REMEDIAL ACTION WORK PLAN
ROD MILL PARCEL
CENTRAL CORE
EAST ROME BUSINESS PARK
ROME, NEW YORK

Prepared By:

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Utica, New York 13501

JEE Project No. 8514

MAY 5, 1998

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MAY 5, 1998

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1.0 INTRODUCTION

This work plan presents the scope of work for investigation and remedial measures to be conducted at the southern portion of the Central Core Area of the East Rome Business Park in Rome, New York ("Rod Mill Parcel"). The redevelopment of this Central Core area, which is comprised of a portion of the old General Cable manufacturing facility, has been subdivided for redevelopment into seven parcels: the Pecoraro Dairy Products site, the Canterbury Printing expansion area, the City of Rome industrial access road right-of-way ("Roadway Property"), the Rod Mill Parcel, and the three parcels along Railroad Street and the northern portion of the City's access road (Figure 1-1).

The Central Core Area is a 17-acre parcel of land within the proposed 200-acre industrial redevelopment area known as the East Rome Business Park. The core area is generally bounded by Railroad Street to the north, the New York State Barge Canal Corporation property to the south and by industrial and commercial properties to the east and west. The property has been owned by Mr. Charles A. Gaetano since 1975 and is listed by the City of Rome as tax map parcel #242.020-0001-018. The Roadway Property, which is to be used for a new public road, was conveyed to the City in March of 1997 after the New York State Department of Environmental Conservation (NYSDEC) approved the City's application for a State Assistance Contract under the 1996 Clean Water/Clean Air Bond Act.

1.1 Background

The history of the site is described in the report titled "Phase I Environmental Site Assessment, City of Rome Industrial Redevelopment Area, Rome, New York" [RETEC, 1995]. The site was first developed in the late 1800s when the Rome Tube Company began construction of a casting and pickling facility. In 1904, the Electric Wire Works (later the Rome Wire Company) began construction on the northwest portion of the site. The Rome Wire Company, and its successor, General Cable, operated the facility from 1920 to 1972. During that period, a wide-range of metalworking activities were conducted including: machining, stamping and drawing, plating, pickling, and coating with rubber, asbestos, and paints [RETEC, 1995]. General Cable ceased operations at the site in 1972.

Charles Gaetano, the site owner, acquired title to the site after General Cable ceased manufacturing operations, and since that time, has leased the site to various tenants and has continued to seek redevelopment of the site for commercial or industrial use. At present, the site contains abandoned buildings and open areas, most of which are covered with concrete pavement. Demolition to grade of several of the former General Cable buildings at the northern end of the site has been completed by Mr. Gaetano.

A number of investigations of this portion of the site were performed by Empire Soils Investigations, Inc. in the area between Building 11 (the Rod Mill) and the Canal Corporation property along the Mohawk River. The investigations were conducted to obtain engineering data in support of the construction of a proposed independent power generating facility. A Phase I and a Phase II contaminant source investigation, and a geotechnical investigation and foundation design were performed between 1990 and 1993 [Empire Soils, 1990, 1991, and 1993]. The subsurface investigations found that chlorinated volatile organic compounds were present in the groundwater at concentrations exceeding New York State groundwater standards. The locations of the monitoring wells and soil borings completed by Empire Soils is shown on Figure 1-2.

40 30 20 10 0 20 40

APPROXIMATE SCALE IN FEET

MILL STREET

MOSCA BROS.

UNDERGROUND GASOLINE STORAGE TANK

STGE. SHED

LUBE OIL TANK

SHED

CB

MH

PROPOSED ROAD

CANTERBURY EXPANSION

PUMP HOUSE

ROD MILL AREA

PORTION OF BUILDING TO BE REUSED

SUMP

CITY ROADWAY

FUTURE ROAD

UNDERGROUND FUEL OIL TANK

BARGE CANAL

WATER TOWER

FORMER OIL PUMP HOUSE

FORMER OIL TANK

LANDS N/F MOSCA BROS. MOVING AND STORAGE

PROPOSED FUTURE ROAD

FUTURE DEVELOPMENT

PECORARO SITE

LEGEND

- PROPERTY LINE
- EXISTING BUILDING LOCATION
- FORMER BUILDING LOCATION
- (34) BUILDING NUMBER
- EXISTING UNDERGROUND UTILITY TUNNEL
- ST EXISTING STORM SEWER LINE
- FO EXISTING FUEL OIL LINE

REFERENCE DWG	DESCRIPTION	NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE

PLANNING DEPARTMENT
ROME, NEW YORK

CURRENT DATE: 3/25/98

CAD FILE: 8514sa48

FIGURE 1-1
SOUTHERN REDEVELOPMENT AREA

ROME, NEW YORK

JACK EISENBACH ENGINEERING, P.C.
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468 Cordon Street, Buffalo, NY 14202 716-882-3603

DRAWING NUMBER 8514SA48 REV

In addition, one soil sample from a set of eight samples obtained from borings at the site exceeded the TCLP limit for lead (100 mg/L as compared to the limit of 5 mg/L). It was believed that this TCLP lead result was either an erroneous laboratory result or due to inclusion of metal in the fill at that location. Testing of an additional soil sample from the same boring found that TCLP lead was below the method detection limit. Analysis of soil samples across this area south of the Rod Mill by Empire Soils found total lead concentrations ranging from non-detect up to a maximum of 553 mg/Kg. The laboratory results are shown on Table 1.

Empire soils also performed a soil gas survey over the proposed plant site. The results of the survey indicated that volatile organic compounds were detected in two of 32 samples collected. Toluene and xylene were found at one location in concentrations of 63.6 and 76.4 ug/m^3, respectively, and toluene was found at the detection limit of 50 ug/m^3 at a second location. Permits were issued by NYSDEC to allow construction of the proposed power plant; however, the facility was not constructed due to financial and contractual considerations.

1.2 Remedial Objectives

The investigation and remedial measures ("Remedial Action") presented in this work plan have been developed based upon the findings and recommendations presented in a recently completed Phase II Investigation [RETEC, 1997a] and Site Investigation (SI) [RETEC, 1997b]. Remedial Action on the Rod Mill Parcel will be implemented by Mr. Gaetano, the site owner, under a Voluntary Remedial Agreement with NYSDEC, and by the City of Rome under the terms of a Record of Decision for remediation of features associated with the proposed industrial access roadway. The objective of the agreement is to create conditions for redevelopment and occupation of the site which are protective of human health and the environment for commercial/industrial use.

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL SAMPLES
INDEPENDENT POWER PLANT
ROME, NEW YORK
GTA-91-40B

ANALYTICAL METHOD	COMPOUND/METAL	B-12 S-5)	B-13 (S-5)	B-14 (S-5)	B-15 (S-5)	B-16 (S-2)	B-16 (S-4)	B-16 (S-5)	METHOD BLANK	EPA LIMIT
EPA METHOD 8010 (ug/kg)	METHYLENE CHLORIDE	180	190	190	190	---	---	220	110	
	TRICHLOROETHENE	<50	<50	110	<50			<50	<50	
EPA METHOD 8020 (ug/kg)		ND	ND	ND	ND	---	---	ND	ND	
TCLP METALS (mg/L)	BARIUM	0.31	---	0.27	---	---	2.94	---	ND	100
	CADMIUM	ND	---	ND	---	---	.22	---	ND	1.0
	LEAD	ND	---	ND	---	ND	100	---	ND	5.0

NOTES:

- ONLY COMPOUNDS OR METALS DETECTED ARE LISTED
ND - NONE DETECTED
--- - NOT TESTED
ug/kg - MICROGRAMS PER KILOGRAM
mg/L - MILLIGRAMS PER LITER

1.3 Area Description and Summary of Environmental Findings

1.3.1 Area Description

This work plan specifically deals with the southern portion or Rod Mill Parcel (Subdivision Parcel 5) of the Central Core site (Figure 1-1). The remediation of the adjoining Roadway Property is the responsibility of the City of Rome.

As shown on Figure 1-1, the Rod Mill Parcel is comprised of sections of Building 11, Building 13, and the area to the south of these buildings up to the property owned by the New York State Canal Corporation along the Mohawk River/Barge Canal (the river and canal flow together at this location). Subsurface utilities include several process sumps, trenches and tanks, and the storm sewer system connecting the site to the canal. A portion of a utility tunnel connecting Building 34 (the Mosca warehouse) and Building 13 to the boiler house is also included in this area. This tunnel is believed to be no longer present based on field inspections and discussions with Mosca employees.

The storm sewer system on the Rod Mill Parcel consists of a series of shallow catch basins, former process drains and roof drains, which drain into a deeper (12 to 14 feet deep) sewer system that then discharges to two outfalls at the canal. Two laboratory samples were collected during the Phase II Investigation from the storm sewer system. Water at U13-4 was found to contain a slight hydrocarbon sheen. Water from Ul1-5 had a slight petroleum odor. Results of the chemical analysis for each of these samples indicate that trace (less than 1 ug/L) levels of PCB 1260 were present, and all volatile or semi-volatile organics were below the method quantification limits.

The floor in Building 11 contains numerous concrete process vaults. These vaults formed a system of weirs, which were used to capture metal particles in process water so that they could be recycled. No visual or olfactory evidence of contamination were found in the subfloor vaults in the central area of Building 11, including sample locations Ul1-10, U11-4 and U11-9. At sample location U11-1, an underground storage sump was found to contain approximately 100 gallons of LNAPL and 700 gallons of water. Infrared (IR) spectral analysis of the LNAPL indicated the presence of a lubricating or cutting oil.

At sample location Ul1-2, a similar sump was found which contained water and traces of a hydrocarbon sheen. A sample of the standing water in the sump was sent to the laboratory for chemical analysis. The results indicated that no significant concentrations of chemicals of interest were detected (chemicals of interest are BTEX, TCE, PAHs and metals).

A concrete sump or foundation in Building 13 was located during this investigation (U13-l). No reference to this structure was included in the available historical drawings of the General Cable facility. According to a former General Cable employee, the sump contained a mixture of tallow and soap.

The sump is constructed of poured concrete and is approximately 25 feet long, 20 feet wide and 15 feet deep. It contains standing water and several feet of sludge at its base. A wood-frame floor which originally covered the sump has partially collapsed into the sump. No visual evidence of contamination was observed in the standing water. The laboratory sample from this location was taken from the sludge at the base of the sump. Results of the chemical analysis indicate that PCB 1260 is present in a concentration of 1,020 mg/Kg; lead was found in a concentration of 825 mg/Kg.

A 150,000 gallon aboveground fuel oil storage tank and an oil pump house were formerly located at the southeastern corner of this parcel. The tank was removed in late 1996; however, no records exist for when the pump house was removed. Hydrocarbon impacts were found in the soil and groundwater associated with these structures during the Phase II Investigation. The extent of impact was not determined.

A test pit was excavated to expose the storm sewer line which crosses this area from the north to south. It was observed that the bedding material surrounding the pipe is impacted by hydrocarbons. Analysis of the soil adjacent to the pipe found that the concentrations of hydrocarbon compounds were below the petroleum cleanup standards.

1.3.2 Summary of Environmental Findings

The following presents the key environmental findings and their significance for the redevelopment of the Rod Mill Parcel. These findings were summarized from the Phase II Site Investigation Report [RETEC, 1997a] and the Site Investigation for the Roadway Property conducted under the NYSDEC municipal brownfield program [RETEC, 1997b]. The laboratory results from samples taken within the Rod Mill Parcel are shown in Appendix A.

- The property is covered by buildings and pavement; soils are not exposed.

- Soil samples from the soil borings contained elevated (that is, above naturally-occurring levels) concentrations of metals. The buildings and concrete pavement prevent exposure from the soil, thereby eliminating potential exposures and risk which might be posed by the elevated metal concentrations.

- No significant soil contamination by volatile organic compounds was detected inside the Rod Mill building (Building 11). Low levels of benzene, toluene, TCE, and 1,1 dichloroethene (each less than 25 ug/Kg) were detected in the soil at SB-8, but these constituents were not present in the groundwater or in the two soil gas samples at this location.

- A major storm sewer line enters Building 11 along its western wall. This line drains two storm sewer sumps on the City Roadway Property with sludge containing PCB 1260 above 50 mg/Kg.

- One process area sump in Building 13 (UB-1) contains sludge with PCB 1260 above 50 mg/Kg. No indication of leakage to the environment was observed to be associated with this structure based upon soil and groundwater conditions down-gradient at soil boring SB-8.

- A concrete sump was found to contain water and lubricating oil at the southwest side of the Rod Mill building (Building 11). Soil beneath this sump has been impacted by hydrocarbons, as seen in boring SB-9.

- Groundwater containing chlorinated solvent compounds which exceed NYSDEC drinking water standards is located beneath the paved yard at the south end of the Rod Mill parcel. The maximum total concentration (sum of compounds detected) has been found to be less than 2 mg/L, with concentrations of individual compounds each less than 1 mg/L.

- The Site Investigation for the Roadway Property reported that the source of the solvent contamination was not on the Roadway Property, within the Rod Mill building, any other location on the Rod Mill Parcel or any other upgradient location. It was concluded from the SI investigation that the solvent was discharged directly in the area where it was currently observed, or that it migrated to this location sufficiently long ago that a connection to the source area can no longer be found.

- The soil gas survey performed by Empire Soils found that the impacted groundwater south of Buildings 11 and 13 did not generate detectable concentrations of volatile chlorinated compounds in the soil gas at the sampling depth of three feet below the ground surface.

- Fuel oil has impacted the soil and groundwater in the vicinity of the former aboveground storage tank and pump house at the southeast side of this parcel. The extent of soil and water impact has not been defined, though the maximum total concentration of BTEX and PAHs in groundwater at this location was measured to be less than 0.2 mg/L and 2 mg/L, respectively.

- Soil associated with the storm sewer line which passes through this area is impacted by petroleum; however, concentrations of constituents are below soil cleanup standards (STARS Memo #1). The bedding material and groundwater associated with a parallel storm sewer line located 120 feet west of this line was found to be uncontaminated.

The Phase II report for the Central Core Area of the East Rome Business Park has been reviewed by the New York State Department of Health (NYSDOH). In its letter of April 22, 1997 commenting on the draft Phase II report, NYSDEC indicated that NYSDOH has concluded that the concentrations of metals and organic compounds in the soil at the site would not pose a risk for future commercial site development, provided that a cap was maintained over the soil, and that a deed restriction limiting site use to commercial or industrial was put in place.

1.4 Work Plan Organization

The remainder of this work plan is divided into four main sections. Section 2.0 describes the scope of work of the remedial activities. Section 3.0 describes the information that will be included in a closure report which will describe the work performed and document the performance of the remedial activities. Section 4.0 presents the proposed schedule for conducting the remedial activities. Section 5.0 presents a list of references used in preparing this work plan.

2.0 SCOPE OF WORK

This section presents the specific activities planned for the remediation of the Rod Mill Parcel, including a description of the additional data needs, institutional controls, and remedial actions. It should be also noted here that, prior to any site development activities, a site specific health and safety plan (HASP) will be prepared based on the existing plan for investigation activities. This plan outlines the safety procedures for the construction workers and steps to be taken to minimize any off-site impacts during remedial activities at the Rod Mill Parcel.

The remedial actions are based on the following goals specified by NYSDEC during review of the findings of the Phase II investigation and the data generated in the course of the City's roadway brownfield remedial program:

1) Prevention of the migration of PCBs and copper to groundwater and to the Mohawk River. PCBs have been found in sediments within process pits and piping, and within the storm sewer system. Copper and other metals associated with past industrial practices at the site are found in the soil and the storm sewer system. Water quality conditions in the Barge Canal and Mohawk River are such that a discharge limit of non-detect for PCBs and copper has been established for the area by the NYSDEC Division of Water. A goal of the remedial program will therefore be to remove all materials from the utility systems which contain copper above background conditions or with trace levels of PCBs where these materials have the potential to be transported to surface water.

2) Prevention of off-site migration of impacted groundwater via man-made conduits. There are concerns that impacted groundwater may leave the site through bedding materials associated with utility lines installed at or below the water table. Investigations of the utility lines have not identified any areas where this is a concern on the Rod Mill Parcel except in the area of the former aboveground oil storage tank.

3) Prevention of migration of contaminants onto the City of Rome Roadway Property. The potential risk of contaminants migrating onto the Roadway Property must be eliminated. The prevention of contaminants running on to the Roadway Property will require the remedial program to address migration pathways on the Rod Mill Parcel, namely the storm sewer system.

2.1 Remedial Activities

This section describes the remedial actions to be taken on the Rod Mill Parcel to address specific concerns identified by the site investigations. Activities anticipated to be performed by the City of Rome under the NYSDEC municipal brownfield program for the Roadway Property are identified, because they are part of the remedial plans for the parcel. Activities to be undertaken by the City include:

- Asbestos abatement in Buildings 11 and 13 (see Section 2.1.1).
- Sump clean out in Building 13 (see Section 2.1.2).
- Storm sewer clean out and abandonment of lines which drain on to the Roadway Property (Figure 2-1), (refer to Section 2.1.4 & 2.1.6).

Activities to be undertaken by the property owner include:

- Clean out of oil sump in Building 11 followed by remediation of petroleum impacted soil (according to STARS guidelines), (see Section 2.1.3).

- Clean out of storm sewer lines (Figure 2-1), (see Section 2.1.4 & 2.1.6).
- Investigation and remediation of petroleum impacted soil associated with fuel oil tank and pump house, (see Section 2.1.5).
- Investigation + remediation of the TCE plumes + any migration pathway off site.

Site features to be addressed by the remedial work plan are identified on Figure 2-1.

Schedule

The remedial actions planned for the Rod Mill Parcel will be closely coordinated with activities performed within the remainder of the Central Core Area. The objective of this work plan is to complete remedial actions in a sequence which will ensure that areas identified for clean up will not be recontaminated by activities undertaken at upgradient locations or at the parcel perimeter, and to allow for remedial work to be completed efficiently throughout the site. Remedial activities will be completed according to the following sequence: 1) the City will complete asbestos abatement, building demolition, complete the clean out of tunnels and clean or abandon upgradient utility lines and storm sewer lines around the perimeter (Roadway Property) and, 2) the site owner will then complete the storm sewer clean out. The lube oil sump remediation and the fuel oil tank and pump house investigation and remediation may be performed independent of the city remedial program.

2.1.1 Demolition and Asbestos Removal

Former General Cable Building 13 and the northern portion of Building 11 on the Rod Mill Parcel are to be demolished in order to make way for site redevelopment. Building demolition and asbestos abatement will be performed in accordance with New York Department of Labor regulations. Pending NYSDEC approval, this work shall be performed by the City of Rome under the municipal brownfield program, because the Roadway Property cuts through both buildings.

In order to demolish Building 13 safely, the open sump in this building which contains water and sediment with elevated concentrations of PCBs must be remediated (described below in Section 2.1.2) prior to building demolition.

2.1.2 Clean Out of Sump - Building 13

The debris and water in the sump (sampling location U13-1) in Building 13 will be removed. To gain access to the sump, the collapsed wooden floor, interior office walls, and other materials covering part of the sump will be removed manually with equipment such as a skidloader. Water and sludge will then be pumped into a vacuum truck for shipment off-site. The results of the previous analysis will be used to select a disposal facility for the water and sludge. As necessary, the recovered waste materials will be retested to confirm their composition and regulatory status.

Following emptying, the sump will be cleaned using a high pressure water wash. More aggressive cleaning techniques (such as using hot water or steam cleaning, or manual cleaning) will be employed if residual waste materials present on the surfaces of the structure cannot be removed by the high pressure wash. The wash water will also be vacuumed out and sent off-site for disposal.

2.1.3 Clean Out of Lube Oil Sump

The oil and water contained in the lube oil sump and associated piping and structures inside the western wall of Building 11 will be removed and the structures cleaned or removed. Soil which has been impacted by hydrocarbons from the sump or piping will be tested and compared with the cleanup criteria for petroleum spills (NYSDEC's STARS Memo #1). Remediation of soils at this location will be by removal and off-site disposal. This building is to be maintained for reuse; therefore, soils which cannot be excavated due to the proximity of the sump to the wall of the building will be managed in place.

2.1.4 Utility Lines and Manways

All utility lines at the site which are to be reused on a permanent or interim basis will be cleaned to remove accumulations of sediments or sludge. Utility lines, sumps, and manways which have been identified by the site investigations are indicated on Figure 2-1.

Two types of utility lines are present on this parcel: lines which are contained within conduits or structures such as the utility tunnel and lines buried in the ground. Abandoned lines within the structures will be removed during site demolition and remediation.

The storm sewer lines which drain the driveway between Buildings 11 and the Mosca garage building will not be reused. It is anticipated that these lines will be removed by the City of Rome under the remediation of the Roadway Parcel due to their potential impact on the Roadway Property.

A specific target of this phase of work is the storm sewer line which drains sump U38-2 on the Roadway Property. This storm sewer line contains sediments with elevated concentrations of PCBs and metals. This line will be cleaned to remove any accumulated solids and liquids following the installation of the new city storm sewer line. The decision regarding whether to abandon or continue using this line will be based on the redevelopment plans for Building 11 and the Rod Mill Parcel.

The storm sewer line which runs beneath Building 13 may be used on an interim basis for stormwater drainage of the northern portion of the Roadway Property. This line will also be cleaned prior to reuse. The decision to abandon this line or continue its use will be based on the development plans for the Rod Mill Parcel.

2.1.5 Former Fuel Oil Tank and Pump House

Soil samples and groundwater testing during RETEC's Phase II investigation found that soil and groundwater in the vicinity of the fuel oil tank and pump house were impacted with petroleum constituents. The extent of the impacted soil and groundwater was not determined during the Phase II sampling. An additional investigation will be completed within this study area to determine the extent of soil contamination which exceeds NYSDEC soil cleanup standards. The investigation will include the following:

- Permission to access the property between the Rod Mill Parcel and the Mohawk River will be requested from the New York State Canal Corporation.
- Underground utilities will be identified by contacting the Underground Facilities Protection Organization. The gas line and water line which are present in this area will be clearly marked prior to any subsurface drilling.
- Direct push soil borings will be completed with a truck mounted drilling rig to a depth of approximately twenty feet below ground surface (below the elevation of the water table).
- Continuous soil samples will be collected from ground surface to the total depth of each borehole.
- Soil samples will be visually characterized (Unified Soil Classification System) by a field geologist and screened for the presence of organic vapors using a photo-ionization detector (PID) and the jar headspace method of analysis. Water samples will be collected with a bailer and screened using the jar headspace method.
- Sampling will follow an "inside out" approach starting at the boring locations completed during the Phase II Investigation. Sampling will then move away from each area until soil and water samples do not exhibit significant visual, olfactory or photo-ionization detector evidence of petroleum constituents.
- Soil samples will be collected and sent to the laboratory. The locations of the samples will be determined in the field by the field geologist. The goal of the sampling will be 1) to characterize the impacted soils, and 2) to assess the extent of the contamination. Samples will be analyzed by EPA Methods 8021 and 8270 (STARS Parameters).
- The results of the field screening of soil and water samples will be used to locate three additional boring locations. At each location, direct push methods will be used to install a temporary well point. The well points will be located with the goal of obtaining groundwater samples which are representative of the impacted study area.
- Well points will be constructed of 10 feet of 1 inch PVC slotted well screen threaded to a solid PVC riser and placed within a 2 inch diameter borehole. The screen will be placed so that it will intercept the water table (3 feet above, 7 feet below). The borehole will be temporarily cased as necessary to ensure that the borehole remains open during well point construction. A surface seal of bentonite chips will be placed around each PVC riser and hydrated to prevent surface infiltration into the borehole.

- The well points will be developed by pumping with a peristaltic pump or equivalent.

- Following a stabilization period of one week, depth to water measurements will be obtained. The elevation (MSL) of the water table in each well point will be determined by a survey. Elevations will be found using existing benchmarks at the site (nearby wells).

- Wells will be sampled with the peristaltic pump. The samples will be analyzed for USEPA Methods 8021 and 8270 as specified by STARS Memo #1.

Following the completion of this investigation the results of the soil and groundwater testing will be evaluated according to STARS Memo #1. A soil and/or groundwater remedial plan will be developed, if necessary.

2.1.6 Utility Line Abandonment

All utility lines which will not be reused will be abandoned. Abandonment will be by either cutting and capping the lines in place, or by removal. The method of abandonment will be selected during the development of site redevelopment plans. Lines which are shown to act as conduits for contaminated groundwater flow will be abandoned so that the groundwater migration pathway is removed. (Based on the investigation of the utility lines on the Rod Mill Parcel, the only line where this potential exists is within the petroleum impacted zone associated with the former AST.) This will be accomplished by creating a barrier to groundwater flow with a low permeability material, or by removal of the line and backfilling the utility trench with soil with a permeability equal to or lower than that of the surrounding soil. Lines on the Rod Mill Parcel to be remediated under the Roadway municipal brownfield program will be abandoned by removal.

2.1.7 Groundwater

Soil, soil gas, and groundwater were investigated during the Roadway SI to assess the source and distribution of chlorinated solvents (TCE). The Phase II investigation and SI found that the source of the solvents was not on the Roadway Property, within the Rod Mill building, any other area on the Rod Mill Parcel or any other upgradient direction. No remedial measures are proposed to remove the trace levels of TCE and related compounds which are present on the Rod Mill Parcel.

However, groundwater remediation may be necessary if unanticipated conditions are encountered during the remediation of the lube oil sump, investigation of the AST area, or during excavation for the site construction activities.

2.2 Institutional Controls

As discussed in Section 1, the concentration of metals in the soil and groundwater within the Rod Mill Parcel are acceptable for commercial/industrial site use if a cap is maintained. The cap should consist of a building foundation, concrete or asphalt pavement, or a minimum of six inches of topsoil or clean fill. To ensure that increased exposure to the soils does not occur without proper review, a deed restriction will be placed on the site to specify the allowable future site use as a commercial/industrial property, and to specify that the groundwater not be used for industrial processes without prior NYSDEC approval. (Note that the use of site groundwater for drinking water is prohibited by state law due to the presence of an active municipal water supply system [New York State Uniform Fire Prevention and Building Code 9 NYCRR 902.1(a)].

New water and sewer lines will be installed with the City of Rome Roadway Property to service the site. The city roadway which crosses the central core area will be permanently capped by the road and associated sidewalks and landscaping.

2.3 Decontamination

All field equipment (i.e., backhoe, hand tools) will be broom cleaned, and high pressure water washed or steam cleaned following use. The equipment will be cleaned over a temporary decontamination pad constructed so that water that is generated during the cleaning process is contained. The fluids generated during this cleaning process will be containerized in Department of Transportation (DOT) 55-gallon drums or other suitable tanks, or vacuumed with the vac truck for disposal at the selected off-site disposal facility. Any personal protective equipment (PPE), and the plastic sheeting used to construct the decontamination pad, will be disposed of at a selected landfill as non-hazardous waste.

3.0 REMEDIATION DOCUMENTATION

Following completion of the remediation by both the property owner and the City of Rome, a single closure report will be prepared to document the remedial actions. This report will summarize the work performed including procedures used, volume of material removed, analytical results, and manifests or bills of lading for final disposition. The closure report will contain a certification by the project engineer that the work was performed in accordance with this Department-approved Work Plan. The closure report will be submitted to NYSDEC for approval under the terms of the Voluntary Remedial Agreement.

4.0 IMPLEMENTATION SCHEDULE

The implementation of this work plan will be in several stages. The schedule for conducting remedial actions related to the storm sewer system for the property will be based upon the scheduling of remediation activities to be performed by the City of Rome on the Roadway Property. All upgradient storm sewers which drain from the city Roadway Property to the Rod Mill Parcel must be remediated before sewer remediation can be performed on the site. The supplemental investigation and remediation of the sumps and petroleum impacted soil will occur at any time during the site remedial program. The schedule for performing the remedial measures on the Rod Mill Parcel will be based on the timing necessary for site renovation and reoccupation, and on the timing of remediation of structures which influence two or more properties (such as utility lines which cut across property boundaries). All remedial work will be performed prior to site redevelopment.

5.0 REFERENCES

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APPENDIX A

SUMMARY OF LABORATORY RESULTS

Table B-1
Summary of Surface Soil Analytical Results

Name	NYSDEC Recommended Soil Cleanup Objective[1]	SS1 (0-0.3) 12/11/96	SS2 (0-0.3) 12/11/96	SS3 (0-0.3) 12/11/96	SS4 (0-0.3) 12/11/96	SS5 (0-0.3) 12/11/96	SS6 (0-0.3) 12/11/96	SS7 (0-0.3) 12/11/96	SS8 (0-0.3) 12/11/96	SB5 (1-2) 12/19/96
TOTAL SOLIDS (%)		81.56	69.49	71.02	85.71	83.71	82.9	82.22	65.02	75.26
Metals (mg/Kg)										
ANTIMONY	SB	3.04 U	8.19	14.6	17.2	3.21 U	3.91	NA	NA	NA
ARSENIC	7.5 /SB	2.2	50.7	1.4 U	9.8	2.2	8.9	NA	NA	NA
BERYLLIUM	0.16 /SB	0.443	0.256 U	0.251 U	0.257	0.245	0.535	NA	NA	NA
CADMIUM	1 /SB	0.58 U	1.1	0.69 U	1.3	0.58 U	1.8	NA	NA	NA
CHROMIUM	10 /SB	12.7	11.3	12.6	9.43	6.71	16.2	NA	NA	NA
COPPER	25 /SB	72.5	1680	659	325	32.2	2320	NA	NA	NA
LEAD	SB	22.9	305	70.3	193	22.4	1190	NA	NA	NA
MERCURY	0.1	0.04	0.12	0.03	0.07	0.19	0.19	NA	NA	NA
NICKEL	13 /SB	20.7	10.6	8.09	15.4	10.4	26.9	NA	NA	NA
SELENIUM	2 /SB	0.58 U	2.1	0.69 U	0.56 U	0.58 U	0.57 U	NA	NA	NA
SILVER	SB	0.652 U	0.768 U	0.753 U	0.706 U	0.689 U	0.723 U	NA	NA	NA
THALLIUM	SB	1.2 U	1.3 U	1.4 U	1.1 U	1.2 U	1.1 U	NA	NA	NA
ZINC	20 /SB	112	586	122	266	52.5	1260	NA	NA	NA
PCBs (mg/Kg)										
PCB 1016	1 (Sum of all PCBs)	NA	NA	NA	NA	NA	NA	0.2 U	1.5 U	0.1 U
PCB 1221		NA	NA	NA	NA	NA	NA	0.2 U	1.5 U	0.1 U
PCB 1232		NA	NA	NA	NA	NA	NA	0.2 U	1.5 U	0.1 U
PCB 1242		NA	NA	NA	NA	NA	NA	0.2 U	1.5 U	0.1 U
PCB 1248		NA	NA	NA	NA	NA	NA	0.2 U	1.5 U	0.1 U
PCB 1254		NA	NA	NA	NA	NA	NA	0.2 U	1.5 U	0.1 U
PCB 1260		NA	NA	NA	NA	NA	NA	1.3	7.8	0.1 U

Notes:
NA = Not analyzed/Not available
U = The material was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.
J = The associated numerical value is an estimated quantity.
B = For organic data, the analyte is present in the associated method blank as well as in the sample.
MDL = Method Detection Limit
NL = Not listed
SB = Site Background
[1] NYSDEC Division of Hazardous Waste Remediation TAGM 4046

Table B-2
Summary of Subsurface Soil Analytical Results

Name	NYSDEC Recommended Soil Cleanup Objective[1]	MW14 (0-0.3) 12/11/96	MW15 (1-1.3) 12/11/96	MW16 (1-1.3) 12/12/96	MW17 (0-0.3) 12/10/96	SB1 (10-12) 12/18/96	SB2 (16-18) 12/18/96	SB3 (2-4) 12/19/96	SB4 (1-3) 12/19/96
TOTAL SOLIDS (%)		79.68	84.92	77.72	87.62	72.72	81.99	71.51	77.21
MOISTURE (%)		NA	NA	NA	NA	27.28	18.01	28.49	27.79
T. ORGANIC CARBON (mg/Kg)		NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/Kg)									
ANTIMONY	SB	7.49	77.7	3.83 U	13.6	3.25 U	3.32 U	3.88 U	16
ARSENIC	7.5 /SB	6.9	72.6	3.2	7	3	4.5	1.7	8.3
BERYLLIUM	0.16 /SB	0.494	0.306	0.844	0.273	0.8	0.425	0.847	0.532
CADMIUM	1 /SB	0.59 U	0.58 U	0.66 U	1.3	0.58 U	0.53 U	0.68 U	0.65 U
CHROMIUM	10 /SB	7.94	46.4	20.6	18.1	19.1	12.4	18.6	13.2
COPPER	25 /SB	491	291	42.6	272	66.7	27.9	771	842
LEAD	SB	106	236	81.5	138	19	3.4	22	27.7
MERCURY	0.1	0.08	0.1	0.06	0.14	0.04	0.018	0.06	0.17
NICKEL	13 /SB	10.8	9.14	30.9	12.5	30	21.7	25	16
SELENIUM	2 /SB	0.59 U	1.5	0.66 U	0.58 U	0.58 U	0.53 U	0.68 U	0.65 U
SILVER	SB	0.714 U	0.681 U	0.821 U	0.588 U	0.696 U	0.833	0.832 U	0.783 U
THALLIUM	SB	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.1 U	1.4 U	1.3 U
ZINC	20 /SB	105	44.5	67.9	171	79.6	44.6	59.7	41.7
PAHs (mg/Kg)									
NAPHTHALENE	13	1.5	0.62	0.32 U	1.3 J	1.1	0.22 J	0.33 U	0.31 U
ACENAPHTHYLENE	41	1.6	0.59 U	0.32 U	0.98 J	0.32 U	0.29 U	0.33 U	0.31 U
ACENAPHTHENE	50	0.35 J	0.59 U	0.32 U	1.4 U	1.1	0.59	0.33 U	0.31 U
FLUORENE	50	0.65 J	0.12 J	0.32 U	1.4 U	1.1	0.57	0.33 U	0.31 U
PHENANTHRENE	50	9	1.3	0.32 U	3.7	2.2	0.96	0.33 U	0.31 U
ANTHRACENE	50	1.5 J	0.59 U	0.32 U	0.68 J	0.11 J	0.29 U	0.33 U	0.31 U
FLUORANTHENE	50	14	0.48 J	0.32 U	6	0.07 J	0.29 U	0.33 U	0.31 U
PYRENE	50	24	0.51 J	0.32 U	7.9	0.36	0.16 J	0.33 U	0.31 U
BENZ(A)ANTHRACENE	0.224 MDL	10	0.29 J	0.32 U	4.9	0.32 U	0.29 U	0.33 U	0.31 U
CHRYSENE	0.4	9.8	0.47 J	0.32 U	5	0.32 U	0.29 U	0.33 U	0.31 U
BENZO(B)FLUORANTHENE	1.1	11 **	0.32 J	0.32 U	6	0.32 U	0.29 U	0.33 U	0.31 U
BENZO(K)FLUORANTHENE	1.1	3.3 **	0.13 J	0.32 U	2.2	0.32 U	0.29 U	0.33 U	0.31 U
BENZO(A)PYRENE	0.061 MDL	8.3 **	0.26 J	0.32 U	4.6	0.32 U	0.29 U	0.33 U	0.31 U
INDENO(1,2,3-CD)PYRENE	3.2	3.4 **	0.59 U	0.32 U	2.2	0.32 U	0.29 U	0.33 U	0.31 U
DIBENZO(A,H)ANTHRACENE	0.014 MDL	1.5 **J	0.59 U	0.32 U	0.87 J	0.32 U	0.29 U	0.33 U	0.31 U
BENZO(GHI)PERYLENE	50	3.8 **	0.59 U	0.32 U	2.3	0.32 U	0.29 U	0.33 U	0.31 U
VOCs (mg/Kg)									
CHLOROMETHANE	NL	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.011 U	0.0108 U
VINYL CHLORIDE	0.2	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.011 U	0.0108 U
CHLOROETHANE	1.9	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.011 U	0.0108 U
BROMOMETHANE	NL	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.011 U	0.0108 U
1,1-DICHLOROETHENE	0.4	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.021	0.0108 U
ACETONE	0.2	0.031 U	0.029 U	0.084	0.047 U	0.094	3.811 U	0.056 U	0.054 U
CARBON DISULFIDE	2.7	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.031	0.0108 U
METHYLENE CHLORIDE	0.1	0.007	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.011 U	0.019
TRANS-1,2-DICHLOROETHENE	0.3	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.011 U	0.0108 U
1,1-DICHLOROETHANE	0.2	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.011 U	0.0108 U
CIS-1,2-DICHLOROETHENE	NL	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.011 U	0.0108 U
2-BUTANONE (MEK)	0.3	0.031 U	0.029 U	0.032 U	0.047 U	0.053 U	3.811 U	0.056 U	0.054 U
CHLOROFORM	0.3	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.011 U	0.0108 U
1,1,1-TRICHLOROETHANE	0.8	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.011 U	0.0108 U
CARBON TETRACHLORIDE	0.6	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.011 U	0.0108 U
BENZENE	0.06	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.019	0.0108 U
1,2-DICHLOROETHANE	0.1	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.011 U	0.0108 U
TRICHLOROETHENE	0.7	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.019	0.0108 U
1,2-DICHLOROPROPANE	0.3	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.011 U	0.0108 U
BROMODICHLOROMETHANE	NL	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.011 U	0.0108 U
CIS-1,3-DICHLOROPROPENE	0.3	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.011 U	0.0108 U
4-METHYL-2-PENTANONE (MIBK)	1	0.012 U	0.012 U	0.013 U	0.019 U	0.021 U	1.52 U	0.022 U	0.022 U
TOLUENE	1.5	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.022	0.0108 U
TRANS-1,3-DICHLOROPROPENE	NL	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.011 U	0.0108 U
1,1,2-TRICHLOROETHANE	NL	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.011 U	0.0103 U
TETRACHLOROETHENE	1.4	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.011 U	0.0108 U
2-HEXANONE	NL	0.012 U	0.012 U	0.012 U	0.019 U	0.021 U	1.52 U	0.022 U	0.022 U
DIBROMOCHLOROMETHANE	NA	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.011 U	0.0108 U
CHLOROBENZENE	1.7	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.013	0.0108 U
ETHYLBENZENE	5.5	0.0062 U	0.006 U	0.006 U	0.0093 U	0.11	0.762 U	0.011 U	0.0108 U
P-XYLENE/M-XYLENE	1.2 *	0.0062 U	0.006 U	0.006 U	0.0093 U	0.16	0.762 U	0.011 U	0.0108 U
O-XYLENE	1.2	0.0062 U	0.006 U	0.006 U	0.0093 U	0.026	0.762 U	0.011 U	0.0108 U
STYRENE	NL	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.011 U	0.0108 U
BROMOFORM	NL	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.011 U	0.0108 U
1,1,2,2-TETRACHLOROETHANE	0.6	0.0062 U	0.006 U	0.006 U	0.0093 U	0.01 U	0.762 U	0.011 U	0.0108 U
PCBs (mg/Kg)									
PCB 1016	10 (Sum of all PCBs)	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1221		NA	NA	NA	NA	NA	NA	NA	NA
PCB 1232		NA	NA	NA	NA	NA	NA	NA	NA
PCB 1242		NA	NA	NA	NA	NA	NA	NA	NA
PCB 1248		NA	NA	NA	NA	NA	NA	NA	NA
PCB 1254		NA	NA	NA	NA	NA	NA	NA	NA
PCB 1260		NA	NA	NA	NA	NA	NA	NA	NA

Notes:

NA = Not analyzed/Not available

U = The material was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.

J = The associated numerical value is an estimated quantity.

B = For organic data, the analyte is present in the associated method blank as well as in the sample.

** = Results Are Possible Biased High Due To Chromatographic Interference

MDL = Method Detection Limit

* = Each isomer

NL = Not listed

SB = Site Background

[1] NYSDEC Division of Hazardous Waste Remediation TAGM 4046

Table B-2 (cont.)
Summary of Subsurface Soil Analytical Results

Name	NYSDEC Recommended Soil Cleanup Objective[1]	SB5 (2-4) 12/19/96	SB6 (4-6) 12/19/96	SB7 (1.0-2.0) 12/17/96	SB8 (8-10) 12/18/96	SB9 (6-8) 12/19/96	SB10 (2-4) 12/17/96	SB11 (0.5-1) 12/17/96	SB12 (9-11) 12/14/96
TOTAL SOLIDS (%)		73.64	71.7	83.59	71.34	66.17	69.14	78.78	73.04
MOISTURE (%)		26.36	28.3	16.41	28.66	33.83	30.86	21.22	26.96
T. ORGANIC CARBON (mg/Kg)		NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/Kg)									
ANTIMONY	SB	3.98 U	3.44 U	3.34 U	3.81 U	4.33 U	3.82 U	3.27 U	3.77 U
ARSENIC	7.5 /SB	25	4.3	5.4	6.8	4.7	4.4	7.4	4.6
BERYLLIUM	0.16 /SB	0.718	0.687	0.808	0.972	0.615	1.02	0.773	0.481
CADMIUM	1 /SB	0.59 U	0.6 U	0.54 U	0.72 U	0.8	0.77 U	1.6	3.8
CHROMIUM	10 /SB	19.1	18.9	17	24.4	26.5	23.2	20	7.36
COPPER	25 /SB	36.3	1650	1810	39.3	481	43.1	109	1460
LEAD	SB	17.9	33.3	57.9	15.8	16.1	14.7	44.3	198
MERCURY	0.1	0.046	0.072	0.079	0.066	0.062	0.071	0.068	0.062
NICKEL	13 /SB	33.4	28	25	36.3	32.3	46.4	30	10.2
SELENIUM	2 /SB	0.59 U	0.6 U	0.54 U	0.72 U	0.8 U	0.77 U	0.61 U	0.74 U
SILVER	SB	0.854 U	0.737 U	0.716 U	0.817 U	0.927 U	0.818 U	0.701 U	0.808 U
THALLIUM	SB	1.2 U	1.2 U	1.1 U	1.4 U	1.6 U	1.5 U	1.2 U	1.5 U
ZINC	20 /SB	71.8	79.3	125	82.3	78.7	85.2	136	440
PAHs (mg/Kg)									
NAPHTHALENE	13	0.33 U	0.31 U	2.3	0.35 U	0.34 U	0.36 U	0.31 U	0.16 J
ACENAPHTHYLENE	41	0.33 U	0.31 U	0.29 U	0.35 U	0.34 U	0.36 U	0.31 U	0.63 U
ACENAPHTHENE	50	0.33 U	0.31 U	0.13 J	0.07 J	0.34 U	0.36 U	0.31 U	0.63 U
FLUORENE	50	0.33 U	0.31 U	0.13 J	0.15 J	0.34 U	0.36 U	0.31 U	0.12 J
PHENANTHRENE	50	0.33 U	0.31 U	1.7	0.35 U	0.34 U	0.36 U	0.31	1.3
ANTHRACENE	50	0.33 U	0.31 U	0.18 J	0.35 U	0.34 U	0.36 U	0.31 U	0.25 J
FLUORANTHENE	50	0.33 U	0.31 U	0.82	0.35 U	0.34 U	0.36 U	0.2 J	1.3
PYRENE	50	0.33 U	0.31 U	0.88	0.25 J	0.34 U	0.36 U	0.2 J	1.1
BENZ(A)ANTHRACENE	0.224 MDL	0.33 U	0.31 U	0.55	0.35 U	0.34 U	0.36 U	0.12 J	0.63
CHRYSENE	0.4	0.33 U	0.31 U	0.68	0.35 U	0.34 U	0.36 U	0.13 J	0.66
BENZO(B)FLUORANTHENE	1.1	0.33 U	0.31 U	0.53	0.35 U	0.34 U	0.36 U	0.14 J	0.68
BENZO(K)FLUORANTHENE	1.1	0.33 U	0.31 U	0.18 J	0.35 U	0.34 U	0.36 U	0.31 U	0.29 J
BENZO(A)PYRENE	0.061 MDL	0.33 U	0.31 U	0.4	0.35 U	0.34 U	0.36 U	0.11 J	0.53 J
INDENO(1,2,3-CD)PYRENE	3.2	0.33 U	0.31 U	0.23 J	0.35 U	0.34 U	0.36 U	0.31 U	0.25 J
DIBENZO(A,H)ANTHRACENE	0.014 MDL	0.33 U	0.31 U	0.11 J	0.35 U	0.34 U	0.36 U	0.31 U	0.63 U
BENZO(GHI)PERYLENE	50	0.33 U	0.31 U	0.33	0.35 U	0.34 U	0.36 U	0.31 U	0.25 J
VOCs (mg/Kg)									
CHLOROMETHANE	NL	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
VINYL CHLORIDE	0.2	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
CHLOROETHANE	1.9	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
BROMOMETHANE	NL	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
1,1-DICHLOROETHENE	0.4	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
ACETONE	0.2	0.056 U	0.056 U	0.028 U	0.054 U	0.06 U	0.058 U	0.28	0.09 B
CARBON DISULFIDE	2.7	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.026	0.06	0.0085 U
METHYLENE CHLORIDE	0.1	0.011 U	0.011 U	0.009	0.0107 U	0.014	0.02 B	0.013	0.02 B
TRANS-1,2-DICHLOROETHENE	0.3	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
1,1-DICHLOROETHANE	0.2	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
CIS-1,2-DICHLOROETHENE	NL	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
2-BUTANONE (MEK)	0.3	0.056 U	0.056 U	0.028 U	0.054 U	0.06 U	0.074 B	0.032 U	0.0425 U
CHLOROFORM	0.3	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
1,1,1-TRICHLOROETHANE	0.8	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
CARBON TETRACHLORIDE	0.6	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
BENZENE	0.06	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
1,2-DICHLOROETHANE	0.1	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
TRICHLOROETHENE	0.7	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
1,2-DICHLOROPROPANE	0.3	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
BROMODICHLOROMETHANE	NL	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
CIS-1,3-DICHLOROPROPENE	0.3	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
4-METHYL-2-PENTANONE (MIBK)	1	0.022 U	0.022 U	0.011 U	0.0107 U	0.024 U	0.023 U	0.013 U	0.017 U
TOLUENE	1.5	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
TRANS-1,3-DICHLOROPROPENE	NL	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
1,1,2-TRICHLOROETHANE	NL	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
TETRACHLOROETHENE	1.4	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
2-HEXANONE	NL	0.022 U	0.022 U	0.011 U	0.021 U	0.024 U	0.023 U	0.013 U	0.017 U
DIBROMOCHLOROMETHANE	NA	0.011 U	0.011 U	0.0056 U	0.0107 U	0.011 U	0.012 U	0.0063 U	0.0085 U
CHLOROBENZENE	1.7	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
ETHYLBENZENE	5.5	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
P-XYLENE/M-XYLENE	1.2 *	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
O-XYLENE	1.2	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
STYRENE	NL	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
BROMOFORM	NL	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
1,1,2,2-TETRACHLOROETHANE	0.6	0.011 U	0.011 U	0.0056 U	0.0107 U	0.012 U	0.012 U	0.0063 U	0.0085 U
PCBs (mg/Kg)									
PCB 1016	10 (Sum of all PCBs)	NA	NA	NA	NA	NA	NA	NA	0.1 U
PCB 1221		NA	NA	NA	NA	NA	NA	NA	0.1 U
PCB 1232		NA	NA	NA	NA	NA	NA	NA	0.1 U
PCB 1242		NA	NA	NA	NA	NA	NA	NA	0.1 U
PCB 1248		NA	NA	NA	NA	NA	NA	NA	0.1 U
PCB 1254		NA	NA	NA	NA	NA	NA	NA	0.68
PCB 1260		NA	NA	NA	NA	NA	NA	NA	

Notes:

NA = Not analyzed/Not available

U = The material was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.

J = The associated numerical value is an estimated quantity.

B = For organic data, the analyte is present in the associated method blank as well as in the sample.

** = Results Are Possible Biased High Due To Chromatographic Interference

MDL = Method Detection Limit

* = Each isomer

NL = Not listed

SB = Site Background

[1] NYSDEC Division of Hazardous Waste Remediation TAGM 4046

Table B-2 (cont.)
Summary of Subsurface Soil Analytical Results

Name	NYSDEC Recommended Soil Cleanup Objective[1]	SB13 (3-5) 12/14/96	SB14 (3-4) 12/17/96	SB15 (3-5) 12/14/96	SB16 (8-10) 12/14/96	SB17 (3-5) 12/14/96	SB18 (8-10) 12/14/96	SB19 (4-6) 12/18/96	SB20 (1.0-2.0) 12/17/96
TOTAL SOLIDS (%)		90.26	76.07	85.6	77.69	81.47	81.79	69.32	84.2
MOISTURE (%)		9.74	23.93	14.4	22.31	18.53	18.21	30.68	15.8
T. ORGANIC CARBON (mg/Kg)		0.65	NA	NA	NA	NA	NA	NA	NA
Metals (mg/Kg)									
ANTIMONY	SB	6.5 U	3.56 U	3.23 U	3.49 U	3.18 U	6.9 U	3.82 U	3.17 U
ARSENIC	7.5 /SB	4.7	5.1	14.1	7.4	5.9	6.9	2.7	3.4
BERYLLIUM	0.16 /SB	0.317	0.717	0.237	0.428	0.401	0.413	1.05	0.382
CADMIUM	1 /SB	73.4	2.7	21.6	8.13	8.13	55.9	1.4	0.59 U
CHROMIUM	10 /SB	7.56	18.2	6.04	7.39	20.2	16.6	24.1	12.7
COPPER	25 /SB	42900	1370	6990	1590	9270	17300	378	736
LEAD	SB	409	121	96.1	74.5	267	163	25.3	40.9
MERCURY	0.1	0.01 U	0.059	0.67	0.1	0.092	0.039	0.062	0.052
NICKEL	13 /SB	13.8	28.2	9.34	10.3	60	15.5	31.3	15.6
SELENIUM	2 /SB	1.1	0.65 U	0.87	0.78	0.53 U	0.58 U	0.73 U	0.59 U
SILVER	SB	6.62	0.911	2.27	0.748 U	1.93	2.18	0.819 U	0.678 U
THALLIUM	SB	2.3	1.3 U	1.1 U	1.2 U	1.1 U	1.2 U	1.5 U	1.2 U
ZINC	20 /SB	37300	1080	4200	1630	2450	20200	517	89.3
PAHs (mg/Kg)									
NAPHTHALENE	13	0.25 U	0.28 U	0.12 J	0.28 U	0.28 U	1.5 U	0.35 U	0.28 U
ACENAPHTHYLENE	41	0.25 U	0.28 U	0.28 U	0.28 U	0.28 U	1.5 U	0.35 U	0.28 U
ACENAPHTHENE	50	0.25 U	0.28 U	0.28 U	0.28 U	0.28 U	0.37 J	0.35 U	0.28 U
FLUORENE	50	0.25 U	0.28 U	0.28 U	0.28 U	0.28 U	1.5 U	0.35 U	0.28 U
PHENANTHRENE	50	0.08 J	0.12 J	0.74	0.17 J	0.16 J	5.4	0.35 U	0.28 U
ANTHRACENE	50	0.25 U	0.28 U	0.28 U	0.28 U	0.28 U	0.95 J	0.35 U	0.28 U
FLUORANTHENE	50	0.07 J	0.12 J	0.28	0.28 U	0.17 J	6.6	0.35 U	0.28 U
PYRENE	50	0.25 U	0.1 J	0.29	0.28 U	0.17 J	7.5	0.35 U	0.28 U
BENZ(A)ANTHRACENE	0.224 MDL	0.25 U	0.28 U	0.16 J	0.28 U	0.1 J	3.2	0.35 U	0.28 U
CHRYSENE	0.4	0.25 U	0.28 U	0.4	0.28 U	0.15 J	3.1	0.35 U	0.28 U
BENZO(B)FLUORANTHENE	1.1	0.25 U	0.28 U	0.26 J	0.28 U	0.11 J	3.7	0.35 U	0.28 U
BENZO(K)FLUORANTHENE	1.1	0.25 U	0.28 U	0.06 J	0.28 U	0.28 U	0.9 J	0.35 U	0.28 U
BENZO(A)PYRENE	0.061 MDL	0.25 U	0.28 U	0.16 J	0.28 U	0.07 J	2.7	0.35 U	0.28 U
INDENO(1,2,3-CD)PYRENE	3.2	0.25 U	0.28 U	0.08 J	0.28 U	0.28 U	1.3 J	0.35 U	0.28 U
DIBENZO(A,H)ANTHRACENE	0.014 MDL	0.25 U	0.28 U	0.28 U	0.28 U	0.28 U	1.5 U	0.35 U	0.28 U
BENZO(GHI)PERYLENE	50	0.25 U	0.28 U	0.13 J	0.28 U	0.28 U	1.5 J	0.35 U	0.28 U
VOCs (mg/Kg)									
CHLOROMETHANE	NL	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
VINYL CHLORIDE	0.2	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
CHLOROETHANE	1.9	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
BROMOMETHANE	NL	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
1,1-DICHLOROETHENE	0.4	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
ACETONE	0.2	0.026 U	0.046 U	0.029 U	0.032 U	0.03 U	0.029 U	0.2	0.028 U
CARBON DISULFIDE	2.7	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
METHYLENE CHLORIDE	0.1	0.006	0.029	0.0058 U	0.0064 U	0.006	0.0059 U	0.015	0.008
TRANS-1,2-DICHLOROETHENE	0.3	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
1,1-DICHLOROETHANE	0.2	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
CIS-1,2-DICHLOROETHENE	NL	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
2-BUTANONE (MEK)	0.3	0.026 U	0.046 U	0.029 U	0.032 U	0.03 U	0.029 U	0.058 U	0.028 U
CHLOROFORM	0.3	0.018	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
1,1,1-TRICHLOROETHANE	0.8	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
CARBON TETRACHLORIDE	0.6	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
BENZENE	0.06	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
1,2-DICHLOROETHANE	0.1	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
TRICHLOROETHENE	0.7	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
1,2-DICHLOROPROPANE	0.3	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
BROMODICHLOROMETHANE	NL	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
CIS-1,3-DICHLOROPROPENE	0.3	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
4-METHYL-2-PENTANONE (MIBK)	1	0.01 U	0.018 U	0.012 U	0.013 U	0.012 U	0.012 U	0.023 U	0.011 U
TOLUENE	1.5	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
TRANS-1,3-DICHLOROPROPENE	NL	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
1,1,2-TRICHLOROETHANE	NL	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
TETRACHLOROETHENE	1.4	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
2-HEXANONE	NL	0.01 U	0.018 U	0.012 U	0.013 U	0.012 U	0.012 U	0.023 U	0.011 U
DIBROMOCHLOROMETHANE	NA	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
CHLOROBENZENE	1.7	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
ETHYLBENZENE	5.5	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
P-XYLENE/M-XYLENE	1.2 *	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
O-XYLENE	1.2	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
STYRENE	NL	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
BROMOFORM	NL	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
1,1,2,2-TETRACHLOROETHANE	0.6	0.0054 U	0.0092 U	0.0058 U	0.0064 U	0.006 U	0.0059 U	0.0116 U	0.0055 U
PCBs (mg/Kg)									
PCB 1016	10 (Sum of all PCBs)	0.1 U	NA	NA	NA	NA	NA	NA	NA
PCB 1221		0.1 U	NA	NA	NA	NA	NA	NA	NA
PCB 1232		0.1 U	NA	NA	NA	NA	NA	NA	NA
PCB 1242		0.1 U	NA	NA	NA	NA	NA	NA	NA
PCB 1248		0.1 U	NA	NA	NA	NA	NA	NA	NA
PCB 1254		0.1 U	NA	NA	NA	NA	NA	NA	NA
PCB 1260		0.1 U	NA	NA	NA	NA	NA	NA	NA

Notes:

NA = Not analyzed/Not available

U = The material was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.

J = The associated numerical value is an estimated quantity.

B = For organic data, the analyte is present in the associated method blank as well as in the sample.

** = Results Are Possible Biased High Due To Chromatographic Interference

MDL = Method Detection Limit

* = Each isomer

NL = Not listed

SB = Site Background

[1] NYSDEC Division of Hazardous Waste Remediation TAGM 4046

Table B-3
Summary of Groundwater Analytical Results

Name	Groundwater Standard / Guidance Value	MW6D 12/20/96	MW6D (1-15-97) 1/15/97	MW6S 12/20/96	MW6S (1-15-97) 1/15/97	MW13D 12/20/96	MW13S 12/20/96	MW14 12/20/96	MW15 12/20/96	MW16 12/20/96	MW17 12/20/96
Total Metals (mg/L)											
ANTIMONY	0.003 g	0.028 U	NA	0.028 U	NA	0.028 U	0.029	0.029	0.065	0.035	0.028 U
ARSENIC	0.025 s	0.002 U	NA	0.008	NA	0.002 U	0.002 U	0.04	0.002 U	0.004	0.002
BERYLLIUM	0.003 g	0.002 U	NA	0.002 U	NA	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
CADMIUM	0.01 s	0.005 U	NA	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
CHROMIUM	0.05 s	0.01 U	NA	0.039	NA	0.01 U	0.01 U	0.078	0.01 U	0.016	0.01 U
COPPER	0.2 s	0.028	NA	0.164	NA	0.017 U	0.017 U	0.125	0.02	0.055	0.019
LEAD	0.025 s	0.003	NA	0.007	NA	0.004	0.003	0.019	0.001	0.009	0.004
MERCURY	0.002 s	0.0002 U	NA	0.0002 U	NA	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
NICKEL	NA	0.012 U	NA	0.057	NA	0.012 U	0.012 U	0.074	0.012 U	0.022	0.012 U
SELENIUM	0.01 s	0.002 U	NA	0.002 U	NA	0.002 U	0.002 U	0.002 U	0.002 U	0.005	0.002 U
SILVER	0.05 s	0.006 U	NA	0.006 U	NA	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
THALLIUM	0.004 g	0.01 U	NA	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
ZINC	0.3 s	0.05 U	NA	0.236	NA	0.05 U	0.05 U	0.173	0.05 U	0.097	0.05 U
Dissolved Metals (mg/L)											
ANTIMONY	0.003 g	NA	NA	0.029	NA	NA	NA	0.028 U	NA	0.03	NA
ARSENIC	0.025 s	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	0.002 U	NA
BERYLLIUM	0.003 g	NA	NA	0.002 U	NA	NA	NA	0.002 U	NA	0.002 U	NA
CADMIUM	0.01 s	NA	NA	0.005 U	NA	NA	NA	0.005 U	NA	0.005 U	NA
CHROMIUM	0.05 s	NA	NA	0.01 U	NA	NA	NA	0.01 U	NA	0.01 U	NA
COPPER	0.2 s	NA	NA	0.017 U	NA	NA	NA	0.017 U	NA	0.017 U	NA
LEAD	0.025 s	NA	NA	0.004	NA	NA	NA	0.003	NA	0.001	NA
MERCURY	0.002 s	NA	NA	0.0002 U	NA	NA	NA	0.0002 U	NA	0.0002 U	NA
NICKEL	NA	NA	NA	0.012 U	NA	NA	NA	0.012 U	NA	0.012 U	NA
SELENIUM	0.01 s	NA	NA	0.002 U	NA	NA	NA	0.003	NA	0.005	NA
SILVER	0.05 s	NA	NA	0.006 U	NA	NA	NA	0.006 U	NA	0.006 U	NA
THALLIUM	0.004 g	NA	NA	0.01 U	NA	NA	NA	0.01 U	NA	0.01 U	NA
ZINC	0.3 s	NA	NA	0.05 U	NA	NA	NA	0.05 U	NA	0.05 U	NA
PAHs (µg/L)											
NAPHTHALENE	10 g	6 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
ACENAPHTHYLENE	20 g	6 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
ACENAPHTHENE	20 g	6 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
FLUORENE	50 g	6 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
PHENANTHRENE	50 g	6 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
ANTHRACENE	50 g	6 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
FLUORANTHENE	50 g	6 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
PYRENE	50 g	6 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
BENZ(A)ANTHRACENE	0.002 g	6 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
CHRYSENE	0.002 g	6 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(B)FLUORANTHENE	0.002 g	6 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(K)FLUORANTHENE	0.002 g	6 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(A)PYRENE	0.002 MDL	6 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
INDENO(1,2,3-CD)PYRENE	0.002 g	6 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
DIBENZO(A,H)ANTHRACENE	NA	6 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(GHI)PERYLENE	5 g	6 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
VOCs (µg/L)											
CHLOROMETHANE	NL	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
VINYL CHLORIDE	2 s	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
CHLOROETHANE	5 s	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
BROMOMETHANE	5 s	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHENE	5 s	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
ACETONE	50 g	25 U	NA	25 U	NA	25 U	25 U	25 U	25 U	25 U	25 U
CARBON DISULFIDE	NA	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
METHYLENE CHLORIDE	5 s	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
TRANS-1,2-DICHLOROETHENE	5 s	160	NA	180	NA	5 U	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHANE	5 g	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
CIS-1,2-DICHLOROETHENE	5 s	720 E	740	510 E	480	5 U	26	5 U	5 U	5 U	5 U
2-BUTANONE (MEK)	NA	25 U	NA	25 U	NA	25 U	25 U	25 U	25 U	25 U	25 U
CHLOROFORM	7 s	5 U	NA	5 U	NA	5 U	5	5 U	5 U	5 U	14
1,1,1-TRICHLOROETHANE	5 s	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
CARBON TETRACHLORIDE	5 g	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	0.7 s	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE	5 s	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
TRICHLOROETHENE	5 s	130	NA	130	NA	5 U	5 U	11	5 U	5 U	5 U
1,2-DICHLOROPROPANE	5 s	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
BROMODICHLOROMETHANE	50 g	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
CIS-1,3-DICHLOROPROPENE	5 s	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
4-METHYL-2-PENTANONE (MIBK)	NA	10 U	NA	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U
TOLUENE	5 s	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
TRANS-1,3-DICHLOROPROPENE	5 s	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-TRICHLOROETHANE	5 s	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
TETRACHLOROETHENE	5 s	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
2-HEXANONE	50 g	10 U	NA	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U
DIBROMOCHLOROMETHANE	50 g	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
CHLOROBENZENE	5 s	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
ETHYLBENZENE	5 s	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
P-XYLENE/M-XYLENE	5 s*	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	5 s	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
STYRENE	5 s	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
BROMOFORM	50 g	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE	5 s	5 U	NA	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U
PCBs (µg/L)											
PCB 1016	0.1 s (Sum of all PCBs)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1221		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1232		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1242		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1248		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1254		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1260		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

NA = Not analyzed/Not available

U = The material was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.

J = The associated numerical value is an estimated quantity.

MDL = Method Detection Limit

s = Standard

g = Guidance

* = Each isomer

NL = Not listed

Table B-3 (cont.)
Summary of Groundwater Analytical Results

Name	Groundwater Standard / Guidance Value	SB-1 12/18/96	SB-2 12/18/96	SB3 12/19/96	SB4 12/19/96	SB5 12/19/96	SB6 12/19/96	SB7 12/17/96	SB-8 12/18/96	SB9 12/19/96	SB10 12/17/96
Total Metals (mg/L)											
ANTIMONY	0.003 g	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	0.025 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	0.003 g	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	0.01 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	0.05 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	0.2 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	0.025 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MERCURY	0.002 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	0.01 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	0.05 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	0.004 g	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	0.3 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (mg/L)											
ANTIMONY	0.003 g	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	0.025 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	0.003 g	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	0.01 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	0.05 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	0.2 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	0.025 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MERCURY	0.002 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	0.01 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	0.05 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	0.004 g	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	0.3 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PAHs (ug/L)											
NAPHTHALENE	10 g	1400	95 U	5 U	6 U	5 U	6 U	6 U	6 U	5 U	7 U
ACENAPHTHYLENE	20 g	290 U	95 U	5 U	6 U	5 U	6 U	6 U	6 U	5 U	7 U
ACENAPHTHENE	20 g	280 J	340	5 U	6 U	5 U	6 U	6 U	6 U	5 U	7 U
FLUORENE	50 g	270 J	390	5 U	6 U	5 U	6 U	6 U	6 U	5 U	7 U
PHENANTHRENE	50 g	520	780	5 U	6 U	5 U	6 U	6 U	6 U	5 U	7 U
ANTHRACENE	50 g	290 U	95 U	5 U	6 U	5 U	6 U	6 U	6 U	5 U	7 U
FLUORANTHENE	50 g	290 U	95 U	5 U	6 U	5 U	6 U	6 U	6 U	5 U	7 U
PYRENE	50 g	99 J	140	5 U	6 U	5 U	6 U	6 U	6 U	5 U	7 U
BENZ(A)ANTHRACENE	0.002 g	290 U	95 U	5 U	6 U	5 U	6 U	6 U	6 U	5 U	7 U
CHRYSENE	0.002 g	290 U	95 U	5 U	6 U	5 U	6 U	6 U	6 U	5 U	7 U
BENZO(B)FLUORANTHENE	0.002 g	290 U	95 U	5 U	6 U	5 U	6 U	6 U	6 U	5 U	7 U
BENZO(K)FLUORANTHENE	0.002 g	290 U	95 U	5 U	6 U	5 U	6 U	6 U	6 U	5 U	7 U
BENZO(A)PYRENE	0.002 MDL	290 U	95 U	5 U	6 U	5 U	6 U	6 U	6 U	5 U	7 U
INDENO(1,2,3-CD)PYRENE	0.002 g	290 U	95 U	5 U	6 U	5 U	6 U	6 U	6 U	5 U	7 U
DIBENZO(A,H)ANTHRACENE	NA	290 U	95 U	5 U	6 U	5 U	6 U	6 U	6 U	5 U	7 U
BENZO(GHI)PERYLENE	5 g	290 U	95 U	5 U	6 U	5 U	6 U	6 U	6 U	5 U	7 U
VOCs (ug/L)											
CHLOROMETHANE	NL	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
VINYL CHLORIDE	2 s	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CHLOROETHANE	5 s	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BROMOMETHANE	5 s	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHENE	5 s	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ACETONE	50 g	120 U	120 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
CARBON DISULFIDE	NA	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
METHYLENE CHLORIDE	5 s	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
TRANS-1,2-DICHLOROETHENE	5 s	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHANE	5 g	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CIS-1,2-DICHLOROETHENE	5 s	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-BUTANONE (MEK)	NA	120 U	120 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
CHLOROFORM	7 s	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-TRICHLOROETHANE	5 s	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	6	5 U
CARBON TETRACHLORIDE	5 g	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	0.7 s	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE	5 s	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
TRICHLOROETHENE	5 s	25 U	25 U	5 U	5 U	5 U	7	5 U	5 U	5 U	5 U
1,2-DICHLOROPROPANE	5 s	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BROMODICHLOROMETHANE	50 g	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CIS-1,3-DICHLOROPROPENE	5 s	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-METHYL-2-PENTANONE (MIBK)	NA	50 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
TOLUENE	5 s	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
TRANS-1,3-DICHLOROPROPENE	5 s	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-TRICHLOROETHANE	5 s	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
TETRACHLOROETHENE	5 s	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-HEXANONE	50 g	50 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
DIBROMOCHLOROMETHANE	50 g	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CHLOROBENZENE	5 s	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ETHYLBENZENE	5 s	60	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
P-XYLENE/M-XYLENE	5 s*	56	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	5 s	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
STYRENE	5 s	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BROMOFORM	50 g	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE	5 s	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PCBs (ug/L)											
PCB 1016	0.1 s (Sum of all PCBs)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1221		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1232		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1242		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1248		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1254		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1260		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
NA = Not analyzed/Not available
U = The material was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.
J = The associated numerical value is an estimated quantity.
MDL = Method Detection Limit
s = Standard
g = Guidance
* = Each isomer
NL = Not listed

Table B-3 (cont.)
Summary of Groundwater Analytical Results

Name	Groundwater Standard / Guidance Value	SB11 12/17/96	SB12 12/14/96	SB13 12/14/96	SB14 12/18/96	SB15 12/14/96	SB16 12/14/96	SB17 12/14/96	SB18 12/14/96	SB-19 12/18/96	SB20 12/18/96
Total Metals (mg/L)											
ANTIMONY	0.003 g	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	0.025 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	0.003 g	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	0.01 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	0.05 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	0.2 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	0.025 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MERCURY	0.002 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	0.01 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	0.05 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	0.004 g	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	0.3 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (mg/L)											
ANTIMONY	0.003 g	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	0.025 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	0.003 g	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	0.01 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	0.05 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	0.2 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	0.025 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MERCURY	0.002 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	0.01 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	0.05 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	0.004 g	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	0.3 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PAHs (ug/L)											
NAPHTHALENE	10 g	8 U	6 U	5 U	5 U	6 U	6 U	5 U	4.2 J	6 U	6 U
ACENAPHTHYLENE	20 g	8 U	6 U	5 U	5 U	6 U	6 U	5 U	5 U	6 U	6 U
ACENAPHTHENE	20 g	8 U	6 U	1.3 J	5 U	6 U	6 U	5 U	5 U	6 U	6 U
FLUORENE	50 g	8 U	6 U	1.3 J	5 U	6 U	6 U	5 U	5 U	6 U	6 U
PHENANTHRENE	50 g	8 U	6 U	14	5 U	6 U	6 U	5 U	1.8 J	6 U	6 U
ANTHRACENE	50 g	8 U	6 U	2.6 J	5 U	6 U	6 U	5 U	5 U	6 U	6 U
FLUORANTHENE	50 g	8 U	6 U	16	5 U	6 U	6 U	5 U	1.2 J	6 U	6 U
PYRENE	50 g	8 U	6 U	13	5 U	6 U	6 U	1.1 J	5 U	6 U	6 U
BENZ(A)ANTHRACENE	0.002 g	8 U	6 U	8.6	5 U	6 U	6 U	5 U	5 U	6 U	6 U
CHRYSENE	0.002 g	8 U	6 U	8.2	5 U	6 U	6 U	5 U	5 U	6 U	6 U
BENZO(B)FLUORANTHENE	0.002 g	8 U	6 U	8.8	5 U	6 U	6 U	5 U	5 U	6 U	6 U
BENZO(K)FLUORANTHENE	0.002 g	8 U	6 U	3.6 J	5 U	6 U	6 U	5 U	5 U	6 U	6 U
BENZO(A)PYRENE	0.002 MDL	8 U	6 U	7.3	5 U	6 U	6 U	5 U	5 U	6 U	6 U
INDENO(1,2,3-CD)PYRENE	0.002 g	8 U	6 U	4.1 J	5 U	6 U	6 U	5 U	5 U	6 U	6 U
DIBENZO(A,H)ANTHRACENE	NA	8 U	6 U	1.4 J	5 U	6 U	6 U	5 U	5 U	6 U	6 U
BENZO(GHI)PERYLENE	5 g	8 U	6 U	4.7 J	5 U	6 U	6 U	5 U	5 U	6 U	6 U
VOCs (ug/L)											
CHLOROMETHANE	NL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
VINYL CHLORIDE	2 s	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CHLOROETHANE	5 s	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BROMOMETHANE	5 s	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHENE	5 s	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ACETONE	50 g	25 U	25 U	25 U	25 U	25 U	42 B	25 U	25 U	25 U	25 U
CARBON DISULFIDE	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
METHYLENE CHLORIDE	5 s	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
TRANS-1,2-DICHLOROETHENE	5 s	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHANE	5 g	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CIS-1,2-DICHLOROETHENE	5 s	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-BUTANONE (MEK)	NA	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
CHLOROFORM	7 s	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-TRICHLOROETHANE	5 s	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CARBON TETRACHLORIDE	5 g	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	0.7 s	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE	5 s	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
TRICHLOROETHENE	5 s	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROPROPANE	5 s	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BROMODICHLOROMETHANE	50 g	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CIS-1,3-DICHLOROPROPENE	5 s	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-METHYL-2-PENTANONE (MIBK)	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
TOLUENE	5 s	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
TRANS-1,3-DICHLOROPROPENE	5 s	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-TRICHLOROETHANE	5 s	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
TETRACHLOROETHENE	5 s	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-HEXANONE	50 g	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
DIBROMOCHLOROMETHANE	50 g	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CHLOROBENZENE	5 s	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ETHYLBENZENE	5 s	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
P-XYLENE/M-XYLENE	5 s*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	5 s	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
STYRENE	5 s	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BROMOFORM	50 g	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE	5 s	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PCBs (ug/L)											
PCB 1016	0.1 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1221	(Sum of	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1232	all PCBs)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1242		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1248		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1254		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1260		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
NA = Not analyzed/Not available

U = The material was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.

J = The associated numerical value is an estimated quantity.

MDL = Method Detection Limit

s = Standard

g = Guidance

* = Each isomer

NL = Not listed

Table B-4

Summary of Basement Air and Soil Gas Analytical Results

Name	AIR-1 12/10/96	AIR-3 12/11/96	AIR-3 (A) 12/12/96	SG1 12/19/96	SG3 12/19/96	SG4 12/19/96
	mg/m³	mg/m³	mg/m³	ppm	ppm	ppm
VOCs						
2-CHLOROETHYLVINYLETHER	0.3 U	0.3 U	0.3 U	NA	NA	NA
CIS-1,3-DICHLOROPROPENE	0.3 U	0.3 U	0.3 U	0.22 U	0.22 U	0.22 U
METHYL ISOBUTYL KETONE (MIBK)	0.3 U	0.3 U	0.3 U	0.489 U	0.489 U	0.489 U
TOLUENE	0.3 U	0.3 U	0.3 U	0.266 U	0.266 U	0.266 U
TRANS-1,3-DICHLOROPROPENE	0.3 U	0.3 U	0.3 U	0.22 U	0.22 U	0.22 U
1,1,2-TRICHLOROETHANE	0.3 U	0.3 U	0.3 U	0.184 U	0.184 U	0.184 U
TETRACHLOROETHENE	0.3 U	0.3 U	0.3 U	0.147 U	0.147 U	0.147 U
2-HEXANONE	0.3 U	0.3 U	0.3 U	0.489 U	0.489 U	0.489 U
DIBROMOCHLOROMETHANE	0.3 U	0.3 U	0.3 U	0.116 U	0.116 U	0.116 U
1,2-DIBROMOETHANE (EDB)	0.3 U	0.3 U	0.3 U	NA	NA	NA
CHLOROBENZENE	0.3 U	0.3 U	0.3 U	0.218 U	0.218 U	0.218 U
1,1,1,2-TETRACHLOROETHANE	0.3 U	0.3 U	0.3 U			
ETHYLBENZENE	0.3 U	0.3 U	0.3 U	0.233 U	0.233 U	0.233 U
P-XYLENE/M-XYLENE	0.3 U	0.3 U	0.3 U	0.233 U	0.233 U	0.233 U
O-XYLENE	0.3 U	0.3 U	0.3 U	0.233 U	0.233 U	0.233 U
STYRENE	0.3 U	0.3 U	0.3 U	0.235 U	0.235 U	0.235 U
BROMOFORM	0.3 U	0.3 U	0.3 U	0.097 U	0.097 U	0.097 U
BROMOBENZENE	0.3 U	0.3 U	0.3 U	NA	NA	NA
1,1,2,2-TETRACHLOROETHANE	0.3 U	0.3 U	0.3 U	0.146 U	0.146 U	0.146 U
1,2,3-TRICHLOROPROPANE	0.3 U	0.3 U	0.3 U	NA	NA	NA
2-CHLOROTOLUENE	0.3 U	0.3 U	0.3 U	NA	NA	NA
4-CHLOROTOLUENE	0.3 U	0.3 U	0.3 U	NA	NA	NA
1,3-DICHLOROBENZENE	0.3 U	0.3 U	0.3 U	NA	NA	NA
1,4-DICHLOROBENZENE	0.3 U	0.3 U	0.3 U	NA	NA	NA
1,2-DICHLOROBENZENE	0.3 U	0.3 U	0.3 U	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	0.3 U	0.3 U	0.3 U	NA	NA	NA
DICHLORODIFLUOROMETHANE	0.3 U	0.3 U	0.3 U	NA	NA	NA
CHLOROMETHANE	0.3 U	0.3 U	0.3 U	0.489 U	0.489 U	0.489 U
VINYL CHLORIDE	-- *	-- *	-- *	0.394 U	0.394 U	0.394 U
BROMOMETHANE	-- *	-- *	-- *	0.257 U	0.257 U	0.257 U
CHLOROETHANE	0.3 U	0.3 U	0.3 U	0.382 U	0.382 U	0.382 U
TRICHLOROFLUOROMETHANE	0.3 U	0.3 U	0.3 U	NA	NA	NA
ACROLEIN	-- **	-- **	-- **	NA	NA	NA
1,1-DICHLOROETHENE	-- **	-- **	-- **	0.252 U	0.252 U	0.252 U
ACETONE	-- **	-- **	-- **	2.108 U	2.108 U	2.108 U
CARBON DISULFIDE	-- **	-- **	-- **	0.322 U	0.322 U	0.322 U
METHYLENE CHLORIDE	-- **	-- **	-- **	0.288 U	0.288 U	0.288 U
ACRYLONITRILE	0.3 U	0.3 U	0.3 U	NA	NA	NA
TRANS-1,2-DICHLOROETHENE	0.3 U	0.3 U	0.3 U	0.252 U	0.252 U	0.252 U
1,1-DICHLOROETHANE	0.3 U	0.3 U	0.3 U	0.247 U	0.247 U	0.247 U
CIS-1,2-DICHLOROETHENE	0.3 U	0.3 U	0.3 U	0.252 U	0.252 U	0.252 U
METHYL ETHYL KETONE	0.3 U	0.3 U	0.3 U	1.698 U	1.698 U	1.698 U
CHLOROFORM	0.3 U	0.3 U	0.3 U	0.205 U	0.205 U	0.205 U
1,1,1-TRICHLOROETHANE	0.3 U	0.3 U	0.3 U	0.184 U	0.184 U	0.184 U
CARBON TETRACHLORIDE	0.3 U	0.3 U	0.3 U	0.159 U	0.159 U	0.159 U
BENZENE	0.3 U	0.3 U	0.3 U	0.313 U	0.313 U	0.313 U
1,2-DICHLOROETHANE	0.3 U	0.3 U	0.3 U	0.247 U	0.247 U	0.247 U
TRICHLOROETHENE	0.3 U	0.3 U	0.3 U	0.187 U	0.187 U	0.187 U
1,2-DICHLOROPROPANE	0.3 U	0.3 U	0.3 U	0.216 U	0.216 U	0.216 U
DIBROMOMETHANE	0.3 U	0.3 U	0.3 U	0.147 U	0.147 U	0.147 U
BROMODICHLOROMETHANE	0.3 U	0.3 U	0.3 U	NA	NA	NA

Notes:
NA = Not analyzed
U = The material was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.
* = Compound Coelutes With Methanol In Standards
** = Compound Coelutes With Carbon Disulfide Extraction Solvent

Table B-5

Summary of Utility Sample Analytical Results - Solids/Sludges

Name	NYSDEC Recommended Soil Cleanup Objective[1]	U1-1 12/20/96	U6-1 12/20/96	U9-4 12/20/96	U9-7 12/20/96	U9-7 (1-15-97) 1/15/97	U13-1 12/18/96	U33-1 12/20/96
TOTAL SOLIDS (%)		55.63	75.58	25.55	47.66	49.85	5.06	53.96
MOISTURE (%)		44.37	24.42	74.45	52.34	NA	94.94	46.04
Metals (mg/Kg)								
ANTIMONY	SB	10.1	3.36 U	9.19 U	5.4	NA	50.2 U	162
ARSENIC	7.5 /SB	12	18	11	9.4	NA	21 U	8.6
BERYLLIUM	0.16 /SB	0.697	0.756	0.656 U	0.583	NA	3.59 U	0.327 U
CADMIUM	1 /SB	16.7	2.3	4.3	6.1	NA	11 U	15.1
CHROMIUM	10 /SB	683	48.2	220	207	NA	102	166
COPPER	25 /SB	8870	4960	10500	3890	NA	2070	2180
LEAD	SB	1110	610	979	960	NA	825	3420
MERCURY	0.1	0.74	0.51	0.31	0.089	NA	0.81	8.6
NICKEL	13 /SB	121	34.5	84.4	223	NA	201	35.6
SELENIUM	2 /SB	3.2	0.67 U	4.1	1.9	NA	11 U	0.94 U
SILVER	SB	3.86	1.18	9.25	5.16	NA	10.8 U	9.48
THALLIUM	SB	1.6 U	1.3 U	3.8 U	2.1 U	NA	21.3 U	5.7
ZINC	20 /SB	4180	1590	1240	2670	NA	4960	29100
PAHs (mg/Kg)								
NAPHTHALENE	13	43 U	32 U	84 U	4 J	NA	4.9 U	45 U
ACENAPHTHYLENE	41	43 U	32 U	84 U	4.9 U	NA	4.9 U	45 U
ACENAPHTHENE	50	43 U	32 U	84 U	5.5	NA	4.9 U	45 U
FLUORENE	50	43 U	32 U	84 U	11	NA	4.9 U	45 U
PHENANTHRENE	50	14 J	32 U	30 J	4.2 J	NA	4.9 U	45 U
ANTHRACENE	50	43 U	32 U	84 U	5.9	NA	4.9 U	45 U
FLUORANTHENE	50	18 J	32 U	75 J	12	NA	4.9 U	45 U
PYRENE	50	20 J	32 U	82 J	23	NA	4.9 U	45 U
BENZ(A)ANTHRACENE	0.224 MDL	10 J	32 U	38 J	7	NA	4.9 U	45 U
CHRYSENE	0.4	10 J	32 U	41 J	7.3	NA	4.9 U	45 U
BENZO(B)FLUORANTHENE	1.1	16 J	32 U	46 J	8	NA	4.9 U	45 U
BENZO(K)FLUORANTHENE	1.1	43 U	32 U	18 J	3.3 J	NA	4.9 U	45 U
BENZO(A)PYRENE	0.061 MDL	10 J	32 U	32 J	5.4	NA	4.9 U	45 U
INDENO(1,2,3-CD)PYRENE	3.2	43 U	32 U	84 U	3.5 J	NA	4.9 U	45 U
DIBENZO(A,H)ANTHRACENE	0.014 MDL	43 U	32 U	84 U	4.9 U	NA	4.9 U	45 U
BENZO(GHI)PERYLENE	50	43 U	32 U	84 U	3.5 J	NA	4.9 U	45 U
VOCs (mg/Kg)								
CHLOROMETHANE	NL	0.027	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
VINYL CHLORIDE	0.2	0.014 U	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
CHLOROETHANE	1.9	0.014 U	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
BROMOMETHANE	NL	0.014 U	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
1,1-DICHLOROETHENE	0.4	0.014 U	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
ACETONE	0.2	0.28	0.051 U	11 U	6.6 U	6.1 U	7.7	0.13
CARBON DISULFIDE	2.7	0.039	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.042
METHYLENE CHLORIDE	0.1	0.014	0.011	2.2 U	1.3 U	1.2 U	0.16 U	0.17
TRANS-1,2-DICHLOROETHENE	0.3	0.014 U	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
1,1-DICHLOROETHANE	0.2	0.014 U	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
CIS-1,2-DICHLOROETHENE	NL	0.014 U	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
2-BUTANONE (MEK)	0.3	0.074	0.051 U	11 U	6.6 U	6.1 U	0.79 U	0.076 U
CHLOROFORM	0.3	0.014 U	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
1,1,1-TRICHLOROETHANE	0.8	0.014 U	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
CARBON TETRACHLORIDE	0.6	0.014 U	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
BENZENE	0.06	0.015	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
1,2-DICHLOROETHANE	0.1	0.014 U	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
TRICHLOROETHENE	0.7	0.014 U	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
1,2-DICHLOROPROPANE	0.3	0.014 U	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
BROMODICHLOROMETHANE	NL	0.014 U	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
CIS-1,3-DICHLOROPROPENE	0.3	0.014 U	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
4-METHYL-2-PENTANONE (MIBK)	1	0.028 U	0.02 U	4.4 U	2.6 U	2.4 U	0.32 U	0.03 U
TOLUENE	1.5	0.014 U	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
TRANS-1,3-DICHLOROPROPENE	NL	0.014 U	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
1,1,2-TRICHLOROETHANE	NL	0.014 U	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
TETRACHLOROETHENE	1.4	0.014 U	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
2-HEXANONE	NL	0.028 U	0.02 U	4.4 U	2.6 U	2.4 U	0.32 U	0.03 U
DIBROMOCHLOROMETHANE	NA	0.014 U	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
CHLOROBENZENE	1.7	0.014 U	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
ETHYLBENZENE	5.5	0.014 U	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
P-XYLENE/M-XYLENE	1.2 *	0.014 U	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
O-XYLENE	1.2	0.014 U	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
STYRENE	NL	0.062	0.02	2.2 U	1.3 U	1.2 U	0.16 U	0.019
BROMOFORM	NL	0.014 U	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
1,1,2,2-TETRACHLOROETHANE	0.6	0.014 U	0.01 U	2.2 U	1.3 U	1.2 U	0.16 U	0.015 U
PCBs (mg/Kg)								
PCB 1016	10 (Sum of all PCBs)	0.8 U	0.1 U	16 U	10 U	NA	200 U	17 U
PCB 1221		0.8 U	0.1 U	16 U	10 U	NA	200 U	17 U
PCB 1232		0.8 U	0.1 U	16 U	10 U	NA	200 U	17 U
PCB 1242		0.8 U	0.1 U	16 U	10 U	NA	200 U	17 U
PCB 1248		0.8 U	0.1 U	16 U	10 U	NA	200 U	17 U
PCB 1254		0.8 U	0.1 U	16 U	10 U	NA	200 U	17 U
PCB 1260		5.4	0.1	85	36	NA	1020	30.9

Notes:

NA = Not analyzed/Not available

U = The material was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.

J = The associated numerical value is an estimated quantity.

MDL = Method Detection Limit

* = Each Isomer

NL = Not listed

SB = Site Background

[1] NYSDEC Division of Hazardous Waste Remediation TAGM 4046

Table B-5 (cont.)

Summary of Utility Sample Analytical Results - Solids/Sludges

Name	NYSDEC Recommended Soil Cleanup Objective[1]	U37-2 12/20/96	U37-2 (1-15-97) 1/15/97	U38-2 12/20/96	U38-6 12/20/96	U38-8 (1-15-97) 1/15/97	U38-8 12/20/96	U50-4 12/20/96
TOTAL SOLIDS (%)		63.21	63.1	68.59	NA	51.4	56.37	48.17
MOISTURE (%)		36.79	NA	31.41	NA	NA	43.63	51.83
Metals (mg/Kg)								
ANTIMONY	SB	10.4	NA	3.92 U	NA	NA	59.5	5.5 U
ARSENIC	7.5 /SB	5.1	NA	4	NA	NA	12	6.5
BERYLLIUM	0.16 /SB	0.275 U	NA	0.319	NA	NA	0.376 U	0.916
CADMIUM	1 /SB	2.9	NA	1.1	NA	NA	7.2	1.9
CHROMIUM	10 /SB	15.6	NA	23.2	NA	NA	66.6	51.8
COPPER	25 /SB	331	NA	28000	NA	NA	22300	458
LEAD	SB	5730	NA	830	NA	NA	6290	153
MERCURY	0.1	0.44	NA	0.16	NA	NA	0.45	0.63
NICKEL	13 /SB	16.7	NA	24	NA	NA	57.5	35.9
SELENIUM	2 /SB	0.68 U	NA	0.61 U	NA	NA	0.9 U	7.8
SILVER	SB	0.826 U	NA	1.59	NA	NA	28.8	1.18 U
THALLIUM	SB	1.4 U	NA	1.2 U	NA	NA	1.8 U	1.9 U
ZINC	20 /SB	2340	NA	459	NA	NA	538	584
PAHs (mg/Kg)								
NAPHTHALENE	13	175 U	NA	35 U	NA	NA	42 U	0.51 U
ACENAPHTHYLENE	41	175 U	NA	35 U	NA	NA	42 U	0.51 U
ACENAPHTHENE	50	175 U	NA	35 U	NA	NA	42 U	0.51 U
FLUORENE	50	175 U	NA	35 U	NA	NA	42 U	0.51 U
PHENANTHRENE	50	175 U	NA	35 U	NA	NA	42 U	0.51 U
ANTHRACENE	50	175 U	NA	35 U	NA	NA	42 U	0.51 U
FLUORANTHENE	50	175 U	NA	35 U	NA	NA	42 U	0.17 J
PYRENE	50	175 U	NA	35 U	NA	NA	42 U	0.17 J
BENZ(A)ANTHRACENE	0.224 MDL	175 U	NA	35 U	NA	NA	42 U	0.51 U
CHRYSENE	0.4	175 U	NA	35 U	NA	NA	42 U	0.51 U
BENZO(B)FLUORANTHENE	1.1	175 U	NA	35 U	NA	NA	42 U	0.15 J
BENZO(K)FLUORANTHENE	1.1	175 U	NA	35 U	NA	NA	42 U	0.51 U
BENZO(A)PYRENE	0.061 MDL	175 U	NA	35 U	NA	NA	42 U	0.51 U
INDENO(1,2,3-CD)PYRENE	3.2	175 U	NA	35 U	NA	NA	42 U	0.51 U
DIBENZO(A,H)ANTHRACENE	0.014 MDL	175 U	NA	35 U	NA	NA	42 U	0.51 U
BENZO(GHI)PERYLENE	50	175 U	NA	35 U	NA	NA	42 U	0.51 U
VOCs (mg/Kg)								
CHLOROMETHANE	NL	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
VINYL CHLORIDE	0.2	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
CHLOROETHANE	1.9	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
BROMOMETHANE	NL	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
1,1-DICHLOROETHENE	0.4	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
ACETONE	0.2	5 U	4.7 U	0.06 U	NA	5.5 U	5 U	0.08 U
CARBON DISULFIDE	2.7	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
METHYLENE CHLORIDE	0.1	0.99 U	0.94 U	0.017	NA	1.1 U	1 U	0.018
TRANS-1,2-DICHLOROETHENE	0.3	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
1,1-DICHLOROETHANE	0.2	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
CIS-1,2-DICHLOROETHENE	NL	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
2-BUTANONE (MEK)	0.3	5 U	4.7 U	0.06 U	NA	5.5 U	5 U	0.08 U
CHLOROFORM	0.3	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
1,1,1-TRICHLOROETHANE	0.8	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
CARBON TETRACHLORIDE	0.6	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
BENZENE	0.06	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
1,2-DICHLOROETHANE	0.1	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
TRICHLOROETHENE	0.7	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
1,2-DICHLOROPROPANE	0.3	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
BROMODICHLOROMETHANE	NL	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
CIS-1,3-DICHLOROPROPENE	0.3	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
4-METHYL-2-PENTANONE (MIBK)	1	2 U	1.9 U	0.024 U	NA	2.2 U	2 U	0.052 U
TOLUENE	1.5	0.99 U	1.4	0.012 U	NA	1.1 U	1 U	0.016 U
TRANS-1,3-DICHLOROPROPENE	NL	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
1,1,2-TRICHLOROETHANE	NL	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
TETRACHLOROETHENE	1.4	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
2-HEXANONE	NL	2 U	1.9 U	0.024 U	NA	2.2 U	2 U	0.032 U
DIBROMOCHLOROMETHANE	NA	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
CHLOROBENZENE	1.7	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
ETHYLBENZENE	5.5	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
P-XYLENE/M-XYLENE	1.2 *	1.3	1.9	0.012 U	NA	1.1 U	1 U	0.016 U
O-XYLENE	1.2	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
STYRENE	NL	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016
BROMOFORM	NL	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
1,1,2,2-TETRACHLOROETHANE	0.6	0.99 U	0.94 U	0.012 U	NA	1.1 U	1 U	0.016 U
PCBs (mg/Kg)								
PCB 1016	10	0.2 U	NA	12 U	35 U	NA	9 U	0.1 U
PCB 1221	(Sum of	0.2 U	NA	12 U	35 U	NA	9 U	0.1 U
PCB 1232	all PCBs)	0.2 U	NA	12 U	35 U	NA	9 U	0.1 U
PCB 1242		0.2 U	NA	12 U	35 U	NA	9 U	0.1 U
PCB 1248		0.2 U	NA	12 U	35 U	NA	9 U	0.1 U
PCB 1254		0.2 U	NA	12 U	35 U	NA	9 U	0.1 U
PCB 1260		0.2 U	NA	35	130	NA	75	0.17

Notes:

NA = Not analyzed/Not available

U = The material was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.

J = The associated numerical value is an estimated quantity.

MDL = Method Detection Limit

* = Each isomer

NL = Not listed

SB = Site Background

[1] NYSDEC Division of Hazardous Waste Remediation TAGM 4046

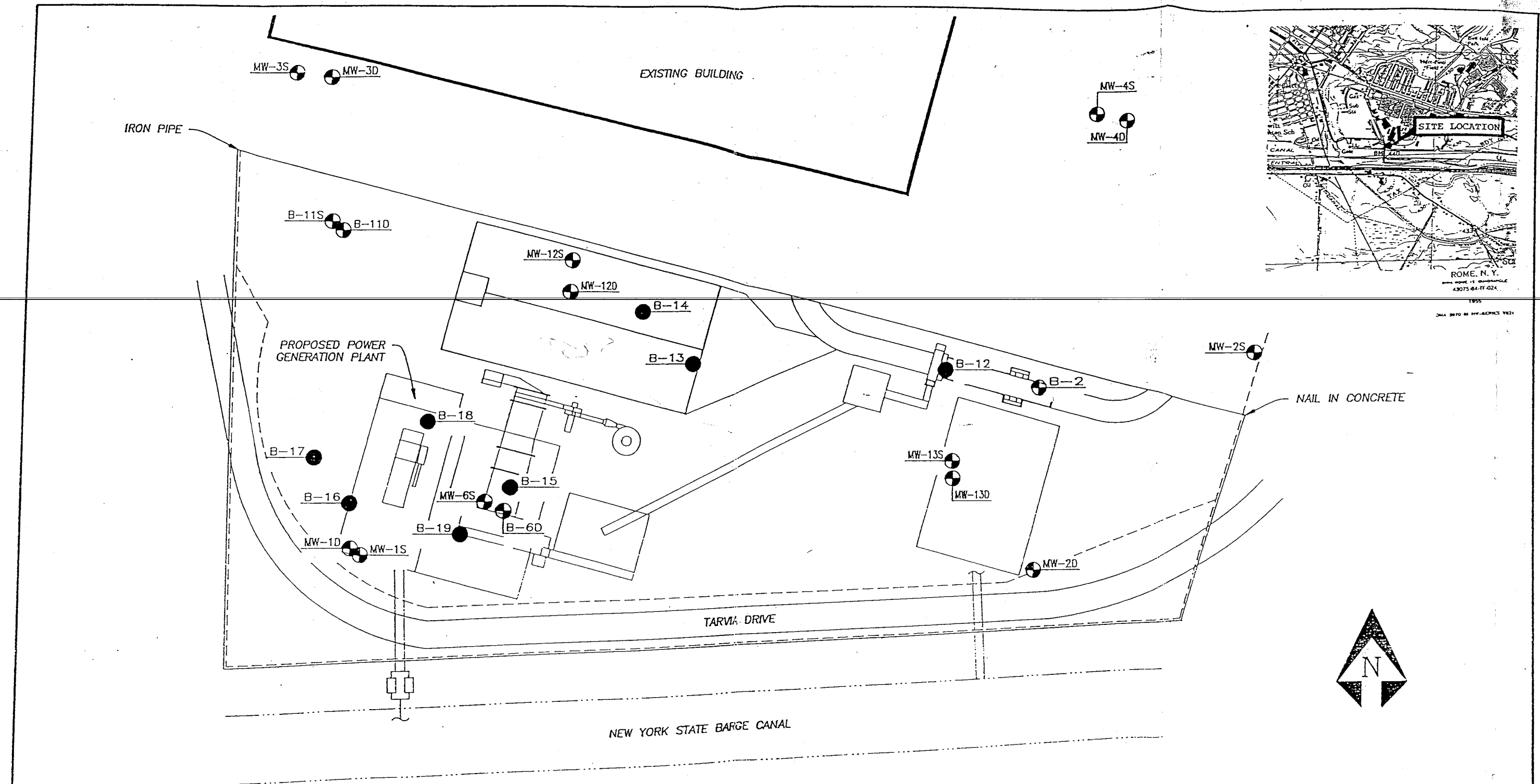
Table B-5 (cont.)
Summary of Utility Sample Analytical Results - Water

Name	Groundwater Standard / Guidance Value	U9-1 12/20/96	U9-5 12/20/96	U9-8 12/20/96	U11-2 12/18/96	U11-5 12/20/96	U13-4 12/20/96	U37-1 12/20/96	U39-3 12/20/96	U41-1 12/18/96	U50-6 12/20/96
Total Metals (mg/L)											
ANTIMONY	0.003 g	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	0.028 U	NA	0.028 U	0.028 U	0.08
ARSENIC	0.025 s	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	0.002 U	0.002 U	0.048
BERYLLIUM	0.003 g	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	0.002 U	0.002 U	0.002 U
CADMIUM	0.01 s	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.027	0.005 U	0.005 U
CHROMIUM	0.05 s	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.025
COPPER	0.2 s	0.036	0.035	0.017	0.954	0.03	0.234	NA	0.316	0.04	0.098
LEAD	0.025 s	0.005	0.015	0.003	0.034	0.006	0.042	NA	0.013	0.018	0.31
MERCURY	0.002 s	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	NA	0.0002 U	0.0002 U	0.0011
NICKEL	NA	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	NA	0.012 U	0.012 U	0.016
SELENIUM	0.01 s	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	0.002	0.002 U	0.002 U
SILVER	0.05 s	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	NA	0.006 U	0.006 U	0.006 U
THALLIUM	0.004 g	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U
ZINC	0.3 s	0.173	0.242	0.083	0.145	0.109	0.174	NA	5.24	0.198	1.38
Dissolved Metals (mg/L)											
ANTIMONY	0.003 g	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ARSENIC	0.025 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	0.003 g	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	0.01 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	0.05 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	0.2 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	0.025 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MERCURY	0.002 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	0.01 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SILVER	0.05 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
THALLIUM	0.004 g	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	0.3 s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PAHs (µg/L)											
NAPHTHALENE	10 g	5 U	44	5 U	5 U	5 U	5 U	NA	6 U	5 U	5 U
ACENAPHTHYLENE	20 g	5 U	25 U	5 U	5 U	5 U	5 U	NA	6 U	5 U	5 U
ACENAPHTHENE	20 g	5 U	15 J	5 U	5 U	5 U	5 U	NA	6 U	5 U	5 U
FLUORENE	50 g	5 U	24 J	5 U	5 U	5 U	5 U	NA	6 U	5 U	5 U
PHENANTHRENE	50 g	5 U	54	5 U	5 U	5 U	1.6 J	NA	6 U	5 U	5 U
ANTHRACENE	50 g	5 U	9 J	5 U	5 U	5 U	5 U	NA	6 U	5 U	5 U
FLUORANTHENE	50 g	5 U	25 U	5 U	5 U	5 U	2.9 J	NA	6 U	5 U	5 U
PYRENE	50 g	5 U	8 J	5 U	5 U	5 U	2.6 J	NA	6 U	5 U	5 U
BENZ(A)ANTHRACENE	0.002 g	5 U	25 U	5 U	5 U	5 U	1.5 J	NA	6 U	5 U	5 U
CHRYSENE	0.002 g	5 U	7.6 J	5 U	5 U	5 U	1.5 J	NA	6 U	5 U	5 U
BENZO(B)FLUORANTHENE	0.002 g	5 U	25 U	5 U	5 U	5 U	1.8 J	NA	6 U	5 U	5 U
BENZO(K)FLUORANTHENE	0.002 g	5 U	25 U	5 U	5 U	5 U	5 U	NA	6 U	5 U	5 U
BENZO(A)PYRENE	0.002 MDL	5 U	25 U	5 U	5 U	5 U	1.3 J	NA	6 U	5 U	5 U
INDENO(1,2,3-CD)PYRENE	0.002 g	5 U	25 U	5 U	5 U	5 U	5 U	NA	6 U	5 U	5 U
DIBENZO(A,H)ANTHRACENE	NA	5 U	25 U	5 U	5 U	5 U	5 U	NA	6 U	5 U	5 U
BENZO(GHI)PERYLENE	5 g	5 U	25 U	5 U	5 U	5 U	5 U	NA	6 U	5 U	5 U
VOCs (µg/L)											
CHLOROMETHANE	NL	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
VINYL CHLORIDE	2 s	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CHLOROETHANE	5 s	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BROMOMETHANE	5 s	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHENE	5 s	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ACETONE	50 g	25 U	2500 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	33
CARBON DISULFIDE	NA	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
METHYLENE CHLORIDE	5 s	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
TRANS-1,2-DICHLOROETHENE	5 s	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHANE	5 g	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CIS-1,2-DICHLOROETHENE	5 s	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-BUTANONE (MEK)	NA	25 U	500 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
CHLOROFORM	7 s	5	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-TRICHLOROETHANE	5 s	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CARBON TETRACHLORIDE	5 g	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	0.7 s	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE	5 s	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
TRICHLOROETHENE	5 s	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROPROPANE	5 s	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BROMODICHLOROMETHANE	50 g	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CIS-1,3-DICHLOROPROPENE	5 s	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-METHYL-2-PENTANONE (MIBK)	NA	10 U	500 U	10 U	10 U	10 U	10 U	25 U	10 U	10 U	19
TOLUENE	5 s	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
TRANS-1,3-DICHLOROPROPENE	5 s	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-TRICHLOROETHANE	5 s	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
TETRACHLOROETHENE	5 s	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-HEXANONE	50 g	10 U	1000 U	10 U	10 U	10 U	10 U	25 U	10 U	10 U	10 U
DIBROMOCHLOROMETHANE	50 g	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CHLOROBENZENE	5 s	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ETHYLBENZENE	5 s	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
P-XYLENE/M-XYLENE	5 s*	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	5 s	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
STYRENE	5 s	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BROMOFORM	50 g	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE	5 s	5 U	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PCBs (µg/L)											
PCB 1016	0.1 s	0.1 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	0.1 U	0.2 U	2 U
PCB 1221	(Sum of	0.1 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	0.1 U	0.2 U	2 U
PCB 1232	all PCBs)	0.1 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	0.1 U	0.2 U	2 U
PCB 1242		0.1 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	0.1 U	0.2 U	2 U
PCB 1248		0.1 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	0.1 U	0.2 U	2 U
PCB 1254		0.1 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	0.1 U	0.2 U	2 U
PCB 1260		0.1 U	4.3	0.1 U	0.67	0.35	0.34	NA	0.1 U	0.2 U	11.2

Notes:
NA = Not analyzed/Not available

U = The material was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.

J = The associated numerical value is an estimated quantity.
MDL = Method Detection Limit
s = Standard
g = Guidance
* = Each isomer
NL = Not listed



LEGEND:

MW-1S — MONITORING WELL LOCATION

B-15 — BORING LOCATION

– – – – — FENCE LINE

LEGEND: BUILDING LOCATIONS WITHIN THE SITE ARE FOR PROPOSED STRUCTURES

SITE PLAN

Huntingdon Consulting Engineers Environmental Scientists

Empire Soils Investigations, Inc., Division

DRAWN BY: JVM

REV'D BY:

PROPOSED INDEPENDENT POWER STA.
ROME, NEW YORK

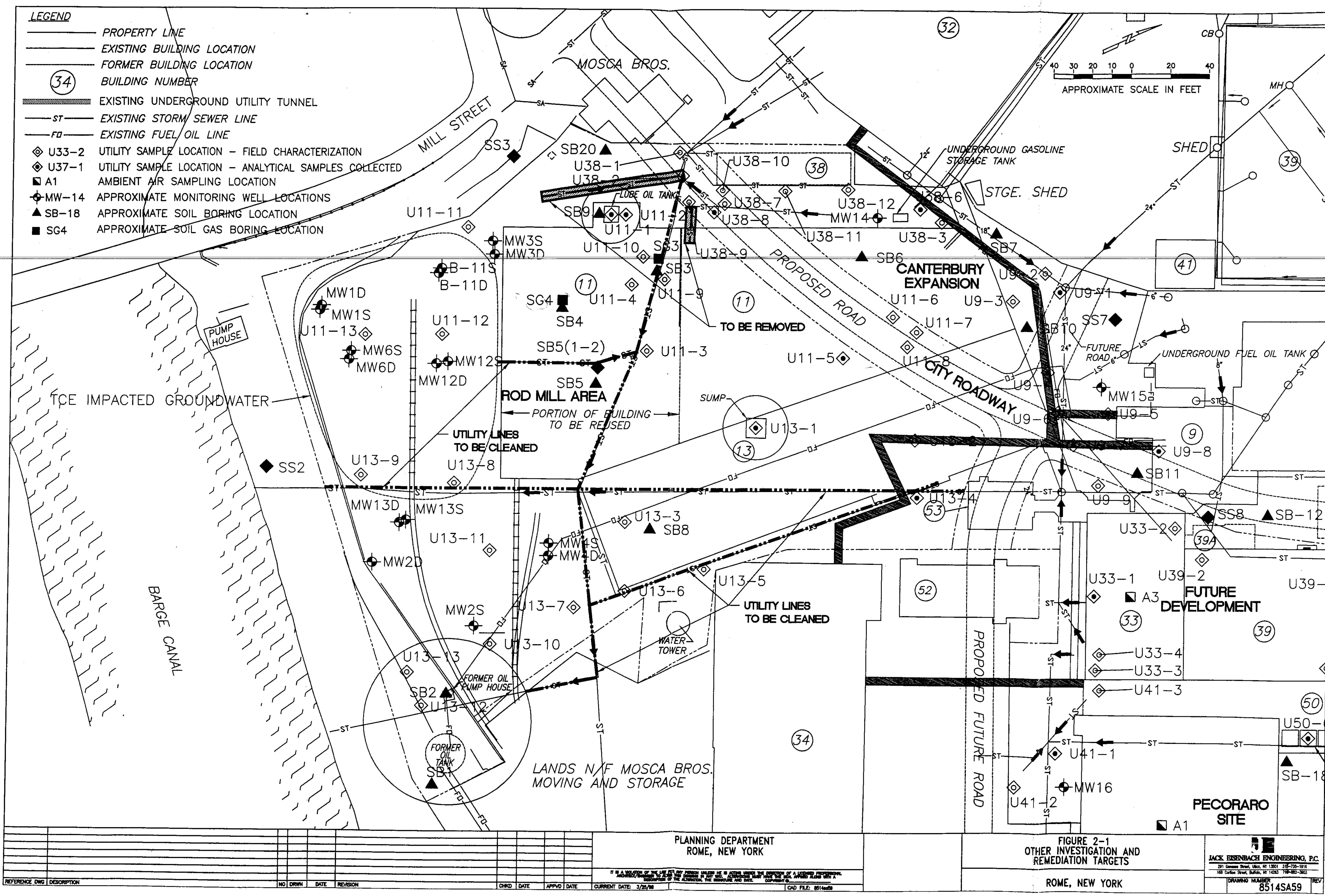
SCALE: 1"=40'

DATE: JAN, 1993

PROJ. NO.: GTA-91-400

DWG. FILE: H91040D

DRAWING NO.: Figure 1-2


LEGEND
PROPERTY LINE
EXISTING BUILDING LOCATION
FORMER BUILDING LOCATION
34 BUILDING NUMBER
EXISTING UNDERGROUND UTILITY TUNNEL
ST EXISTING STORM SEWER LINE
FO EXISTING FUEL OIL LINE
U33-2 UTILITY SAMPLE LOCATION - FIELD CHARACTERIZATION
U37-1 UTILITY SAMPLE LOCATION - ANALYTICAL SAMPLES COLLECTED
A1 AMBIENT AIR SAMPLING LOCATION
MW-14 APPROXIMATE MONITORING WELL LOCATIONS
SB-18 APPROXIMATE SOIL BORING LOCATION
SG4 APPROXIMATE SOIL GAS BORING LOCATION
APPROXIMATE SCALE IN FEET
MOSCA BROS.
MILL STREET
UNDERGROUND GASOLINE STORAGE TANK
STGE. SHED
SHED
LUBE OIL TANK
PROPOSED ROAD
CANTERBURY EXPANSION
TO BE REMOVED
UNDERGROUND FUEL OIL TANK
FUTURE ROAD
CITY ROADWAY
ROD MILL AREA
PORTION OF BUILDING TO BE REUSED
SUMP
UTILITY LINES TO BE CLEANED
TCE IMPACTED GROUNDWATER
PUMP HOUSE
BARGE CANAL
FORMER OIL PUMP HOUSE
FORMER OIL TANK
WATER TOWER
LANDS N/F MOSCA BROS. MOVING AND STORAGE
PROPOSED FUTURE ROAD
FUTURE DEVELOPMENT
PECORARO SITE
PLANNING DEPARTMENT
ROME, NEW YORK
FIGURE 2-1
OTHER INVESTIGATION AND REMEDIATION TARGETS
ROME, NEW YORK
JACK EISENBACH ENGINEERING, P.C.
CURRENT DATE: 3/25/98
DRAWING NUMBER
8514SA59