-18	SB-18	SB-19	SB-19	SB-20
Sample ID				SB-18-11-12	SB-18-13-15	SB-19-13-14	SB-19-14-15	SB-20-10-11
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				11.0-12.0	13.0-15.0	13.0-14.0	14.0-15.0	10.0-11.0
Date Sampled				05/05/08	05/19/08	05/06/08	05/19/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
2-Chloronaphthalene	UG/KG	50000	-	180 U	180 U	190 U	170 U	4,000 U
2-Chlorophenol	UG/KG	800	-	180 U	180 U	190 U	170 U	4,000 U
2-Methylnaphthalene	UG/KG	36400	-	180 U	180 U	190 U	170 U	65,000
2-Methylphenol (o-cresol)	UG/KG	100 or MDL	-	180 U	180 U	190 U	170 U	940 J
2-Nitroaniline	UG/KG	430 or MDL	-	360 U	350 U	370 U	340 U	7,700 U
2-Nitrophenol	UG/KG	330 or MDL	-	180 U	180 U	190 U	170 U	4,000 U
3,3'-Dichlorobenzidine	UG/KG	50000	-	180 U	180 U	190 U	170 U	4,000 U
3-Nitroaniline	UG/KG	500 or MDL	-	360 U	350 U	370 U	340 U	7,700 U
4,6-Dinitro-2-methylphenol	UG/KG	50000	-	360 U	350 U	370 U	340 U	7,700 U
4-Bromophenyl-phenylether	UG/KG	50000	-	180 U	180 U	190 U	170 U	4,000 U
4-Chloro-3-methylphenol	UG/KG	240 or MDL	-	180 U	180 U	190 U	170 U	4,000 U
4-Chloroaniline	UG/KG	220 or MDL	-	180 U	180 U	190 U	170 U	4,000 U
4-Chlorophenyl-phenylether	UG/KG	50000	-	180 U	180 U	190 U	170 U	4,000 U
4-Methylphenol (p-cresol)	UG/KG	900	-	180 U	180 U	190 U	170 U	4,900
4-Nitroaniline	UG/KG	50000	-	360 U	350 U	370 U	340 U	7,700 U
4-Nitrophenol	UG/KG	100 or MDL	-	360 U	350 U	370 U	340 U	7,700 U
Acenaphthene	UG/KG	50000	-	180 U	180 U	190 U	170 U	20,000
Acenaphthylene	UG/KG	41000	-	180 U	180 U	190 U	170 U	40,000
Acetophenone	UG/KG	50000	-	180 U	180 U	190 U	170 U	4,000 U
Anthracene	UG/KG	50000	-	10 J	180 U	190 U	170 U	82,000

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

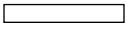
Location ID				SB-18	SB-18	SB-19	SB-19	SB-20
Sample ID				SB-18-11-12	SB-18-13-15	SB-19-13-14	SB-19-14-15	SB-20-10-11
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				11.0-12.0	13.0-15.0	13.0-14.0	14.0-15.0	10.0-11.0
Date Sampled				05/05/08	05/19/08	05/06/08	05/19/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Atrazine	UG/KG	50000	-	180 U	180 U	190 U	170 U	4,000 U
Benzaldehyde	UG/KG	50000	-	180 U	180 U	190 U	170 U	4,000 U
Benzo(a)anthracene	UG/KG	224 or MDL	-	180 U	180 U	190 U	170 U	83,000
Benzo(a)pyrene	UG/KG	61 or MDL	-	8 J	180 U	190 U	170 U	50,000
Benzo(b)fluoranthene	UG/KG	1100	-	11 J	180 U	190 U	170 U	59,000
Benzo(g,h,i)perylene	UG/KG	50000	-	180 U	180 U	190 U	170 U	18,000
Benzo(k)fluoranthene	UG/KG	1100	-	180 U	180 U	190 U	170 U	22,000
bis(2-Chloroethoxy)methane	UG/KG	50000	-	180 U	180 U	190 U	170 U	4,000 U
bis(2-Chloroethyl)ether	UG/KG	50000	-	180 U	180 U	190 U	170 U	4,000 U
bis(2-Ethylhexyl)phthalate	UG/KG	50000	-	180 U	180 U	190 U	170 U	4,000 U
Butylbenzylphthalate	UG/KG	50000	-	180 U	180 U	190 U	170 U	4,000 U
Caprolactam	UG/KG	50000	-	180 U	180 U	190 U	170 U	4,000 U
Carbazole	UG/KG	50000	-	180 U	180 U	190 U	170 U	31,000
Chrysene	UG/KG	400	-	13 J	180 U	190 U	170 U	74,000
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	180 U	180 U	190 U	170 U	8,600
Dibenzofuran	UG/KG	6200	-	180 U	180 U	190 U	170 U	62,000
Diethylphthalate	UG/KG	7100	-	180 U	180 U	190 U	170 U	4,000 U
Dimethylphthalate	UG/KG	2000	-	180 U	180 U	190 U	170 U	4,000 U
Di-n-butylphthalate	UG/KG	8100	-	180 U	180 U	190 U	170 U	4,000 U
Di-n-octylphthalate	UG/KG	50000	-	180 U	180 U	190 U	170 U	4,000 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SB-18	SB-18	SB-19	SB-19	SB-20
Sample ID				SB-18-11-12	SB-18-13-15	SB-19-13-14	SB-19-14-15	SB-20-10-11
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				11.0-12.0	13.0-15.0	13.0-14.0	14.0-15.0	10.0-11.0
Date Sampled				05/05/08	05/19/08	05/06/08	05/19/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Fluoranthene	UG/KG	50000	-	33 J	180 U	190 U	170 U	240,000 D
Fluorene	UG/KG	50000	-	180 U	180 U	190 U	170 U	93,000
Hexachlorobenzene	UG/KG	410	-	180 U	180 U	190 U	170 U	4,000 U
Hexachlorobutadiene	UG/KG	50000	-	180 U	180 U	190 U	170 U	4,000 U
Hexachlorocyclopentadiene	UG/KG	50000	-	180 U	180 U	190 U	170 U	4,000 U
Hexachloroethane	UG/KG	50000	-	180 U	180 U	190 U	170 U	4,000 U
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	180 U	180 U	190 U	170 U	19,000
Isophorone	UG/KG	4400	-	180 U	180 U	190 U	170 U	4,000 U
Naphthalene	UG/KG	13000	-	15 J	180 U	190 U	170 U	93,000
Nitrobenzene	UG/KG	200 or MDL	-	180 U	180 U	190 U	170 U	4,000 U
N-Nitroso-di-n-propylamine	UG/KG	50000	-	180 U	180 U	190 U	170 U	4,000 U
N-Nitrosodiphenylamine	UG/KG	50000	-	180 U	180 U	190 U	170 U	4,000 U
Pentachlorophenol	UG/KG	1000 or MDL	-	360 U	350 U	370 U	340 U	7,700 U
Phenanthrene	UG/KG	50000	-	31 J	180 U	190 U	170 U	370,000 D
Phenol	UG/KG	30 or MDL	-	180 U	180 U	190 U	170 U	2,400 J
Pyrene	UG/KG	50000	-	26 J	180 U	190 U	170 U	160,000 D
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	147	ND	ND	ND	1,431,600
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	147	ND	ND	ND	1,614,540
Metals								
Arsenic	MG/KG	7.5	3-12	5.0	3.9	4.2	2.4	17.2

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SB-18	SB-18	SB-19	SB-19	SB-20
Sample ID				SB-18-11-12	SB-18-13-15	SB-19-13-14	SB-19-14-15	SB-20-10-11
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				11.0-12.0	13.0-15.0	13.0-14.0	14.0-15.0	10.0-11.0
Date Sampled				05/05/08	05/19/08	05/06/08	05/19/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Barium	MG/KG	300	15-600	36.6 J	33.2 J	39.1 J	28.2 J	83.9 J
Cadmium	MG/KG	1	0.1-1	0.20 U	0.21 U	0.24 U	0.22 U	0.70
Chromium	MG/KG	10	1.5-40	13.0	12.3 J	9.6	8.3 J	77.0
Lead	MG/KG	SB	500	7.7 J	7.2	6.5 J	4.6	99.9 J
Mercury	MG/KG	0.1	0.001-0.2	0.022 U	0.020 U	0.024 U	0.020 U	0.061
Selenium	MG/KG	2	0.1-3.9	3.9 U	4.1 U	4.7 U	4.5 U	4.7 U
Silver	MG/KG	SB	-	0.49 U	0.52 U	0.59 U	0.56 U	0.59 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

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TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

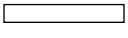
Location ID				SB-21	SB-21	SB-21	SB-22	SB-22
Sample ID				SB-21-6-8	FD-051908	SB-21-13-15	SB-22-4-8	SB-22-8-11
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				6.0-8.0	13.0-15.0	13.0-15.0	4.0-8.0	8.0-11.0
Date Sampled				05/05/08	05/19/08	05/19/08	05/05/08	05/05/08
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (0-1)			
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	UG/KG	600	-	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	6000	-	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	UG/KG	200	-	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	UG/KG	400	-	5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	UG/KG	3400	-	5 U	5 U	5 U	5 U	5 U
1,2-Dibromo-3-chloropropane	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	UG/KG	7900	-	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	UG/KG	100	-	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (cis)	UG/KG	300	-	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (trans)	UG/KG	300	-	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	UG/KG	600	-	5 U	5 U	5 U	5 U	5 U
1,3-Dichloropropene (cis)	UG/KG	300	-	5 U	5 U	5 U	5 U	5 U
1,3-Dichloropropene (trans)	UG/KG	300	-	5 U	5 U	5 U	5 U	5 U
1,4-Dichlorobenzene	UG/KG	8500	-	5 U	5 U	5 U	5 U	5 U
2-Hexanone	UG/KG	-	-	27 U	25 U	26 U	27 U	27 U
4-Methyl-2-pentanone	UG/KG	1000	-	27 U	25 U	26 U	27 U	27 U
Acetone	UG/KG	200	-	27 U	25 U	26 U	27 U	27 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

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[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SB

TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SB-21	SB-21	SB-21	SB-22	SB-22
Sample ID				SB-21-6-8	FD-051908	SB-21-13-15	SB-22-4-8	SB-22-8-11
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				6.0-8.0	13.0-15.0	13.0-15.0	4.0-8.0	8.0-11.0
Date Sampled				05/05/08	05/19/08	05/19/08	05/05/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		Field Duplicate (0-1)			
Volatile Organic Compounds								
Benzene	UG/KG	60	-	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
Bromoform	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
Bromomethane	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	UG/KG	2700	-	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	UG/KG	600	-	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	UG/KG	1700	-	5 U	5 U	5 U	5 U	5 U
Chloroethane	UG/KG	1900	-	5 U	5 U	5 U	5 U	5 U
Chloroform	UG/KG	300	-	5 U	5 U	5 U	5 U	5 U
Chloromethane	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
Cyclohexane	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	UG/KG	5500	-	5 U	5 U	5 U	5 U	5 U
Isopropylbenzene (Cumene)	UG/KG	2300	-	5 U	5 U	5 U	5 U	5 U
Methyl acetate	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
Methyl ethyl ketone (2-Butanone)	UG/KG	300	-	27 U	25 U	26 U	27 U	27 U
Methyl tert-butyl ether	UG/KG	120	-	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
Methylene chloride	UG/KG	100	-	6 U	5 U	6 U	6 U	6 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

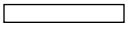
Location ID				SB-21	SB-21	SB-21	SB-22	SB-22
Sample ID				SB-21-6-8	FD-051908	SB-21-13-15	SB-22-4-8	SB-22-8-11
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				6.0-8.0	13.0-15.0	13.0-15.0	4.0-8.0	8.0-11.0
Date Sampled				05/05/08	05/19/08	05/19/08	05/05/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		Field Duplicate (0-1)			
Volatile Organic Compounds								
Styrene	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	UG/KG	1400	-	5 U	5 U	5 U	5 U	5 U
Toluene	UG/KG	1500	-	5 U	5 U	5 U	5 U	5 U
1,1,1-Trichloroethane	UG/KG	800	-	5 U	5 U	5 U	5 U	5 U
Trichloroethene	UG/KG	700	-	5 U	5 U	5 U	5 U	5 U
Trichlorofluoromethane	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	UG/KG	200	-	11 U	10 U	10 U	11 U	11 U
Xylene (total)	UG/KG	1200	-	16 U	15 U	16 U	16 U	16 U
Total BTEX	UG/KG	-	-	ND	ND	ND	ND	ND
Total Volatile Organic Compounds	UG/KG	10000	-	ND	ND	ND	ND	ND
Semivolatile Organic Compounds								
1,1'-Biphenyl	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
2,2'-oxybis(2-Chloropropane)	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
2,4,5-Trichlorophenol	UG/KG	100	-	930 U	180 U	180 U	220 U	180 U
2,4,6-Trichlorophenol	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
2,4-Dichlorophenol	UG/KG	400	-	930 U	180 U	180 U	220 U	180 U
2,4-Dimethylphenol	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
2,4-Dinitrophenol	UG/KG	200 or MDL	-	1,800 U	350 U	340 U	430 U	350 U
2,4-Dinitrotoluene	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
2,6-Dinitrotoluene	UG/KG	1000	-	930 U	180 U	180 U	220 U	180 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SB-21	SB-21	SB-21	SB-22	SB-22
Sample ID				SB-21-6-8	FD-051908	SB-21-13-15	SB-22-4-8	SB-22-8-11
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				6.0-8.0	13.0-15.0	13.0-15.0	4.0-8.0	8.0-11.0
Date Sampled				05/05/08	05/19/08	05/19/08	05/05/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		Field Duplicate (0-1)			
Semivolatile Organic Compounds								
2-Chloronaphthalene	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
2-Chlorophenol	UG/KG	800	-	930 U	180 U	180 U	220 U	180 U
2-Methylnaphthalene	UG/KG	36400	-	930 U	180 U	180 U	220 U	180 U
2-Methylphenol (o-cresol)	UG/KG	100 or MDL	-	930 U	180 U	180 U	220 U	180 U
2-Nitroaniline	UG/KG	430 or MDL	-	1,800 U	350 U	340 U	430 U	350 U
2-Nitrophenol	UG/KG	330 or MDL	-	930 U	180 U	180 U	220 U	180 U
3,3'-Dichlorobenzidine	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
3-Nitroaniline	UG/KG	500 or MDL	-	1,800 U	350 U	340 U	430 U	350 U
4,6-Dinitro-2-methylphenol	UG/KG	50000	-	1,800 U	350 U	340 U	430 U	350 U
4-Bromophenyl-phenylether	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
4-Chloro-3-methylphenol	UG/KG	240 or MDL	-	930 U	180 U	180 U	220 U	180 U
4-Chloroaniline	UG/KG	220 or MDL	-	930 U	180 U	180 U	220 U	180 U
4-Chlorophenyl-phenylether	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
4-Methylphenol (p-cresol)	UG/KG	900	-	930 U	180 U	180 U	220 U	180 U
4-Nitroaniline	UG/KG	50000	-	1,800 U	350 U	340 U	430 U	350 U
4-Nitrophenol	UG/KG	100 or MDL	-	1,800 U	350 U	340 U	430 U	350 U
Acenaphthene	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
Acenaphthylene	UG/KG	41000	-	930 U	180 U	180 U	220 U	180 U
Acetophenone	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
Anthracene	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

Advanced Selection: 2008 SOIL BORINGS
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[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SB

TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SB-21	SB-21	SB-21	SB-22	SB-22
Sample ID				SB-21-6-8	FD-051908	SB-21-13-15	SB-22-4-8	SB-22-8-11
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				6.0-8.0	13.0-15.0	13.0-15.0	4.0-8.0	8.0-11.0
Date Sampled				05/05/08	05/19/08	05/19/08	05/05/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		Field Duplicate (0-1)			
Semivolatile Organic Compounds								
Atrazine	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
Benzaldehyde	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
Benzo(a)anthracene	UG/KG	224 or MDL	-	930 U	180 U	180 U	220 U	180 U
Benzo(a)pyrene	UG/KG	61 or MDL	-	930 U	180 U	180 U	10 J	180 U
Benzo(b)fluoranthene	UG/KG	1100	-	930 U	180 U	180 U	16 J	180 U
Benzo(g,h,i)perylene	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
Benzo(k)fluoranthene	UG/KG	1100	-	930 U	180 U	180 U	220 U	180 U
bis(2-Chloroethoxy)methane	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
bis(2-Chloroethyl)ether	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
bis(2-Ethylhexyl)phthalate	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
Butylbenzylphthalate	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
Caprolactam	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
Carbazole	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
Chrysene	UG/KG	400	-	930 U	180 U	180 U	13 J	180 U
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	930 U	180 U	180 U	220 U	180 U
Dibenzofuran	UG/KG	6200	-	930 U	180 U	180 U	220 U	180 U
Diethylphthalate	UG/KG	7100	-	930 U	180 U	180 U	220 U	180 U
Dimethylphthalate	UG/KG	2000	-	930 U	180 U	180 U	220 U	180 U
Di-n-butylphthalate	UG/KG	8100	-	930 U	180 U	180 U	220 U	180 U
Di-n-octylphthalate	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

Advanced Selection: 2008 SOIL BORINGS
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TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SB-21	SB-21	SB-21	SB-22	SB-22
Sample ID				SB-21-6-8	FD-051908	SB-21-13-15	SB-22-4-8	SB-22-8-11
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				6.0-8.0	13.0-15.0	13.0-15.0	4.0-8.0	8.0-11.0
Date Sampled				05/05/08	05/19/08	05/19/08	05/05/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		Field Duplicate (0-1)			
Semivolatile Organic Compounds								
Fluoranthene	UG/KG	50000	-	930 U	180 U	180 U	27 J	180 U
Fluorene	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
Hexachlorobenzene	UG/KG	410	-	930 U	180 U	180 U	220 U	180 U
Hexachlorobutadiene	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
Hexachlorocyclopentadiene	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
Hexachloroethane	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	930 U	180 U	180 U	220 U	180 U
Isophorone	UG/KG	4400	-	930 U	180 U	180 U	220 U	180 U
Naphthalene	UG/KG	13000	-	930 U	180 U	180 U	220 U	180 U
Nitrobenzene	UG/KG	200 or MDL	-	930 U	180 U	180 U	220 U	180 U
N-Nitroso-di-n-propylamine	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
N-Nitrosodiphenylamine	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
Pentachlorophenol	UG/KG	1000 or MDL	-	1,800 U	350 U	340 U	430 U	350 U
Phenanthrene	UG/KG	50000	-	930 U	180 U	180 U	18 J	180 U
Phenol	UG/KG	30 or MDL	-	930 U	180 U	180 U	220 U	180 U
Pyrene	UG/KG	50000	-	930 U	180 U	180 U	220 U	180 U
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	ND	ND	ND	84	ND
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	ND	ND	ND	84	ND
Metals								
Arsenic	MG/KG	7.5	3-12	4.7	4.1	3.7	6.7	3.3

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SB-21	SB-21	SB-21	SB-22	SB-22
Sample ID				SB-21-6-8	FD-051908	SB-21-13-15	SB-22-4-8	SB-22-8-11
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				6.0-8.0	13.0-15.0	13.0-15.0	4.0-8.0	8.0-11.0
Date Sampled				05/05/08	05/19/08	05/19/08	05/05/08	05/05/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		Field Duplicate (0-1)			
Metals								
Barium	MG/KG	300	15-600	45.5 J	37.0 J	31.4 J	44.5 J	24.8 J
Cadmium	MG/KG	1	0.1-1	0.23 U	0.22 U	0.21 U	0.28 U	0.23 U
Chromium	MG/KG	10	1.5-40	12.4	10.0 J	10.0 J	14.8	11.7
Lead	MG/KG	SB	500	10.4 J	6.2	7.5	16.0 J	5.7 J
Mercury	MG/KG	0.1	0.001-0.2	0.036	0.021 U	0.021 U	0.092	0.021 U
Selenium	MG/KG	2	0.1-3.9	4.6 U	4.4 U	4.1 U	5.6 U	4.5 U
Silver	MG/KG	SB	-	0.58 U	0.55 U	0.52 U	0.70 U	0.57 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

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TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SB-22	SB-23	SB-24	SB-24	SB-25
Sample ID				SB-22-13-15	SB-23-3-6	FD-SB-050608	SB-24-3-6	SB-25-3-6
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				13.0-15.0	3.0-6.0	3.0-6.0	3.0-6.0	3.0-6.0
Date Sampled				05/19/08	05/06/08	05/06/08	05/06/08	05/06/08
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (0-1)		
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	UG/KG	600	-	6 U	6 U	5 U	5 U	6 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	6000	-	6 U	6 U	5 U	5 U	6 U
1,1,2-Trichloroethane	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
1,1-Dichloroethane	UG/KG	200	-	6 U	6 U	5 U	5 U	6 U
1,1-Dichloroethene	UG/KG	400	-	6 U	6 U	5 U	5 U	6 U
1,2,4-Trichlorobenzene	UG/KG	3400	-	6 U	6 U	5 U	5 U	6 U
1,2-Dibromo-3-chloropropane	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
1,2-Dichlorobenzene	UG/KG	7900	-	6 U	6 U	5 U	5 U	6 U
1,2-Dichloroethane	UG/KG	100	-	6 U	6 U	5 U	5 U	6 U
1,2-Dichloroethene (cis)	UG/KG	300	-	6 U	6 U	5 U	5 U	6 U
1,2-Dichloroethene (trans)	UG/KG	300	-	6 U	6 U	5 U	5 U	6 U
1,2-Dichloropropane	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
1,3-Dichlorobenzene	UG/KG	600	-	6 U	6 U	5 U	5 U	6 U
1,3-Dichloropropene (cis)	UG/KG	300	-	6 U	6 U	5 U	5 U	6 U
1,3-Dichloropropene (trans)	UG/KG	300	-	6 U	6 U	5 U	5 U	6 U
1,4-Dichlorobenzene	UG/KG	8500	-	6 U	6 U	5 U	5 U	6 U
2-Hexanone	UG/KG	-	-	28 U	29 U	27 U	27 U	31 U
4-Methyl-2-pentanone	UG/KG	1000	-	28 U	29 U	27 U	27 U	31 U
Acetone	UG/KG	200	-	28 U	29 U	27 U	27 U	31 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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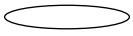
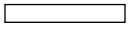

Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SB-22	SB-23	SB-24	SB-24	SB-25
Sample ID				SB-22-13-15	SB-23-3-6	FD-SB-050608	SB-24-3-6	SB-25-3-6
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				13.0-15.0	3.0-6.0	3.0-6.0	3.0-6.0	3.0-6.0
Date Sampled				05/19/08	05/06/08	05/06/08	05/06/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**			Field Duplicate (0-1)		
Volatile Organic Compounds								
Benzene	UG/KG	60	-	6 U	6 U	5 U	5 U	6 U
Bromodichloromethane	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
Bromoform	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
Bromomethane	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
Carbon disulfide	UG/KG	2700	-	6 U	6 U	5 U	5 U	6 U
Carbon tetrachloride	UG/KG	600	-	6 U	6 U	5 U	5 U	6 U
Chlorobenzene	UG/KG	1700	-	6 U	6 U	5 U	5 U	6 U
Chloroethane	UG/KG	1900	-	6 U	6 U	5 U	5 U	6 U
Chloroform	UG/KG	300	-	6 U	6 U	5 U	5 U	6 U
Chloromethane	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
Cyclohexane	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
Dibromochloromethane	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
Dichlorodifluoromethane	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
Ethylbenzene	UG/KG	5500	-	6 U	6 U	5 U	5 U	6 U
Isopropylbenzene (Cumene)	UG/KG	2300	-	6 U	6 U	5 U	5 U	6 U
Methyl acetate	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
Methyl ethyl ketone (2-Butanone)	UG/KG	300	-	28 U	29 U	27 U	27 U	31 U
Methyl tert-butyl ether	UG/KG	120	-	6 U	6 U	5 U	5 U	6 U
Methylcyclohexane	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
Methylene chloride	UG/KG	100	-	8 U	6 U	5 U	5 U	7 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

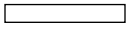
Location ID				SB-22	SB-23	SB-24	SB-24	SB-25
Sample ID				SB-22-13-15	SB-23-3-6	FD-SB-050608	SB-24-3-6	SB-25-3-6
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				13.0-15.0	3.0-6.0	3.0-6.0	3.0-6.0	3.0-6.0
Date Sampled				05/19/08	05/06/08	05/06/08	05/06/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**			Field Duplicate (0-1)		
Volatile Organic Compounds								
Styrene	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
Tetrachloroethene	UG/KG	1400	-	6 U	6 U	5 U	5 U	6 U
Toluene	UG/KG	1500	-	6 U	6 U	5 U	5 U	6 U
1,1,1-Trichloroethane	UG/KG	800	-	6 U	6 U	5 U	5 U	6 U
Trichloroethene	UG/KG	700	-	6 U	6 U	5 U	5 U	6 U
Trichlorofluoromethane	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
Vinyl chloride	UG/KG	200	-	11 U	12 U	11 U	11 U	12 U
Xylene (total)	UG/KG	1200	-	16 U	18 U	16 U	16 U	19 U
Total BTEX	UG/KG	-	-	ND	ND	ND	ND	ND
Total Volatile Organic Compounds	UG/KG	10000	-	ND	ND	ND	ND	ND
Semivolatile Organic Compounds								
1,1'-Biphenyl	UG/KG	50000	-	190 U	970 U	1,000 U	190 U	2,200 U
2,2'-oxybis(2-Chloropropane)	UG/KG	50000	-	190 U	970 U	1,000 U	190 U	2,200 U
2,4,5-Trichlorophenol	UG/KG	100	-	190 U	970 U	1,000 U	190 U	2,200 U
2,4,6-Trichlorophenol	UG/KG	50000	-	190 U	970 U	1,000 U	190 U	2,200 U
2,4-Dichlorophenol	UG/KG	400	-	190 U	970 U	1,000 U	190 U	2,200 U
2,4-Dimethylphenol	UG/KG	50000	-	190 U	970 U	1,000 U	190 U	2,200 U
2,4-Dinitrophenol	UG/KG	200 or MDL	-	360 U	1,900 U	1,900 U	370 U	4,200 U
2,4-Dinitrotoluene	UG/KG	50000	-	190 U	970 U	1,000 U	190 U	2,200 U
2,6-Dinitrotoluene	UG/KG	1000	-	190 U	970 U	1,000 U	190 U	2,200 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)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Detection Limits shown are PQL

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TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SB-22	SB-23	SB-24	SB-24	SB-25
Sample ID				SB-22-13-15	SB-23-3-6	FD-SB-050608	SB-24-3-6	SB-25-3-6
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				13.0-15.0	3.0-6.0	3.0-6.0	3.0-6.0	3.0-6.0
Date Sampled				05/19/08	05/06/08	05/06/08	05/06/08	05/06/08
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (0-1)		
Semivolatile Organic Compounds								
2-Chloronaphthalene	UG/KG	50000	-	190 U	970 U	1,000 U	190 U	2,200 U
2-Chlorophenol	UG/KG	800	-	190 U	970 U	1,000 U	190 U	2,200 U
2-Methylnaphthalene	UG/KG	36400	-	190 U	970 U	1,000 U	190 U	2,200 U
2-Methylphenol (o-cresol)	UG/KG	100 or MDL	-	190 U	970 U	1,000 U	190 U	2,200 U
2-Nitroaniline	UG/KG	430 or MDL	-	360 U	1,900 U	1,900 U	370 U	4,200 U
2-Nitrophenol	UG/KG	330 or MDL	-	190 U	970 U	1,000 U	190 U	2,200 U
3,3'-Dichlorobenzidine	UG/KG	50000	-	190 U	970 U	1,000 U	190 U	2,200 U
3-Nitroaniline	UG/KG	500 or MDL	-	360 U	1,900 U	1,900 U	370 U	4,200 U
4,6-Dinitro-2-methylphenol	UG/KG	50000	-	360 U	1,900 U	1,900 U	370 U	4,200 U
4-Bromophenyl-phenylether	UG/KG	50000	-	190 U	970 U	1,000 U	190 U	2,200 U
4-Chloro-3-methylphenol	UG/KG	240 or MDL	-	190 U	970 U	1,000 U	190 U	2,200 U
4-Chloroaniline	UG/KG	220 or MDL	-	190 U	970 U	1,000 U	190 U	2,200 U
4-Chlorophenyl-phenylether	UG/KG	50000	-	190 U	970 U	1,000 U	190 U	2,200 U
4-Methylphenol (p-cresol)	UG/KG	900	-	190 U	970 U	1,000 U	190 U	2,200 U
4-Nitroaniline	UG/KG	50000	-	360 U	1,900 U	1,900 U	370 U	4,200 U
4-Nitrophenol	UG/KG	100 or MDL	-	360 U	1,900 U	1,900 U	370 U	4,200 U
Acenaphthene	UG/KG	50000	-	190 U	970 U	1,000 U	190 U	2,200 U
Acenaphthylene	UG/KG	41000	-	190 U	130 J	1,000 U	190 U	2,000 J
Acetophenone	UG/KG	50000	-	190 U	970 U	1,000 U	190 U	2,200 U
Anthracene	UG/KG	50000	-	190 U	94 J	1,000 U	190 U	1,600 J

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

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TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

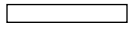
Location ID				SB-22	SB-23	SB-24	SB-24	SB-25
Sample ID				SB-22-13-15	SB-23-3-6	FD-SB-050608	SB-24-3-6	SB-25-3-6
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				13.0-15.0	3.0-6.0	3.0-6.0	3.0-6.0	3.0-6.0
Date Sampled				05/19/08	05/06/08	05/06/08	05/06/08	05/06/08
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (0-1)		
Semivolatile Organic Compounds								
Atrazine	UG/KG	50000	-	190 U	970 U	1,000 U	190 U	2,200 U
Benzaldehyde	UG/KG	50000	-	190 U	970 U	1,000 U	190 U	2,200 U
Benzo(a)anthracene	UG/KG	224 or MDL	-	190 U	490 J	92 J	15 J	12,000
Benzo(a)pyrene	UG/KG	61 or MDL	-	190 U	350 J	61 J	190 U	9,000
Benzo(b)fluoranthene	UG/KG	1100	-	190 U	420 J	120 J	9 J	10,000
Benzo(g,h,i)perylene	UG/KG	50000	-	190 U	200 J	1,000 U	190 U	5,300
Benzo(k)fluoranthene	UG/KG	1100	-	190 U	180 J	1,000 U	190 U	3,400
bis(2-Chloroethoxy)methane	UG/KG	50000	-	190 U	970 U	1,000 U	190 U	2,200 U
bis(2-Chloroethyl)ether	UG/KG	50000	-	190 U	970 U	1,000 U	190 U	2,200 U
bis(2-Ethylhexyl)phthalate	UG/KG	50000	-	190 U	970 U	1,000 U	190 U	2,200 U
Butylbenzylphthalate	UG/KG	50000	-	190 U	970 U	1,000 U	190 U	2,200 U
Caprolactam	UG/KG	50000	-	190 U	970 U	1,000 U	190 U	2,200 U
Carbazole	UG/KG	50000	-	190 U	970 U	1,000 U	190 U	610 J
Chrysene	UG/KG	400	-	190 U	970 U	1,000 U	190 U	8,300
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	190 U	950 J	920 J	190 U	3,100
Dibenzofuran	UG/KG	6200	-	190 U	970 U	1,000 U	190 U	120 J
Diethylphthalate	UG/KG	7100	-	190 U	970 U	1,000 U	190 U	2,200 U
Dimethylphthalate	UG/KG	2000	-	190 U	970 U	1,000 U	190 U	2,200 U
Di-n-butylphthalate	UG/KG	8100	-	190 U	970 U	1,000 U	190 U	2,200 U
Di-n-octylphthalate	UG/KG	50000	-	190 U	970 U	1,000 U	190 U	2,200 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SB-22	SB-23	SB-24	SB-24	SB-25
Sample ID				SB-22-13-15	SB-23-3-6	FD-SB-050608	SB-24-3-6	SB-25-3-6
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				13.0-15.0	3.0-6.0	3.0-6.0	3.0-6.0	3.0-6.0
Date Sampled				05/19/08	05/06/08	05/06/08	05/06/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**			Field Duplicate (0-1)		
Semivolatile Organic Compounds								
Fluoranthene	UG/KG	50000	-	190 U	720 J	180 J	23 J	26,000
Fluorene	UG/KG	50000	-	190 U	970 U	1,000 U	190 U	180 J
Hexachlorobenzene	UG/KG	410	-	190 U	970 U	1,000 U	190 U	2,200 U
Hexachlorobutadiene	UG/KG	50000	-	190 U	970 U	1,000 U	190 U	2,200 U
Hexachlorocyclopentadiene	UG/KG	50000	-	190 U	970 U	1,000 U	190 U	2,200 U
Hexachloroethane	UG/KG	50000	-	190 U	970 U	1,000 U	190 U	2,200 U
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	190 U	180 J	1,000 U	190 U	4,800
Isophorone	UG/KG	4400	-	190 U	970 U	1,000 U	190 U	2,200 U
Naphthalene	UG/KG	13000	-	190 U	970 U	1,000 U	190 U	390 J
Nitrobenzene	UG/KG	200 or MDL	-	190 U	970 U	1,000 U	190 U	2,200 U
N-Nitroso-di-n-propylamine	UG/KG	50000	-	190 U	970 U	1,000 U	190 U	2,200 U
N-Nitrosodiphenylamine	UG/KG	50000	-	190 U	970 U	1,000 U	190 U	2,200 U
Pentachlorophenol	UG/KG	1000 or MDL	-	360 U	1,900 U	1,900 U	370 U	4,200 U
Phenanthrene	UG/KG	50000	-	190 U	340 J	100 J	11 J	3,000
Phenol	UG/KG	30 or MDL	-	190 U	970 U	1,000 U	190 U	2,200 U
Pyrene	UG/KG	50000	-	190 U	600 J	130 J	20 J	20,000
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	ND	4,654	1,603	78	109,070
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	ND	4,654	1,603	78	109,800
Metals								
Arsenic	MG/KG	7.5	3-12	4.8	6.9	6.8	5.0	5.0

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SB-22	SB-23	SB-24	SB-24	SB-25
Sample ID				SB-22-13-15	SB-23-3-6	FD-SB-050608	SB-24-3-6	SB-25-3-6
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				13.0-15.0	3.0-6.0	3.0-6.0	3.0-6.0	3.0-6.0
Date Sampled				05/19/08	05/06/08	05/06/08	05/06/08	05/06/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**			Field Duplicate (0-1)		
Metals								
Barium	MG/KG	300	15-600	43.4 J	62.4 J	46.3 J	32.4 J	44.1 J
Cadmium	MG/KG	1	0.1-1	0.24 U	0.24 U	0.24 U	0.21 U	0.27 U
Chromium	MG/KG	10	1.5-40	12.2 J	16.8	16.4	15.2	10.2
Lead	MG/KG	SB	500	7.5	72.2 J	15.5 J	13.5 J	37.0 J
Mercury	MG/KG	0.1	0.001-0.2	0.023 U	0.190	0.062	0.059	0.089
Selenium	MG/KG	2	0.1-3.9	4.9 U	4.8 U	4.8 U	4.3 U	5.5 U
Silver	MG/KG	SB	-	0.61 U	0.61 U	0.60 U	0.53 U	0.68 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

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[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SB

TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SB-26	SB-27	SB-27	SB-28	SB-28
Sample ID				SB-26-3-6	SB-27-9-10	SB-27-12-14	SB-28-8-10	SB-28-12-14
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-6.0	9.0-10.0	12.0-14.0	8.0-10.0	12.0-14.0
Date Sampled				05/06/08	05/19/08	05/19/08	05/19/08	05/19/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	UG/KG	600	-	6 U	NA	6 U	5 U	5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	6000	-	6 U	NA	6 U	5 U	5 U
1,1,2-Trichloroethane	UG/KG	-	-	6 U	NA	6 U	5 U	5 U
1,1-Dichloroethane	UG/KG	200	-	6 U	NA	6 U	5 U	5 U
1,1-Dichloroethene	UG/KG	400	-	6 U	NA	6 U	5 U	5 U
1,2,4-Trichlorobenzene	UG/KG	3400	-	6 U	NA	6 U	5 U	5 U
1,2-Dibromo-3-chloropropane	UG/KG	-	-	6 U	NA	6 U	5 U	5 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	-	-	6 U	NA	6 U	5 U	5 U
1,2-Dichlorobenzene	UG/KG	7900	-	6 U	NA	6 U	5 U	5 U
1,2-Dichloroethane	UG/KG	100	-	6 U	NA	6 U	5 U	5 U
1,2-Dichloroethene (cis)	UG/KG	300	-	6 U	NA	6 U	5 U	5 U
1,2-Dichloroethene (trans)	UG/KG	300	-	6 U	NA	6 U	5 U	5 U
1,2-Dichloropropane	UG/KG	-	-	6 U	NA	6 U	5 U	5 U
1,3-Dichlorobenzene	UG/KG	600	-	6 U	NA	6 U	5 U	5 U
1,3-Dichloropropene (cis)	UG/KG	300	-	6 U	NA	6 U	5 U	5 U
1,3-Dichloropropene (trans)	UG/KG	300	-	6 U	NA	6 U	5 U	5 U
1,4-Dichlorobenzene	UG/KG	8500	-	6 U	NA	6 U	5 U	5 U
2-Hexanone	UG/KG	-	-	28 U	NA	28 U	26 U	26 U
4-Methyl-2-pentanone	UG/KG	1000	-	28 U	NA	28 U	26 U	26 U
Acetone	UG/KG	200	-	28 U	NA	28 U	26 U	26 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SB-26	SB-27	SB-27	SB-28	SB-28
Sample ID				SB-26-3-6	SB-27-9-10	SB-27-12-14	SB-28-8-10	SB-28-12-14
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-6.0	9.0-10.0	12.0-14.0	8.0-10.0	12.0-14.0
Date Sampled				05/06/08	05/19/08	05/19/08	05/19/08	05/19/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
Benzene	UG/KG	60	-	6 U	NA	6 U	5 U	5 U
Bromodichloromethane	UG/KG	-	-	6 U	NA	6 U	5 U	5 U
Bromoform	UG/KG	-	-	6 U	NA	6 U	5 U	5 U
Bromomethane	UG/KG	-	-	6 U	NA	6 U	5 U	5 U
Carbon disulfide	UG/KG	2700	-	6 U	NA	6 U	5 U	5 U
Carbon tetrachloride	UG/KG	600	-	6 U	NA	6 U	5 U	5 U
Chlorobenzene	UG/KG	1700	-	6 U	NA	6 U	5 U	5 U
Chloroethane	UG/KG	1900	-	6 U	NA	6 U	5 U	5 U
Chloroform	UG/KG	300	-	6 U	NA	6 U	5 U	5 U
Chloromethane	UG/KG	-	-	6 U	NA	6 U	5 U	5 U
Cyclohexane	UG/KG	-	-	6 U	NA	6 U	5 U	5 U
Dibromochloromethane	UG/KG	-	-	6 U	NA	6 U	5 U	5 U
Dichlorodifluoromethane	UG/KG	-	-	6 U	NA	6 U	5 U	5 U
Ethylbenzene	UG/KG	5500	-	6 U	NA	6 U	5 U	5 U
Isopropylbenzene (Cumene)	UG/KG	2300	-	6 U	NA	6 U	5 U	5 U
Methyl acetate	UG/KG	-	-	6 U	NA	6 U	5 U	5 U
Methyl ethyl ketone (2-Butanone)	UG/KG	300	-	28 U	NA	28 U	26 U	26 U
Methyl tert-butyl ether	UG/KG	120	-	6 U	NA	6 U	5 U	5 U
Methylcyclohexane	UG/KG	-	-	6 U	NA	6 U	5 U	5 U
Methylene chloride	UG/KG	100	-	7 U	NA	6 U	5 U	5 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SB-26	SB-27	SB-27	SB-28	SB-28
Sample ID				SB-26-3-6	SB-27-9-10	SB-27-12-14	SB-28-8-10	SB-28-12-14
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-6.0	9.0-10.0	12.0-14.0	8.0-10.0	12.0-14.0
Date Sampled				05/06/08	05/19/08	05/19/08	05/19/08	05/19/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
Styrene	UG/KG	-	-	6 U	NA	6 U	5 U	5 U
Tetrachloroethene	UG/KG	1400	-	6 U	NA	6 U	5 U	5 U
Toluene	UG/KG	1500	-	6 U	NA	6 U	5 U	5 U
1,1,1-Trichloroethane	UG/KG	800	-	6 U	NA	6 U	5 U	5 U
Trichloroethene	UG/KG	700	-	6 U	NA	6 U	5 U	5 U
Trichlorofluoromethane	UG/KG	-	-	6 U	NA	6 U	5 U	5 U
Vinyl chloride	UG/KG	200	-	11 U	NA	11 U	10 U	10 U
Xylene (total)	UG/KG	1200	-	17 U	NA	16 U	16 U	15 U
Total BTEX	UG/KG	-	-	ND	NA	ND	ND	ND
Total Volatile Organic Compounds	UG/KG	10000	-	ND	NA	ND	ND	ND
Semivolatile Organic Compounds								
1,1'-Biphenyl	UG/KG	50000	-	960 U	17,000 J	18 J	180 U	180 U
2,2'-oxybis(2-Chloropropane)	UG/KG	50000	-	960 U	160,000 U	190 U	180 U	180 U
2,4,5-Trichlorophenol	UG/KG	100	-	960 U	160,000 U	190 U	180 U	180 U
2,4,6-Trichlorophenol	UG/KG	50000	-	960 U	160,000 U	190 U	180 U	180 U
2,4-Dichlorophenol	UG/KG	400	-	960 U	160,000 U	190 U	180 U	180 U
2,4-Dimethylphenol	UG/KG	50000	-	960 U	160,000 U	190 U	180 U	180 U
2,4-Dinitrophenol	UG/KG	200 or MDL	-	1,900 U	310,000 U	360 U	360 U	350 U
2,4-Dinitrotoluene	UG/KG	50000	-	960 U	160,000 U	190 U	180 U	180 U
2,6-Dinitrotoluene	UG/KG	1000	-	960 U	160,000 U	190 U	180 U	180 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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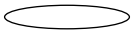
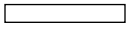

Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

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[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SB

TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SB-26	SB-27	SB-27	SB-28	SB-28
Sample ID				SB-26-3-6	SB-27-9-10	SB-27-12-14	SB-28-8-10	SB-28-12-14
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-6.0	9.0-10.0	12.0-14.0	8.0-10.0	12.0-14.0
Date Sampled				05/06/08	05/19/08	05/19/08	05/19/08	05/19/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
2-Chloronaphthalene	UG/KG	50000	-	960 U	160,000 U	190 U	180 U	180 U
2-Chlorophenol	UG/KG	800	-	960 U	160,000 U	190 U	180 U	180 U
2-Methylnaphthalene	UG/KG	36400	-	960 U	86,000 J	55 J	180 U	180 U
2-Methylphenol (o-cresol)	UG/KG	100 or MDL	-	960 U	160,000 U	190 U	180 U	180 U
2-Nitroaniline	UG/KG	430 or MDL	-	1,900 U	310,000 U	360 U	360 U	350 U
2-Nitrophenol	UG/KG	330 or MDL	-	960 U	160,000 U	190 U	180 U	180 U
3,3'-Dichlorobenzidine	UG/KG	50000	-	960 U	160,000 U	190 U	180 U	180 U
3-Nitroaniline	UG/KG	500 or MDL	-	1,900 U	310,000 U	360 U	360 U	350 U
4,6-Dinitro-2-methylphenol	UG/KG	50000	-	1,900 U	310,000 U	360 U	360 U	350 U
4-Bromophenyl-phenylether	UG/KG	50000	-	960 U	160,000 U	190 U	180 U	180 U
4-Chloro-3-methylphenol	UG/KG	240 or MDL	-	960 U	160,000 U	190 U	180 U	180 U
4-Chloroaniline	UG/KG	220 or MDL	-	960 U	160,000 U	190 U	180 U	180 U
4-Chlorophenyl-phenylether	UG/KG	50000	-	960 U	160,000 U	190 U	180 U	180 U
4-Methylphenol (p-cresol)	UG/KG	900	-	960 U	160,000 U	190 U	180 U	180 U
4-Nitroaniline	UG/KG	50000	-	1,900 U	310,000 U	360 U	360 U	350 U
4-Nitrophenol	UG/KG	100 or MDL	-	1,900 U	310,000 U	360 U	360 U	350 U
Acenaphthene	UG/KG	50000	-	960 U	230,000	220	180 U	180 U
Acenaphthylene	UG/KG	41000	-	41 J	130,000 J	280	180 U	180 U
Acetophenone	UG/KG	50000	-	960 U	160,000 U	190 U	180 U	180 U
Anthracene	UG/KG	50000	-	960 U	620,000	1,200	180 U	180 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

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[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SB

TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

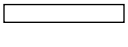
Location ID				SB-26	SB-27	SB-27	SB-28	SB-28
Sample ID				SB-26-3-6	SB-27-9-10	SB-27-12-14	SB-28-8-10	SB-28-12-14
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-6.0	9.0-10.0	12.0-14.0	8.0-10.0	12.0-14.0
Date Sampled				05/06/08	05/19/08	05/19/08	05/19/08	05/19/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Atrazine	UG/KG	50000	-	960 U	160,000 U	190 U	180 U	180 U
Benzaldehyde	UG/KG	50000	-	960 U	160,000 U	190 U	180 U	180 U
Benzo(a)anthracene	UG/KG	224 or MDL	-	150 J	670,000	1,300	180 U	180 U
Benzo(a)pyrene	UG/KG	61 or MDL	-	110 J	400,000	810	180 U	180 U
Benzo(b)fluoranthene	UG/KG	1100	-	180 J	480,000	880	180 U	180 U
Benzo(g,h,i)perylene	UG/KG	50000	-	68 J	130,000 J	260	180 U	180 U
Benzo(k)fluoranthene	UG/KG	1100	-	960 U	190,000	420	180 U	180 U
bis(2-Chloroethoxy)methane	UG/KG	50000	-	960 U	160,000 U	190 U	180 U	180 U
bis(2-Chloroethyl)ether	UG/KG	50000	-	960 U	160,000 U	190 U	180 U	180 U
bis(2-Ethylhexyl)phthalate	UG/KG	50000	-	960 U	160,000 U	190 U	180 U	180 U
Butylbenzylphthalate	UG/KG	50000	-	960 U	160,000 U	190 U	180 U	180 U
Caprolactam	UG/KG	50000	-	960 U	160,000 U	190 U	180 U	180 U
Carbazole	UG/KG	50000	-	960 U	57,000 J	120 J	180 U	180 U
Chrysene	UG/KG	400	-	960 U	460,000	1,000	180 U	180 U
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	900 J	57,000 J	97 J	180 U	180 U
Dibenzofuran	UG/KG	6200	-	960 U	200,000	180 J	180 U	180 U
Diethylphthalate	UG/KG	7100	-	960 U	160,000 U	190 U	180 U	180 U
Dimethylphthalate	UG/KG	2000	-	960 U	160,000 U	190 U	180 U	180 U
Di-n-butylphthalate	UG/KG	8100	-	960 U	160,000 U	190 U	180 U	180 U
Di-n-octylphthalate	UG/KG	50000	-	960 U	160,000 U	190 U	180 U	180 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

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Advanced Selection: 2008 SOIL BORINGS
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[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SB

TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SB-26	SB-27	SB-27	SB-28	SB-28
Sample ID				SB-26-3-6	SB-27-9-10	SB-27-12-14	SB-28-8-10	SB-28-12-14
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-6.0	9.0-10.0	12.0-14.0	8.0-10.0	12.0-14.0
Date Sampled				05/06/08	05/19/08	05/19/08	05/19/08	05/19/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Fluoranthene	UG/KG	50000	-	230 J	1,500,000	2,700	180 U	180 U
Fluorene	UG/KG	50000	-	960 U	370,000	390	180 U	180 U
Hexachlorobenzene	UG/KG	410	-	960 U	160,000 U	190 U	180 U	180 U
Hexachlorobutadiene	UG/KG	50000	-	960 U	160,000 U	190 U	180 U	180 U
Hexachlorocyclopentadiene	UG/KG	50000	-	960 U	160,000 U	190 U	180 U	180 U
Hexachloroethane	UG/KG	50000	-	960 U	160,000 U	190 U	180 U	180 U
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	59 J	150,000 J	270	180 U	180 U
Isophorone	UG/KG	4400	-	960 U	160,000 U	190 U	180 U	180 U
Naphthalene	UG/KG	13000	-	960 U	160,000 U	190 U	180 U	180 U
Nitrobenzene	UG/KG	200 or MDL	-	960 U	160,000 U	190 U	180 U	180 U
N-Nitroso-di-n-propylamine	UG/KG	50000	-	960 U	160,000 U	190 U	180 U	180 U
N-Nitrosodiphenylamine	UG/KG	50000	-	960 U	160,000 U	190 U	180 U	180 U
Pentachlorophenol	UG/KG	1000 or MDL	-	1,900 U	310,000 U	360 U	360 U	350 U
Phenanthrene	UG/KG	50000	-	100 J	1,000,000	1,200	180 U	180 U
Phenol	UG/KG	30 or MDL	-	960 U	160,000 U	190 U	180 U	180 U
Pyrene	UG/KG	50000	-	180 J	960,000	1,700	180 U	180 U
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	2,018	7,347,000	12,727	ND	ND
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	2,018	7,707,000	13,100	ND	ND
Metals								
Arsenic	MG/KG	7.5	3-12	7.1	9.3	4.6	3.1	4.5

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

Advanced Selection: 2008 SOIL BORINGS
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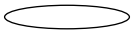
TABLE 3
VALIDATED SUB-SURFACE SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID				SB-26	SB-27	SB-27	SB-28	SB-28
Sample ID				SB-26-3-6	SB-27-9-10	SB-27-12-14	SB-28-8-10	SB-28-12-14
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				3.0-6.0	9.0-10.0	12.0-14.0	8.0-10.0	12.0-14.0
Date Sampled				05/06/08	05/19/08	05/19/08	05/19/08	05/19/08
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Barium	MG/KG	300	15-600	60.6 J	404 J	41.9 J	33.0 J	40.4 J
Cadmium	MG/KG	1	0.1-1	0.24	4.2	0.23 U	0.24 U	0.20 U
Chromium	MG/KG	10	1.5-40	21.6	25.3 J	12.6 J	11.3 J	12.4 J
Lead	MG/KG	SB	500	50.0 J	3,320	9.3	4.8	9.1
Mercury	MG/KG	0.1	0.001-0.2	0.057	0.221	0.022 U	0.023 U	0.021 U
Selenium	MG/KG	2	0.1-3.9	4.6 U	7.0 U	4.6 U	4.8 U	4.0 U
Silver	MG/KG	SB	-	0.57 U	0.87 U	0.57 U	0.60 U	0.50 U

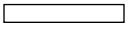
Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

Advanced Selection: 2008 SOIL BORINGS
N:\11174305.00000\DB\Program\EDMS.mdb
Printed: 8/13/2008 9:20:03 AM
[LOGDATE] >= #5/5/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SB

TABLE 4
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID		FIELDQC	FIELDQC	FIELDQC
Sample ID		RB-050508	RB-050608	RB-051908
Matrix		Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-
Date Sampled		05/05/08	05/06/08	05/19/08
Parameter	Units	Rinse Blank (0-1)	Rinse Blank (0-1)	Rinse Blank (0-1)
Volatile Organic Compounds				
1,1,2,2-Tetrachloroethane	UG/L	NA	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	NA	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	NA	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	NA	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	NA	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	NA	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	NA	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	NA	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	NA	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	NA	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	NA	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	NA	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	NA	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	NA	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	NA	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	NA	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	NA	1.0 U	1.0 U
2-Hexanone	UG/L	NA	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	NA	5.0 U	5.0 U
Acetone	UG/L	NA	5.0 U	5.0 U
Benzene	UG/L	NA	1.0 U	1.0 U
Bromodichloromethane	UG/L	NA	1.0 U	1.0 U
Bromoform	UG/L	NA	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 4
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID		FIELDQC	FIELDQC	FIELDQC
Sample ID		RB-050508	RB-050608	RB-051908
Matrix		Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-
Date Sampled		05/05/08	05/06/08	05/19/08
Parameter	**Units**	Rinse Blank (0-1)	Rinse Blank (0-1)	Rinse Blank (0-1)
Volatile Organic Compounds				
Bromomethane	UG/L	NA	1.0 U	1.0 U
Carbon disulfide	UG/L	NA	1.0 U	1.0 U
Carbon tetrachloride	UG/L	NA	1.0 U	1.0 U
Chlorobenzene	UG/L	NA	1.0 U	1.0 U
Chloroethane	UG/L	NA	1.0 U	1.0 U
Chloroform	UG/L	NA	1.0 U	1.0 U
Chloromethane	UG/L	NA	1.0 U	1.0 U
Cyclohexane	UG/L	NA	1.0 U	1.0 U
Dibromochloromethane	UG/L	NA	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	NA	1.0 U	1.0 U
Ethylbenzene	UG/L	NA	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	NA	1.0 U	1.0 U
Methyl acetate	UG/L	NA	1.0 U	1.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	NA	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	NA	1.0 U	1.0 U
Methylcyclohexane	UG/L	NA	1.0 U	1.0 U
Methylene chloride	UG/L	NA	1.0 U	1.0 U
Styrene	UG/L	NA	1.0 U	1.0 U
Tetrachloroethene	UG/L	NA	1.0 U	1.0 U
Toluene	UG/L	NA	1.0 U	1.0 U
1,1,1-Trichloroethane	UG/L	NA	1.0 U	1.0 U
Trichloroethene	UG/L	NA	1.0 U	1.0 U
Trichlorofluoromethane	UG/L	NA	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 4
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID		FIELDQC	FIELDQC	FIELDQC
Sample ID		RB-050508	RB-050608	RB-051908
Matrix		Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-
Date Sampled		05/05/08	05/06/08	05/19/08
Parameter	**Units**	Rinse Blank (0-1)	Rinse Blank (0-1)	Rinse Blank (0-1)
Volatile Organic Compounds				
Vinyl chloride	UG/L	NA	1.0 U	1.0 U
Xylene (total)	UG/L	NA	3.0 U	3.0 U
Total BTEX	UG/L	NA	ND	ND
Total Volatile Organic Compounds	UG/L	NA	ND	ND
Semivolatile Organic Compounds				
1,1'-Biphenyl	UG/L	5 U	5 U	5 U
2,2'-oxybis(2-Chloropropane)	UG/L	5 U	5 U	5 U
2,4,5-Trichlorophenol	UG/L	5 U	5 U	5 U
2,4,6-Trichlorophenol	UG/L	5 U	5 U	5 U
2,4-Dichlorophenol	UG/L	5 U	5 U	5 U
2,4-Dimethylphenol	UG/L	5 U	5 U	5 U
2,4-Dinitrophenol	UG/L	10 U	10 U	10 U
2,4-Dinitrotoluene	UG/L	5 U	5 U	5 U
2,6-Dinitrotoluene	UG/L	5 U	5 U	5 U
2-Chloronaphthalene	UG/L	5 U	5 U	5 U
2-Chlorophenol	UG/L	5 U	5 U	5 U
2-Methylnaphthalene	UG/L	5 U	5 U	5 U
2-Methylphenol (o-cresol)	UG/L	5 U	5 U	5 U
2-Nitroaniline	UG/L	10 U	10 U	10 U
2-Nitrophenol	UG/L	5 U	5 U	5 U
3,3'-Dichlorobenzidine	UG/L	5 U	5 U	5 U
3-Nitroaniline	UG/L	10 U	10 U	10 U
4,6-Dinitro-2-methylphenol	UG/L	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 4
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID		FIELDQC	FIELDQC	FIELDQC
Sample ID		RB-050508	RB-050608	RB-051908
Matrix		Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-
Date Sampled		05/05/08	05/06/08	05/19/08
Parameter	Units	Rinse Blank (0-1)	Rinse Blank (0-1)	Rinse Blank (0-1)
Semivolatile Organic Compounds				
4-Bromophenyl-phenylether	UG/L	5 U	5 U	5 U
4-Chloro-3-methylphenol	UG/L	5 U	5 U	5 U
4-Chloroaniline	UG/L	5 U	5 U	5 U
4-Chlorophenyl-phenylether	UG/L	5 U	5 U	5 U
4-Methylphenol (p-cresol)	UG/L	5 U	5 U	5 U
4-Nitroaniline	UG/L	10 U	10 U	10 U
4-Nitrophenol	UG/L	10 U	10 U	10 U
Acenaphthene	UG/L	5 U	5 U	5 U
Acenaphthylene	UG/L	5 U	5 U	5 U
Acetophenone	UG/L	5 U	5 U	5 U
Anthracene	UG/L	5 U	5 U	5 U
Atrazine	UG/L	5 U	5 U	5 U
Benzaldehyde	UG/L	5 U	5 U	5 U
Benzo(a)anthracene	UG/L	0.2 J	5 U	5 U
Benzo(a)pyrene	UG/L	5 U	5 U	5 U
Benzo(b)fluoranthene	UG/L	5 U	5 U	5 U
Benzo(g,h,i)perylene	UG/L	5 U	5 U	5 U
Benzo(k)fluoranthene	UG/L	5 U	5 U	5 U
bis(2-Chloroethoxy)methane	UG/L	5 U	5 U	5 U
bis(2-Chloroethyl)ether	UG/L	5 U	5 U	5 U
bis(2-Ethylhexyl)phthalate	UG/L	5 U	5 U	5 U
Butylbenzylphthalate	UG/L	5 U	5 U	5 U
Caprolactam	UG/L	5 U	5 U	5 U

Flags assigned during chemistry validation are shown.

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 4
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID		FIELDQC	FIELDQC	FIELDQC
Sample ID		RB-050508	RB-050608	RB-051908
Matrix		Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-
Date Sampled		05/05/08	05/06/08	05/19/08
Parameter	**Units**	Rinse Blank (0-1)	Rinse Blank (0-1)	Rinse Blank (0-1)
Semivolatile Organic Compounds				
Carbazole	UG/L	5 U	5 U	5 U
Chrysene	UG/L	5 U	0.6 J	5 U
Dibenzo(a,h)anthracene	UG/L	5 U	5 U	5 U
Dibenzofuran	UG/L	5 U	5 U	5 U
Diethylphthalate	UG/L	5 U	5 U	5 U
Dimethylphthalate	UG/L	5 U	5 U	5 U
Di-n-butylphthalate	UG/L	5 U	0.4 J	5 U
Di-n-octylphthalate	UG/L	5 U	5 U	5 U
Fluoranthene	UG/L	5 U	5 U	5 U
Fluorene	UG/L	5 U	5 U	5 U
Hexachlorobenzene	UG/L	5 U	5 U	5 U
Hexachlorobutadiene	UG/L	5 U	5 U	5 U
Hexachlorocyclopentadiene	UG/L	5 U	5 U	5 U
Hexachloroethane	UG/L	5 U	5 U	5 U
Indeno(1,2,3-cd)pyrene	UG/L	5 U	5 U	5 U
Isophorone	UG/L	5 U	5 U	5 U
Naphthalene	UG/L	5 U	5 U	3 J
Nitrobenzene	UG/L	5 U	5 U	5 U
N-Nitroso-di-n-propylamine	UG/L	5 U	5 U	5 U
N-Nitrosodiphenylamine	UG/L	5 U	5 U	5 U
Pentachlorophenol	UG/L	10 U	10 U	10 U
Phenanthrene	UG/L	5 U	5 U	5 U
Phenol	UG/L	5 U	5 U	5 U

Flags assigned during chemistry validation are shown.

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

TABLE 4
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID		FIELDQC	FIELDQC	FIELDQC
Sample ID		RB-050508	RB-050608	RB-051908
Matrix		Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-
Date Sampled		05/05/08	05/06/08	05/19/08
Parameter	**Units**	Rinse Blank (0-1)	Rinse Blank (0-1)	Rinse Blank (0-1)
Semivolatile Organic Compounds				
Pyrene	UG/L	5 U	5 U	5 U
Total Polycyclic Aromatic Hydrocarbons	UG/L	0.2	0.6	3
Total Semivolatile Organic Compounds	UG/L	0.2	1	3
Metals				
Arsenic	UG/L	10.0 U	10.0 U	10.0 U
Barium	UG/L	2.0 U	2.0 U	2.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U
Chromium	UG/L	4.0 U	4.0 U	4.0 U
Lead	UG/L	5.0 U	5.0 U	5.0 U
Mercury	UG/L	0.200 U	0.200 U	0.200 U
Selenium	UG/L	15.0 U	15.0 U	15.0 U
Silver	UG/L	3.0 U	3.0 U	3.0 U

Flags assigned during chemistry validation are shown.

Made By: JJL 7/28/2008
Checked By: MK 7/28/2008

Detection Limits shown are PQL

ATTACHMENT A

DOCUMENTATION SUPPORTING QUALIFICATION OF DATA

HISTORICAL VALIDATED SAMPLE ANALYTICAL RESULTS TABLES

TABLE 1
VALIDATED SURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

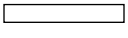
Location ID				SS-01	SS-02	SS-02	SS-03	SS-04
Sample ID				SS-01	SS-02	SS-FD-042606	SS-03	SS-04
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2
Date Sampled				04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**			Field Duplicate (1-1)		
Semivolatile Organic Compounds								
2-Methylnaphthalene	UG/KG	36400	-	4,300 U	4,500 U	9,000 U	4,600 U	4,200 U
Acenaphthene	UG/KG	50000	-	900 J	4,500 U	9,000 U	4,600 U	370 J
Acenaphthylene	UG/KG	41000	-	4,300 U	4,500 U	9,000 U	4,600 U	4,200 U
Anthracene	UG/KG	50000	-	2,400 J	660 J	1,300 J	290 J	1,200 J
Benzo(a)anthracene	UG/KG	224 or MDL	-	7,400	3,000 J	5,200 J	1,900 J	3,600 J
Benzo(a)pyrene	UG/KG	61 or MDL	-	6,600	2,900 J	4,600 J	1,800 J	3,200 J
Benzo(b)fluoranthene	UG/KG	1100	-	8,800	4,200 J	6,600 J	2,100 J	4,000 J
Benzo(g,h,i)perylene	UG/KG	50000	-	4,000 J	1,300 J	2,200 J	780 J	1,400 J
Benzo(k)fluoranthene	UG/KG	1100	-	2,300 J	1,000 J	1,500 J	860 J	1,600 J
Chrysene	UG/KG	400	-	7,300	3,100 J	5,200 J	1,800 J	3,600 J
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	1,200 J	430 J	740 J	270 J	450 J
Dibenzofuran	UG/KG	6200	-	4,300 U	4,500 U	9,000 U	4,600 U	4,200 U
Fluoranthene	UG/KG	50000	-	16,000	6,800	11,000	3,200 J	8,900
Fluorene	UG/KG	50000	-	4,300 U	4,500 U	9,000 U	4,600 U	4,200 U
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	3,700 J	1,300 J	2,100 J	780 J	1,400 J
Naphthalene	UG/KG	13000	-	4,300 U	4,500 U	9,000 U	4,600 U	4,200 U
Phenanthrene	UG/KG	50000	-	11,000	2,800 J	5,400 J	4,600 U	5,600
Pyrene	UG/KG	50000	-	12,000	4,900	7,800 J	2,500 J	6,100
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	83,600	32,390	53,640	16,280	41,420
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	83,600	32,390	53,640	16,280	41,420

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit.

J - The reported concentration is an estimated value.

UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value.

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Detection Limits shown are PQL

TABLE 1
VALIDATED SURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SS-01	SS-02	SS-02	SS-03	SS-04
Sample ID				SS-01	SS-02	SS-FD-042606	SS-03	SS-04
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2
Date Sampled				04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**			Field Duplicate (1-1)		
Miscellaneous Parameters								
Cyanide	MG/KG	-	-	1.1 UJ	0.17 UJ	1.8 J	1.3 UJ	1.2 UJ

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit.
J - The reported concentration is an estimated value.
UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value.
UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Detection Limits shown are PQL

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[LOGDATE] < #1/1/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SS

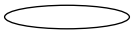
TABLE 1
VALIDATED SURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

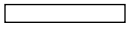
Location ID				SS-05	SS-06
Sample ID				SS-05	SS-06
Matrix				Soil	Soil
Depth Interval (ft)				0.0-0.2	0.0-0.2
Date Sampled				04/26/06	04/26/06
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		
Semivolatile Organic Compounds					
2-Methylnaphthalene	UG/KG	36400	-	440 U	4,400 U
Acenaphthene	UG/KG	50000	-	24 J	290 J
Acenaphthylene	UG/KG	41000	-	440 U	4,400 U
Anthracene	UG/KG	50000	-	64 J	880 J
Benzo(a)anthracene	UG/KG	224 or MDL	-	290 J	3,100 J
Benzo(a)pyrene	UG/KG	61 or MDL	-	280 J	2,800 J
Benzo(b)fluoranthene	UG/KG	1100	-	400 J	4,000 J
Benzo(g,h,i)perylene	UG/KG	50000	-	130 J	1,400 J
Benzo(k)fluoranthene	UG/KG	1100	-	110 J	1,100 J
Chrysene	UG/KG	400	-	300 J	3,000 J
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	42 J	420 J
Dibenzofuran	UG/KG	6200	-	440 U	4,400 U
Fluoranthene	UG/KG	50000	-	620	6,900
Fluorene	UG/KG	50000	-	440 U	4,400 U
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	130 J	1,300 J
Naphthalene	UG/KG	13000	-	440 U	4,400 U
Phenanthrene	UG/KG	50000	-	320 J	4,300 J
Pyrene	UG/KG	50000	-	490	5,200
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	3,200	34,690
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	3,200	34,690

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit.

J - The reported concentration is an estimated value.

UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value.

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Detection Limits shown are PQL

TABLE 1
VALIDATED SURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SS-05	SS-06
Sample ID				SS-05	SS-06
Matrix				Soil	Soil
Depth Interval (ft)				0.0-0.2	0.0-0.2
Date Sampled				04/26/06	04/26/06
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		
Miscellaneous Parameters					
Cyanide	MG/KG	-	-	1.2 UJ	1.3 UJ

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit.
J - The reported concentration is an estimated value.
UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value.
UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Detection Limits shown are PQL

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Printed: 8/21/2008 9:07:08 AM
[LOGDATE] < #1/1/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SS

TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-01	SB-03	SB-04	SB-04	SB-05
Sample ID				SB01-10-12	SB03-15-17	DUP-01	SB04-12-13.5	SB05-11-12
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	15.0-17.0	12.0-13.5	12.0-13.5	11.0-12.0
Date Sampled				11/10/05	11/10/05	11/10/05	11/10/05	11/10/05
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	UG/KG	600	-	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	6000	-	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	UG/KG	200	-	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	UG/KG	400	-	5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	UG/KG	3400	-	5 U	5 U	5 U	5 U	5 U
1,2-Dibromo-3-chloropropane	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	UG/KG	7900	-	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	UG/KG	100	-	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (cis)	UG/KG	300	-	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (trans)	UG/KG	300	-	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	UG/KG	600	-	5 U	5 U	5 U	5 U	5 U
1,3-Dichloropropene (cis)	UG/KG	300	-	5 U	5 U	5 U	5 U	5 U
1,3-Dichloropropene (trans)	UG/KG	300	-	5 U	5 U	5 U	5 U	5 U
1,4-Dichlorobenzene	UG/KG	8500	-	5 U	5 U	5 U	5 U	5 U
2-Hexanone	UG/KG	-	-	27 U	27 U	26 U	26 U	27 U
4-Methyl-2-pentanone	UG/KG	1000	-	27 U	27 U	26 U	26 U	27 U
Acetone	UG/KG	200	-	27 U	27 U	26 U	26 U	41

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value.
J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.
NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).
UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Detection Limits shown are PQL

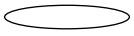
TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-01	SB-03	SB-04	SB-04	SB-05
Sample ID				SB01-10-12	SB03-15-17	DUP-01	SB04-12-13.5	SB05-11-12
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	15.0-17.0	12.0-13.5	12.0-13.5	11.0-12.0
Date Sampled				11/10/05	11/10/05	11/10/05	11/10/05	11/10/05
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Volatile Organic Compounds								
Benzene	UG/KG	60	-	5 U	5 U	5 U	5 U	8
Bromodichloromethane	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
Bromoform	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
Bromomethane	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	UG/KG	2700	-	5 U	5 U	5 U	5 U	2 J
Carbon tetrachloride	UG/KG	600	-	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	UG/KG	1700	-	5 U	5 U	5 U	5 U	5 U
Chloroethane	UG/KG	1900	-	5 U	5 U	5 U	5 U	5 U
Chloroform	UG/KG	300	-	5 U	5 U	5 U	5 U	5 U
Chloromethane	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
Cyclohexane	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	UG/KG	5500	-	5 U	5 U	5 U	5 U	12
Isopropylbenzene (Cumene)	UG/KG	2300	-	5 U	5 U	5 U	5 U	5 U
Methyl acetate	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
Methyl ethyl ketone (2-Butanone)	UG/KG	300	-	27 U	27 U	26 U	26 U	8 J
Methyl tert-butyl ether	UG/KG	120	-	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
Methylene chloride	UG/KG	100	-	5 U	5 U	5 U	5 U	5 U

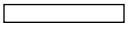
Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value.
J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.
NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).
UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Detection Limits shown are PQL

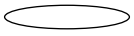
TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

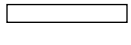
Location ID				SB-01	SB-03	SB-04	SB-04	SB-05
Sample ID				SB01-10-12	SB03-15-17	DUP-01	SB04-12-13.5	SB05-11-12
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	15.0-17.0	12.0-13.5	12.0-13.5	11.0-12.0
Date Sampled				11/10/05	11/10/05	11/10/05	11/10/05	11/10/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**			Field Duplicate (1-1)		
Volatile Organic Compounds								
Styrene	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	UG/KG	1400	-	5 U	5 U	5 U	5 U	5 U
Toluene	UG/KG	1500	-	5 U	5 U	5 U	5 U	10
1,1,1-Trichloroethane	UG/KG	800	-	5 U	5 U	5 U	5 U	5 U
Trichloroethene	UG/KG	700	-	5 U	5 U	5 U	5 U	5 U
Trichlorofluoromethane	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	UG/KG	200	-	11 U	11 U	10 U	10 U	11 U
Xylene (total)	UG/KG	1200	-	16 U	16 U	16 U	16 U	62
Total BTEX	UG/KG	-	-	ND	ND	ND	ND	92
Total Volatile Organic Compounds	UG/KG	10000	-	ND	ND	ND	ND	143
Semivolatile Organic Compounds								
1,1'-Biphenyl	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	12,000
2,2'-oxybis(2-Chloropropane)	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	11,000 U
2,4,5-Trichlorophenol	UG/KG	100	-	880 U	850 U	4,200 U	4,100 U	28,000 U
2,4,6-Trichlorophenol	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	11,000 U
2,4-Dichlorophenol	UG/KG	400	-	360 U	350 U	1,700 U	1,700 U	11,000 U
2,4-Dimethylphenol	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	3,600 J
2,4-Dinitrophenol	UG/KG	200 or MDL	-	1,800 U	1,700 U	8,400 U	8,200 U	55,000 U
2,4-Dinitrotoluene	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	11,000 U
2,6-Dinitrotoluene	UG/KG	1000	-	360 U	350 U	1,700 U	1,700 U	11,000 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value.
J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.
NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).
UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Detection Limits shown are PQL

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Printed: 8/21/2008 9:15:02 AM
[LOGDATE] < #1/1/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND ([LOCID] LIKE 'SB*' OR [LOCID] LIKE 'TP

TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-01	SB-03	SB-04	SB-04	SB-05
Sample ID				SB01-10-12	SB03-15-17	DUP-01	SB04-12-13.5	SB05-11-12
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	15.0-17.0	12.0-13.5	12.0-13.5	11.0-12.0
Date Sampled				11/10/05	11/10/05	11/10/05	11/10/05	11/10/05
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Semivolatile Organic Compounds								
2-Chloronaphthalene	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	11,000 U
2-Chlorophenol	UG/KG	800	-	360 U	350 U	1,700 U	1,700 U	11,000 U
2-Methylnaphthalene	UG/KG	36400	-	360 U	350 U	1,700 U	1,700 U	52,000
2-Methylphenol (o-cresol)	UG/KG	100 or MDL	-	360 U	350 U	1,700 U	1,700 U	11,000 U
2-Nitroaniline	UG/KG	430 or MDL	-	1,800 U	1,700 U	8,400 U	8,200 U	55,000 U
2-Nitrophenol	UG/KG	330 or MDL	-	360 U	350 U	1,700 U	1,700 U	11,000 U
3,3'-Dichlorobenzidine	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	11,000 U
3-Nitroaniline	UG/KG	500 or MDL	-	1,800 U	1,700 U	8,400 U	8,200 U	55,000 U
4,6-Dinitro-2-methylphenol	UG/KG	50000	-	1,800 U	1,700 U	8,400 U	8,200 U	55,000 U
4-Bromophenyl-phenylether	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	11,000 U
4-Chloro-3-methylphenol	UG/KG	240 or MDL	-	360 U	350 U	1,700 U	1,700 U	11,000 U
4-Chloroaniline	UG/KG	220 or MDL	-	360 U	350 U	1,700 U	1,700 U	11,000 U
4-Chlorophenyl-phenylether	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	11,000 U
4-Methylphenol (p-cresol)	UG/KG	900	-	360 U	350 U	1,700 U	1,700 U	11,000 U
4-Nitroaniline	UG/KG	50000	-	1,800 U	1,700 U	8,400 U	8,200 U	55,000 U
4-Nitrophenol	UG/KG	100 or MDL	-	1,800 U	1,700 U	8,400 U	8,200 U	55,000 U
Acenaphthene	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	60,000
Acenaphthylene	UG/KG	41000	-	360 U	350 U	130 J	120 J	28,000
Acetophenone	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	11,000 U
Anthracene	UG/KG	50000	-	360 U	350 U	250 J	180 J	110,000

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value.
J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.
NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).
UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Detection Limits shown are PQL

TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

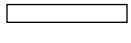
Location ID				SB-01	SB-03	SB-04	SB-04	SB-05
Sample ID				SB01-10-12	SB03-15-17	DUP-01	SB04-12-13.5	SB05-11-12
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	15.0-17.0	12.0-13.5	12.0-13.5	11.0-12.0
Date Sampled				11/10/05	11/10/05	11/10/05	11/10/05	11/10/05
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Semivolatile Organic Compounds								
Atrazine	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	11,000 U
Benzaldehyde	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	11,000 U
Benzo(a)anthracene	UG/KG	224 or MDL	-	360 U	350 U	1,400 J	1,200 J	160,000
Benzo(a)pyrene	UG/KG	61 or MDL	-	360 U	350 U	1,100 J	1,100 J	120,000
Benzo(b)fluoranthene	UG/KG	1100	-	360 U	350 U	1,200 J	1,200 J	130,000
Benzo(g,h,i)perylene	UG/KG	50000	-	360 U	350 U	620 J	560 J	72,000
Benzo(k)fluoranthene	UG/KG	1100	-	360 U	350 U	650 J	630 J	55,000
bis(2-Chloroethoxy)methane	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	11,000 U
bis(2-Chloroethyl)ether	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	11,000 U
bis(2-Ethylhexyl)phthalate	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	11,000 U
Butylbenzylphthalate	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	11,000 U
Caprolactam	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	11,000 U
Carbazole	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	73,000
Chrysene	UG/KG	400	-	360 U	350 U	1,200 J	1,000 J	150,000
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	360 U	350 U	170 J	210 J	22,000
Dibenzofuran	UG/KG	6200	-	360 U	350 U	1,700 U	1,700 U	74,000
Diethylphthalate	UG/KG	7100	-	360 U	350 U	1,700 U	1,700 U	11,000 U
Dimethylphthalate	UG/KG	2000	-	360 U	350 U	1,700 U	1,700 U	11,000 U
Di-n-butylphthalate	UG/KG	8100	-	360 U	350 U	1,700 U	1,700 U	11,000 U
Di-n-octylphthalate	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	11,000 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value.
J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.
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UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Detection Limits shown are PQL

TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

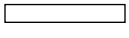
Location ID				SB-01	SB-03	SB-04	SB-04	SB-05
Sample ID				SB01-10-12	SB03-15-17	DUP-01	SB04-12-13.5	SB05-11-12
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	15.0-17.0	12.0-13.5	12.0-13.5	11.0-12.0
Date Sampled				11/10/05	11/10/05	11/10/05	11/10/05	11/10/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**			Field Duplicate (1-1)		
Semivolatile Organic Compounds								
Fluoranthene	UG/KG	50000	-	360 U	350 U	2,100	1,600 J	520,000 D
Fluorene	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	100,000
Hexachlorobenzene	UG/KG	410	-	360 U	350 U	1,700 U	1,700 U	11,000 U
Hexachlorobutadiene	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	11,000 U
Hexachlorocyclopentadiene	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	11,000 U
Hexachloroethane	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	11,000 U
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	360 U	350 U	590 J	530 J	67,000
Isophorone	UG/KG	4400	-	360 U	350 U	1,700 U	1,700 U	11,000 U
Naphthalene	UG/KG	13000	-	360 U	350 U	1,700 U	1,700 U	160,000
Nitrobenzene	UG/KG	200 or MDL	-	360 U	350 U	1,700 U	1,700 U	11,000 U
N-Nitroso-di-n-propylamine	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	11,000 U
N-Nitrosodiphenylamine	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	11,000 U
Pentachlorophenol	UG/KG	1000 or MDL	-	1,800 U	1,700 U	8,400 U	8,200 U	55,000 U
Phenanthrene	UG/KG	50000	-	360 U	350 U	620 J	360 J	680,000 D
Phenol	UG/KG	30 or MDL	-	360 U	350 U	1,700 U	1,700 U	55,000 U
Pyrene	UG/KG	50000	-	360 U	350 U	1,900	1,500 J	420,000 D
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	ND	ND	11,930	10,190	2,854,000
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	ND	ND	11,930	10,190	3,068,600
Metals								
Aluminum	MG/KG	SB	33000	6,230 J	6,070 J	10,300 J	10,100 J	9,790 J

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value.
J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.
NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).
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Detection Limits shown are PQL

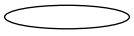
TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

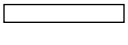
Location ID				SB-01	SB-03	SB-04	SB-04	SB-05
Sample ID				SB01-10-12	SB03-15-17	DUP-01	SB04-12-13.5	SB05-11-12
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	15.0-17.0	12.0-13.5	12.0-13.5	11.0-12.0
Date Sampled				11/10/05	11/10/05	11/10/05	11/10/05	11/10/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**			Field Duplicate (1-1)		
Metals								
Antimony	MG/KG	SB	-	17.4 UJ	17.5 UJ	15.3 UJ	17.1 UJ	28.4 UJ
Arsenic	MG/KG	7.5	12	3.7	2.3	5.2	5.3	12.2
Barium	MG/KG	300	600	31.3 J	28.6 J	45.6 J	51.3 J	51.5 J
Beryllium	MG/KG	0.16	1.75	0.31	0.25	0.42	0.42	0.54
Cadmium	MG/KG	1	1	0.23 U	0.23 U	0.33	0.29	0.38 U
Calcium	MG/KG	SB	35000	61,400	27,600	2,590 J	23,200 J	72,400
Chromium	MG/KG	10	40	8.5	7.9	13.4	12.8	13.5
Cobalt	MG/KG	30	60	5.7	4.9	8.9	8.3	7.8
Copper	MG/KG	25	50	21.8	7.3	16.8	22.2	29.2
Iron	MG/KG	2000	5.50E+05	14,200 J	13,700 J	30,000 J	23,100 J	19,300 J
Lead	MG/KG	SB	500	8.7	3.6	13.5	12.0	390
Magnesium	MG/KG	SB	5000	15,700 J	5,560 J	3,090 J	8,810 J	22,200 J
Manganese	MG/KG	SB	5000	484 J	290 J	829 J	989 J	403 J
Mercury	MG/KG	0.1	0.2	0.018 U	0.019 U	0.051	0.041	0.140
Nickel	MG/KG	13	25	14.2	11.3	19.4	19.8	20.9
Potassium	MG/KG	SB	43000	786	593	502	791	1,020
Selenium	MG/KG	2	3.9	4.6 U	4.7 U	4.1 U	4.6 U	7.6 U
Silver	MG/KG	SB	-	0.50 U	0.57 U	0.56 U	0.49 U	0.92 U
Sodium	MG/KG	SB	8000	163 U	164 U	142 U	160 U	316
Thallium	MG/KG	SB	-	7.0 U	7.0 U	6.1 U	6.8 U	11.3 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

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J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.
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Detection Limits shown are PQL

TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-01	SB-03	SB-04	SB-04	SB-05
Sample ID				SB01-10-12	SB03-15-17	DUP-01	SB04-12-13.5	SB05-11-12
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	15.0-17.0	12.0-13.5	12.0-13.5	11.0-12.0
Date Sampled				11/10/05	11/10/05	11/10/05	11/10/05	11/10/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**			Field Duplicate (1-1)		
Metals								
Vanadium	MG/KG	150	300	9.2	8.3	16.4	14.6	23.7
Zinc	MG/KG	20	50	67.2	31.1	59.3	58.3	89.8
Miscellaneous Parameters								
Cyanide	MG/KG	-	-	1.1 U	0.85 U	1.0 U	0.97 U	1.8 U
Cyanide, Amenable To Chlorination	MG/KG	-	-	0.98 U	1.1 U	0.84 U	1.1 U	1.4 U
Phenolics, Total Recoverable	MG/KG	-	-	5.4 U	4.7 U	5.5 U	4.7 U	7.7 U
Total Organic Carbon (TOC)	MG/KG	-	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value.
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TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-05	SB-06	SB-06	SB-07	SB-07
Sample ID				SB05-15-16	SB06-14-16	SB06-16-18	SB07-13-15	SB07-15-16
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				15.0-16.0	14.0-16.0	16.0-18.0	13.0-15.0	15.0-16.0
Date Sampled				11/10/05	11/11/05	11/11/05	11/11/05	11/11/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	UG/KG	600	-	5 U	5 U	5 U	NA	5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	6000	-	5 U	5 U	5 U	NA	5 U
1,1,2-Trichloroethane	UG/KG	-	-	5 U	5 U	5 U	NA	5 U
1,1-Dichloroethane	UG/KG	200	-	5 U	5 U	5 U	NA	5 U
1,1-Dichloroethene	UG/KG	400	-	5 U	5 U	5 U	NA	5 U
1,2,4-Trichlorobenzene	UG/KG	3400	-	5 U	5 U	5 U	NA	5 U
1,2-Dibromo-3-chloropropane	UG/KG	-	-	5 U	5 U	5 U	NA	5 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	-	-	5 U	5 U	5 U	NA	5 U
1,2-Dichlorobenzene	UG/KG	7900	-	5 U	5 U	5 U	NA	5 U
1,2-Dichloroethane	UG/KG	100	-	5 U	5 U	5 U	NA	5 U
1,2-Dichloroethene (cis)	UG/KG	300	-	5 U	5 U	5 U	NA	5 U
1,2-Dichloroethene (trans)	UG/KG	300	-	5 U	5 U	5 U	NA	5 U
1,2-Dichloropropane	UG/KG	-	-	5 U	5 U	5 U	NA	5 U
1,3-Dichlorobenzene	UG/KG	600	-	5 U	5 U	5 U	NA	5 U
1,3-Dichloropropene (cis)	UG/KG	300	-	5 U	5 U	5 U	NA	5 U
1,3-Dichloropropene (trans)	UG/KG	300	-	5 U	5 U	5 U	NA	5 U
1,4-Dichlorobenzene	UG/KG	8500	-	5 U	5 U	5 U	NA	5 U
2-Hexanone	UG/KG	-	-	26 U	25 U	27 U	NA	27 U
4-Methyl-2-pentanone	UG/KG	1000	-	26 U	25 U	27 U	NA	27 U
Acetone	UG/KG	200	-	26 U	25 U	27 U	NA	27 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

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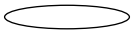
TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-05	SB-06	SB-06	SB-07	SB-07
Sample ID				SB05-15-16	SB06-14-16	SB06-16-18	SB07-13-15	SB07-15-16
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				15.0-16.0	14.0-16.0	16.0-18.0	13.0-15.0	15.0-16.0
Date Sampled				11/10/05	11/11/05	11/11/05	11/11/05	11/11/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
Benzene	UG/KG	60	-	5 U	5 U	5 U	NA	5 U
Bromodichloromethane	UG/KG	-	-	5 U	5 U	5 U	NA	5 U
Bromoform	UG/KG	-	-	5 U	5 U	5 U	NA	5 U
Bromomethane	UG/KG	-	-	5 U	5 U	5 U	NA	5 U
Carbon disulfide	UG/KG	2700	-	5 U	5 U	5 U	NA	5 U
Carbon tetrachloride	UG/KG	600	-	5 U	5 U	5 U	NA	5 U
Chlorobenzene	UG/KG	1700	-	5 U	5 U	5 U	NA	5 U
Chloroethane	UG/KG	1900	-	5 U	5 U	5 U	NA	5 U
Chloroform	UG/KG	300	-	5 U	5 U	5 U	NA	5 U
Chloromethane	UG/KG	-	-	5 U	5 U	5 U	NA	5 U
Cyclohexane	UG/KG	-	-	5 U	5 U	5 U	NA	5 U
Dibromochloromethane	UG/KG	-	-	5 U	5 U	5 U	NA	5 U
Dichlorodifluoromethane	UG/KG	-	-	5 U	5 U	5 U	NA	5 U
Ethylbenzene	UG/KG	5500	-	5 U	5 U	5 U	NA	5 U
Isopropylbenzene (Cumene)	UG/KG	2300	-	5 U	5 U	5 U	NA	5 U
Methyl acetate	UG/KG	-	-	5 U	5 U	5 U	NA	5 U
Methyl ethyl ketone (2-Butanone)	UG/KG	300	-	26 U	25 U	27 U	NA	27 U
Methyl tert-butyl ether	UG/KG	120	-	5 U	5 U	5 U	NA	5 U
Methylcyclohexane	UG/KG	-	-	5 U	5 U	5 U	NA	5 U
Methylene chloride	UG/KG	100	-	5 U	5 U	5 U	NA	5 U

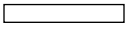
Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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Detection Limits shown are PQL

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[LOGDATE] < #1/1/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND ([LOCID] LIKE 'SB*' OR [LOCID] LIKE 'TP

TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-05	SB-06	SB-06	SB-07	SB-07
Sample ID				SB05-15-16	SB06-14-16	SB06-16-18	SB07-13-15	SB07-15-16
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				15.0-16.0	14.0-16.0	16.0-18.0	13.0-15.0	15.0-16.0
Date Sampled				11/10/05	11/11/05	11/11/05	11/11/05	11/11/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
Styrene	UG/KG	-	-	5 U	5 U	5 U	NA	5 U
Tetrachloroethene	UG/KG	1400	-	5 U	5 U	2 J	NA	5 U
Toluene	UG/KG	1500	-	5 U	5 U	5 U	NA	5 U
1,1,1-Trichloroethane	UG/KG	800	-	5 U	5 U	5 U	NA	5 U
Trichloroethene	UG/KG	700	-	5 U	5 U	5 U	NA	5 U
Trichlorofluoromethane	UG/KG	-	-	5 U	5 U	5 U	NA	5 U
Vinyl chloride	UG/KG	200	-	10 U	10 U	11 U	NA	11 U
Xylene (total)	UG/KG	1200	-	16 U	15 U	16 U	NA	16 U
Total BTEX	UG/KG	-	-	ND	ND	ND	NA	ND
Total Volatile Organic Compounds	UG/KG	10000	-	ND	ND	2	NA	ND
Semivolatile Organic Compounds								
1,1'-Biphenyl	UG/KG	50000	-	1,800 U	340 U	360 U	NA	350 U
2,2'-oxybis(2-Chloropropane)	UG/KG	50000	-	1,800 U	340 U	360 U	NA	350 U
2,4,5-Trichlorophenol	UG/KG	100	-	4,400 U	820 U	870 U	NA	850 U
2,4,6-Trichlorophenol	UG/KG	50000	-	1,800 U	340 U	360 U	NA	350 U
2,4-Dichlorophenol	UG/KG	400	-	1,800 U	340 U	360 U	NA	350 U
2,4-Dimethylphenol	UG/KG	50000	-	1,800 U	340 U	360 U	NA	350 U
2,4-Dinitrophenol	UG/KG	200 or MDL	-	8,700 U	1,600 U	1,700 U	NA	1,700 U
2,4-Dinitrotoluene	UG/KG	50000	-	1,800 U	340 U	360 U	NA	350 U
2,6-Dinitrotoluene	UG/KG	1000	-	1,800 U	340 U	360 U	NA	350 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value.
J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.
NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).
UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Detection Limits shown are PQL

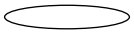
TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

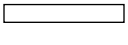
Location ID				SB-05	SB-06	SB-06	SB-07	SB-07
Sample ID				SB05-15-16	SB06-14-16	SB06-16-18	SB07-13-15	SB07-15-16
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				15.0-16.0	14.0-16.0	16.0-18.0	13.0-15.0	15.0-16.0
Date Sampled				11/10/05	11/11/05	11/11/05	11/11/05	11/11/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
2-Chloronaphthalene	UG/KG	50000	-	1,800 U	340 U	360 U	NA	350 U
2-Chlorophenol	UG/KG	800	-	1,800 U	340 U	360 U	NA	350 U
2-Methylnaphthalene	UG/KG	36400	-	810 J	340 U	360 U	NA	350 U
2-Methylphenol (o-cresol)	UG/KG	100 or MDL	-	1,800 U	340 U	360 U	NA	350 U
2-Nitroaniline	UG/KG	430 or MDL	-	8,700 U	1,600 U	1,700 U	NA	1,700 U
2-Nitrophenol	UG/KG	330 or MDL	-	1,800 U	340 U	360 U	NA	350 U
3,3'-Dichlorobenzidine	UG/KG	50000	-	1,800 U	340 U	360 U	NA	350 U
3-Nitroaniline	UG/KG	500 or MDL	-	8,700 U	1,600 U	1,700 U	NA	1,700 U
4,6-Dinitro-2-methylphenol	UG/KG	50000	-	8,700 U	1,600 U	1,700 U	NA	1,700 U
4-Bromophenyl-phenylether	UG/KG	50000	-	1,800 U	340 U	360 U	NA	350 U
4-Chloro-3-methylphenol	UG/KG	240 or MDL	-	1,800 U	340 U	360 U	NA	350 U
4-Chloroaniline	UG/KG	220 or MDL	-	1,800 U	340 U	360 U	NA	350 U
4-Chlorophenyl-phenylether	UG/KG	50000	-	1,800 U	340 U	360 U	NA	350 U
4-Methylphenol (p-cresol)	UG/KG	900	-	1,800 U	340 U	360 U	NA	350 U
4-Nitroaniline	UG/KG	50000	-	8,700 U	1,600 U	1,700 U	NA	1,700 U
4-Nitrophenol	UG/KG	100 or MDL	-	8,700 U	1,600 U	1,700 U	NA	1,700 U
Acenaphthene	UG/KG	50000	-	750 J	340 U	360 U	NA	350 U
Acenaphthylene	UG/KG	41000	-	780 J	340 U	360 U	NA	350 U
Acetophenone	UG/KG	50000	-	1,800 U	340 U	360 U	NA	350 U
Anthracene	UG/KG	50000	-	1,800	340 U	360 U	NA	350 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

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NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).
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Detection Limits shown are PQL

TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-05	SB-06	SB-06	SB-07	SB-07
Sample ID				SB05-15-16	SB06-14-16	SB06-16-18	SB07-13-15	SB07-15-16
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				15.0-16.0	14.0-16.0	16.0-18.0	13.0-15.0	15.0-16.0
Date Sampled				11/10/05	11/11/05	11/11/05	11/11/05	11/11/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Atrazine	UG/KG	50000	-	1,800 U	340 U	360 U	NA	350 U
Benzaldehyde	UG/KG	50000	-	1,800 U	340 U	360 U	NA	350 U
Benzo(a)anthracene	UG/KG	224 or MDL	-	3,100	30 J	360 U	NA	52 J
Benzo(a)pyrene	UG/KG	61 or MDL	-	2,500	19 J	360 U	NA	44 J
Benzo(b)fluoranthene	UG/KG	1100	-	4,100	28 J	360 U	NA	67 J
Benzo(g,h,i)perylene	UG/KG	50000	-	1,600 J	340 U	360 U	NA	26 J
Benzo(k)fluoranthene	UG/KG	1100	-	4,300	340 U	360 U	NA	72 J
bis(2-Chloroethoxy)methane	UG/KG	50000	-	1,800 U	340 U	360 U	NA	350 U
bis(2-Chloroethyl)ether	UG/KG	50000	-	1,800 U	340 U	360 U	NA	350 U
bis(2-Ethylhexyl)phthalate	UG/KG	50000	-	1,800 U	340 U	360 U	NA	350 U
Butylbenzylphthalate	UG/KG	50000	-	1,800 U	340 U	360 U	NA	350 U
Caprolactam	UG/KG	50000	-	1,800 U	340 U	360 U	NA	350 U
Carbazole	UG/KG	50000	-	1,000 J	340 U	360 U	NA	350 U
Chrysene	UG/KG	400	-	3,000	26 J	360 U	NA	42 J
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	440 J	340 U	360 U	NA	350 U
Dibenzofuran	UG/KG	6200	-	1,200 J	340 U	360 U	NA	350 U
Diethylphthalate	UG/KG	7100	-	1,800 U	340 U	360 U	NA	350 U
Dimethylphthalate	UG/KG	2000	-	1,800 U	340 U	360 U	NA	350 U
Di-n-butylphthalate	UG/KG	8100	-	1,800 U	340 U	360 U	NA	350 U
Di-n-octylphthalate	UG/KG	50000	-	1,800 U	340 U	360 U	NA	350 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

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Detection Limits shown are PQL

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[LOGDATE] < #1/1/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND ([LOCID] LIKE 'SB*' OR [LOCID] LIKE 'TP

TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-05	SB-06	SB-06	SB-07	SB-07
Sample ID				SB05-15-16	SB06-14-16	SB06-16-18	SB07-13-15	SB07-15-16
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				15.0-16.0	14.0-16.0	16.0-18.0	13.0-15.0	15.0-16.0
Date Sampled				11/10/05	11/11/05	11/11/05	11/11/05	11/11/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Fluoranthene	UG/KG	50000	-	8,600	45 J	360 U	NA	76 J
Fluorene	UG/KG	50000	-	1,800	340 U	360 U	NA	350 U
Hexachlorobenzene	UG/KG	410	-	1,800 U	340 U	360 U	NA	350 U
Hexachlorobutadiene	UG/KG	50000	-	1,800 U	340 U	360 U	NA	350 U
Hexachlorocyclopentadiene	UG/KG	50000	-	1,800 U	340 U	360 U	NA	350 U
Hexachloroethane	UG/KG	50000	-	1,800 U	340 U	360 U	NA	350 U
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	1,400 J	340 U	360 U	NA	22 J
Isophorone	UG/KG	4400	-	1,800 U	340 U	360 U	NA	350 U
Naphthalene	UG/KG	13000	-	1,400 J	34 J	360 U	NA	350 U
Nitrobenzene	UG/KG	200 or MDL	-	1,800 U	340 U	360 U	NA	350 U
N-Nitroso-di-n-propylamine	UG/KG	50000	-	1,800 U	340 U	360 U	NA	350 U
N-Nitrosodiphenylamine	UG/KG	50000	-	1,800 U	340 U	360 U	NA	350 U
Pentachlorophenol	UG/KG	1000 or MDL	-	8,700 U	1,600 U	1,700 U	NA	1,700 U
Phenanthrene	UG/KG	50000	-	9,800	26 J	360 U	NA	30 J
Phenol	UG/KG	30 or MDL	-	1,800 U	340 U	360 U	NA	350 U
Pyrene	UG/KG	50000	-	6,300	340 U	360 U	NA	350 U
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	51,670	208	ND	NA	431
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	54,680	208	ND	NA	431
Metals								
Aluminum	MG/KG	SB	33000	6,020 J	4,970 J	4,270 J	NA	8,580 J

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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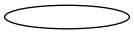
TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

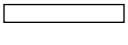
Location ID				SB-05	SB-06	SB-06	SB-07	SB-07
Sample ID				SB05-15-16	SB06-14-16	SB06-16-18	SB07-13-15	SB07-15-16
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				15.0-16.0	14.0-16.0	16.0-18.0	13.0-15.0	15.0-16.0
Date Sampled				11/10/05	11/11/05	11/11/05	11/11/05	11/11/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Antimony	MG/KG	SB	-	16.6 UJ	13.4 UJ	14.7 UJ	NA	15.7 UJ
Arsenic	MG/KG	7.5	12	4.8	2.6	2.8	NA	3.6
Barium	MG/KG	300	600	34.7 J	25.8 J	24.2 J	NA	38.0 J
Beryllium	MG/KG	0.16	1.75	0.31	0.24	0.30	NA	0.33
Cadmium	MG/KG	1	1	0.24	0.18 U	0.20 U	NA	0.23
Calcium	MG/KG	SB	35000	76,800	33,900	199,000	NA	39,400
Chromium	MG/KG	10	40	9.3	6.2	5.8	NA	12.4
Cobalt	MG/KG	30	60	5.3	4.0	3.6	NA	7.2
Copper	MG/KG	25	50	16.3	8.2	12.1	NA	22.7
Iron	MG/KG	2000	5.50E+05	13,400 J	11,500 J	9,090 J	NA	19,500 J
Lead	MG/KG	SB	500	68.2	5.2	3.9	NA	10.7
Magnesium	MG/KG	SB	5000	15,300 J	4,130 J	11,000 J	NA	9,770 J
Manganese	MG/KG	SB	5000	426 J	639 J	414 J	NA	515 J
Mercury	MG/KG	0.1	0.2	0.026	0.038	0.017 U	NA	0.016 U
Nickel	MG/KG	13	25	12.7	10.8	9.0	NA	17.7
Potassium	MG/KG	SB	43000	756	460	694	NA	813
Selenium	MG/KG	2	3.9	4.4 U	3.6 U	3.9 U	NA	4.2 U
Silver	MG/KG	SB	-	0.59 U	0.52 U	0.54 U	NA	0.51 U
Sodium	MG/KG	SB	8000	155 U	125 U	159	NA	147 U
Thallium	MG/KG	SB	-	6.6 U	5.3 U	5.9 U	NA	6.3 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)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UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Detection Limits shown are PQL

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[LOGDATE] < #1/1/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND ([LOCID] LIKE 'SB*' OR [LOCID] LIKE 'TP

TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-05	SB-06	SB-06	SB-07	SB-07
Sample ID				SB05-15-16	SB06-14-16	SB06-16-18	SB07-13-15	SB07-15-16
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				15.0-16.0	14.0-16.0	16.0-18.0	13.0-15.0	15.0-16.0
Date Sampled				11/10/05	11/11/05	11/11/05	11/11/05	11/11/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Vanadium	MG/KG	150	300	10.2	6.8	6.1	NA	12.2
Zinc	MG/KG	20	50	53.5	30.5	27.2	NA	65.8
Miscellaneous Parameters								
Cyanide	MG/KG	-	-	1.1 U	0.82 U	1.1 U	NA	1.0 U
Cyanide, Amenable To Chlorination	MG/KG	-	-	1.0 U	0.93 U	0.81 U	NA	0.82 U
Phenolics, Total Recoverable	MG/KG	-	-	4.4 U	4.1 U	5.1 U	NA	4.6 U
Total Organic Carbon (TOC)	MG/KG	-	-	NA	NA	NA	920	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

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TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-07	SB-08	SB-08	SB-09	SB-09
Sample ID				SB07-22-24	SB08-10-12	SB08-18-20	SB09-14-16	SB09-18-20
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				22.0-24.0	10.0-12.0	18.0-20.0	14.0-16.0	18.0-20.0
Date Sampled				11/11/05	11/14/05	11/14/05	11/14/05	11/14/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	UG/KG	600	-	6 U	6 U	5 U	5 U	6 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	6000	-	6 U	6 U	5 U	5 U	6 U
1,1,2-Trichloroethane	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
1,1-Dichloroethane	UG/KG	200	-	6 U	6 U	5 U	5 U	6 U
1,1-Dichloroethene	UG/KG	400	-	6 U	6 U	5 U	5 U	6 U
1,2,4-Trichlorobenzene	UG/KG	3400	-	6 U	6 U	5 U	5 U	6 U
1,2-Dibromo-3-chloropropane	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
1,2-Dichlorobenzene	UG/KG	7900	-	6 U	6 U	5 U	5 U	6 U
1,2-Dichloroethane	UG/KG	100	-	6 U	6 U	5 U	5 U	6 U
1,2-Dichloroethene (cis)	UG/KG	300	-	6 U	6 U	5 U	5 U	6 U
1,2-Dichloroethene (trans)	UG/KG	300	-	6 U	6 U	5 U	5 U	6 U
1,2-Dichloropropane	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
1,3-Dichlorobenzene	UG/KG	600	-	6 U	6 U	5 U	5 U	6 U
1,3-Dichloropropene (cis)	UG/KG	300	-	6 U	6 U	5 U	5 U	6 U
1,3-Dichloropropene (trans)	UG/KG	300	-	6 U	6 U	5 U	5 U	6 U
1,4-Dichlorobenzene	UG/KG	8500	-	6 U	6 U	5 U	5 U	6 U
2-Hexanone	UG/KG	-	-	28 U	30 U	26 U	26 U	28 U
4-Methyl-2-pentanone	UG/KG	1000	-	28 U	30 U	26 U	26 U	28 U
Acetone	UG/KG	200	-	28 U	30	26 U	26 U	28 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

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TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-07	SB-08	SB-08	SB-09	SB-09
Sample ID				SB07-22-24	SB08-10-12	SB08-18-20	SB09-14-16	SB09-18-20
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				22.0-24.0	10.0-12.0	18.0-20.0	14.0-16.0	18.0-20.0
Date Sampled				11/11/05	11/14/05	11/14/05	11/14/05	11/14/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
Benzene	UG/KG	60	-	6 U	15	5 U	5 U	6 U
Bromodichloromethane	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
Bromoform	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
Bromomethane	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
Carbon disulfide	UG/KG	2700	-	6 U	3 J	5 U	5 U	6 U
Carbon tetrachloride	UG/KG	600	-	6 U	6 U	5 U	5 U	6 U
Chlorobenzene	UG/KG	1700	-	6 U	6 U	5 U	5 U	6 U
Chloroethane	UG/KG	1900	-	6 U	6 U	5 U	5 U	6 U
Chloroform	UG/KG	300	-	6 U	6 U	5 U	5 U	6 U
Chloromethane	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
Cyclohexane	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
Dibromochloromethane	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
Dichlorodifluoromethane	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
Ethylbenzene	UG/KG	5500	-	6 U	24	5 U	5 U	6 U
Isopropylbenzene (Cumene)	UG/KG	2300	-	6 U	6	5 U	5 U	6 U
Methyl acetate	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
Methyl ethyl ketone (2-Butanone)	UG/KG	300	-	28 U	30 U	26 U	26 U	28 U
Methyl tert-butyl ether	UG/KG	120	-	6 U	6 U	5 U	5 U	6 U
Methylcyclohexane	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
Methylene chloride	UG/KG	100	-	6 U	8 U	6 U	7 U	8 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

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Detection Limits shown are PQL

TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-07	SB-08	SB-08	SB-09	SB-09
Sample ID				SB07-22-24	SB08-10-12	SB08-18-20	SB09-14-16	SB09-18-20
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				22.0-24.0	10.0-12.0	18.0-20.0	14.0-16.0	18.0-20.0
Date Sampled				11/11/05	11/14/05	11/14/05	11/14/05	11/14/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
Styrene	UG/KG	-	-	6 U	9	5 U	5 U	6 U
Tetrachloroethene	UG/KG	1400	-	6 U	6 U	5 U	5 U	6 U
Toluene	UG/KG	1500	-	6 U	19	5 U	5 U	6 U
1,1,1-Trichloroethane	UG/KG	800	-	6 U	6 U	5 U	5 U	6 U
Trichloroethene	UG/KG	700	-	6 U	6 U	5 U	5 U	6 U
Trichlorofluoromethane	UG/KG	-	-	6 U	6 U	5 U	5 U	6 U
Vinyl chloride	UG/KG	200	-	11 U	12 U	11 U	10 U	11 U
Xylene (total)	UG/KG	1200	-	17 U	98	16 U	16 U	16 U
Total BTEX	UG/KG	-	-	ND	156	ND	ND	ND
Total Volatile Organic Compounds	UG/KG	10000	-	ND	204	ND	ND	ND
Semivolatile Organic Compounds								
1,1'-Biphenyl	UG/KG	50000	-	380 U	13,000	350 U	350 U	370 U
2,2'-oxybis(2-Chloropropane)	UG/KG	50000	-	380 U	8,000 U	350 U	350 U	370 U
2,4,5-Trichlorophenol	UG/KG	100	-	910 U	19,000 U	860 U	840 U	890 U
2,4,6-Trichlorophenol	UG/KG	50000	-	380 U	8,000 U	350 U	350 U	370 U
2,4-Dichlorophenol	UG/KG	400	-	380 U	8,000 U	350 U	350 U	370 U
2,4-Dimethylphenol	UG/KG	50000	-	380 U	1,100 J	350 U	350 U	370 U
2,4-Dinitrophenol	UG/KG	200 or MDL	-	1,800 U	39,000 U	1,700 U	1,700 U	1,800 U
2,4-Dinitrotoluene	UG/KG	50000	-	380 U	8,000 U	350 U	350 U	370 U
2,6-Dinitrotoluene	UG/KG	1000	-	380 U	8,000 U	350 U	350 U	370 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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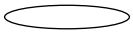
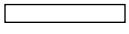

Concentration Exceeds Criteria (1)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UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Detection Limits shown are PQL

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Printed: 8/21/2008 9:15:04 AM
[LOGDATE] < #1/1/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND ([LOCID] LIKE 'SB*' OR [LOCID] LIKE 'TP

TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-07	SB-08	SB-08	SB-09	SB-09
Sample ID				SB07-22-24	SB08-10-12	SB08-18-20	SB09-14-16	SB09-18-20
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				22.0-24.0	10.0-12.0	18.0-20.0	14.0-16.0	18.0-20.0
Date Sampled				11/11/05	11/14/05	11/14/05	11/14/05	11/14/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
2-Chloronaphthalene	UG/KG	50000	-	380 U	8,000 U	350 U	350 U	370 U
2-Chlorophenol	UG/KG	800	-	380 U	8,000 U	350 U	350 U	370 U
2-Methylnaphthalene	UG/KG	36400	-	380 U	53,000	350 U	350 U	370 U
2-Methylphenol (o-cresol)	UG/KG	100 or MDL	-	380 U	920 J	350 U	350 U	370 U
2-Nitroaniline	UG/KG	430 or MDL	-	1,800 U	39,000 U	1,700 U	1,700 U	1,800 U
2-Nitrophenol	UG/KG	330 or MDL	-	380 U	8,000 U	350 U	350 U	370 U
3,3'-Dichlorobenzidine	UG/KG	50000	-	380 U	8,000 U	350 U	350 U	370 U
3-Nitroaniline	UG/KG	500 or MDL	-	1,800 U	39,000 U	1,700 U	1,700 U	1,800 U
4,6-Dinitro-2-methylphenol	UG/KG	50000	-	1,800 U	39,000 U	1,700 U	1,700 U	1,800 U
4-Bromophenyl-phenylether	UG/KG	50000	-	380 U	8,000 U	350 U	350 U	370 U
4-Chloro-3-methylphenol	UG/KG	240 or MDL	-	380 U	8,000 U	350 U	350 U	370 U
4-Chloroaniline	UG/KG	220 or MDL	-	380 U	8,000 U	350 U	350 U	370 U
4-Chlorophenyl-phenylether	UG/KG	50000	-	380 U	8,000 U	350 U	350 U	370 U
4-Methylphenol (p-cresol)	UG/KG	900	-	380 U	2,800 J	350 U	350 U	370 U
4-Nitroaniline	UG/KG	50000	-	1,800 U	39,000 U	1,700 U	1,700 U	1,800 U
4-Nitrophenol	UG/KG	100 or MDL	-	1,800 U	39,000 U	1,700 U	1,700 U	1,800 U
Acenaphthene	UG/KG	50000	-	380 U	54,000	350 U	350 U	370 U
Acenaphthylene	UG/KG	41000	-	380 U	39,000	24 J	350 U	370 U
Acetophenone	UG/KG	50000	-	380 U	8,000 U	350 U	350 U	370 U
Anthracene	UG/KG	50000	-	380 U	90,000	31 J	350 U	370 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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Concentration Exceeds Criteria (1)

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FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-07	SB-08	SB-08	SB-09	SB-09
Sample ID				SB07-22-24	SB08-10-12	SB08-18-20	SB09-14-16	SB09-18-20
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				22.0-24.0	10.0-12.0	18.0-20.0	14.0-16.0	18.0-20.0
Date Sampled				11/11/05	11/14/05	11/14/05	11/14/05	11/14/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Atrazine	UG/KG	50000	-	380 U	8,000 U	350 U	350 U	370 U
Benzaldehyde	UG/KG	50000	-	380 U	8,000 U	350 U	350 U	370 U
Benzo(a)anthracene	UG/KG	224 or MDL	-	22 J	230,000 D	59 J	350 U	370 U
Benzo(a)pyrene	UG/KG	61 or MDL	-	380 U	220,000 D	48 J	350 U	370 U
Benzo(b)fluoranthene	UG/KG	1100	-	19 J	240,000 D	60 J	350 U	370 U
Benzo(g,h,i)perylene	UG/KG	50000	-	380 U	73,000	24 J	350 U	370 U
Benzo(k)fluoranthene	UG/KG	1100	-	380 U	72,000	350 U	350 U	370 U
bis(2-Chloroethoxy)methane	UG/KG	50000	-	380 U	8,000 U	350 U	350 U	370 U
bis(2-Chloroethyl)ether	UG/KG	50000	-	380 U	8,000 U	350 U	350 U	370 U
bis(2-Ethylhexyl)phthalate	UG/KG	50000	-	380 U	8,000 U	350 U	350 U	370 U
Butylbenzylphthalate	UG/KG	50000	-	380 U	8,000 U	350 U	350 U	370 U
Caprolactam	UG/KG	50000	-	380 U	8,000 U	350 U	350 U	370 U
Carbazole	UG/KG	50000	-	380 U	45,000	350 U	350 U	370 U
Chrysene	UG/KG	400	-	380 U	270,000 D	57 J	350 U	370 U
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	380 U	20,000	350 U	350 U	370 U
Dibenzofuran	UG/KG	6200	-	380 U	52,000	350 U	350 U	370 U
Diethylphthalate	UG/KG	7100	-	380 U	8,000 U	350 U	350 U	370 U
Dimethylphthalate	UG/KG	2000	-	380 U	8,000 U	350 U	350 U	370 U
Di-n-butylphthalate	UG/KG	8100	-	380 U	8,000 U	350 U	350 U	370 U
Di-n-octylphthalate	UG/KG	50000	-	380 U	8,000 U	350 U	350 U	370 U

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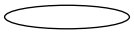
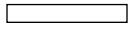

Concentration Exceeds Criteria (1)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FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-07	SB-08	SB-08	SB-09	SB-09
Sample ID				SB07-22-24	SB08-10-12	SB08-18-20	SB09-14-16	SB09-18-20
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				22.0-24.0	10.0-12.0	18.0-20.0	14.0-16.0	18.0-20.0
Date Sampled				11/11/05	11/14/05	11/14/05	11/14/05	11/14/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Fluoranthene	UG/KG	50000	-	29 J	700,000 D	140 J	350 U	370 U
Fluorene	UG/KG	50000	-	380 U	90,000	25 J	350 U	370 U
Hexachlorobenzene	UG/KG	410	-	380 U	8,000 U	350 U	350 U	370 U
Hexachlorobutadiene	UG/KG	50000	-	380 U	8,000 U	350 U	350 U	370 U
Hexachlorocyclopentadiene	UG/KG	50000	-	380 U	8,000 U	350 U	350 U	370 U
Hexachloroethane	UG/KG	50000	-	380 U	8,000 U	350 U	350 U	370 U
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	380 U	66,000	21 J	350 U	370 U
Isophorone	UG/KG	4400	-	380 U	8,000 U	350 U	350 U	370 U
Naphthalene	UG/KG	13000	-	380 U	120,000	350 U	350 U	370 U
Nitrobenzene	UG/KG	200 or MDL	-	380 U	8,000 U	350 U	350 U	370 U
N-Nitroso-di-n-propylamine	UG/KG	50000	-	380 U	8,000 U	350 U	350 U	370 U
N-Nitrosodiphenylamine	UG/KG	50000	-	380 U	8,000 U	350 U	350 U	370 U
Pentachlorophenol	UG/KG	1000 or MDL	-	1,800 U	39,000 U	1,700 U	1,700 U	1,800 U
Phenanthrene	UG/KG	50000	-	380 U	860,000 D	150 J	350 U	370 U
Phenol	UG/KG	30 or MDL	-	380 U	1,800 J	350 U	350 U	370 U
Pyrene	UG/KG	50000	-	380 U	670,000 D	130 J	350 U	370 U
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	70	3,814,000	769	ND	ND
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	70	3,983,620	769	ND	ND
Metals								
Aluminum	MG/KG	SB	33000	6,040 J	4,550 J	6,280 J	7,550 J	7,570 J

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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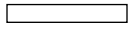
Concentration Exceeds Criteria (1)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FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-07	SB-08	SB-08	SB-09	SB-09
Sample ID				SB07-22-24	SB08-10-12	SB08-18-20	SB09-14-16	SB09-18-20
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				22.0-24.0	10.0-12.0	18.0-20.0	14.0-16.0	18.0-20.0
Date Sampled				11/11/05	11/14/05	11/14/05	11/14/05	11/14/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Antimony	MG/KG	SB	-	15.4 UJ	20.2 UJ	16.8 UJ	15.2 UJ	15.3 UJ
Arsenic	MG/KG	7.5	12	2.8	5.2	4.2	3.1	3.1
Barium	MG/KG	300	600	27.6 J	40.1 J	44.5 J	39.4 J	28.8 J
Beryllium	MG/KG	0.16	1.75	0.30	0.33	0.28	0.32	0.29
Cadmium	MG/KG	1	1	0.20 U	0.27 U	0.22 U	0.20 U	0.20 U
Calcium	MG/KG	SB	35000	66,400	11,500 J	62,100 J	59,200 J	46,000 J
Chromium	MG/KG	10	40	8.0	6.1	7.3	8.7	9.3
Cobalt	MG/KG	30	60	5.2	3.8	5.1	5.2	5.9
Copper	MG/KG	25	50	15.0	20.9	22.5	16.2	17.3
Iron	MG/KG	2000	5.50E+05	13,800 J	13,200 J	18,200 J	14,600 J	15,100 J
Lead	MG/KG	SB	500	6.5	749	9.3	5.8	11.4
Magnesium	MG/KG	SB	5000	6,110 J	2,780	4,590	9,170	7,610
Manganese	MG/KG	SB	5000	523 J	214 J	618 J	423 J	443 J
Mercury	MG/KG	0.1	0.2	0.019 U	0.065	0.016 U	0.016 U	0.020 U
Nickel	MG/KG	13	25	13.0	10.0	12.3	14.3	14.9
Potassium	MG/KG	SB	43000	591	348	557	742	675
Selenium	MG/KG	2	3.9	4.1 U	5.4 U	4.5 U	4.1 U	4.1 U
Silver	MG/KG	SB	-	0.53 U	0.67 U	0.56 U	0.51 U	0.51 U
Sodium	MG/KG	SB	8000	143 U	189 U	157 U	142 U	143 U
Thallium	MG/KG	SB	-	6.1 U	8.1 U	6.7 U	6.1 U	6.1 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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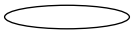
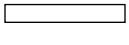

Concentration Exceeds Criteria (1)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[LOGDATE] < #1/1/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND ([LOCID] LIKE 'SB*' OR [LOCID] LIKE 'TP

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NYSEG - CORTLAND, NEW YORK

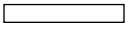
Location ID				SB-07	SB-08	SB-08	SB-09	SB-09
Sample ID				SB07-22-24	SB08-10-12	SB08-18-20	SB09-14-16	SB09-18-20
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				22.0-24.0	10.0-12.0	18.0-20.0	14.0-16.0	18.0-20.0
Date Sampled				11/11/05	11/14/05	11/14/05	11/14/05	11/14/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Vanadium	MG/KG	150	300	8.0	15.2	9.8	9.7	9.6
Zinc	MG/KG	20	50	43.8	350	38.6	41.9	47.9
Miscellaneous Parameters								
Cyanide	MG/KG	-	-	1.1 U	1.0	0.92 U	1.0 U	1.0 U
Cyanide, Amenable To Chlorination	MG/KG	-	-	1.1 U	1.1 U	1.0 U	0.95 U	1.0 U
Phenolics, Total Recoverable	MG/KG	-	-	5.6 U	5.6 U	4.9 U	4.6 U	5.6 U
Total Organic Carbon (TOC)	MG/KG	-	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

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J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.
NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).
UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Detection Limits shown are PQL

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[LOGDATE] < #1/1/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND ([LOCID] LIKE 'SB*' OR [LOCID] LIKE 'TP

TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-10	SB-10	SB-11-1	SB-11-1	SB-12
Sample ID				SB10-14-16	SB10-18-20	SB11-1-6-8	SB11-1-9-11	DUP-042606
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-16.0	18.0-20.0	6.0-8.0	9.0-11.0	10.0-12.0
Date Sampled				11/14/05	11/14/05	11/14/05	11/14/05	04/26/06
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	UG/KG	600	-	5 U	5 U	5 U	6 U	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	6000	-	5 U	5 U	5 U	6 U	NA
1,1,2-Trichloroethane	UG/KG	-	-	5 U	5 U	5 U	6 U	NA
1,1-Dichloroethane	UG/KG	200	-	5 U	5 U	5 U	6 U	NA
1,1-Dichloroethene	UG/KG	400	-	5 U	5 U	5 U	6 U	NA
1,2,4-Trichlorobenzene	UG/KG	3400	-	5 U	5 U	5 U	6 U	NA
1,2-Dibromo-3-chloropropane	UG/KG	-	-	5 U	5 U	5 U	6 U	NA
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	-	-	5 U	5 U	5 U	6 U	NA
1,2-Dichlorobenzene	UG/KG	7900	-	5 U	5 U	5 U	6 U	NA
1,2-Dichloroethane	UG/KG	100	-	5 U	5 U	5 U	6 U	NA
1,2-Dichloroethene (cis)	UG/KG	300	-	5 U	5 U	5 U	6 U	NA
1,2-Dichloroethene (trans)	UG/KG	300	-	5 U	5 U	5 U	6 U	NA
1,2-Dichloropropane	UG/KG	-	-	5 U	5 U	5 U	6 U	NA
1,3-Dichlorobenzene	UG/KG	600	-	5 U	5 U	5 U	6 U	NA
1,3-Dichloropropene (cis)	UG/KG	300	-	5 U	5 U	5 U	6 U	NA
1,3-Dichloropropene (trans)	UG/KG	300	-	5 U	5 U	5 U	6 U	NA
1,4-Dichlorobenzene	UG/KG	8500	-	5 U	5 U	5 U	6 U	NA
2-Hexanone	UG/KG	-	-	26 U	26 U	26 U	30 U	NA
4-Methyl-2-pentanone	UG/KG	1000	-	26 U	26 U	26 U	30 U	NA
Acetone	UG/KG	200	-	26 U	26 U	26 U	88	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

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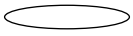
TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-10	SB-10	SB-11-1	SB-11-1	SB-12
Sample ID				SB10-14-16	SB10-18-20	SB11-1-6-8	SB11-1-9-11	DUP-042606
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-16.0	18.0-20.0	6.0-8.0	9.0-11.0	10.0-12.0
Date Sampled				11/14/05	11/14/05	11/14/05	11/14/05	04/26/06
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Volatile Organic Compounds								
Benzene	UG/KG	60	-	5 U	5 U	5 U	22	NA
Bromodichloromethane	UG/KG	-	-	5 U	5 U	5 U	6 U	NA
Bromoform	UG/KG	-	-	5 U	5 U	5 U	6 U	NA
Bromomethane	UG/KG	-	-	5 U	5 U	5 U	6 U	NA
Carbon disulfide	UG/KG	2700	-	5 U	5 U	5 U	7	NA
Carbon tetrachloride	UG/KG	600	-	5 U	5 U	5 U	6 U	NA
Chlorobenzene	UG/KG	1700	-	5 U	5 U	5 U	6 U	NA
Chloroethane	UG/KG	1900	-	5 U	5 U	5 U	6 U	NA
Chloroform	UG/KG	300	-	5 U	5 U	5 U	6 U	NA
Chloromethane	UG/KG	-	-	5 U	5 U	5 U	6 U	NA
Cyclohexane	UG/KG	-	-	5 U	5 U	5 U	6 U	NA
Dibromochloromethane	UG/KG	-	-	5 U	5 U	5 U	6 U	NA
Dichlorodifluoromethane	UG/KG	-	-	5 U	5 U	5 U	6 U	NA
Ethylbenzene	UG/KG	5500	-	5 U	5 U	5 U	22	NA
Isopropylbenzene (Cumene)	UG/KG	2300	-	5 U	5 U	5 U	3 J	NA
Methyl acetate	UG/KG	-	-	5 U	5 U	5 U	6 U	NA
Methyl ethyl ketone (2-Butanone)	UG/KG	300	-	26 U	26 U	26 U	22 J	NA
Methyl tert-butyl ether	UG/KG	120	-	5 U	5 U	5 U	6 U	NA
Methylcyclohexane	UG/KG	-	-	5 U	5 U	5 U	6 U	NA
Methylene chloride	UG/KG	100	-	7 U	8 U	7 U	7 U	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)

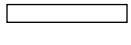

Concentration Exceeds Criteria (2)

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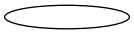
TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-10	SB-10	SB-11-1	SB-11-1	SB-12
Sample ID				SB10-14-16	SB10-18-20	SB11-1-6-8	SB11-1-9-11	DUP-042606
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-16.0	18.0-20.0	6.0-8.0	9.0-11.0	10.0-12.0
Date Sampled				11/14/05	11/14/05	11/14/05	11/14/05	04/26/06
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Volatile Organic Compounds								
Styrene	UG/KG	-	-	5 U	5 U	5 U	4 J	NA
Tetrachloroethene	UG/KG	1400	-	5 U	5 U	5 U	6 U	NA
Toluene	UG/KG	1500	-	5 U	5 U	5 U	10	NA
1,1,1-Trichloroethane	UG/KG	800	-	5 U	5 U	5 U	6 U	NA
Trichloroethene	UG/KG	700	-	5 U	5 U	5 U	6 U	NA
Trichlorofluoromethane	UG/KG	-	-	5 U	5 U	5 U	6 U	NA
Vinyl chloride	UG/KG	200	-	10 U	10 U	11 U	12 U	NA
Xylene (total)	UG/KG	1200	-	16 U	16 U	16 U	60	NA
Total BTEX	UG/KG	-	-	ND	ND	ND	114	NA
Total Volatile Organic Compounds	UG/KG	10000	-	ND	ND	ND	238	NA
Semivolatile Organic Compounds								
1,1'-Biphenyl	UG/KG	50000	-	340 U	360 U	350 U	4,000 J	NA
2,2'-oxybis(2-Chloropropane)	UG/KG	50000	-	340 U	360 U	350 U	8,100 U	NA
2,4,5-Trichlorophenol	UG/KG	100	-	840 U	870 U	860 U	20,000 U	NA
2,4,6-Trichlorophenol	UG/KG	50000	-	340 U	360 U	350 U	8,100 U	NA
2,4-Dichlorophenol	UG/KG	400	-	340 U	360 U	350 U	8,100 U	NA
2,4-Dimethylphenol	UG/KG	50000	-	340 U	360 U	350 U	8,100 U	NA
2,4-Dinitrophenol	UG/KG	200 or MDL	-	1,700 U	1,700 U	1,700 U	39,000 U	NA
2,4-Dinitrotoluene	UG/KG	50000	-	340 U	360 U	350 U	8,100 U	NA
2,6-Dinitrotoluene	UG/KG	1000	-	340 U	360 U	350 U	8,100 U	NA

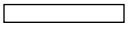
Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.
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Detection Limits shown are PQL

TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-10	SB-10	SB-11-1	SB-11-1	SB-12
Sample ID				SB10-14-16	SB10-18-20	SB11-1-6-8	SB11-1-9-11	DUP-042606
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-16.0	18.0-20.0	6.0-8.0	9.0-11.0	10.0-12.0
Date Sampled				11/14/05	11/14/05	11/14/05	11/14/05	04/26/06
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Semivolatile Organic Compounds								
2-Chloronaphthalene	UG/KG	50000	-	340 U	360 U	350 U	8,100 U	NA
2-Chlorophenol	UG/KG	800	-	340 U	360 U	350 U	8,100 U	NA
2-Methylnaphthalene	UG/KG	36400	-	340 U	360 U	18 J	19,000	58 J
2-Methylphenol (o-cresol)	UG/KG	100 or MDL	-	340 U	360 U	350 U	8,100 U	NA
2-Nitroaniline	UG/KG	430 or MDL	-	1,700 U	1,700 U	1,700 U	39,000 U	NA
2-Nitrophenol	UG/KG	330 or MDL	-	340 U	360 U	350 U	8,100 U	NA
3,3'-Dichlorobenzidine	UG/KG	50000	-	340 U	360 U	350 U	8,100 U	NA
3-Nitroaniline	UG/KG	500 or MDL	-	1,700 U	1,700 U	1,700 U	39,000 U	NA
4,6-Dinitro-2-methylphenol	UG/KG	50000	-	1,700 U	1,700 U	1,700 U	39,000 U	NA
4-Bromophenyl-phenylether	UG/KG	50000	-	340 U	360 U	350 U	8,100 U	NA
4-Chloro-3-methylphenol	UG/KG	240 or MDL	-	340 U	360 U	350 U	8,100 U	NA
4-Chloroaniline	UG/KG	220 or MDL	-	340 U	360 U	350 U	8,100 U	NA
4-Chlorophenyl-phenylether	UG/KG	50000	-	340 U	360 U	350 U	8,100 U	NA
4-Methylphenol (p-cresol)	UG/KG	900	-	340 U	360 U	350 U	1,800 J	NA
4-Nitroaniline	UG/KG	50000	-	1,700 U	1,700 U	1,700 U	39,000 U	NA
4-Nitrophenol	UG/KG	100 or MDL	-	1,700 U	1,700 U	1,700 U	39,000 U	NA
Acenaphthene	UG/KG	50000	-	340 U	360 U	350 U	6,400 J	38 J
Acenaphthylene	UG/KG	41000	-	340 U	360 U	32 J	14,000	310 J
Acetophenone	UG/KG	50000	-	340 U	360 U	350 U	8,100 U	NA
Anthracene	UG/KG	50000	-	340 U	360 U	37 J	23,000	120 J

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

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TABLE 2
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FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-10	SB-10	SB-11-1	SB-11-1	SB-12
Sample ID				SB10-14-16	SB10-18-20	SB11-1-6-8	SB11-1-9-11	DUP-042606
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-16.0	18.0-20.0	6.0-8.0	9.0-11.0	10.0-12.0
Date Sampled				11/14/05	11/14/05	11/14/05	11/14/05	04/26/06
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Semivolatile Organic Compounds								
Atrazine	UG/KG	50000	-	340 U	360 U	350 U	8,100 U	NA
Benzaldehyde	UG/KG	50000	-	340 U	360 U	350 U	8,100 U	NA
Benzo(a)anthracene	UG/KG	224 or MDL	-	340 U	360 U	160 J	35,000	510
Benzo(a)pyrene	UG/KG	61 or MDL	-	340 U	360 U	180 J	22,000	660
Benzo(b)fluoranthene	UG/KG	1100	-	340 U	360 U	220 J	28,000	940
Benzo(g,h,i)perylene	UG/KG	50000	-	340 U	360 U	130 J	7,800 J	920
Benzo(k)fluoranthene	UG/KG	1100	-	340 U	360 U	63 J	8,800	240 J
bis(2-Chloroethoxy)methane	UG/KG	50000	-	340 U	360 U	350 U	8,100 U	NA
bis(2-Chloroethyl)ether	UG/KG	50000	-	340 U	360 U	350 U	8,100 U	NA
bis(2-Ethylhexyl)phthalate	UG/KG	50000	-	340 U	360 U	350 U	8,100 U	NA
Butylbenzylphthalate	UG/KG	50000	-	340 U	360 U	350 U	8,100 U	NA
Caprolactam	UG/KG	50000	-	340 U	360 U	350 U	8,100 U	NA
Carbazole	UG/KG	50000	-	340 U	360 U	36 J	8,800	NA
Chrysene	UG/KG	400	-	340 U	360 U	180 J	31,000	610
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	340 U	360 U	28 J	2,500 J	210 J
Dibenzofuran	UG/KG	6200	-	340 U	360 U	19 J	18,000	19 J
Diethylphthalate	UG/KG	7100	-	340 U	360 U	350 U	8,100 U	NA
Dimethylphthalate	UG/KG	2000	-	340 U	360 U	350 U	8,100 U	NA
Di-n-butylphthalate	UG/KG	8100	-	340 U	360 U	350 U	8,100 U	NA
Di-n-octylphthalate	UG/KG	50000	-	340 U	360 U	350 U	8,100 U	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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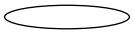
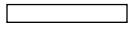

Concentration Exceeds Criteria (1)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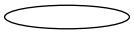
NYSEG - CORTLAND, NEW YORK

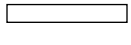
Location ID				SB-10	SB-10	SB-11-1	SB-11-1	SB-12
Sample ID				SB10-14-16	SB10-18-20	SB11-1-6-8	SB11-1-9-11	DUP-042606
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-16.0	18.0-20.0	6.0-8.0	9.0-11.0	10.0-12.0
Date Sampled				11/14/05	11/14/05	11/14/05	11/14/05	04/26/06
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Semivolatile Organic Compounds								
Fluoranthene	UG/KG	50000	-	340 U	360 U	370	92,000	1,100
Fluorene	UG/KG	50000	-	340 U	360 U	22 J	27,000	340 U
Hexachlorobenzene	UG/KG	410	-	340 U	360 U	350 U	8,100 U	NA
Hexachlorobutadiene	UG/KG	50000	-	340 U	360 U	350 U	8,100 U	NA
Hexachlorocyclopentadiene	UG/KG	50000	-	340 U	360 U	350 U	8,100 U	NA
Hexachloroethane	UG/KG	50000	-	340 U	360 U	350 U	8,100 U	NA
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	340 U	360 U	120 J	7,900 J	740
Isophorone	UG/KG	4400	-	340 U	360 U	350 U	8,100 U	NA
Naphthalene	UG/KG	13000	-	340 U	360 U	350 U	28,000	99 J
Nitrobenzene	UG/KG	200 or MDL	-	340 U	360 U	350 U	8,100 U	NA
N-Nitroso-di-n-propylamine	UG/KG	50000	-	340 U	360 U	350 U	8,100 U	NA
N-Nitrosodiphenylamine	UG/KG	50000	-	340 U	360 U	350 U	8,100 U	NA
Pentachlorophenol	UG/KG	1000 or MDL	-	1,700 U	1,700 U	1,700 U	39,000 U	NA
Phenanthrene	UG/KG	50000	-	340 U	360 U	240 J	110,000	380
Phenol	UG/KG	30 or MDL	-	340 U	360 U	350 U	8,100 U	NA
Pyrene	UG/KG	50000	-	340 U	360 U	320 J	69,000	810
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	ND	ND	2,102	512,400	7,687
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	ND	ND	2,175	564,000	7,764
Metals								
Aluminum	MG/KG	SB	33000	7,810 J	4,310 J	5,740 J	6,340 J	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

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UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Detection Limits shown are PQL

TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-10	SB-10	SB-11-1	SB-11-1	SB-12
Sample ID				SB10-14-16	SB10-18-20	SB11-1-6-8	SB11-1-9-11	DUP-042606
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-16.0	18.0-20.0	6.0-8.0	9.0-11.0	10.0-12.0
Date Sampled				11/14/05	11/14/05	11/14/05	11/14/05	04/26/06
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Metals								
Antimony	MG/KG	SB	-	16.1 UJ	14.6 UJ	16.9 UJ	17.6 UJ	NA
Arsenic	MG/KG	7.5	12	2.9	25.0	8.9	10.9	NA
Barium	MG/KG	300	600	32.3 J	23.9 J	328 J	48.2 J	NA
Beryllium	MG/KG	0.16	1.75	0.32	0.25	0.44	0.52	NA
Cadmium	MG/KG	1	1	0.21 U	0.19 U	0.23 U	0.23 U	NA
Calcium	MG/KG	SB	35000	59,400 J	120,000 J	18,300 J	75,600 J	NA
Chromium	MG/KG	10	40	9.7	6.3	10.1	7.5	NA
Cobalt	MG/KG	30	60	5.6	5.7	9.2	6.0	NA
Copper	MG/KG	25	50	18.2	7.4	72.9	26.2	NA
Iron	MG/KG	2000	5.50E+05	15,600 J	12,100 J	16,100 J	17,200 J	NA
Lead	MG/KG	SB	500	7.3	10.6	2,110	168	NA
Magnesium	MG/KG	SB	5000	4,180	42,400	2,630	5,490	NA
Manganese	MG/KG	SB	5000	808 J	334 J	265 J	484 J	NA
Mercury	MG/KG	0.1	0.2	0.018 U	0.016 U	0.227	0.058	NA
Nickel	MG/KG	13	25	15.0	13.9	12.0	14.3	NA
Potassium	MG/KG	SB	43000	771	523	750	589	NA
Selenium	MG/KG	2	3.9	4.3 U	3.9 U	4.5 U	4.7 U	NA
Silver	MG/KG	SB	-	0.54 U	0.49 U	0.56 U	0.59 U	NA
Sodium	MG/KG	SB	8000	150 U	137	497	257	NA
Thallium	MG/KG	SB	-	6.4 U	5.8 U	6.8 U	7.0 U	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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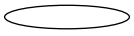
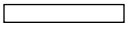

Concentration Exceeds Criteria (1)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Detection Limits shown are PQL

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Printed: 8/21/2008 9:15:06 AM
[LOGDATE] < #1/1/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND ([LOCID] LIKE 'SB*' OR [LOCID] LIKE 'TP

TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

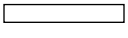
Location ID				SB-10	SB-10	SB-11-1	SB-11-1	SB-12
Sample ID				SB10-14-16	SB10-18-20	SB11-1-6-8	SB11-1-9-11	DUP-042606
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-16.0	18.0-20.0	6.0-8.0	9.0-11.0	10.0-12.0
Date Sampled				11/14/05	11/14/05	11/14/05	11/14/05	04/26/06
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					Field Duplicate (1-1)
Metals								
Vanadium	MG/KG	150	300	10.5	6.5	18.6	21.0	NA
Zinc	MG/KG	20	50	40.9	22.8	121	64.7	NA
Miscellaneous Parameters								
Cyanide	MG/KG	-	-	1.0 U	0.94 U	1.0 U	1.2	1.0 UJ
Cyanide, Amenable To Chlorination	MG/KG	-	-	0.92 U	1.0 U	0.99 U	1.1	NA
Phenolics, Total Recoverable	MG/KG	-	-	4.6 U	5.4 U	4.8 U	5.4 U	NA
Total Organic Carbon (TOC)	MG/KG	-	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

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FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-12	SB-12	SB-13	SB-13	SB-14
Sample ID				SB12 10-12	SB12 14-15	SB13 10-12	13 14-15.7	SB14 11-12
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	14.0-15.0	10.0-12.0	14.0-15.7	11.0-12.0
Date Sampled				04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	UG/KG	600	-	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	6000	-	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	UG/KG	-	-	NA	NA	NA	NA	NA
1,1-Dichloroethane	UG/KG	200	-	NA	NA	NA	NA	NA
1,1-Dichloroethene	UG/KG	400	-	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	UG/KG	3400	-	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	UG/KG	-	-	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	-	-	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	UG/KG	7900	-	NA	NA	NA	NA	NA
1,2-Dichloroethane	UG/KG	100	-	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	UG/KG	300	-	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	UG/KG	300	-	NA	NA	NA	NA	NA
1,2-Dichloropropane	UG/KG	-	-	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	UG/KG	600	-	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	UG/KG	300	-	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	UG/KG	300	-	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	UG/KG	8500	-	NA	NA	NA	NA	NA
2-Hexanone	UG/KG	-	-	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	UG/KG	1000	-	NA	NA	NA	NA	NA
Acetone	UG/KG	200	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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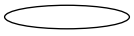
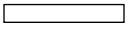

Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

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FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-12	SB-12	SB-13	SB-13	SB-14
Sample ID				SB12 10-12	SB12 14-15	SB13 10-12	13 14-15.7	SB14 11-12
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	14.0-15.0	10.0-12.0	14.0-15.7	11.0-12.0
Date Sampled				04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
Benzene	UG/KG	60	-	5 U	5 U	5 U	5 U	7,500 U
Bromodichloromethane	UG/KG	-	-	NA	NA	NA	NA	NA
Bromoform	UG/KG	-	-	NA	NA	NA	NA	NA
Bromomethane	UG/KG	-	-	NA	NA	NA	NA	NA
Carbon disulfide	UG/KG	2700	-	NA	NA	NA	NA	NA
Carbon tetrachloride	UG/KG	600	-	NA	NA	NA	NA	NA
Chlorobenzene	UG/KG	1700	-	NA	NA	NA	NA	NA
Chloroethane	UG/KG	1900	-	NA	NA	NA	NA	NA
Chloroform	UG/KG	300	-	NA	NA	NA	NA	NA
Chloromethane	UG/KG	-	-	NA	NA	NA	NA	NA
Cyclohexane	UG/KG	-	-	NA	NA	NA	NA	NA
Dibromochloromethane	UG/KG	-	-	NA	NA	NA	NA	NA
Dichlorodifluoromethane	UG/KG	-	-	NA	NA	NA	NA	NA
Ethylbenzene	UG/KG	5500	-	5 U	1 J	5 U	5 U	53,000
Isopropylbenzene (Cumene)	UG/KG	2300	-	NA	NA	NA	NA	NA
Methyl acetate	UG/KG	-	-	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/KG	300	-	NA	NA	NA	NA	NA
Methyl tert-butyl ether	UG/KG	120	-	NA	NA	NA	NA	NA
Methylcyclohexane	UG/KG	-	-	NA	NA	NA	NA	NA
Methylene chloride	UG/KG	100	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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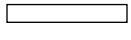
Concentration Exceeds Criteria (1)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[LOGDATE] < #1/1/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND ([LOCID] LIKE 'SB*' OR [LOCID] LIKE 'TP

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FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-12	SB-12	SB-13	SB-13	SB-14
Sample ID				SB12 10-12	SB12 14-15	SB13 10-12	13 14-15.7	SB14 11-12
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	14.0-15.0	10.0-12.0	14.0-15.7	11.0-12.0
Date Sampled				04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
Styrene	UG/KG	-	-	NA	NA	NA	NA	NA
Tetrachloroethene	UG/KG	1400	-	NA	NA	NA	NA	NA
Toluene	UG/KG	1500	-	5 U	3 J	5 U	3 J	14,000
1,1,1-Trichloroethane	UG/KG	800	-	NA	NA	NA	NA	NA
Trichloroethene	UG/KG	700	-	NA	NA	NA	NA	NA
Trichlorofluoromethane	UG/KG	-	-	NA	NA	NA	NA	NA
Vinyl chloride	UG/KG	200	-	NA	NA	NA	NA	NA
Xylene (total)	UG/KG	1200	-	15 U	3 J	16 U	4 J	640,000
Total BTEX	UG/KG	-	-	ND	7	ND	7	707,000
Total Volatile Organic Compounds	UG/KG	10000	-	ND	7	ND	7	707,000
Semivolatile Organic Compounds								
1,1'-Biphenyl	UG/KG	50000	-	NA	NA	NA	NA	NA
2,2'-oxybis(2-Chloropropane)	UG/KG	50000	-	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/KG	100	-	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/KG	50000	-	NA	NA	NA	NA	NA
2,4-Dichlorophenol	UG/KG	400	-	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/KG	50000	-	NA	NA	NA	NA	NA
2,4-Dinitrophenol	UG/KG	200 or MDL	-	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/KG	50000	-	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/KG	1000	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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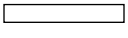
Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

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VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-12	SB-12	SB-13	SB-13	SB-14
Sample ID				SB12 10-12	SB12 14-15	SB13 10-12	13 14-15.7	SB14 11-12
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	14.0-15.0	10.0-12.0	14.0-15.7	11.0-12.0
Date Sampled				04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
2-Chloronaphthalene	UG/KG	50000	-	NA	NA	NA	NA	NA
2-Chlorophenol	UG/KG	800	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/KG	36400	-	340 U	22 J	98 J	60 J	19,000
2-Methylphenol (o-cresol)	UG/KG	100 or MDL	-	NA	NA	NA	NA	NA
2-Nitroaniline	UG/KG	430 or MDL	-	NA	NA	NA	NA	NA
2-Nitrophenol	UG/KG	330 or MDL	-	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	UG/KG	50000	-	NA	NA	NA	NA	NA
3-Nitroaniline	UG/KG	500 or MDL	-	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/KG	50000	-	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/KG	50000	-	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/KG	240 or MDL	-	NA	NA	NA	NA	NA
4-Chloroaniline	UG/KG	220 or MDL	-	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	UG/KG	50000	-	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/KG	900	-	NA	NA	NA	NA	NA
4-Nitroaniline	UG/KG	50000	-	NA	NA	NA	NA	NA
4-Nitrophenol	UG/KG	100 or MDL	-	NA	NA	NA	NA	NA
Acenaphthene	UG/KG	50000	-	340 U	350 U	71 J	36 J	4,800 J
Acenaphthylene	UG/KG	41000	-	120 J	350 U	340 U	340 U	18,000
Acetophenone	UG/KG	50000	-	NA	NA	NA	NA	NA
Anthracene	UG/KG	50000	-	34 J	350 U	340 U	340 U	29,000

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

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VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

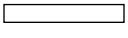
Location ID				SB-12	SB-12	SB-13	SB-13	SB-14
Sample ID				SB12 10-12	SB12 14-15	SB13 10-12	13 14-15.7	SB14 11-12
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	14.0-15.0	10.0-12.0	14.0-15.7	11.0-12.0
Date Sampled				04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Atrazine	UG/KG	50000	-	NA	NA	NA	NA	NA
Benzaldehyde	UG/KG	50000	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	UG/KG	224 or MDL	-	180 J	350 U	340 U	340 U	35,000
Benzo(a)pyrene	UG/KG	61 or MDL	-	240 J	350 U	340 U	340 U	28,000
Benzo(b)fluoranthene	UG/KG	1100	-	350	31 J	340 U	340 U	31,000
Benzo(g,h,i)perylene	UG/KG	50000	-	380	42 J	340 U	340 U	13,000
Benzo(k)fluoranthene	UG/KG	1100	-	120 J	350 U	340 U	340 U	10,000
bis(2-Chloroethoxy)methane	UG/KG	50000	-	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/KG	50000	-	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/KG	50000	-	NA	NA	NA	NA	NA
Butylbenzylphthalate	UG/KG	50000	-	NA	NA	NA	NA	NA
Caprolactam	UG/KG	50000	-	NA	NA	NA	NA	NA
Carbazole	UG/KG	50000	-	NA	NA	NA	NA	NA
Chrysene	UG/KG	400	-	230 J	350 U	340 U	340 U	27,000
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	80 J	350 U	340 U	340 U	4,900 J
Dibenzofuran	UG/KG	6200	-	340 U	350 U	340 U	20 J	16,000
Diethylphthalate	UG/KG	7100	-	NA	NA	NA	NA	NA
Dimethylphthalate	UG/KG	2000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/KG	8100	-	NA	NA	NA	NA	NA
Di-n-octylphthalate	UG/KG	50000	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

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J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.
NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).
UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Detection Limits shown are PQL

TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

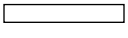
Location ID				SB-12	SB-12	SB-13	SB-13	SB-14
Sample ID				SB12 10-12	SB12 14-15	SB13 10-12	13 14-15.7	SB14 11-12
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	14.0-15.0	10.0-12.0	14.0-15.7	11.0-12.0
Date Sampled				04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Fluoranthene	UG/KG	50000	-	400	21 J	340 U	340 U	66,000
Fluorene	UG/KG	50000	-	340 U	350 U	340 U	340 U	23,000
Hexachlorobenzene	UG/KG	410	-	NA	NA	NA	NA	NA
Hexachlorobutadiene	UG/KG	50000	-	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/KG	50000	-	NA	NA	NA	NA	NA
Hexachloroethane	UG/KG	50000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	290 J	32 J	340 U	340 U	14,000
Isophorone	UG/KG	4400	-	NA	NA	NA	NA	NA
Naphthalene	UG/KG	13000	-	24 J	350 U	180 J	110 J	24,000
Nitrobenzene	UG/KG	200 or MDL	-	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/KG	50000	-	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/KG	50000	-	NA	NA	NA	NA	NA
Pentachlorophenol	UG/KG	1000 or MDL	-	NA	NA	NA	NA	NA
Phenanthrene	UG/KG	50000	-	150 J	350 U	72 J	44 J	66,000
Phenol	UG/KG	30 or MDL	-	NA	NA	NA	NA	NA
Pyrene	UG/KG	50000	-	330 J	350 U	340 U	340 U	46,000
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	2,928	126	323	190	439,700
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	2,928	148	421	270	474,700
Metals								
Aluminum	MG/KG	SB	33000	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)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Detection Limits shown are PQL

TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-12	SB-12	SB-13	SB-13	SB-14
Sample ID				SB12 10-12	SB12 14-15	SB13 10-12	13 14-15.7	SB14 11-12
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	14.0-15.0	10.0-12.0	14.0-15.7	11.0-12.0
Date Sampled				04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Antimony	MG/KG	SB	-	NA	NA	NA	NA	NA
Arsenic	MG/KG	7.5	12	NA	NA	NA	NA	NA
Barium	MG/KG	300	600	NA	NA	NA	NA	NA
Beryllium	MG/KG	0.16	1.75	NA	NA	NA	NA	NA
Cadmium	MG/KG	1	1	NA	NA	NA	NA	NA
Calcium	MG/KG	SB	35000	NA	NA	NA	NA	NA
Chromium	MG/KG	10	40	NA	NA	NA	NA	NA
Cobalt	MG/KG	30	60	NA	NA	NA	NA	NA
Copper	MG/KG	25	50	NA	NA	NA	NA	NA
Iron	MG/KG	2000	5.50E+05	NA	NA	NA	NA	NA
Lead	MG/KG	SB	500	NA	NA	NA	NA	NA
Magnesium	MG/KG	SB	5000	NA	NA	NA	NA	NA
Manganese	MG/KG	SB	5000	NA	NA	NA	NA	NA
Mercury	MG/KG	0.1	0.2	NA	NA	NA	NA	NA
Nickel	MG/KG	13	25	NA	NA	NA	NA	NA
Potassium	MG/KG	SB	43000	NA	NA	NA	NA	NA
Selenium	MG/KG	2	3.9	NA	NA	NA	NA	NA
Silver	MG/KG	SB	-	NA	NA	NA	NA	NA
Sodium	MG/KG	SB	8000	NA	NA	NA	NA	NA
Thallium	MG/KG	SB	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value.
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UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Detection Limits shown are PQL

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[LOGDATE] < #1/1/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND ([LOCID] LIKE 'SB*' OR [LOCID] LIKE 'TP

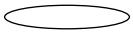
TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-12	SB-12	SB-13	SB-13	SB-14
Sample ID				SB12 10-12	SB12 14-15	SB13 10-12	13 14-15.7	SB14 11-12
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	14.0-15.0	10.0-12.0	14.0-15.7	11.0-12.0
Date Sampled				04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Vanadium	MG/KG	150	300	NA	NA	NA	NA	NA
Zinc	MG/KG	20	50	NA	NA	NA	NA	NA
Miscellaneous Parameters								
Cyanide	MG/KG	-	-	0.98 UJ	1.0 J	1.0 UJ	0.97 UJ	1.2 UJ
Cyanide, Amenable To Chlorination	MG/KG	-	-	NA	NA	NA	NA	NA
Phenolics, Total Recoverable	MG/KG	-	-	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/KG	-	-	NA	NA	NA	NA	NA

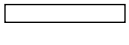
Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value.
J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.
NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).
UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Detection Limits shown are PQL

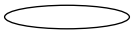
TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

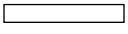
Location ID				SB-14	SB-15	SB-16	SB-17	SB-17
Sample ID				SB14 14-15	SB15 12-14	SB16 10-12	SB17 9-11	SB17 12-14
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-15.0	12.0-14.0	10.0-12.0	9.0-11.0	12.0-14.0
Date Sampled				04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	UG/KG	600	-	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	6000	-	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	UG/KG	-	-	NA	NA	NA	NA	NA
1,1-Dichloroethane	UG/KG	200	-	NA	NA	NA	NA	NA
1,1-Dichloroethene	UG/KG	400	-	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	UG/KG	3400	-	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	UG/KG	-	-	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	-	-	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	UG/KG	7900	-	NA	NA	NA	NA	NA
1,2-Dichloroethane	UG/KG	100	-	NA	NA	NA	NA	NA
1,2-Dichloroethene (cis)	UG/KG	300	-	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	UG/KG	300	-	NA	NA	NA	NA	NA
1,2-Dichloropropane	UG/KG	-	-	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	UG/KG	600	-	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	UG/KG	300	-	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	UG/KG	300	-	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	UG/KG	8500	-	NA	NA	NA	NA	NA
2-Hexanone	UG/KG	-	-	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	UG/KG	1000	-	NA	NA	NA	NA	NA
Acetone	UG/KG	200	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

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Detection Limits shown are PQL

TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-14	SB-15	SB-16	SB-17	SB-17
Sample ID				SB14 14-15	SB15 12-14	SB16 10-12	SB17 9-11	SB17 12-14
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-15.0	12.0-14.0	10.0-12.0	9.0-11.0	12.0-14.0
Date Sampled				04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
Benzene	UG/KG	60	-	2 J	5 U	34	12	4 J
Bromodichloromethane	UG/KG	-	-	NA	NA	NA	NA	NA
Bromoform	UG/KG	-	-	NA	NA	NA	NA	NA
Bromomethane	UG/KG	-	-	NA	NA	NA	NA	NA
Carbon disulfide	UG/KG	2700	-	NA	NA	NA	NA	NA
Carbon tetrachloride	UG/KG	600	-	NA	NA	NA	NA	NA
Chlorobenzene	UG/KG	1700	-	NA	NA	NA	NA	NA
Chloroethane	UG/KG	1900	-	NA	NA	NA	NA	NA
Chloroform	UG/KG	300	-	NA	NA	NA	NA	NA
Chloromethane	UG/KG	-	-	NA	NA	NA	NA	NA
Cyclohexane	UG/KG	-	-	NA	NA	NA	NA	NA
Dibromochloromethane	UG/KG	-	-	NA	NA	NA	NA	NA
Dichlorodifluoromethane	UG/KG	-	-	NA	NA	NA	NA	NA
Ethylbenzene	UG/KG	5500	-	2 J	5 U	2 J	7	6 U
Isopropylbenzene (Cumene)	UG/KG	2300	-	NA	NA	NA	NA	NA
Methyl acetate	UG/KG	-	-	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/KG	300	-	NA	NA	NA	NA	NA
Methyl tert-butyl ether	UG/KG	120	-	NA	NA	NA	NA	NA
Methylcyclohexane	UG/KG	-	-	NA	NA	NA	NA	NA
Methylene chloride	UG/KG	100	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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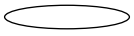
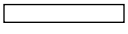


Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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Detection Limits shown are PQL

TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-14	SB-15	SB-16	SB-17	SB-17
Sample ID				SB14 14-15	SB15 12-14	SB16 10-12	SB17 9-11	SB17 12-14
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-15.0	12.0-14.0	10.0-12.0	9.0-11.0	12.0-14.0
Date Sampled				04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
Styrene	UG/KG	-	-	NA	NA	NA	NA	NA
Tetrachloroethene	UG/KG	1400	-	NA	NA	NA	NA	NA
Toluene	UG/KG	1500	-	8	3 J	20	11	4 J
1,1,1-Trichloroethane	UG/KG	800	-	NA	NA	NA	NA	NA
Trichloroethene	UG/KG	700	-	NA	NA	NA	NA	NA
Trichlorofluoromethane	UG/KG	-	-	NA	NA	NA	NA	NA
Vinyl chloride	UG/KG	200	-	NA	NA	NA	NA	NA
Xylene (total)	UG/KG	1200	-	28	16 U	15 J	36	3 J
Total BTEX	UG/KG	-	-	40	3	71	66	11
Total Volatile Organic Compounds	UG/KG	10000	-	40	3	71	66	11
Semivolatile Organic Compounds								
1,1'-Biphenyl	UG/KG	50000	-	NA	NA	NA	NA	NA
2,2'-oxybis(2-Chloropropane)	UG/KG	50000	-	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/KG	100	-	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/KG	50000	-	NA	NA	NA	NA	NA
2,4-Dichlorophenol	UG/KG	400	-	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/KG	50000	-	NA	NA	NA	NA	NA
2,4-Dinitrophenol	UG/KG	200 or MDL	-	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/KG	50000	-	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/KG	1000	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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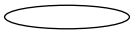
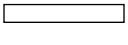

Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

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Detection Limits shown are PQL

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[LOGDATE] < #1/1/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND ([LOCID] LIKE 'SB*' OR [LOCID] LIKE 'TP

TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-14	SB-15	SB-16	SB-17	SB-17
Sample ID				SB14 14-15	SB15 12-14	SB16 10-12	SB17 9-11	SB17 12-14
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-15.0	12.0-14.0	10.0-12.0	9.0-11.0	12.0-14.0
Date Sampled				04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
2-Chloronaphthalene	UG/KG	50000	-	NA	NA	NA	NA	NA
2-Chlorophenol	UG/KG	800	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/KG	36400	-	980 J	250 J	67 J	460 J	460
2-Methylphenol (o-cresol)	UG/KG	100 or MDL	-	NA	NA	NA	NA	NA
2-Nitroaniline	UG/KG	430 or MDL	-	NA	NA	NA	NA	NA
2-Nitrophenol	UG/KG	330 or MDL	-	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	UG/KG	50000	-	NA	NA	NA	NA	NA
3-Nitroaniline	UG/KG	500 or MDL	-	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/KG	50000	-	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/KG	50000	-	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/KG	240 or MDL	-	NA	NA	NA	NA	NA
4-Chloroaniline	UG/KG	220 or MDL	-	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	UG/KG	50000	-	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/KG	900	-	NA	NA	NA	NA	NA
4-Nitroaniline	UG/KG	50000	-	NA	NA	NA	NA	NA
4-Nitrophenol	UG/KG	100 or MDL	-	NA	NA	NA	NA	NA
Acenaphthene	UG/KG	50000	-	2,000 J	140 J	38 J	210 J	160 J
Acenaphthylene	UG/KG	41000	-	5,800	590	440 U	2,000 U	330 J
Acetophenone	UG/KG	50000	-	NA	NA	NA	NA	NA
Anthracene	UG/KG	50000	-	8,800	1,000	440 U	150 J	990

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

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FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-14	SB-15	SB-16	SB-17	SB-17
Sample ID				SB14 14-15	SB15 12-14	SB16 10-12	SB17 9-11	SB17 12-14
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-15.0	12.0-14.0	10.0-12.0	9.0-11.0	12.0-14.0
Date Sampled				04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Atrazine	UG/KG	50000	-	NA	NA	NA	NA	NA
Benzaldehyde	UG/KG	50000	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	UG/KG	224 or MDL	-	31,000	2,300	440 U	200 J	1,000
Benzo(a)pyrene	UG/KG	61 or MDL	-	24,000	1,700	440 U	120 J	730
Benzo(b)fluoranthene	UG/KG	1100	-	27,000	2,700	440 U	160 J	1,100
Benzo(g,h,i)perylene	UG/KG	50000	-	12,000	800	440 U	2,000 U	350
Benzo(k)fluoranthene	UG/KG	1100	-	10,000	2,800	440 U	100 J	1,200
bis(2-Chloroethoxy)methane	UG/KG	50000	-	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/KG	50000	-	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/KG	50000	-	NA	NA	NA	NA	NA
Butylbenzylphthalate	UG/KG	50000	-	NA	NA	NA	NA	NA
Caprolactam	UG/KG	50000	-	NA	NA	NA	NA	NA
Carbazole	UG/KG	50000	-	NA	NA	NA	NA	NA
Chrysene	UG/KG	400	-	22,000	2,200	440 U	150 J	840
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	4,400	310 J	440 U	2,000 U	120 J
Dibenzofuran	UG/KG	6200	-	1,400 J	460	440 U	340 J	560
Diethylphthalate	UG/KG	7100	-	NA	NA	NA	NA	NA
Dimethylphthalate	UG/KG	2000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/KG	8100	-	NA	NA	NA	NA	NA
Di-n-octylphthalate	UG/KG	50000	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-14	SB-15	SB-16	SB-17	SB-17
Sample ID				SB14 14-15	SB15 12-14	SB16 10-12	SB17 9-11	SB17 12-14
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-15.0	12.0-14.0	10.0-12.0	9.0-11.0	12.0-14.0
Date Sampled				04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Fluoranthene	UG/KG	50000	-	54,000	5,400	28 J	400 J	2,400
Fluorene	UG/KG	50000	-	3,500 J	780	440 U	430 J	900
Hexachlorobenzene	UG/KG	410	-	NA	NA	NA	NA	NA
Hexachlorobutadiene	UG/KG	50000	-	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/KG	50000	-	NA	NA	NA	NA	NA
Hexachloroethane	UG/KG	50000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	12,000	840	440 U	2,000 U	350
Isophorone	UG/KG	4400	-	NA	NA	NA	NA	NA
Naphthalene	UG/KG	13000	-	2,500 J	260 J	130 J	370 J	460
Nitrobenzene	UG/KG	200 or MDL	-	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/KG	50000	-	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/KG	50000	-	NA	NA	NA	NA	NA
Pentachlorophenol	UG/KG	1000 or MDL	-	NA	NA	NA	NA	NA
Phenanthrene	UG/KG	50000	-	18,000	4,400	45 J	860 J	3,500
Phenol	UG/KG	30 or MDL	-	NA	NA	NA	NA	NA
Pyrene	UG/KG	50000	-	40,000	4,000	440 U	310 J	1,800
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	277,000	30,220	241	3,460	16,230
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	279,380	30,930	308	4,260	17,250
Metals								
Aluminum	MG/KG	SB	33000	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-14	SB-15	SB-16	SB-17	SB-17
Sample ID				SB14 14-15	SB15 12-14	SB16 10-12	SB17 9-11	SB17 12-14
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-15.0	12.0-14.0	10.0-12.0	9.0-11.0	12.0-14.0
Date Sampled				04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Antimony	MG/KG	SB	-	NA	NA	NA	NA	NA
Arsenic	MG/KG	7.5	12	NA	NA	NA	NA	NA
Barium	MG/KG	300	600	NA	NA	NA	NA	NA
Beryllium	MG/KG	0.16	1.75	NA	NA	NA	NA	NA
Cadmium	MG/KG	1	1	NA	NA	NA	NA	NA
Calcium	MG/KG	SB	35000	NA	NA	NA	NA	NA
Chromium	MG/KG	10	40	NA	NA	NA	NA	NA
Cobalt	MG/KG	30	60	NA	NA	NA	NA	NA
Copper	MG/KG	25	50	NA	NA	NA	NA	NA
Iron	MG/KG	2000	5.50E+05	NA	NA	NA	NA	NA
Lead	MG/KG	SB	500	NA	NA	NA	NA	NA
Magnesium	MG/KG	SB	5000	NA	NA	NA	NA	NA
Manganese	MG/KG	SB	5000	NA	NA	NA	NA	NA
Mercury	MG/KG	0.1	0.2	NA	NA	NA	NA	NA
Nickel	MG/KG	13	25	NA	NA	NA	NA	NA
Potassium	MG/KG	SB	43000	NA	NA	NA	NA	NA
Selenium	MG/KG	2	3.9	NA	NA	NA	NA	NA
Silver	MG/KG	SB	-	NA	NA	NA	NA	NA
Sodium	MG/KG	SB	8000	NA	NA	NA	NA	NA
Thallium	MG/KG	SB	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				SB-14	SB-15	SB-16	SB-17	SB-17
Sample ID				SB14 14-15	SB15 12-14	SB16 10-12	SB17 9-11	SB17 12-14
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-15.0	12.0-14.0	10.0-12.0	9.0-11.0	12.0-14.0
Date Sampled				04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Vanadium	MG/KG	150	300	NA	NA	NA	NA	NA
Zinc	MG/KG	20	50	NA	NA	NA	NA	NA
Miscellaneous Parameters								
Cyanide	MG/KG	-	-	0.98 UJ	1.0 UJ	1.2 UJ	4.0 J	0.97 UJ
Cyanide, Amenable To Chlorination	MG/KG	-	-	NA	NA	NA	NA	NA
Phenolics, Total Recoverable	MG/KG	-	-	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/KG	-	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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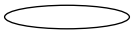
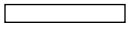


Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				TP-01	TP-01	TP-01	TP-01	TP-02
Sample ID				TP-01-2.5	TP-00-1.0	TP-01-5.0	TP-01-7.5	TP-02-2.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.5-2.5	5.0-5.0	5.0-5.0	7.5-7.5	2.5-2.5
Date Sampled				11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (1-1)			
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	UG/KG	600	-	6 U	6 U	6 U	6 U	6 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	6000	-	6 U	6 U	6 U	6 U	6 U
1,1,2-Trichloroethane	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
1,1-Dichloroethane	UG/KG	200	-	6 U	6 U	6 U	6 U	6 U
1,1-Dichloroethene	UG/KG	400	-	6 U	6 U	6 U	6 U	6 U
1,2,4-Trichlorobenzene	UG/KG	3400	-	6 U	6 U	6 U	6 U	6 U
1,2-Dibromo-3-chloropropane	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
1,2-Dichlorobenzene	UG/KG	7900	-	6 U	6 U	6 U	6 U	6 U
1,2-Dichloroethane	UG/KG	100	-	6 U	6 U	6 U	6 U	6 U
1,2-Dichloroethene (cis)	UG/KG	300	-	6 U	6 U	6 U	6 U	6 U
1,2-Dichloroethene (trans)	UG/KG	300	-	6 U	6 U	6 U	6 U	6 U
1,2-Dichloropropane	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
1,3-Dichlorobenzene	UG/KG	600	-	6 U	6 U	6 U	6 U	6 U
1,3-Dichloropropene (cis)	UG/KG	300	-	6 U	6 U	6 U	6 U	6 U
1,3-Dichloropropene (trans)	UG/KG	300	-	6 U	6 U	6 U	6 U	6 U
1,4-Dichlorobenzene	UG/KG	8500	-	6 U	6 U	6 U	6 U	6 U
2-Hexanone	UG/KG	-	-	28 U	29 U	28 U	29 U	29 U
4-Methyl-2-pentanone	UG/KG	1000	-	28 U	29 U	28 U	29 U	29 U
Acetone	UG/KG	200	-	28 U	29 U	28 U	29 U	29 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				TP-01	TP-01	TP-01	TP-01	TP-02
Sample ID				TP-01-2.5	TP-00-1.0	TP-01-5.0	TP-01-7.5	TP-02-2.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.5-2.5	5.0-5.0	5.0-5.0	7.5-7.5	2.5-2.5
Date Sampled				11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (1-1)			
Volatile Organic Compounds								
Benzene	UG/KG	60	-	6 U	6 U	6 U	6 U	6 U
Bromodichloromethane	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
Bromoform	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
Bromomethane	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
Carbon disulfide	UG/KG	2700	-	6 U	6 U	6 U	6 U	6 U
Carbon tetrachloride	UG/KG	600	-	6 U	6 U	6 U	6 U	6 U
Chlorobenzene	UG/KG	1700	-	6 U	6 U	6 U	6 U	6 U
Chloroethane	UG/KG	1900	-	6 U	6 U	6 U	6 U	6 U
Chloroform	UG/KG	300	-	6 U	6 U	6 U	6 U	6 U
Chloromethane	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
Cyclohexane	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
Dibromochloromethane	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
Dichlorodifluoromethane	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
Ethylbenzene	UG/KG	5500	-	6 U	6 U	6 U	6 U	6 U
Isopropylbenzene (Cumene)	UG/KG	2300	-	6 U	6 U	6 U	6 U	6 U
Methyl acetate	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
Methyl ethyl ketone (2-Butanone)	UG/KG	300	-	28 U	29 U	28 U	29 U	29 U
Methyl tert-butyl ether	UG/KG	120	-	6 U	6 U	6 U	6 U	6 U
Methylcyclohexane	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
Methylene chloride	UG/KG	100	-	6 U	6 U	6 U	6 U	6 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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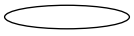
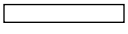

Concentration Exceeds Criteria (1)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[LOGDATE] < #1/1/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND ([LOCID] LIKE 'SB*' OR [LOCID] LIKE 'TP

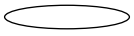
TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

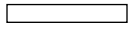
Location ID				TP-01	TP-01	TP-01	TP-01	TP-02
Sample ID				TP-01-2.5	TP-00-1.0	TP-01-5.0	TP-01-7.5	TP-02-2.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.5-2.5	5.0-5.0	5.0-5.0	7.5-7.5	2.5-2.5
Date Sampled				11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		Field Duplicate (1-1)			
Volatile Organic Compounds								
Styrene	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
Tetrachloroethene	UG/KG	1400	-	6 U	6 U	6 U	6 U	6 U
Toluene	UG/KG	1500	-	6 U	2 J	4 J	5 J	6 U
1,1,1-Trichloroethane	UG/KG	800	-	6 U	6 U	6 U	6 U	6 U
Trichloroethene	UG/KG	700	-	6 U	6 U	6 U	6 U	6 U
Trichlorofluoromethane	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
Vinyl chloride	UG/KG	200	-	11 U	12 U	11 U	11 U	12 U
Xylene (total)	UG/KG	1200	-	17 U	17 U	16 U	17 U	17 U
Total BTEX	UG/KG	-	-	ND	2	4	5	ND
Total Volatile Organic Compounds	UG/KG	10000	-	ND	2	4	5	ND
Semivolatile Organic Compounds								
1,1'-Biphenyl	UG/KG	50000	-	380 U	380 U	1,800 U	380 U	1,900 U
2,2'-oxybis(2-Chloropropane)	UG/KG	50000	-	380 U	380 U	1,800 U	380 U	1,900 U
2,4,5-Trichlorophenol	UG/KG	100	-	920 U	930 U	4,400 U	920 U	4,700 U
2,4,6-Trichlorophenol	UG/KG	50000	-	380 U	380 U	1,800 U	380 U	1,900 U
2,4-Dichlorophenol	UG/KG	400	-	380 U	380 U	1,800 U	380 U	1,900 U
2,4-Dimethylphenol	UG/KG	50000	-	380 U	380 U	1,800 U	380 U	1,900 U
2,4-Dinitrophenol	UG/KG	200 or MDL	-	1,800 U	1,900 U	8,700 U	1,800 U	9,300 U
2,4-Dinitrotoluene	UG/KG	50000	-	380 U	380 U	1,800 U	380 U	1,900 U
2,6-Dinitrotoluene	UG/KG	1000	-	380 U	380 U	1,800 U	380 U	1,900 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

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Detection Limits shown are PQL

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[LOGDATE] < #1/1/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND ([LOCID] LIKE 'SB*' OR [LOCID] LIKE 'TP

TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				TP-01	TP-01	TP-01	TP-01	TP-02
Sample ID				TP-01-2.5	TP-00-1.0	TP-01-5.0	TP-01-7.5	TP-02-2.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.5-2.5	5.0-5.0	5.0-5.0	7.5-7.5	2.5-2.5
Date Sampled				11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (1-1)			
Semivolatile Organic Compounds								
2-Chloronaphthalene	UG/KG	50000	-	380 U	380 U	1,800 U	380 U	1,900 U
2-Chlorophenol	UG/KG	800	-	380 U	380 U	1,800 U	380 U	1,900 U
2-Methylnaphthalene	UG/KG	36400	-	23 J	380 U	1,800 U	380 U	1,900 U
2-Methylphenol (o-cresol)	UG/KG	100 or MDL	-	380 U	380 U	1,800 U	380 U	1,900 U
2-Nitroaniline	UG/KG	430 or MDL	-	1,800 U	1,900 U	8,700 U	1,800 U	9,300 U
2-Nitrophenol	UG/KG	330 or MDL	-	380 U	380 U	1,800 U	380 U	1,900 U
3,3'-Dichlorobenzidine	UG/KG	50000	-	380 U	380 U	1,800 U	380 U	1,900 U
3-Nitroaniline	UG/KG	500 or MDL	-	1,800 U	1,900 U	8,700 U	1,800 U	9,300 U
4,6-Dinitro-2-methylphenol	UG/KG	50000	-	1,800 U	1,900 U	8,700 U	1,800 U	9,300 U
4-Bromophenyl-phenylether	UG/KG	50000	-	380 U	380 U	1,800 U	380 U	1,900 U
4-Chloro-3-methylphenol	UG/KG	240 or MDL	-	380 U	380 U	1,800 U	380 U	1,900 U
4-Chloroaniline	UG/KG	220 or MDL	-	380 U	380 U	1,800 U	380 U	1,900 U
4-Chlorophenyl-phenylether	UG/KG	50000	-	380 U	380 U	1,800 U	380 U	1,900 U
4-Methylphenol (p-cresol)	UG/KG	900	-	380 U	380 U	1,800 U	380 U	1,900 U
4-Nitroaniline	UG/KG	50000	-	1,800 U	1,900 U	8,700 U	1,800 U	9,300 U
4-Nitrophenol	UG/KG	100 or MDL	-	1,800 U	1,900 U	8,700 U	1,800 U	9,300 U
Acenaphthene	UG/KG	50000	-	29 J	380 U	1,800 U	380 U	1,900 U
Acenaphthylene	UG/KG	41000	-	240 J	170 J	300 J	380 U	580 J
Acetophenone	UG/KG	50000	-	380 U	380 U	1,800 U	380 U	1,900 U
Anthracene	UG/KG	50000	-	320 J	150 J	300 J	380 U	660 J

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

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TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				TP-01	TP-01	TP-01	TP-01	TP-02
Sample ID				TP-01-2.5	TP-00-1.0	TP-01-5.0	TP-01-7.5	TP-02-2.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.5-2.5	5.0-5.0	5.0-5.0	7.5-7.5	2.5-2.5
Date Sampled				11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (1-1)			
Semivolatile Organic Compounds								
Atrazine	UG/KG	50000	-	380 U	380 U	1,800 U	380 U	1,900 U
Benzaldehyde	UG/KG	50000	-	380 U	380 U	1,800 U	380 U	1,900 U
Benzo(a)anthracene	UG/KG	224 or MDL	-	2,000	1,100	2,200	110 J	5,500
Benzo(a)pyrene	UG/KG	61 or MDL	-	1,900	970	1,700 J	88 J	4,800
Benzo(b)fluoranthene	UG/KG	1100	-	2,400	1,200	2,200	110 J	6,000
Benzo(g,h,i)perylene	UG/KG	50000	-	1,200	630	1,100 J	52 J	2,600
Benzo(k)fluoranthene	UG/KG	1100	-	630	360 J	790 J	33 J	1,800 J
bis(2-Chloroethoxy)methane	UG/KG	50000	-	380 U	380 U	1,800 U	380 U	1,900 U
bis(2-Chloroethyl)ether	UG/KG	50000	-	380 U	380 U	1,800 U	380 U	1,900 U
bis(2-Ethylhexyl)phthalate	UG/KG	50000	-	380 U	380 U	1,800 U	380 U	1,900 U
Butylbenzylphthalate	UG/KG	50000	-	380 U	380 U	1,800 U	380 U	1,900 U
Caprolactam	UG/KG	50000	-	380 U	380 U	1,800 U	380 U	1,900 U
Carbazole	UG/KG	50000	-	130 J	42 J	1,800 U	380 U	220 J
Chrysene	UG/KG	400	-	1,800	990	1,900	94 J	5,200
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	350 J	190 J	270 J	380 U	900 J
Dibenzofuran	UG/KG	6200	-	48 J	380 U	1,800 U	380 U	1,900 U
Diethylphthalate	UG/KG	7100	-	380 U	380 U	1,800 U	380 U	1,900 U
Dimethylphthalate	UG/KG	2000	-	380 U	380 U	1,800 U	380 U	1,900 U
Di-n-butylphthalate	UG/KG	8100	-	380 U	380 U	1,800 U	380 U	1,900 U
Di-n-octylphthalate	UG/KG	50000	-	380 U	380 U	1,800 U	380 U	1,900 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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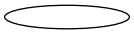
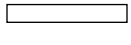

Concentration Exceeds Criteria (1)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FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				TP-01	TP-01	TP-01	TP-01	TP-02
Sample ID				TP-01-2.5	TP-00-1.0	TP-01-5.0	TP-01-7.5	TP-02-2.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.5-2.5	5.0-5.0	5.0-5.0	7.5-7.5	2.5-2.5
Date Sampled				11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		Field Duplicate (1-1)			
Semivolatile Organic Compounds								
Fluoranthene	UG/KG	50000	-	3,600	1,600	3,400	160 J	8,400
Fluorene	UG/KG	50000	-	86 J	31 J	1,800 U	380 U	100 J
Hexachlorobenzene	UG/KG	410	-	380 U	380 U	1,800 U	380 U	1,900 U
Hexachlorobutadiene	UG/KG	50000	-	380 U	380 U	1,800 U	380 U	1,900 U
Hexachlorocyclopentadiene	UG/KG	50000	-	380 U	380 U	1,800 U	380 U	1,900 U
Hexachloroethane	UG/KG	50000	-	380 U	380 U	1,800 U	380 U	1,900 U
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	1,100	560	1,000 J	51 J	2,500
Isophorone	UG/KG	4400	-	380 U	380 U	1,800 U	380 U	1,900 U
Naphthalene	UG/KG	13000	-	85 J	50 J	1,800 U	380 U	1,900 U
Nitrobenzene	UG/KG	200 or MDL	-	380 U	380 U	1,800 U	380 U	1,900 U
N-Nitroso-di-n-propylamine	UG/KG	50000	-	380 U	380 U	1,800 U	380 U	1,900 U
N-Nitrosodiphenylamine	UG/KG	50000	-	380 U	380 U	1,800 U	380 U	1,900 U
Pentachlorophenol	UG/KG	1000 or MDL	-	1,800 U	1,900 U	8,700 U	1,800 U	9,300 U
Phenanthrene	UG/KG	50000	-	1,200	410	1,000 J	380 U	2,200
Phenol	UG/KG	30 or MDL	-	380 U	380 U	1,800 U	380 U	1,900 U
Pyrene	UG/KG	50000	-	3,100	1,400	2,900	150 J	7,100
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	20,040	9,811	19,060	848	48,340
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	20,241	9,853	19,060	848	48,560
Metals								
Aluminum	MG/KG	SB	33000	12,500 J	10,400 J	11,700 J	13,200 J	9,740 J

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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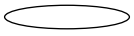
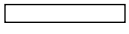


Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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NYSEG - CORTLAND, NEW YORK

Location ID				TP-01	TP-01	TP-01	TP-01	TP-02
Sample ID				TP-01-2.5	TP-00-1.0	TP-01-5.0	TP-01-7.5	TP-02-2.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.5-2.5	5.0-5.0	5.0-5.0	7.5-7.5	2.5-2.5
Date Sampled				11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (1-1)			
Metals								
Antimony	MG/KG	SB	-	16.0 UJ	17.8 UJ	14.5 UJ	15.9 UJ	15.9 UJ
Arsenic	MG/KG	7.5	12	6.9	4.4	5.2	6.2	5.8
Barium	MG/KG	300	600	75.8 J	55.3 J	59.0 J	59.0 J	56.3 J
Beryllium	MG/KG	0.16	1.75	0.50	0.41	0.46	0.51	0.41
Cadmium	MG/KG	1	1	0.42	0.26	0.26	0.53	0.32
Calcium	MG/KG	SB	35000	2,900 J	2,390 J	2,700 J	1,940 J	9,690 J
Chromium	MG/KG	10	40	15.3	12.1	13.3	13.8	12.4
Cobalt	MG/KG	30	60	9.5	7.5	9.0	9.2	7.4
Copper	MG/KG	25	50	24.5	24.0	19.3	20.3	20.4
Iron	MG/KG	2000	5.50E+05	23,200 J	21,400 J	22,100 J	24,500 J	18,800 J
Lead	MG/KG	SB	500	74.6 J	32.1 J	30.2 J	34.3 J	43.0 J
Magnesium	MG/KG	SB	5000	3,640 J	3,310 J	3,710 J	3,440 J	4,260 J
Manganese	MG/KG	SB	5000	961 J	688 J	880 J	1,050 J	697 J
Mercury	MG/KG	0.1	0.2	0.157	0.048	0.053	0.051	0.125
Nickel	MG/KG	13	25	20.8	17.9	20.2	21.6	18.2
Potassium	MG/KG	SB	43000	880	650	771	713	619
Selenium	MG/KG	2	3.9	4.3 U	4.7 U	3.9 U	4.2 U	4.2 U
Silver	MG/KG	SB	-	0.53 U	0.59 U	0.48 U	0.53 U	0.53 U
Sodium	MG/KG	SB	8000	149 U	166 U	135 U	148 U	149 U
Thallium	MG/KG	SB	-	6.4 U	7.1 U	5.8 U	6.3 U	6.4 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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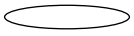
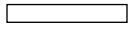

Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

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FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				TP-01	TP-01	TP-01	TP-01	TP-02
Sample ID				TP-01-2.5	TP-00-1.0	TP-01-5.0	TP-01-7.5	TP-02-2.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.5-2.5	5.0-5.0	5.0-5.0	7.5-7.5	2.5-2.5
Date Sampled				11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		Field Duplicate (1-1)			
Metals								
Vanadium	MG/KG	150	300	19.9	14.0	16.7	19.1	13.7
Zinc	MG/KG	20	50	130 J	74.1 J	75.5 J	164 J	101 J
Miscellaneous Parameters								
Cyanide	MG/KG	-	-	1.1 U	1.2 U	1.0 U	1.2 U	1.0 U
Cyanide, Amenable To Chlorination	MG/KG	-	-	1.1 U	1.1 U	1.1 U	1.0 U	1.0 U
Phenolics, Total Recoverable	MG/KG	-	-	5.5 U	6.0 U	5.4 U	5.6 U	5.7 U
Total Organic Carbon (TOC)	MG/KG	-	-	NA	12,000	8,700	NA	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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Concentration Exceeds Criteria (2)

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J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.
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UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

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[LOGDATE] < #1/1/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND ([LOCID] LIKE 'SB*' OR [LOCID] LIKE 'TP

TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				TP-02	TP-02	TP-03	TP-03	TP-03
Sample ID				TP-02-5.5	TP-02-7.0	TP-03-2.5	TP-03-5.5	TP-03-10.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				5.5-5.5	7.0-7.0	2.5-2.5	5.5-5.5	10.5-10.5
Date Sampled				11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
1,1,2,2-Tetrachloroethane	UG/KG	600	-	6 U	6 U	6 U	6 U	6 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	6000	-	6 U	6 U	6 U	6 U	6 U
1,1,2-Trichloroethane	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
1,1-Dichloroethane	UG/KG	200	-	6 U	6 U	6 U	6 U	6 U
1,1-Dichloroethene	UG/KG	400	-	6 U	6 U	6 U	6 U	6 U
1,2,4-Trichlorobenzene	UG/KG	3400	-	6 U	6 U	6 U	6 U	6 U
1,2-Dibromo-3-chloropropane	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
1,2-Dichlorobenzene	UG/KG	7900	-	6 U	6 U	6 U	6 U	6 U
1,2-Dichloroethane	UG/KG	100	-	6 U	6 U	6 U	6 U	6 U
1,2-Dichloroethene (cis)	UG/KG	300	-	6 U	6 U	6 U	6 U	6 U
1,2-Dichloroethene (trans)	UG/KG	300	-	6 U	6 U	6 U	6 U	6 U
1,2-Dichloropropane	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
1,3-Dichlorobenzene	UG/KG	600	-	6 U	6 U	6 U	6 U	6 U
1,3-Dichloropropene (cis)	UG/KG	300	-	6 U	6 U	6 U	6 U	6 U
1,3-Dichloropropene (trans)	UG/KG	300	-	6 U	6 U	6 U	6 U	6 U
1,4-Dichlorobenzene	UG/KG	8500	-	6 U	6 U	6 U	6 U	6 U
2-Hexanone	UG/KG	-	-	28 U	32 U	29 U	28 U	33 U
4-Methyl-2-pentanone	UG/KG	1000	-	28 U	32 U	29 U	28 U	33 U
Acetone	UG/KG	200	-	28 U	32 U	29 U	28 U	33 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

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NYSEG - CORTLAND, NEW YORK

Location ID				TP-02	TP-02	TP-03	TP-03	TP-03
Sample ID				TP-02-5.5	TP-02-7.0	TP-03-2.5	TP-03-5.5	TP-03-10.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				5.5-5.5	7.0-7.0	2.5-2.5	5.5-5.5	10.5-10.5
Date Sampled				11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
Benzene	UG/KG	60	-	6 U	6 U	6 U	6 U	6 U
Bromodichloromethane	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
Bromoform	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
Bromomethane	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
Carbon disulfide	UG/KG	2700	-	6 U	6 U	6 U	6 U	6 U
Carbon tetrachloride	UG/KG	600	-	6 U	6 U	6 U	6 U	6 U
Chlorobenzene	UG/KG	1700	-	6 U	6 U	6 U	6 U	6 U
Chloroethane	UG/KG	1900	-	6 U	6 U	6 U	6 U	6 U
Chloroform	UG/KG	300	-	6 U	6 U	6 U	6 U	6 U
Chloromethane	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
Cyclohexane	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
Dibromochloromethane	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
Dichlorodifluoromethane	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
Ethylbenzene	UG/KG	5500	-	6 U	6 U	6 U	6 U	6 U
Isopropylbenzene (Cumene)	UG/KG	2300	-	6 U	6 U	6 U	6 U	6 U
Methyl acetate	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
Methyl ethyl ketone (2-Butanone)	UG/KG	300	-	28 U	32 U	29 U	28 U	33 U
Methyl tert-butyl ether	UG/KG	120	-	6 U	6 U	6 U	6 U	6 U
Methylcyclohexane	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
Methylene chloride	UG/KG	100	-	6 U	6 U	6 U	6 U	6 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				TP-02	TP-02	TP-03	TP-03	TP-03
Sample ID				TP-02-5.5	TP-02-7.0	TP-03-2.5	TP-03-5.5	TP-03-10.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				5.5-5.5	7.0-7.0	2.5-2.5	5.5-5.5	10.5-10.5
Date Sampled				11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
Styrene	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
Tetrachloroethene	UG/KG	1400	-	6 U	6 U	6 U	6 U	6 U
Toluene	UG/KG	1500	-	2 J	3 J	6 U	6	6 U
1,1,1-Trichloroethane	UG/KG	800	-	6 U	6 U	6 U	6 U	6 U
Trichloroethene	UG/KG	700	-	6 U	6 U	6 U	6 U	6 U
Trichlorofluoromethane	UG/KG	-	-	6 U	6 U	6 U	6 U	6 U
Vinyl chloride	UG/KG	200	-	11 U	13 U	12 U	11 U	13 U
Xylene (total)	UG/KG	1200	-	17 U	20 U	18 U	17 U	20 U
Total BTEX	UG/KG	-	-	2	3	ND	6	ND
Total Volatile Organic Compounds	UG/KG	10000	-	2	3	ND	6	ND
Semivolatile Organic Compounds								
1,1'-Biphenyl	UG/KG	50000	-	380 U	430 U	400 U	1,900 U	2,200 U
2,2'-oxybis(2-Chloropropane)	UG/KG	50000	-	380 U	430 U	400 U	1,900 U	2,200 U
2,4,5-Trichlorophenol	UG/KG	100	-	930 U	1,000 U	960 U	4,600 U	5,400 U
2,4,6-Trichlorophenol	UG/KG	50000	-	380 U	430 U	400 U	1,900 U	2,200 U
2,4-Dichlorophenol	UG/KG	400	-	380 U	430 U	400 U	1,900 U	2,200 U
2,4-Dimethylphenol	UG/KG	50000	-	380 U	430 U	400 U	1,900 U	2,200 U
2,4-Dinitrophenol	UG/KG	200 or MDL	-	1,900 U	2,100 U	1,900 U	9,100 U	11,000 U
2,4-Dinitrotoluene	UG/KG	50000	-	380 U	430 U	400 U	1,900 U	2,200 U
2,6-Dinitrotoluene	UG/KG	1000	-	380 U	430 U	400 U	1,900 U	2,200 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

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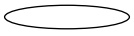
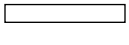

Concentration Exceeds Criteria (1)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NYSEG - CORTLAND, NEW YORK

Location ID				TP-02	TP-02	TP-03	TP-03	TP-03
Sample ID				TP-02-5.5	TP-02-7.0	TP-03-2.5	TP-03-5.5	TP-03-10.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				5.5-5.5	7.0-7.0	2.5-2.5	5.5-5.5	10.5-10.5
Date Sampled				11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
2-Chloronaphthalene	UG/KG	50000	-	380 U	430 U	400 U	1,900 U	2,200 U
2-Chlorophenol	UG/KG	800	-	380 U	430 U	400 U	1,900 U	2,200 U
2-Methylnaphthalene	UG/KG	36400	-	380 U	430 U	33 J	180 J	1,100 J
2-Methylphenol (o-cresol)	UG/KG	100 or MDL	-	380 U	430 U	400 U	1,900 U	2,200 U
2-Nitroaniline	UG/KG	430 or MDL	-	1,900 U	2,100 U	1,900 U	9,100 U	11,000 U
2-Nitrophenol	UG/KG	330 or MDL	-	380 U	430 U	400 U	1,900 U	2,200 U
3,3'-Dichlorobenzidine	UG/KG	50000	-	380 U	430 U	400 U	1,900 U	2,200 U
3-Nitroaniline	UG/KG	500 or MDL	-	1,900 U	2,100 U	1,900 U	9,100 U	11,000 U
4,6-Dinitro-2-methylphenol	UG/KG	50000	-	1,900 U	2,100 U	1,900 U	9,100 U	11,000 U
4-Bromophenyl-phenylether	UG/KG	50000	-	380 U	430 U	400 U	1,900 U	2,200 U
4-Chloro-3-methylphenol	UG/KG	240 or MDL	-	380 U	430 U	400 U	1,900 U	2,200 U
4-Chloroaniline	UG/KG	220 or MDL	-	380 U	430 U	400 U	1,900 U	2,200 U
4-Chlorophenyl-phenylether	UG/KG	50000	-	380 U	430 U	400 U	1,900 U	2,200 U
4-Methylphenol (p-cresol)	UG/KG	900	-	380 U	430 U	400 U	1,900 U	2,200 U
4-Nitroaniline	UG/KG	50000	-	1,900 U	2,100 U	1,900 U	9,100 U	11,000 U
4-Nitrophenol	UG/KG	100 or MDL	-	1,900 U	2,100 U	1,900 U	9,100 U	11,000 U
Acenaphthene	UG/KG	50000	-	380 U	430 U	46 J	230 J	1,100 J
Acenaphthylene	UG/KG	41000	-	380 U	430 U	210 J	620 J	3,200
Acetophenone	UG/KG	50000	-	380 U	430 U	400 U	1,900 U	2,200 U
Anthracene	UG/KG	50000	-	380 U	23 J	340 J	750 J	7,400

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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NYSEG - CORTLAND, NEW YORK

Location ID				TP-02	TP-02	TP-03	TP-03	TP-03
Sample ID				TP-02-5.5	TP-02-7.0	TP-03-2.5	TP-03-5.5	TP-03-10.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				5.5-5.5	7.0-7.0	2.5-2.5	5.5-5.5	10.5-10.5
Date Sampled				11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Atrazine	UG/KG	50000	-	380 U	430 U	400 U	1,900 U	2,200 U
Benzaldehyde	UG/KG	50000	-	380 U	430 U	400 U	1,900 U	2,200 U
Benzo(a)anthracene	UG/KG	224 or MDL	-	140 J	190 J	1,800	3,900	12,000
Benzo(a)pyrene	UG/KG	61 or MDL	-	120 J	150 J	1,500	3,700	8,900
Benzo(b)fluoranthene	UG/KG	1100	-	200 J	170 J	1,800	4,400	10,000
Benzo(g,h,i)perylene	UG/KG	50000	-	73 J	30 J	790	2,400	4,900
Benzo(k)fluoranthene	UG/KG	1100	-	190 J	65 J	650	1,600 J	3,600
bis(2-Chloroethoxy)methane	UG/KG	50000	-	380 U	430 U	400 U	1,900 U	2,200 U
bis(2-Chloroethyl)ether	UG/KG	50000	-	380 U	430 U	400 U	1,900 U	2,200 U
bis(2-Ethylhexyl)phthalate	UG/KG	50000	-	380 U	430 U	94 J	1,900 U	2,200 U
Butylbenzylphthalate	UG/KG	50000	-	380 U	430 U	400 U	1,900 U	2,200 U
Caprolactam	UG/KG	50000	-	380 U	430 U	400 U	1,900 U	2,200 U
Carbazole	UG/KG	50000	-	380 U	430 U	160 J	750 J	2,000 J
Chrysene	UG/KG	400	-	120 J	140 J	1,600	3,800	10,000
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	22 J	29 J	270 J	620 J	1,300 J
Dibenzofuran	UG/KG	6200	-	380 U	430 U	75 J	320 J	3,000
Diethylphthalate	UG/KG	7100	-	380 U	430 U	400 U	1,900 U	2,200 U
Dimethylphthalate	UG/KG	2000	-	380 U	430 U	400 U	1,900 U	2,200 U
Di-n-butylphthalate	UG/KG	8100	-	380 U	430 U	400 U	1,900 U	2,200 U
Di-n-octylphthalate	UG/KG	50000	-	380 U	430 U	400 U	1,900 U	2,200 U

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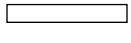
Concentration Exceeds Criteria (1)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Location ID				TP-02	TP-02	TP-03	TP-03	TP-03
Sample ID				TP-02-5.5	TP-02-7.0	TP-03-2.5	TP-03-5.5	TP-03-10.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				5.5-5.5	7.0-7.0	2.5-2.5	5.5-5.5	10.5-10.5
Date Sampled				11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Semivolatile Organic Compounds								
Fluoranthene	UG/KG	50000	-	190 J	260 J	3,500	8,500	29,000
Fluorene	UG/KG	50000	-	380 U	430 U	120 J	340 J	4,900
Hexachlorobenzene	UG/KG	410	-	380 U	430 U	400 U	1,900 U	2,200 U
Hexachlorobutadiene	UG/KG	50000	-	380 U	430 U	400 U	1,900 U	2,200 U
Hexachlorocyclopentadiene	UG/KG	50000	-	380 U	430 U	400 U	1,900 U	2,200 U
Hexachloroethane	UG/KG	50000	-	380 U	430 U	400 U	1,900 U	2,200 U
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	68 J	78 J	800	2,200	4,500
Isophorone	UG/KG	4400	-	380 U	430 U	400 U	1,900 U	2,200 U
Naphthalene	UG/KG	13000	-	380 U	430 U	72 J	620 J	1,100 J
Nitrobenzene	UG/KG	200 or MDL	-	380 U	430 U	400 U	1,900 U	2,200 U
N-Nitroso-di-n-propylamine	UG/KG	50000	-	380 U	430 U	400 U	1,900 U	2,200 U
N-Nitrosodiphenylamine	UG/KG	50000	-	380 U	430 U	400 U	1,900 U	2,200 U
Pentachlorophenol	UG/KG	1000 or MDL	-	1,900 U	2,100 U	1,900 U	9,100 U	11,000 U
Phenanthrene	UG/KG	50000	-	46 J	51 J	1,500	5,300	27,000
Phenol	UG/KG	30 or MDL	-	380 U	430 U	400 U	1,900 U	2,200 U
Pyrene	UG/KG	50000	-	180 J	230 J	2,900	7,400	22,000
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	1,349	1,416	17,898	46,380	150,900
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	1,349	1,416	18,260	47,630	157,000
Metals								
Aluminum	MG/KG	SB	33000	15,200 J	14,200 J	11,100 J	10,900 J	5,990 J

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

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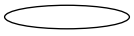
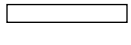

Concentration Exceeds Criteria (1)


Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value.
J - The reported concentration is an estimated value. D - The result was reported from a secondary dilution analysis.
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UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Detection Limits shown are PQL

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[LOGDATE] < #1/1/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND ([LOCID] LIKE 'SB*' OR [LOCID] LIKE 'TP

TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				TP-02	TP-02	TP-03	TP-03	TP-03
Sample ID				TP-02-5.5	TP-02-7.0	TP-03-2.5	TP-03-5.5	TP-03-10.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				5.5-5.5	7.0-7.0	2.5-2.5	5.5-5.5	10.5-10.5
Date Sampled				11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Antimony	MG/KG	SB	-	15.6 UJ	17.6 UJ	15.0 UJ	15.5 UJ	17.7 UJ
Arsenic	MG/KG	7.5	12	5.2	4.6	5.6	7.2	10.6
Barium	MG/KG	300	600	31.5 J	70.7 J	84.4 J	76.1 J	62.6 J
Beryllium	MG/KG	0.16	1.75	0.54	0.50	0.44	0.48	0.53
Cadmium	MG/KG	1	1	0.28	0.23 U	0.30	0.25	1.6
Calcium	MG/KG	SB	35000	1,160 J	3,310 J	2,640 J	4,760 J	3,440 J
Chromium	MG/KG	10	40	15.8	14.3	13.2	13.2	8.8
Cobalt	MG/KG	30	60	10.6	9.9	7.5	8.1	6.0
Copper	MG/KG	25	50	19.0	14.0	19.9	24.6	37.5
Iron	MG/KG	2000	5.50E+05	24,400 J	24,700 J	18,900 J	19,500 J	19,700 J
Lead	MG/KG	SB	500	13.1 J	18.0 J	84.3 J	150 J	598 J
Magnesium	MG/KG	SB	5000	4,180 J	3,960 J	3,040 J	3,330 J	1,250 J
Manganese	MG/KG	SB	5000	549 J	1,040 J	571 J	744 J	470 J
Mercury	MG/KG	0.1	0.2	0.047	0.022	0.097	0.058	0.363
Nickel	MG/KG	13	25	27.7	18.9	18.0	18.0	11.9
Potassium	MG/KG	SB	43000	622	726	696	702	393
Selenium	MG/KG	2	3.9	4.2 U	4.7 U	4.0 U	4.1 U	4.7 U
Silver	MG/KG	SB	-	0.52 U	0.59 U	0.50 U	0.52 U	0.59 U
Sodium	MG/KG	SB	8000	146 U	164 U	140 U	145 U	165 U
Thallium	MG/KG	SB	-	6.3 U	7.0 U	6.0 U	6.2 U	7.1 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value.
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UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

Detection Limits shown are PQL

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[LOGDATE] < #1/1/2008# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND ([LOCID] LIKE 'SB*' OR [LOCID] LIKE 'TP

TABLE 2
VALIDATED SUBSURFACE SOIL ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID				TP-02	TP-02	TP-03	TP-03	TP-03
Sample ID				TP-02-5.5	TP-02-7.0	TP-03-2.5	TP-03-5.5	TP-03-10.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				5.5-5.5	7.0-7.0	2.5-2.5	5.5-5.5	10.5-10.5
Date Sampled				11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Vanadium	MG/KG	150	300	16.0	20.3	16.5	21.5	16.0
Zinc	MG/KG	20	50	67.5 J	71.5 J	89.5 J	104 J	407 J
Miscellaneous Parameters								
Cyanide	MG/KG	-	-	1.0 U	1.3 U	1.2 U	0.98 U	1.3 U
Cyanide, Amenable To Chlorination	MG/KG	-	-	1.1 U	1.1 U	1.0 U	1.2 U	1.3 U
Phenolics, Total Recoverable	MG/KG	-	-	5.8 U	7.3 U	5.0 U	5.6 U	6.7 U
Total Organic Carbon (TOC)	MG/KG	-	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit. UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value.
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Detection Limits shown are PQL

TABLE 3
VALIDATED GROUNDWATER ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			PZ-01	PZ-02	PZ-02	PZ-03	PZ-04
Sample ID			PZ-01	DUP-11-16-05	PZ-02	PZ-03	PZ-04
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/16/05	11/16/05	11/16/05	11/16/05	11/16/05
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
1,1,2,2-Tetrachloroethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	0.006	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	UG/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. J - The reported concentration is an estimated value.

B - The reported concentration is above the method detection limit but below the quantitation limit (used for metals only).

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/L - Micrograms per liter. MG/L - Milligrams per liter.

Detection Limits shown are PQL

TABLE 3
VALIDATED GROUNDWATER ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			PZ-01	PZ-02	PZ-02	PZ-03	PZ-04
Sample ID			PZ-01	DUP-11-16-05	PZ-02	PZ-03	PZ-04
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/16/05	11/16/05	11/16/05	11/16/05	11/16/05
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
Bromoform	UG/L	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	UG/L	60	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. J - The reported concentration is an estimated value.

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TABLE 3
VALIDATED GROUNDWATER ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			PZ-01	PZ-02	PZ-02	PZ-03	PZ-04
Sample ID			PZ-01	DUP-11-16-05	PZ-02	PZ-03	PZ-04
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/16/05	11/16/05	11/16/05	11/16/05	11/16/05
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
Trichloroethene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	UG/L	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	UG/L	5	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Total BTEX	UG/L	-	ND	ND	ND	ND	ND
Total Volatile Organic Compounds	UG/L	-	ND	ND	ND	ND	ND
Semivolatile Organic Compounds							
1,1'-Biphenyl	UG/L	-	10 U	9 U	9 U	10 U	10 U
2,2'-oxybis(2-Chloropropane)	UG/L	-	10 U	9 U	9 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	1	10 U	9 U	9 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	1	10 U	9 U	9 U	10 U	10 U
2,4-Dichlorophenol	UG/L	5	10 U	9 U	9 U	10 U	10 U
2,4-Dimethylphenol	UG/L	50	10 U	9 U	9 U	10 U	10 U
2,4-Dinitrophenol	UG/L	10	48 U	47 U	47 U	50 U	48 U
2,4-Dinitrotoluene	UG/L	5	10 U	9 U	9 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	5	10 U	9 U	9 U	10 U	10 U
2-Chloronaphthalene	UG/L	10	10 U	9 U	9 U	10 U	10 U
2-Chlorophenol	UG/L	1	10 U	9 U	9 U	10 U	10 U
2-Methylnaphthalene	UG/L	-	10 U	9 U	9 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	1	10 U	9 U	9 U	10 U	10 U
2-Nitroaniline	UG/L	5	48 U	47 U	47 U	50 U	48 U
2-Nitrophenol	UG/L	1	10 U	9 U	9 U	10 U	10 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

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Detection Limits shown are PQL

TABLE 3
VALIDATED GROUNDWATER ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			PZ-01	PZ-02	PZ-02	PZ-03	PZ-04
Sample ID			PZ-01	DUP-11-16-05	PZ-02	PZ-03	PZ-04
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/16/05	11/16/05	11/16/05	11/16/05	11/16/05
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Semivolatile Organic Compounds							
3,3'-Dichlorobenzidine	UG/L	5	19 U	19 U	19 U	20 U	19 U
3-Nitroaniline	UG/L	5	48 U	47 U	47 U	50 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	1	48 U	47 U	47 U	50 U	48 U
4-Bromophenyl-phenylether	UG/L	50	10 U	9 U	9 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	1	10 U	9 U	9 U	10 U	10 U
4-Chloroaniline	UG/L	5	10 U	9 U	9 U	10 U	10 U
4-Chlorophenyl-phenylether	UG/L	50	10 U	9 U	9 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	1	10 U	9 U	9 U	10 U	10 U
4-Nitroaniline	UG/L	5	48 U	47 U	47 U	50 U	48 U
4-Nitrophenol	UG/L	1	48 U	47 U	47 U	50 U	48 U
Acenaphthene	UG/L	20	10 U	9 U	9 U	10 U	10 U
Acenaphthylene	UG/L	50	10 U	9 U	9 U	10 U	10 U
Acetophenone	UG/L	-	10 U	9 U	9 U	10 U	10 U
Anthracene	UG/L	50	10 U	9 U	9 U	10 U	10 U
Atrazine	UG/L	-	10 U	9 U	9 U	10 U	10 U
Benzaldehyde	UG/L	-	48 U	47 U	47 U	50 U	48 U
Benzo(a)anthracene	UG/L	0.002	10 U	9 U	9 U	10 U	10 U
Benzo(a)pyrene	UG/L	ND	10 U	9 U	9 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	0.002	10 U	9 U	9 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	50	10 U	9 U	9 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	0.002	10 U	9 U	9 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	5	10 U	9 U	9 U	10 U	10 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

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VALIDATED GROUNDWATER ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			PZ-01	PZ-02	PZ-02	PZ-03	PZ-04
Sample ID			PZ-01	DUP-11-16-05	PZ-02	PZ-03	PZ-04
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/16/05	11/16/05	11/16/05	11/16/05	11/16/05
Parameter	**Units**	**Criteria***		Field Duplicate (1-1)			
Semivolatile Organic Compounds							
bis(2-Chloroethyl)ether	UG/L	1	10 U	9 U	9 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	5	10 U	9 U	9 U	10 U	10 U
Butylbenzylphthalate	UG/L	50	10 U	9 U	9 U	10 U	10 U
Caprolactam	UG/L	-	10 U	9 U	9 U	10 U	10 U
Carbazole	UG/L	50	10 U	9 U	9 U	10 U	10 U
Chrysene	UG/L	0.002	10 U	9 U	9 U	10 U	10 U
Dibenzo(a,h)anthracene	UG/L	50	10 U	9 U	9 U	10 U	10 U
Dibenzofuran	UG/L	50	10 U	9 U	9 U	10 U	10 U
Diethylphthalate	UG/L	50	10 U	9 U	9 U	10 U	10 U
Dimethylphthalate	UG/L	50	10 U	9 U	9 U	10 U	10 U
Di-n-butylphthalate	UG/L	50	10 U	9 U	23 U	10 U	10 U
Di-n-octylphthalate	UG/L	50	10 U	9 U	9 U	10 U	10 U
Fluoranthene	UG/L	50	10 U	9 U	9 U	10 U	10 U
Fluorene	UG/L	50	10 U	9 U	9 U	10 U	10 U
Hexachlorobenzene	UG/L	0.04	10 U	9 U	9 U	10 U	10 U
Hexachlorobutadiene	UG/L	0.5	10 U	9 U	9 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	5	43 U	43 U	42 U	45 U	43 U
Hexachloroethane	UG/L	5	10 U	9 U	9 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	0.002	10 U	9 U	9 U	10 U	10 U
Isophorone	UG/L	50	10 U	9 U	9 U	10 U	10 U
Naphthalene	UG/L	10	10 U	9 U	9 U	10 U	10 U
Nitrobenzene	UG/L	0.4	10 U	9 U	9 U	10 U	10 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. J - The reported concentration is an estimated value.

B - The reported concentration is above the method detection limit but below the quantitation limit (used for metals only).

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/L - Micrograms per liter. MG/L - Milligrams per liter.

Detection Limits shown are PQL

TABLE 3
VALIDATED GROUNDWATER ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			PZ-01	PZ-02	PZ-02	PZ-03	PZ-04
Sample ID			PZ-01	DUP-11-16-05	PZ-02	PZ-03	PZ-04
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/16/05	11/16/05	11/16/05	11/16/05	11/16/05
Parameter	**Units**	**Criteria***		Field Duplicate (1-1)			
Semivolatile Organic Compounds							
N-Nitroso-di-n-propylamine	UG/L	50	10 U	9 U	9 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	50	10 U	9 U	9 U	10 U	10 U
Pentachlorophenol	UG/L	1	48 U	47 U	47 U	50 U	48 U
Phenanthrene	UG/L	50	10 U	9 U	9 U	10 U	10 U
Phenol	UG/L	1	10 U	9 U	9 U	10 U	10 U
Pyrene	UG/L	50	10 U	9 U	9 U	10 U	10 U
Total Polycyclic Aromatic Hydrocarbons	UG/L	-	ND	ND	ND	ND	ND
Total Semivolatile Organic Compounds	UG/L	-	ND	ND	ND	ND	ND
Metals							
Aluminum	UG/L	-	20.9 B	200 U	200 U	1,600	434
Antimony	UG/L	3	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Arsenic	UG/L	25	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Barium	UG/L	1000	49.6	50.0	50.7	61.6	53.0
Beryllium	UG/L	3	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Cadmium	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	-	83,400	86,800	87,500	87,200	87,400
Chromium	UG/L	50	0.92 B	4.0 U	4.0 U	2.8 B	1.1 B
Cobalt	UG/L	-	4.0 U	4.0 U	4.0 U	0.59 B	4.0 U
Copper	UG/L	200	0.78 B	1.7 B	1.6 B	2.7 B	1.7 B
Iron	UG/L	300	30.8 B	50.0 U	50.0 U	1,200	324
Lead	UG/L	25	5.0 U	5.0 U	5.0 U	2.0 B	5.0 U
Magnesium	UG/L	35000	15,700	16,000	16,100	16,700	16,500

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. J - The reported concentration is an estimated value.

B - The reported concentration is above the method detection limit but below the quantitation limit (used for metals only).

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/L - Micrograms per liter. MG/L - Milligrams per liter.

Detection Limits shown are PQL

TABLE 3
VALIDATED GROUNDWATER ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID			PZ-01	PZ-02	PZ-02	PZ-03	PZ-04
Sample ID			PZ-01	DUP-11-16-05	PZ-02	PZ-03	PZ-04
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/16/05	11/16/05	11/16/05	11/16/05	11/16/05
Parameter	**Units**	**Criteria***		Field Duplicate (1-1)			
Metals							
Manganese	UG/L	300	2.3 B	0.95 B	1.3 B	22.6	8.0
Mercury	UG/L	0.7	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	UG/L	100	10.0 U	10.0 U	10.0 U	1.6 B	10.0 U
Potassium	UG/L	-	1,550	1,840	1,880	2,240	1,900
Selenium	UG/L	10	15.0 U	15.0 U	15.0 U	15.0 U	15.0 U
Silver	UG/L	50	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Sodium	UG/L	20000	56,500	67,900	68,500	61,500	64,600
Thallium	UG/L	0.5	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Vanadium	UG/L	-	5.0 U	5.0 U	5.0 U	2.9 B	0.56 B
Zinc	UG/L	2000	1.3 B	1.1 B	1.3 B	6.3 B	2.1 B
Dissolved Metals							
Iron	UG/L	300	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
Miscellaneous Parameters							
Cyanide	MG/L	0.2	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Cyanide, Amenable To Chlorination	MG/L	0.2	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Phenolics, Total Recoverable	MG/L	-	R	R	R	R	R

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. J - The reported concentration is an estimated value.

B - The reported concentration is above the method detection limit but below the quantitation limit (used for metals only).

NA - Not Analyzed ND - Not detected (used for total VOC and SVOC concentrations only, where applicable).

UG/L - Micrograms per liter. MG/L - Milligrams per liter.

Detection Limits shown are PQL

TABLE 4
VALIDATED AIR AND SOIL VAPOR ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-001	H-001	H-001	H-001
Sample ID		H-001-IA-1	H-001-IA-B-1	H-001-IA-B-1-DUP	H-001-IA-B-2	H-001-SS-1
Matrix		Indoor Air	Indoor Air	Indoor Air	Indoor Air	Sub-Slab Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/14/06	11/14/06	11/14/06	11/14/06	11/14/06
Parameter	Units		(2-2)	Field Duplicate (2-2)	(2-2)	
Volatile Organic Compounds						
1,1,2,2-Tetrachloroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	14 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.41 J	0.47 J	0.49 J	0.45 J	15 U
1,1,2-Trichloroethane	UG/M3	1.1 U	1.1 U	1.1 U	1.1 U	11 U
1,1-Dichloroethane	UG/M3	0.81 U	0.81 U	0.81 U	0.81 U	8.1 U
1,1-Dichloroethene	UG/M3	0.79 U	0.79 U	0.79 U	0.79 U	7.9 U
1,2,4-Trichlorobenzene	UG/M3	7.4 U	7.4 U	7.4 U	7.4 U	74 U
1,2,4-Trimethylbenzene	UG/M3	2.0	1.4	1.3	1.0	9.8 U
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	1.5 U	1.5 U	1.5 U	1.5 U	15 U
1,2-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	12 U
1,2-Dichloroethane	UG/M3	0.81 U	0.81 U	0.81 U	0.81 U	8.1 U
1,2-Dichloroethene (cis)	UG/M3	0.79 U	0.79 U	0.79 U	0.79 U	7.9 U
1,2-Dichloroethene (trans)	UG/M3	0.79 U	0.79 U	0.79 U	0.79 U	7.9 U
1,2-Dichloropropane	UG/M3	0.92 U	0.92 U	0.92 U	0.92 U	9.2 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	14 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.55 J	0.46 J	0.37 J	0.34 J	9.8 U
1,3-Butadiene	UG/M3	0.88 U	0.88 U	0.88 U	0.88 U	8.8 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	12 U
1,3-Dichloropropene (cis)	UG/M3	0.91 U	0.91 U	0.91 U	0.91 U	9.1 U
1,3-Dichloropropene (trans)	UG/M3	0.91 U	0.91 U	0.91 U	0.91 U	9.1 U
1,4-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	12 U
3-Chloropropene	UG/M3	0.63 U	0.63 U	0.63 U	0.63 U	6.3 U
alpha-Methylstyrene	UG/M3	1.9 U	1.9 U	1.9 U	1.9 U	19 U
Benzene	UG/M3	2.1	3.0	2.9	2.3	4.2 J

Flags assigned during chemistry validation are shown.

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J - The reported concentration is an estimated value. NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value.
R - Rejected, result is unusable. NEG - The analysis tested negative for the presence of this analyte in this sample.
UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4
VALIDATED AIR AND SOIL VAPOR ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-001	H-001	H-001	H-001
Sample ID		H-001-IA-1	H-001-IA-B-1	H-001-IA-B-1-DUP	H-001-IA-B-2	H-001-SS-1
Matrix		Indoor Air	Indoor Air	Indoor Air	Indoor Air	Sub-Slab Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/14/06	11/14/06	11/14/06	11/14/06	11/14/06
Parameter	Units		(2-2)	Field Duplicate (2-2)	(2-2)	
Volatile Organic Compounds						
Benzyl chloride	UG/M3	2.1 U	2.1 U	2.1 U	2.1 U	21 U
Bromodichloromethane	UG/M3	1.3 U	1.3 U	1.3 U	1.3 U	13 U
Bromoform	UG/M3	2.1 U	2.1 U	2.1 U	2.1 U	21 U
Bromomethane	UG/M3	0.78 U	0.78 U	0.78 U	0.78 U	7.8 U
Carbon disulfide	UG/M3	0.097 J	0.11 J	0.31 J	1.6 U	16 U
Carbon tetrachloride	UG/M3	0.40 J	0.50 J	0.48 J	0.47 J	13 U
Chlorobenzene	UG/M3	0.92 U	0.92 U	0.92 U	0.92 U	9.2 U
Chlorodifluoromethane	UG/M3	0.71 U	0.71 U	0.71 U	0.71 U	7.1 U
Chloroethane	UG/M3	0.53 U	0.53 U	0.53 U	0.53 U	5.3 U
Chloroform	UG/M3	0.54 J	0.29 J	0.26 J	0.98 U	9.8 U
Chloromethane	UG/M3	1.4	1.4	1.2	1.1	10 U
Cyclohexane	UG/M3	1.1 J	1.4 J	1.3 J	1.1 J	17 U
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	17 U
Dibromomethane	UG/M3	2.8 U	2.8 U	2.8 U	2.8 U	28 U
Dichlorodifluoromethane	UG/M3	72	8.8	8.5	7.0	8.7 J
Ethylbenzene	UG/M3	1.1	1.0	1.0	0.81 J	8.7 U
Heptane	UG/M3	1.8 J	2.5	2.5	1.9 J	2.2 J
Hexachlorobutadiene	UG/M3	11 U	11 U	11 U	11 U	110 U
Hexane	UG/M3	2.2	3.5	3.4	2.8	3.7 J
Isopropylbenzene (Cumene)	UG/M3	2.0 U	2.0 U	2.0 U	2.0 U	20 U
m&p-Xylene	UG/M3	3.7	3.3	3.2	2.9	2.5 J
Methylene chloride	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	17 U
Naphthalene	UG/M3	2.6 U	2.6 U	2.6 U	2.6 U	26 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

TABLE 4
VALIDATED AIR AND SOIL VAPOR ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-001	H-001	H-001	H-001
Sample ID		H-001-IA-1	H-001-IA-B-1	H-001-IA-B-1-DUP	H-001-IA-B-2	H-001-SS-1
Matrix		Indoor Air	Indoor Air	Indoor Air	Indoor Air	Sub-Slab Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/14/06	11/14/06	11/14/06	11/14/06	11/14/06
Parameter	Units		(2-2)	Field Duplicate (2-2)	(2-2)	
Volatile Organic Compounds						
n-Butane	UG/M3	21	25	24	20	23
n-Decane	UG/M3	3.8 J	2.3 J	1.7 J	1.8 J	58 U
n-Dodecane	UG/M3	0.51 J	0.45 J	7.0 U	7.0 U	70 U
n-Octane	UG/M3	0.77 J	1.2 J	1.2 J	1.0 J	19 U
Nonane	UG/M3	0.90 J	1.3 J	1.2 J	1.2 J	26 U
n-Propylbenzene	UG/M3	2.0 U	2.0 U	2.0 U	2.0 U	20 U
n-Undecane	UG/M3	1.1 J	1.2 J	0.58 J	0.91 J	64 U
o-Xylene	UG/M3	1.4	1.1	1.1	0.97	8.7 U
Pentane	UG/M3	5.4	8.3	7.9	7.1	8.3 J
Styrene	UG/M3	0.48 J	0.36 J	0.34 J	0.30 J	8.5 U
Tetrachloroethene	UG/M3	0.34 J	0.52 J	0.60 J	0.47 J	14 U
Toluene	UG/M3	8.2	4.8	4.7	4.2	3.8 J
1,1,1-Trichloroethane	UG/M3	1.1 U	1.1 U	1.1 U	1.1 U	11 U
Trichloroethene	UG/M3	0.59 J	1.1 U	1.1 U	1.1 U	11 U
Trichlorofluoromethane	UG/M3	28	3.8	3.6	3.7	4.2 J
Vinyl chloride	UG/M3	0.51 U	0.51 U	0.51 U	0.51 U	5.1 U
Total BTEX	UG/M3	16.5	13.2	12.9	11.18	10.5
Total Volatile Organic Compounds	UG/M3	161.887	78.46	74.13	63.82	60.6
Tentatively Identified Volatiles						
1,2,3-Trimethylbenzene	UG/M3	NEG	NEG	NEG	NEG	NEG
2,2,4-Trimethylpentane	UG/M3	NEG	NEG	NEG	NEG	NEG
2,3-Dimethylheptane	UG/M3	NEG	NEG	NEG	NEG	NEG
2,3-Dimethylpentane	UG/M3	NEG	NEG	NEG	NEG	NEG

Flags assigned during chemistry validation are shown.

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UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4
VALIDATED AIR AND SOIL VAPOR ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-001	H-001	H-001	H-001
Sample ID		H-001-IA-1	H-001-IA-B-1	H-001-IA-B-1-DUP	H-001-IA-B-2	H-001-SS-1
Matrix		Indoor Air	Indoor Air	Indoor Air	Indoor Air	Sub-Slab Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/14/06	11/14/06	11/14/06	11/14/06	11/14/06
Parameter	Units		(2-2)	Field Duplicate (2-2)	(2-2)	
Tentatively Identified Volatiles						
Butylcyclohexane	UG/M3	NEG	NEG	NEG	NEG	NEG
Indane	UG/M3	NEG	NEG	NEG	NEG	NEG
Indene	UG/M3	NEG	NEG	NEG	NEG	NEG
Isopentane	UG/M3	16 NJ	25 NJ	24 NJ	21 NJ	NEG
Thiopene	UG/M3	NEG	NEG	NEG	NEG	NEG
2-Methylnaphthalene	UG/M3	NEG	NEG	NEG	NEG	NEG

Flags assigned during chemistry validation are shown.

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J - The reported concentration is an estimated value. NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value.
R - Rejected, result is unusable. NEG - The analysis tested negative for the presence of this analyte in this sample.
UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4
VALIDATED AIR AND SOIL VAPOR ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-001	H-001	H-001	H-001
Sample ID		H-001-SS-1-DUP	H-001-SS-2	20070314-OA-1	H-001-IA-1	H-001-IA-1-DUP
Matrix		Sub-Slab Air	Sub-Slab Air	Ambient Air	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/14/06	11/14/06	03/14/07	03/14/07	03/14/07
Parameter	Units	Field Duplicate (1-1)				Field Duplicate (1-1)
Volatile Organic Compounds						
1,1,2,2-Tetrachloroethane	UG/M3	14 U	14 U	1.4 U	1.4 U	R
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	15 U	15 U	0.67 J	0.52 J	R
1,1,2-Trichloroethane	UG/M3	11 U	11 U	1.1 U	1.1 U	R
1,1-Dichloroethane	UG/M3	8.1 U	8.1 U	0.81 U	0.81 U	R
1,1-Dichloroethene	UG/M3	7.9 U	7.9 U	0.79 U	0.79 U	R
1,2,4-Trichlorobenzene	UG/M3	74 U	74 U	7.4 U	7.4 U	R
1,2,4-Trimethylbenzene	UG/M3	9.8 U	9.8 U	0.37 J	4.5	R
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	15 U	15 U	1.5 U	1.5 U	R
1,2-Dichlorobenzene	UG/M3	12 U	12 U	1.2 U	1.2 U	R
1,2-Dichloroethane	UG/M3	8.1 U	8.1 U	0.81 U	0.81 U	R
1,2-Dichloroethene (cis)	UG/M3	7.9 U	7.9 U	0.79 U	0.79 U	R
1,2-Dichloroethene (trans)	UG/M3	7.9 U	7.9 U	0.79 U	0.79 U	R
1,2-Dichloropropane	UG/M3	9.2 U	9.2 U	0.92 U	0.92 U	R
1,2-Dichlorotetrafluoroethane	UG/M3	14 U	14 U	1.4 U	1.4 U	R
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	9.8 U	9.8 U	0.98 U	1.2	R
1,3-Butadiene	UG/M3	8.8 U	8.8 U	0.88 U	0.88 U	R
1,3-Dichlorobenzene	UG/M3	12 U	12 U	1.2 U	1.2 U	R
1,3-Dichloropropene (cis)	UG/M3	9.1 U	9.1 U	0.91 U	0.91 U	R
1,3-Dichloropropene (trans)	UG/M3	9.1 U	9.1 U	0.91 U	0.91 U	R
1,4-Dichlorobenzene	UG/M3	12 U	12 U	1.2 U	1.2 U	R
3-Chloropropene	UG/M3	6.3 U	6.3 U	0.63 U	0.63 U	R
alpha-Methylstyrene	UG/M3	19 U	19 U	1.9 U	1.9 U	R
Benzene	UG/M3	5.4 J	7.4	4.9	4.0	R

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit. UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value.
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UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4
VALIDATED AIR AND SOIL VAPOR ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-001	H-001	H-001	H-001
Sample ID		H-001-SS-1-DUP	H-001-SS-2	20070314-OA-1	H-001-IA-1	H-001-IA-1-DUP
Matrix		Sub-Slab Air	Sub-Slab Air	Ambient Air	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/14/06	11/14/06	03/14/07	03/14/07	03/14/07
Parameter	Units	Field Duplicate (1-1)				Field Duplicate (1-1)
Volatile Organic Compounds						
Benzyl chloride	UG/M3	21 U	21 U	2.1 U	2.1 U	R
Bromodichloromethane	UG/M3	13 U	13 U	1.3 U	1.3 U	R
Bromoform	UG/M3	21 U	21 U	2.1 U	2.1 U	R
Bromomethane	UG/M3	7.8 U	7.8 U	0.78 U	0.78 U	R
Carbon disulfide	UG/M3	1.0 J	1.1 J	3.5	0.11 J	R
Carbon tetrachloride	UG/M3	13 U	13 U	0.64 J	0.47 J	R
Chlorobenzene	UG/M3	9.2 U	9.2 U	0.92 U	0.92 U	R
Chlorodifluoromethane	UG/M3	7.1 U	7.1 U	1.6	0.71 U	R
Chloroethane	UG/M3	5.3 U	5.3 U	0.53 U	0.53 U	R
Chloroform	UG/M3	9.8 U	9.8 U	0.98 U	0.98 U	R
Chloromethane	UG/M3	10 U	10 U	1.6	1.7	R
Cyclohexane	UG/M3	17 U	17 U	1.7 U	1.5 J	R
Dibromochloromethane	UG/M3	17 U	17 U	1.7 U	1.7 U	R
Dibromomethane	UG/M3	28 U	28 U	2.8 U	2.8 U	R
Dichlorodifluoromethane	UG/M3	4.7 J	4.9 J	2.8	2.9	R
Ethylbenzene	UG/M3	8.7 U	8.7 U	2.3	3.9	R
Heptane	UG/M3	20 U	2.4 J	2.2	2.3	R
Hexachlorobutadiene	UG/M3	110 U	110 U	11 U	11 U	R
Hexane	UG/M3	18 U	2.7 J	3.5	3.9	R
Isopropylbenzene (Cumene)	UG/M3	20 U	20 U	2.0 U	0.32 J	R
m&p-Xylene	UG/M3	8.7 U	8.7 U	5.8	13	R
Methylene chloride	UG/M3	17 U	17 U	1.7 U	1.7 U	R
Naphthalene	UG/M3	26 U	26 U	2.6 U	2.6 U	R

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit. UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value.
J - The reported concentration is an estimated value. NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value.
R - Rejected, result is unusable. NEG - The analysis tested negative for the presence of this analyte in this sample.
UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4
VALIDATED AIR AND SOIL VAPOR ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-001	H-001	H-001	H-001
Sample ID		H-001-SS-1-DUP	H-001-SS-2	20070314-OA-1	H-001-IA-1	H-001-IA-1-DUP
Matrix		Sub-Slab Air	Sub-Slab Air	Ambient Air	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/14/06	11/14/06	03/14/07	03/14/07	03/14/07
Parameter	Units	Field Duplicate (1-1)				Field Duplicate (1-1)
Volatile Organic Compounds						
n-Butane	UG/M3	5.3 J	4.5 J	16	24	R
n-Decane	UG/M3	58 U	58 U	5.8 U	11	R
n-Dodecane	UG/M3	70 U	70 U	7.0 U	2.5 J	R
n-Octane	UG/M3	19 U	19 U	0.67 J	1.1 J	R
Nonane	UG/M3	26 U	26 U	0.31 J	1.9 J	R
n-Propylbenzene	UG/M3	20 U	20 U	2.0 U	0.58 J	R
n-Undecane	UG/M3	64 U	64 U	6.4 U	11	R
o-Xylene	UG/M3	8.7 U	8.7 U	1.7	4.8	R
Pentane	UG/M3	30 U	3.3 J	7.8	7.9	R
Styrene	UG/M3	8.5 U	8.5 U	0.85 U	0.85	R
Tetrachloroethene	UG/M3	14 U	5.2 J	0.34 J	0.34 J	R
Toluene	UG/M3	7.5 U	2.4 J	14	12	R
1,1,1-Trichloroethane	UG/M3	11 U	11 U	1.1 U	1.1 U	R
Trichloroethene	UG/M3	11 U	11 U	1.1 U	1.1 U	R
Trichlorofluoromethane	UG/M3	2.0 J	2.0 J	1.4	2.0	R
Vinyl chloride	UG/M3	5.1 U	5.1 U	0.51 U	0.51 U	R
Total BTEX	UG/M3	5.4	9.8	28.7	37.7	ND
Total Volatile Organic Compounds	UG/M3	18.4	35.9	72.1	120.29	ND
Tentatively Identified Volatiles						
1,2,3-Trimethylbenzene	UG/M3	NEG	NEG	NEG	NEG	R
2,2,4-Trimethylpentane	UG/M3	NEG	NEG	NEG	NEG	R
2,3-Dimethylheptane	UG/M3	NEG	NEG	NEG	NEG	R
2,3-Dimethylpentane	UG/M3	NEG	NEG	NEG	NEG	R

Flags assigned during chemistry validation are shown.

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R - Rejected, result is unusable. NEG - The analysis tested negative for the presence of this analyte in this sample.
UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4
VALIDATED AIR AND SOIL VAPOR ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-001	H-001	H-001	H-001
Sample ID		H-001-SS-1-DUP	H-001-SS-2	20070314-OA-1	H-001-IA-1	H-001-IA-1-DUP
Matrix		Sub-Slab Air	Sub-Slab Air	Ambient Air	Indoor Air	Indoor Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/14/06	11/14/06	03/14/07	03/14/07	03/14/07
Parameter	Units	Field Duplicate (1-1)				Field Duplicate (1-1)
Tentatively Identified Volatiles						
Butylcyclohexane	UG/M3	NEG	NEG	NEG	NEG	R
Indane	UG/M3	NEG	NEG	NEG	NEG	R
Indene	UG/M3	NEG	NEG	NEG	NEG	R
Isopentane	UG/M3	NEG	NEG	15 NJ	13 NJ	R
Thiopene	UG/M3	NEG	NEG	NEG	NEG	R
2-Methylnaphthalene	UG/M3	NEG	NEG	NEG	NEG	R

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit. UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value.
J - The reported concentration is an estimated value. NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value.
R - Rejected, result is unusable. NEG - The analysis tested negative for the presence of this analyte in this sample.
UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4
VALIDATED AIR AND SOIL VAPOR ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-001	H-001	H-001	H-001
Sample ID		H-001-IA-B-1	H-001-IA-B-1-DUP	H-001-IA-B-2	H-001-SS-1	H-001-SS-1-DUP
Matrix		Indoor Air	Indoor Air	Indoor Air	Sub-Slab Air	Sub-Slab Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/14/07	03/14/07	03/14/07	03/14/07	03/14/07
Parameter	Units	(2-2)	Field Duplicate (2-2)	(3-3)		Field Duplicate (1-1)
Volatile Organic Compounds						
1,1,2,2-Tetrachloroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 UJ	1.4 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.64 J	0.55 J	0.47 J	0.62 J	0.55 J
1,1,2-Trichloroethane	UG/M3	1.1 U	1.1 U	1.1 U	1.1 UJ	1.1 U
1,1-Dichloroethane	UG/M3	0.81 U	0.81 U	0.81 U	0.81 UJ	0.81 U
1,1-Dichloroethene	UG/M3	0.79 U	0.79 U	0.79 U	0.79 UJ	0.79 U
1,2,4-Trichlorobenzene	UG/M3	7.4 U	7.4 U	7.4 U	7.4 UJ	7.4 U
1,2,4-Trimethylbenzene	UG/M3	4.2	3.5	3.7	2.3 J	0.74 J
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	1.5 U	1.5 U	1.5 U	1.5 UJ	1.5 U
1,2-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 UJ	1.2 U
1,2-Dichloroethane	UG/M3	0.81 U	0.81 U	0.81 U	0.56 J	0.70 J
1,2-Dichloroethene (cis)	UG/M3	0.79 U	0.79 U	0.79 U	0.79 UJ	0.79 U
1,2-Dichloroethene (trans)	UG/M3	0.79 U	0.79 U	0.79 U	0.79 UJ	0.79 U
1,2-Dichloropropane	UG/M3	0.92 U	0.92 U	0.92 U	0.92 UJ	0.92 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 UJ	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	1.0	0.89 J	1.0	0.64 J	0.31 J
1,3-Butadiene	UG/M3	0.88 U	0.88 U	0.88 U	0.88 UJ	0.88 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 UJ	1.2 U
1,3-Dichloropropene (cis)	UG/M3	0.91 U	0.91 U	0.91 U	0.91 UJ	0.91 U
1,3-Dichloropropene (trans)	UG/M3	0.91 U	0.91 U	0.91 U	0.91 UJ	0.91 U
1,4-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 UJ	1.2 U
3-Chloropropene	UG/M3	0.63 U	0.63 U	0.63 U	0.63 UJ	0.63 U
alpha-Methylstyrene	UG/M3	1.9 U	1.9 U	1.9 U	1.7 J	1.8 J
Benzene	UG/M3	4.1	3.5	3.1	4.7 J	3.4

Flags assigned during chemistry validation are shown.

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R - Rejected, result is unusable. NEG - The analysis tested negative for the presence of this analyte in this sample.
UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4
VALIDATED AIR AND SOIL VAPOR ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-001	H-001	H-001	H-001
Sample ID		H-001-IA-B-1	H-001-IA-B-1-DUP	H-001-IA-B-2	H-001-SS-1	H-001-SS-1-DUP
Matrix		Indoor Air	Indoor Air	Indoor Air	Sub-Slab Air	Sub-Slab Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/14/07	03/14/07	03/14/07	03/14/07	03/14/07
Parameter	Units	(2-2)	Field Duplicate (2-2)	(3-3)		Field Duplicate (1-1)
Volatile Organic Compounds						
Benzyl chloride	UG/M3	2.1 U	2.1 U	2.1 U	2.1 UJ	2.1 U
Bromodichloromethane	UG/M3	1.3 U	1.3 U	1.3 U	1.3 UJ	1.3 U
Bromoform	UG/M3	2.1 U	2.1 U	2.1 U	2.1 UJ	2.1 U
Bromomethane	UG/M3	0.78 U	0.78 U	0.78 U	0.78 UJ	0.78 U
Carbon disulfide	UG/M3	1.6 U	0.10 J	1.6 U	1.0 J	0.33 J
Carbon tetrachloride	UG/M3	0.56 J	0.47 J	0.47 J	0.41 J	0.33 J
Chlorobenzene	UG/M3	0.92 U	0.92 U	0.92 U	0.92 UJ	0.92 U
Chlorodifluoromethane	UG/M3	1.3	0.92	0.90	1.1 J	0.74
Chloroethane	UG/M3	0.53 U	0.53 U	0.53 U	0.53 UJ	0.53 U
Chloroform	UG/M3	0.98 U	0.98 U	0.98 U	0.98 UJ	0.98 U
Chloromethane	UG/M3	1.5	1.2	1.1	0.81 J	1.0 U
Cyclohexane	UG/M3	1.8	1.5 J	1.2 J	0.79 J	1.7 U
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 UJ	1.7 U
Dibromomethane	UG/M3	2.8 U	2.8 U	2.8 U	2.8 UJ	2.8 U
Dichlorodifluoromethane	UG/M3	2.7	2.2	2.2	2.8 J	2.2
Ethylbenzene	UG/M3	2.3	1.9	1.8	1.4 J	0.58 J
Heptane	UG/M3	3.8	2.1	1.8 J	1.5 J	1.1 J
Hexachlorobutadiene	UG/M3	11 U	11 U	11 U	11 UJ	11 U
Hexane	UG/M3	5.6	4.9	4.2	2.6 J	0.60 J
Isopropylbenzene (Cumene)	UG/M3	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U
m&p-Xylene	UG/M3	7.8	6.7	6.3	4.6 J	1.8
Methylene chloride	UG/M3	1.7 U	1.7 U	1.7 U	1.7 UJ	1.7 U
Naphthalene	UG/M3	2.6 U	2.6 U	2.6 U	2.6 UJ	2.6 U

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UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4
VALIDATED AIR AND SOIL VAPOR ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-001	H-001	H-001	H-001
Sample ID		H-001-IA-B-1	H-001-IA-B-1-DUP	H-001-IA-B-2	H-001-SS-1	H-001-SS-1-DUP
Matrix		Indoor Air	Indoor Air	Indoor Air	Sub-Slab Air	Sub-Slab Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/14/07	03/14/07	03/14/07	03/14/07	03/14/07
Parameter	Units	(2-2)	Field Duplicate (2-2)	(3-3)		Field Duplicate (1-1)
Volatile Organic Compounds						
n-Butane	UG/M3	34	28	29	13 J	0.86 J
n-Decane	UG/M3	8.3	6.5	7.8	4.6 J	2.0 J
n-Dodecane	UG/M3	3.5 J	1.9 J	2.3 J	1.7 J	1.3 J
n-Octane	UG/M3	1.5 J	1.1 J	0.92 J	1.0 J	0.72 J
Nonane	UG/M3	2.3 J	1.6 J	1.7 J	1.1 J	0.53 J
n-Propylbenzene	UG/M3	0.55 J	0.46 J	0.48 J	2.0 UJ	2.0 U
n-Undecane	UG/M3	11	9.1	12	5.3 J	1.5 J
o-Xylene	UG/M3	2.9	2.5	2.4	1.7 J	0.68 J
Pentane	UG/M3	12	11	8.9	6.1 J	3.0 U
Styrene	UG/M3	0.35 J	0.22 J	0.26 J	0.20 J	0.85 U
Tetrachloroethene	UG/M3	0.50 J	0.40 J	0.49 J	0.78 J	0.84 J
Toluene	UG/M3	10	8.3	7.5	6.7 J	3.5
1,1,1-Trichloroethane	UG/M3	1.1 U	1.1 U	1.1 U	1.1 UJ	1.1 U
Trichloroethene	UG/M3	1.1 U	1.1 U	1.1 U	1.1 UJ	1.1 U
Trichlorofluoromethane	UG/M3	1.5	1.2	1.2	1.5 J	1.1
Vinyl chloride	UG/M3	0.51 U	0.51 U	0.51 U	0.51 UJ	0.51 U
Total BTEX	UG/M3	27.1	22.9	21.1	19.1	9.96
Total Volatile Organic Compounds	UG/M3	125.7	102.71	103.19	71.21	28.21
Tentatively Identified Volatiles						
1,2,3-Trimethylbenzene	UG/M3	NEG	NEG	NEG	NEG	NEG
2,2,4-Trimethylpentane	UG/M3	NEG	NEG	NEG	NEG	NEG
2,3-Dimethylheptane	UG/M3	NEG	NEG	NEG	NEG	NEG
2,3-Dimethylpentane	UG/M3	NEG	NEG	NEG	NEG	NEG

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Detection Limits shown are PQL

TABLE 4
VALIDATED AIR AND SOIL VAPOR ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-001	H-001	H-001	H-001
Sample ID		H-001-IA-B-1	H-001-IA-B-1-DUP	H-001-IA-B-2	H-001-SS-1	H-001-SS-1-DUP
Matrix		Indoor Air	Indoor Air	Indoor Air	Sub-Slab Air	Sub-Slab Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/14/07	03/14/07	03/14/07	03/14/07	03/14/07
Parameter	**Units**	(2-2)	Field Duplicate (2-2)	(3-3)		Field Duplicate (1-1)
Tentatively Identified Volatiles						
Butylcyclohexane	UG/M3	NEG	NEG	NEG	NEG	NEG
Indane	UG/M3	NEG	NEG	NEG	NEG	NEG
Indene	UG/M3	NEG	NEG	NEG	NEG	NEG
Isopentane	UG/M3	21 NJ	18 NJ	15 NJ	9.2 NJ	NEG
Thiopene	UG/M3	NEG	NEG	NEG	NEG	NEG
2-Methylnaphthalene	UG/M3	NEG	NEG	NEG	NEG	NEG

Flags assigned during chemistry validation are shown.

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J - The reported concentration is an estimated value. NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value.
R - Rejected, result is unusable. NEG - The analysis tested negative for the presence of this analyte in this sample.
UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4
VALIDATED AIR AND SOIL VAPOR ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-002	H-002	H-002	H-002
Sample ID		H-001-SS-2	H-002-IA-1	H-002-IA-1-DUP	H-002-IA-B	H-002-SS-1
Matrix		Sub-Slab Air	Indoor Air	Indoor Air	Indoor Air	Sub-Slab Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/14/07	11/14/06	11/14/06	11/14/06	11/14/06
Parameter	Units			Field Duplicate (1-1)	(2-2)	
Volatile Organic Compounds						
1,1,2,2-Tetrachloroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	14 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.67 J	0.44 J	0.47 J	0.43 J	15 U
1,1,2-Trichloroethane	UG/M3	1.1 U	1.1 U	1.1 U	1.1 U	11 U
1,1-Dichloroethane	UG/M3	0.81 U	0.81 U	0.81 U	0.81 U	8.1 U
1,1-Dichloroethene	UG/M3	0.79 U	0.79 U	0.79 U	0.79 U	7.9 U
1,2,4-Trichlorobenzene	UG/M3	7.4 U	7.4 U	7.4 U	7.4 U	74 U
1,2,4-Trimethylbenzene	UG/M3	0.98 U	1.4	1.2	1.1	9.8 U
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	1.5 U	1.5 U	1.5 U	1.5 U	15 U
1,2-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	12 U
1,2-Dichloroethane	UG/M3	0.46 J	0.81 U	0.81 U	0.81 U	8.1 U
1,2-Dichloroethene (cis)	UG/M3	0.79 U	0.79 U	0.79 U	0.79 U	7.9 U
1,2-Dichloroethene (trans)	UG/M3	0.79 U	0.79 U	0.79 U	0.79 U	7.9 U
1,2-Dichloropropane	UG/M3	0.92 U	0.92 U	0.92 U	0.92 U	9.2 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	14 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.98 U	0.66 J	0.45 J	0.33 J	9.8 U
1,3-Butadiene	UG/M3	0.88 U	0.88 U	0.88 U	0.88 U	8.8 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	12 U
1,3-Dichloropropene (cis)	UG/M3	0.91 U	0.91 U	0.91 U	0.91 U	9.1 U
1,3-Dichloropropene (trans)	UG/M3	0.91 U	0.91 U	0.91 U	0.91 U	9.1 U
1,4-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	12 U
3-Chloropropene	UG/M3	0.63 U	0.63 U	0.63 U	0.63 U	6.3 U
alpha-Methylstyrene	UG/M3	1.9 U	1.9 U	0.91 J	1.9 U	19 U
Benzene	UG/M3	8.7	1.7	1.9	1.5	1.6 J

Flags assigned during chemistry validation are shown.

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R - Rejected, result is unusable. NEG - The analysis tested negative for the presence of this analyte in this sample.
UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4
VALIDATED AIR AND SOIL VAPOR ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-002	H-002	H-002	H-002
Sample ID		H-001-SS-2	H-002-IA-1	H-002-IA-1-DUP	H-002-IA-B	H-002-SS-1
Matrix		Sub-Slab Air	Indoor Air	Indoor Air	Indoor Air	Sub-Slab Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/14/07	11/14/06	11/14/06	11/14/06	11/14/06
Parameter	Units			Field Duplicate (1-1)	(2-2)	
Volatile Organic Compounds						
Benzyl chloride	UG/M3	2.1 U	2.1 U	2.1 U	2.1 U	21 U
Bromodichloromethane	UG/M3	1.3 U	1.3 U	1.3 U	1.3 U	13 U
Bromoform	UG/M3	2.1 U	2.1 U	2.1 U	2.1 U	21 U
Bromomethane	UG/M3	0.78 U	0.78 U	0.78 U	0.78 U	7.8 U
Carbon disulfide	UG/M3	0.65 J	0.30 J	0.095 J	0.12 J	16 U
Carbon tetrachloride	UG/M3	0.27 J	0.46 J	0.52 J	0.41 J	13 U
Chlorobenzene	UG/M3	0.92 U	0.92 U	0.92 U	0.92 U	9.2 U
Chlorodifluoromethane	UG/M3	1.8	0.71 U	0.71 U	0.76	7.1 U
Chloroethane	UG/M3	0.53 U	0.15 J	0.12 J	0.53 U	5.3 U
Chloroform	UG/M3	0.98 U	0.24 J	0.25 J	0.98 U	9.8 U
Chloromethane	UG/M3	1.0 U	1.1	1.2	1.3	10 U
Cyclohexane	UG/M3	1.4 J	0.87 J	1.0 J	0.45 J	17 U
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	17 U
Dibromomethane	UG/M3	2.8 U	2.8 U	2.8 U	2.8 U	28 U
Dichlorodifluoromethane	UG/M3	2.2	2.3	2.5	2.2	3.3 J
Ethylbenzene	UG/M3	0.87 U	1.1	1.2	0.81 J	8.7 U
Heptane	UG/M3	0.62 J	3.1	3.5	1.3 J	20 U
Hexachlorobutadiene	UG/M3	11 U	11 U	11 U	11 U	110 U
Hexane	UG/M3	1.1 J	1.5 J	1.5 J	1.2 J	18 U
Isopropylbenzene (Cumene)	UG/M3	2.0 U	2.0 U	2.0 U	2.0 U	20 U
m&p-Xylene	UG/M3	0.87 U	3.5	3.5	2.8	2.5 J
Methylene chloride	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	17 U
Naphthalene	UG/M3	2.6 U	2.6 U	2.6 U	2.6 U	26 U

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit. UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value.
J - The reported concentration is an estimated value. NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value.
R - Rejected, result is unusable. NEG - The analysis tested negative for the presence of this analyte in this sample.
UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4
VALIDATED AIR AND SOIL VAPOR ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-002	H-002	H-002	H-002
Sample ID		H-001-SS-2	H-002-IA-1	H-002-IA-1-DUP	H-002-IA-B	H-002-SS-1
Matrix		Sub-Slab Air	Indoor Air	Indoor Air	Indoor Air	Sub-Slab Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/14/07	11/14/06	11/14/06	11/14/06	11/14/06
Parameter	Units			Field Duplicate (1-1)	(2-2)	
Volatile Organic Compounds						
n-Butane	UG/M3	4.6	8.3	9.2	7.7	0.92 J
n-Decane	UG/M3	5.8 U	0.83 J	1.0 J	0.42 J	58 U
n-Dodecane	UG/M3	7.0 U	0.41 J	0.61 J	7.0 U	70 U
n-Octane	UG/M3	1.9 U	0.65 J	0.68 J	0.33 J	19 U
Nonane	UG/M3	2.6 U	0.37 J	0.43 J	2.6 U	26 U
n-Propylbenzene	UG/M3	2.0 U	2.0 U	2.0 U	2.0 U	20 U
n-Undecane	UG/M3	6.4 U	0.54 J	0.55 J	6.4 U	64 U
o-Xylene	UG/M3	0.87 U	1.4	1.4	1.1	8.7 U
Pentane	UG/M3	2.5 J	4.2	5.3	3.0	30 U
Styrene	UG/M3	0.85 U	0.48 J	0.54 J	0.20 J	8.5 U
Tetrachloroethene	UG/M3	1.8	0.23 J	0.27 J	1.4 U	14 U
Toluene	UG/M3	1.5	9.9	9.2	4.3	2.3 J
1,1,1-Trichloroethane	UG/M3	0.85 J	1.1 U	1.1 U	1.1 U	11 U
Trichloroethene	UG/M3	1.1 U	1.1 U	1.1 U	1.1 U	11 U
Trichlorofluoromethane	UG/M3	1.2	1.3	1.4	1.3	11 U
Vinyl chloride	UG/M3	0.51 U	0.51 U	0.51 U	0.51 U	5.1 U
Total BTEX	UG/M3	10.2	17.6	17.2	10.51	6.4
Total Volatile Organic Compounds	UG/M3	30.32	47.43	50.895	33.06	10.62
Tentatively Identified Volatiles						
1,2,3-Trimethylbenzene	UG/M3	NEG	NEG	NEG	NEG	NEG
2,2,4-Trimethylpentane	UG/M3	NEG	NEG	NEG	NEG	NEG
2,3-Dimethylheptane	UG/M3	NEG	NEG	NEG	NEG	NEG
2,3-Dimethylpentane	UG/M3	NEG	NEG	NEG	NEG	NEG

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit. UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value.
J - The reported concentration is an estimated value. NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value.
R - Rejected, result is unusable. NEG - The analysis tested negative for the presence of this analyte in this sample.
UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4
VALIDATED AIR AND SOIL VAPOR ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-001	H-002	H-002	H-002	H-002
Sample ID		H-001-SS-2	H-002-IA-1	H-002-IA-1-DUP	H-002-IA-B	H-002-SS-1
Matrix		Sub-Slab Air	Indoor Air	Indoor Air	Indoor Air	Sub-Slab Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/14/07	11/14/06	11/14/06	11/14/06	11/14/06
Parameter	Units			Field Duplicate (1-1)	(2-2)	
Tentatively Identified Volatiles						
Butylcyclohexane	UG/M3	NEG	NEG	NEG	NEG	NEG
Indane	UG/M3	NEG	NEG	NEG	NEG	NEG
Indene	UG/M3	NEG	NEG	NEG	NEG	NEG
Isopentane	UG/M3	NEG	9.4 NJ	10 NJ	8.8 NJ	NEG
Thiopene	UG/M3	NEG	NEG	NEG	NEG	NEG
2-Methylnaphthalene	UG/M3	NEG	NEG	NEG	NEG	NEG

Flags assigned during chemistry validation are shown.

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J - The reported concentration is an estimated value. NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value.
R - Rejected, result is unusable. NEG - The analysis tested negative for the presence of this analyte in this sample.
UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4
VALIDATED AIR AND SOIL VAPOR ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-002	H-002	H-002	H-002	OA-001
Sample ID		20070312-OA-1	H-002-IA-1	H-002-IA-B	H-002-SS-1	20061114-OA-1
Matrix		Ambient Air	Indoor Air	Indoor Air	Sub-Slab Air	Ambient Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/12/07	03/12/07	03/12/07	03/12/07	11/14/06
Parameter	Units			(2-2)		
Volatile Organic Compounds						
1,1,2,2-Tetrachloroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	0.79 J	0.69 J	0.78 J	0.82 J	0.46 J
1,1,2-Trichloroethane	UG/M3	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
1,1-Dichloroethane	UG/M3	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
1,1-Dichloroethene	UG/M3	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
1,2,4-Trichlorobenzene	UG/M3	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U
1,2,4-Trimethylbenzene	UG/M3	0.43 J	2.3	2.3	0.58 J	0.92 J
1,2-Dibromoethane (Ethylene dibromide)	UG/M3	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,2-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	0.81 U	0.27 J	0.81 U	0.81 U	0.81 U
1,2-Dichloroethene (cis)	UG/M3	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
1,2-Dichloroethene (trans)	UG/M3	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
1,2-Dichloropropane	UG/M3	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.98 U	0.68 J	0.88 J	0.34 J	0.28 J
1,3-Butadiene	UG/M3	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,3-Dichloropropene (cis)	UG/M3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
1,3-Dichloropropene (trans)	UG/M3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
1,4-Dichlorobenzene	UG/M3	1.2 U	1.2 U	0.57 J	1.2 U	1.2 U
3-Chloropropene	UG/M3	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
alpha-Methylstyrene	UG/M3	1.9 U	1.9 U	1.9 U	0.22 J	1.9 U
Benzene	UG/M3	3.4	4.2	4.2	3.9	1.4

Flags assigned during chemistry validation are shown.

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J - The reported concentration is an estimated value. NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value.
R - Rejected, result is unusable. NEG - The analysis tested negative for the presence of this analyte in this sample.
UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4
VALIDATED AIR AND SOIL VAPOR ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-002	H-002	H-002	H-002	OA-001
Sample ID		20070312-OA-1	H-002-IA-1	H-002-IA-B	H-002-SS-1	20061114-OA-1
Matrix		Ambient Air	Indoor Air	Indoor Air	Sub-Slab Air	Ambient Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/12/07	03/12/07	03/12/07	03/12/07	11/14/06
Parameter	Units			(2-2)		
Volatile Organic Compounds						
Benzyl chloride	UG/M3	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Bromodichloromethane	UG/M3	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Bromoform	UG/M3	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	UG/M3	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U
Carbon disulfide	UG/M3	0.12 J	1.6 U	1.6 U	2.5	0.14 J
Carbon tetrachloride	UG/M3	0.70 J	0.63 J	0.73 J	0.62 J	0.54 J
Chlorobenzene	UG/M3	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Chlorodifluoromethane	UG/M3	0.87	0.52 J	0.98	0.56 J	0.88
Chloroethane	UG/M3	0.53 U	0.14 J	0.53 U	0.53 U	0.53 U
Chloroform	UG/M3	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Chloromethane	UG/M3	1.3	0.95 J	1.1	1.0 U	1.0 J
Cyclohexane	UG/M3	0.55 J	1.0 J	0.88 J	1.7 U	1.7 U
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dibromomethane	UG/M3	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U
Dichlorodifluoromethane	UG/M3	2.7	2.2	2.3	2.3	2.6
Ethylbenzene	UG/M3	0.65 J	2.0	2.1	0.54 J	0.66 J
Heptane	UG/M3	0.74 J	1.6 J	1.4 J	2.4	2.5
Hexachlorobutadiene	UG/M3	11 U	11 U	11 U	11 U	11 U
Hexane	UG/M3	2.4	3.0	3.2	2.4	0.65 J
Isopropylbenzene (Cumene)	UG/M3	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
m&p-Xylene	UG/M3	1.3	6.1	6.7	3.1	2.2
Methylene chloride	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Naphthalene	UG/M3	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit. UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value.
J - The reported concentration is an estimated value. NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value.
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UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4
VALIDATED AIR AND SOIL VAPOR ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-002	H-002	H-002	H-002	OA-001
Sample ID		20070312-OA-1	H-002-IA-1	H-002-IA-B	H-002-SS-1	20061114-OA-1
Matrix		Ambient Air	Indoor Air	Indoor Air	Sub-Slab Air	Ambient Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/12/07	03/12/07	03/12/07	03/12/07	11/14/06
Parameter	Units			(2-2)		
Volatile Organic Compounds						
n-Butane	UG/M3	8.0	12	11	3.3	3.6
n-Decane	UG/M3	5.8 U	1.2 J	0.60 J	1.3 J	0.76 J
n-Dodecane	UG/M3	7.0 U	7.0 U	7.0 U	0.86 J	0.48 J
n-Octane	UG/M3	1.9 U	0.94 J	0.74 J	2.5	0.35 J
Nonane	UG/M3	2.6 U	0.49 J	0.47 J	1.7 J	0.30 J
n-Propylbenzene	UG/M3	2.0 U	0.42 J	0.44 J	2.0 U	2.0 U
n-Undecane	UG/M3	6.4 U	0.62 J	6.4 U	1.2 J	0.70 J
o-Xylene	UG/M3	0.44 J	2.4	2.5	0.83 J	0.90
Pentane	UG/M3	3.6	4.5	4.7	2.5 J	3.0 U
Styrene	UG/M3	0.85 U	0.34 J	0.85 U	0.85 U	0.25 J
Tetrachloroethene	UG/M3	0.22 J	0.61 J	0.48 J	0.59 J	1.4 U
Toluene	UG/M3	7.0	12	11	7.6	3.3
1,1,1-Trichloroethane	UG/M3	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	UG/M3	1.1 U	0.30 J	0.27 J	1.1 U	1.1 U
Trichlorofluoromethane	UG/M3	1.5	1.6	2.4	1.4	1.2
Vinyl chloride	UG/M3	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
Total BTEX	UG/M3	12.79	26.7	26.5	15.97	8.46
Total Volatile Organic Compounds	UG/M3	36.71	63.7	62.72	44.06	26.07
Tentatively Identified Volatiles						
1,2,3-Trimethylbenzene	UG/M3	NEG	NEG	NEG	NEG	NEG
2,2,4-Trimethylpentane	UG/M3	NEG	NEG	NEG	NEG	NEG
2,3-Dimethylheptane	UG/M3	NEG	NEG	NEG	NEG	NEG
2,3-Dimethylpentane	UG/M3	NEG	NEG	NEG	NEG	NEG

Flags assigned during chemistry validation are shown.

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UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 4
VALIDATED AIR AND SOIL VAPOR ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		H-002	H-002	H-002	H-002	OA-001
Sample ID		20070312-OA-1	H-002-IA-1	H-002-IA-B	H-002-SS-1	20061114-OA-1
Matrix		Ambient Air	Indoor Air	Indoor Air	Sub-Slab Air	Ambient Air
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/12/07	03/12/07	03/12/07	03/12/07	11/14/06
Parameter	Units			(2-2)		
Tentatively Identified Volatiles						
Butylcyclohexane	UG/M3	NEG	NEG	NEG	NEG	NEG
Indane	UG/M3	NEG	NEG	NEG	NEG	NEG
Indene	UG/M3	NEG	NEG	NEG	NEG	NEG
Isopentane	UG/M3	16 NJ	19 NJ	23 NJ	NEG	NEG
Thiopene	UG/M3	NEG	NEG	NEG	NEG	NEG
2-Methylnaphthalene	UG/M3	NEG	NEG	NEG	NEG	NEG

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit. UJ - Not detected above the reported quantitation limit. Quantitation limit is an estimated value.
J - The reported concentration is an estimated value. NJ - This compound was tentatively identified in the sample, and the reported concentration is an estimated value.
R - Rejected, result is unusable. NEG - The analysis tested negative for the presence of this analyte in this sample.
UG/M3 - Micrograms per cubic meter.

Detection Limits shown are PQL

TABLE 5
VALIDATED SCRAPE SAMPLE ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		SCRAPE-01	SCRAPE-02	SCRAPE-03
Sample ID		SCRAPE 1	SCRAPE 2	SCRAPE 3
Matrix		Soil	Soil	Soil
Depth Interval (ft)		-	-	-
Date Sampled		06/12/06	06/12/06	06/12/06
Parameter	**Units**			
Volatile Organic Compounds				
Benzene	UG/KG	120	44	1 J
Ethylbenzene	UG/KG	38	22	5 U
Toluene	UG/KG	97	58 U	5 U
Xylene (total)	UG/KG	170	120	15 U
Total BTEX	UG/KG	425	186	1
Total Volatile Organic Compounds	UG/KG	425	186	1
Semivolatile Organic Compounds				
2-Methylnaphthalene	UG/KG	25,000 J	6,400 J	330 U
Acenaphthene	UG/KG	4,800 J	68,000 U	330 U
Acenaphthylene	UG/KG	150,000	42,000 J	330 U
Anthracene	UG/KG	310,000	130,000	19 J
Benzo(a)anthracene	UG/KG	670,000	240,000	47 J
Benzo(a)pyrene	UG/KG	410,000	140,000	32 J
Benzo(b)fluoranthene	UG/KG	610,000	190,000	47 J
Benzo(g,h,i)perylene	UG/KG	140,000	54,000 J	20 J
Benzo(k)fluoranthene	UG/KG	200,000	65,000 J	330 U
Chrysene	UG/KG	650,000	220,000	44 J
Dibenzo(a,h)anthracene	UG/KG	69,000	22,000 J	330 U
Dibenzofuran	UG/KG	41,000 J	11,000 J	330 U
Fluoranthene	UG/KG	1,600,000 D	490,000	120 J
Fluorene	UG/KG	46,000 J	14,000 J	330 U
Indeno(1,2,3-cd)pyrene	UG/KG	160,000	60,000 J	17 J
Naphthalene	UG/KG	42,000 J	9,700 J	46 J

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit.
J - The reported concentration is an estimated value.
D - Result reported from a secondary dilution analysis.
UG/KG - Micrograms per kilogram.

Detection Limits shown are PQL

TABLE 5
VALIDATED SCRAPE SAMPLE ANALYTICAL RESULTS (PREVIOUS INVESTIGATIONS)
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NYSEG - CORTLAND, NEW YORK

Location ID		SCRAPE-01	SCRAPE-02	SCRAPE-03
Sample ID		SCRAPE 1	SCRAPE 2	SCRAPE 3
Matrix		Soil	Soil	Soil
Depth Interval (ft)		-	-	-
Date Sampled		06/12/06	06/12/06	06/12/06
Parameter	**Units**			
Semivolatile Organic Compounds				
Phenanthrene	UG/KG	990,000	370,000	110 J
Pyrene	UG/KG	1,000,000	360,000	70 J
Total Polycyclic Aromatic Hydrocarbons	UG/KG	7,051,800	2,406,700	572
Total Semivolatile Organic Compounds	UG/KG	7,117,800	2,424,100	572

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit.
J - The reported concentration is an estimated value.
D - Result reported from a secondary dilution analysis.
UG/KG - Micrograms per kilogram.

Detection Limits shown are PQL

APPENDIX E

SITE PHOTOGRAPHS

Photo #1: Looking southeast, 45 Charles Street on left, 43 Charles Street on right.

Photo #2: Looking east between 43 and 45 Charles Street.

Photo #3: Backyard at 45 Charles Street, looking north.

Photo #4: Backyard at 43 Charles Street, looking south-southeast.

Photo #5: GPR survey in front of 43 Charles Street.

Photo #6: Close-up of GPR apparatus.

Photo #7: Test trench TP-01 excavated to approximately 7.5 feet below ground surface, looking southeast. Thin ash layer visible at approximately 1.5 feet below ground surface.

Photo #8: Test trench TP-02 excavated to approximately 7.0 feet below ground surface, looking north. Soils appear darker at north end of trench due to perched water percolating into trench.

Photo #9: Test trench TP-03 excavated to approximately 10.5 feet below ground surface, looking west. Note ash layer at approximately 6.0 feet below ground surface. Perched water encountered at 10.5 feet below ground surface.

Photo #10: Cobbles encased in glassy looking tar observed in TP-03.

Photo #11: Skid steer mounted geoprobe unit advancing SB-07/PZ-02, looking east-southeast.

Photo #12: Surface completion at PZ-02.

Photo #13: Stone #1 prior to sampling.

Photo #14: Stone #2 prior to sampling. Note crackly appearance.

Photo #15: Stone #3 with mold or mildew appearance.

Photo #16: Stone #4 with black crackly appearance prior to sampling.

Photo #17: Stone #5, located beneath Stone #4.

Photo #18: Background drill holes for collection of Scrape #3 sample, collected from the north wall.

Photo #19: Background (Scrape #3) locations on south basement wall. Note crawl space access in upper right corner of photograph.

Photo #20: Stone #1 after sampling. Located approximately 5 feet from the wooden partition wall.

Photo #21: Stone #1 after sampling located approximately 2 feet above the basement floor.

Photo #22: Stone #2 after sampling located approximately 3.5 feet above basement floor. Stone #3 is to the right of the measuring tape.

Photo #23: Stone #2 and #3.

Photo #24: Stone #4 and #5 after sampling.

APPENDIX F

NEWFIELDS REPORT

July 24, 2006

Tracy L. Blazicek, CHMM
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Site Investigation & Remediation
NYSEG
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Subject: Letter Report for Forensic Cortland Scrape Samples

Dear Mr. Blazicek:

This letter report summarizes our review of selected data provided to NewFields on July 21, 2006. These data included one (1) soil boring sample collected on April 26, 2006 (SB-14 11-12) and three (3) scrape samples collected on June 12, 2006 (Scrape 1, Scrape 2, and Scrape 3) as part of the NYSEG Cortland, NY investigation.

Objective
This review compared the source signature of MGP residuals in the soil sample with three scrape samples of unknown origin collected on rock surfaces in a residential property built in close proximity to a former gas holder. The objective of this review was to determine if tar residues in the samples could have originated from the same source.

Laboratory Data
The sample analyses were performed by STL Buffalo, Amherst, NY. EPA Method 8260B was used for BTEX analysis and EPA Method 8270C was used for PAH analysis. While these standard EPA methods are useful for measuring a wide variety of chemicals, they were not specifically developed for the detailed forensic measurement and analysis. Therefore, this review was intended to identify gross differences among the tar signatures, if present.

Results
The site investigation results yielded the following conclusions:

- Soil Boring, Scrape 1, and Scrape 2 samples contain coal tar.
- Scrape 3 contained concentrations of PAHs that were too low to generate a meaningful source signature.
- Some compositional differences exist, but it was not possible to determine if the tar residues in the soil boring and scrape samples were derived from the MGP gas holder or various other tar sources commonly encountered in residential

properties (e.g., waterproofing sealer, insecticides, tar paper, and others) using the data provided.

Don't hesitate to contact me should you have any questions regarding this report.

Sincerely,

Gina M. Plantz
Senior Scientist

Cc: Stephen Emsbo-Mattingly