REDACTED VERSION

EA Engineering, Science, and Technology, Inc.

FINAL

REPORT OF RESULTS FOR THE REMEDIAL INVESTIGATION OF UNDERGROUND UTILITY LINES FORMERLY USED BY THE DEPARTMENT OF DEFENSE, LAKE ONTARIO ORDNANCE WORKS (LOOW) NIAGARA COUNTY, NEW YORK,

VOLUME I REPORT

U.S. Army Corps of Engineers

September 2008

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LETTER OF TRANSMITTAL

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1776 Niagara Street
Buffalo, New York
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RE: Contract No. W912DR-05-D-0008	
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Sandy Staigerwald
Project Manager

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FINAL

REPORT OF RESULTS FOR THE REMEDIAL INVESTIGATION OF UNDERGROUND UTILITY LINES FORMERLY USED BY THE DEPARTMENT OF DEFENSE, LAKE ONTARIO ORDNANCE WORKS (LOOW), NIAGARA COUNTY, NEW YORK

Prepared for

U.S. Army Corps of Engineers
Baltimore District
Contract W912DR-05-D-0008
Delivery Orders 0001 and 0018

Prepared by

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September 2008

FINAL

REPORT OF RESULTS FOR
THE REMEDIAL INVESTIGATION OF UNDERGROUND UTILITY LINES
FORMERLY USED BY THE DEPARTMENT OF DEFENSE,
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NIAGARA COUNTY, NEW YORK

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COMPLETION OF SENIOR TECHNICAL REVIEW

This document has been produced within the framework of EA's total quality management system. As such, a senior technical review, as defined in the Quality Control Plan (EA 2005d), has been conducted. This included review of the overall design addressed within the document, proposed or utilized technologies and alternatives and their applications with respect to project objectives and framework of USACE regulatory constraints under the current Defense Environmental Restoration Program (DERP)-Formerly Used Defense Sites (FUDS) Hazardous, Toxic, and Radiological Waste (HTRW) project within which this work has been completed.

[redacted] 15 August 2007

Gordy Porter,
Senior Technical Reviewer

Date

COMPLETION OF INDEPENDENT TECHNICAL REVIEW

This document has been produced within the framework of EA's total quality management system. As such, an independent technical review, appropriate to the level of risk and complexity inherent in the project as defined in the Quality Control Plan (EA 2005e), has been conducted. This included review of assumptions (methods, procedures, and material used in analyses), alternatives evaluated; the appropriateness of data used and level of data obtained; and reasonableness of the results, including whether the product meets the project objectives. Comments and concerns resulting from review of the document have been addressed and corrected as necessary.

[redacted] 13 August 2007

Barbara C. Roeper, P.E.
Independent Technical Reviewer

Date

EXECUTIVE
SUMMARY

EXECUTIVE SUMMARY

EA Engineering, Science, and Technology, Inc. (EA) was contracted by the U.S. Army Corps of Engineers (USACE) to conduct an investigation of the underground utilities associated with Lake Ontario Ordnance Works (LOOW) formerly used defense site in Niagara County, New York. The work was performed under contract number W912DR-05-D-0008, delivery order numbers 0001and 0018 in response to the 31 March 2005 Scope of Work. This underground utility remedial investigation (UURI) was performed from Fall 2005 through January of 2007.

The project boundaries were limited to sludge and wastewater within, subsurface soil beneath, and surface soil at discharge points associated with underground utilities that were put in place to support the formerly used defense sites within the footprint of LOOW and which did not appear to have been impacted heavily by non-Department of Defense (DOD) site users. Subsequent to the closing of LOOW trinitrotoluene (TNT) manufacturing plant in 1942, the area included in the UURI was used by other DOD agencies, specifically by the Air Force for an experimental high-efficiency borane fuels plants (Air Force Plant-68 [AFP-68]) and by the Army for a NIKE Base. The majority of the underground utilities are on property currently owned by Waste Management LLC (WM), Somerset Group, and the Town of Lewiston. However, a discharge line (referred to as the 30-in. outfall) from the formerly used LOOW wastewater treatment plant (WWTP) to the Niagara River traverses multiple property owners, including the Lewiston-Porter Central School District.

The work was performed in two distinct phases. The first phase included an evaluation of the location of lines and line contents through a camera and geophysical survey. Data gathered during the first phase were used to design a sampling and analysis program for the second phase, which included excavation of lines to gain access, and sampling of sludge, wastewater, subsurface soil, and liquid contained within the bedding material. The location of bedding materials in relation to the underground is line specific with a majority of bedding materials being located underneath the line.

Several distinct line types were discovered during the initial phase. Underground lines associated with the former LOOW TNT plant and evaluated during the UURI included:

- Acid waste sewer lines
- Sanitary sewer lines
- Unknown lines (possibly process lines for the TNT plant)
- Lines associated with drains, pits, and sumps

- Several lines within the WWTP
- The 30-inch (in.) outfall line

A TNT waste line was also associated with the LOOW TNT plant. However, this line is undergoing an interim remedial action under the direction of the USACE and was not included in the UURI.

Underground lines associated with the former AFP-68 included:

- A chemical waste sewer line (the main trunk line of which is undergoing an interim remedial action under the direction of the USACE)
- An acid waste sewer line (the main trunk line of which is undergoing an interim remedial action under the direction of the USACE)
- Wastewater lines
- Stormwater lines
- Unknown lines (possibly process lines for the AFP-68)
- Lines associated with drains, pits, and sumps.

Underground lines associated with the former NIKE Base included:

- Sanitary sewer
- Unknown lines
- Lines associated with drains, pits, and sumps.

During the UURI, a total of 202 excavations were performed, and 344 samples were collected from within or beneath utility lines encountered in those excavations. Additionally, 13 surface soil samples were collected where some of these utilities (predominantly wastewater and stormwater lines) discharge onto the ground surface at outfalls into surface water drainages. One co-located surface water/sediment sample was collected beneath the 30-in. outfall line at the point where it traverses the Southwest Drainage Ditch on Lewiston-Porter Central School District property.

Table ES-1 summarizes the types of constituents (by analyte group) retained as constituents of potential concern (COPCs) based on comparison to risk-based criteria. Results are summarized by line type and property owner. The results indicated that sampled matrices associated with the water lines (potable and cooling water) and 30-in. outfall line were the least impacted. Water lines were not originally targeted for inclusion in the UURI, but were sampled at four separate locations as directed by the USACE.

The most heavily impacted underground utilities were located on WM property and included the acid waste sewer, chemical waste sewer, sanitary sewer lines, and unknown line types. Some of the impact appeared to be associated with several of the lines traversing the same area and not necessarily associated with a specific line type. For example, underground lines within some portions of the former AFP-68 (specifically Process Areas 20 and 8) were heavily impacted with semivolatile organic compounds (SVOCs), pesticides, and polychlorinated biphenyls (PCBs). Several different line types in these areas reported similar COPCs. A similar example exists in AFP-68 Process Area 14, where both a wastewater line and unknown line, both associated with an earthen berm fuel oil tank containment area, were heavily impacted with volatile organic compounds (VOCs), SVOCs, PCBs and metals.

Trends such as increasing or decreasing trends in constituent concentration or correlations between constituents, lines, and soil types were not discernible in many of the lines. This may be due to the fact that several lines, including the former LOOW acid waste sewer, sanitary sewer, and stormwater lines were previously sealed to prevent migration within the lines. In addition, the LOOW TNT waste lines and the main trunk lines for the AFP-68 acid and chemical waste sewer lines are undergoing an interim remedial action conducted under the direction of the USACE and have been either cleaned and sealed in place or removed, leaving the secondary lines sealed at the confluence with the main line. These sections of secondary lines (an in some instances, the main trunk line) are in effect acting more as tanks rather than open conveyance for migration of potential constituents.

Some lines, most prevalently the AFP-68 wastewater lines, were underlain by bedding material. In the southeastern portion of AFP-68, water was found to be located with pore spaces of the surrounding matrix in this bedding material during the UURI. Samples were collected of this bedding material water. Results indicated several COPCs, including VOCs, SVOCs, PCBs, and metals exceeding the risked-based criteria in the liquid samples. Although these constituents may move within the bedding beneath portions of the wastewater line, the main line is underlain with non-porous bedding material, native fat clay of the upper clay till; thereby effectively sealing the pathway.

Although collection and evaluation of ground water was not included in this investigation, site-specific soil screening levels were derived for comparison to subsurface soil results to evaluate the potential for impact to ground water. This evaluation indicated that subsurface soil in the area of AFP-68 Process Areas 8, 14, and 20 were impacted with COPCs in concentrations that had the potential to impact ground water. Subsurface soil concentrations from samples collected from other properties did not exceed the soil screening levels (SSLs), with the exception of iron, which exceeded the SSL in most subsurface soil samples collected from each of the properties included in the UURI investigation.

TABLE ES-1 SUMMARY OF ANALYTICAL GROUPS WITH COPC IDENTIFIED DURING THE UURI

Line Type:	Acid Waste									Chemical Waste				Drains, Pits, Sumps, Vaults								Sanitary Sewer									
Property:	Somerset Group			WM			Town of Lewiston			Waste Management				Somerset Group			WM			Town of Lewiston		Somerset Group			WM				Town of Lewiston		
	SL	WW	SO	SL	WW	SO	SL	WW	SO	SL	WW	WB	SO	SL	WW	SO	SL	WW	SO	SL	WW	SL	WW	SO	SL	WW	SS	SO	SL	WW	SO
VOC					X						X	X						X		X			X		X	X					
SVOC		X		X	X		X	X		X	X		X					X		X		X	X	X	X	X		X			
Pesticides				X	X		X				X				X		X	X	X		X		X		X	X				X	
PCB				*	X	X	X			X	X		X	X					X						X	X					
Explosives					X																					X					
Metals		X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Line Type:	Stormwater Lines			Wastewater Lines										Unknown Lines								Cooling and Potable Water			30-in. Outfall					
Property:	Somerset Group	WM		Somerset Group				WM				Town of Lewiston		Somerset Group				WM				Somerset Group		WM	Various Owners					
	SS	WW	SO	SL	WW	SS	SO	WW	WB	SS	SO	SL	SO	SL	WW	SS	SO	SL	WW	SS	SO	WW	SO	WW	WS	SD	SO	SL	WW	
VOC					X			X	X					X	X				X		X	X		X						
SVOC	X	X		X	X		X	X	X	X	X			X	X		X	X	X		X	X	X				X	X		
Pesticides		X						X			X				X		X	X	X										X	
PCB								X	X		X						X	X			X									
Explosives																			X											
Metals	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X			X			X	X	X	

Blank cell = no constituents identified as COPC
SL = sludge
SO = subsurface soil
SS = surface soil
SD =sediment
WB = bedding material water
WS = Surface water
WW = wastewater
* In samples with elevated PCB (Aroclors) reporting limits, those Aroclor compounds are potentially present at concentrations below the reporting limit but could not be quantified due to interference from other Aroclor compound concentrations that were elevated but rejected during data validation.

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LIST OF ACRONYMS AND ABBREVIATIONS

AEC	Atomic Energy Commission
AFP	Air Force Plant
ARAR	Applicable or Relevant and Appropriate Requirement
ATSDR	Agency for Toxic Substances and Disease Registry
AW	Acid Waste
bgs	below ground surface
CDD	Central Drainage Ditch
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
cm/sc	Centimeter per second
COPC	Constituent of Potential Concern
cpm	Counts per minute
CQAR	Chemical Quality Assurance Report
CSM	Conceptual Site Model
CW	Chemical Waste
CWM	CWM Chemical Services, LLC (predecessor of WM LLC)
DAF	Dilution Attenuation Factor
DERP-FUDS	Defense Environmental Restoration Program—Formerly Used Defense Sites
DNT	Dinitrotoluene
DNX	hexahydro-1,3-dinitroso-5-nitro-1,3,5-triazine
DOD	Department of Defense
DOE	Department of Energy
DQI	Data Quality Indicator
DQO	Data Quality Objective
DW	Drains, Pits, Sumps, Tanks
EA	EA Engineering, Science, and Technology, Inc.
EDD	Electronic Data Deliverable
EE/CA	Engineering Evaluation/Cost Analysis
EPA	Environmental Protection Agency
ERDA	Energy Research and Development Administration
ft	Foot/Feet
FUSRAP	Formerly Utilized Sites Remedial Action Program
Golder	Golder Associates
GPL	GPL Laboratories, LLLP
HASP	Health and Safety Plan
HHRA	Human Health Risk Assessment
HMX	High Melting Explosives

LIST OF ACRONYMS AND ABBREVIATIONS CONTINUED

HRC	Hazards Research Corporation
HTRW	Hazardous, Toxic, and Radiological Waste
IDW	Investigation Derived Waste
in.	inch(es)
IPPP	Interim Production Pilot Plant
IRA	Interim Remedial Action
kg	Kilograms
lbs	pounds
LEW	Town of Lewiston
LOOW	Lake Ontario Ordnance Works
MEC	Munitions and Explosives of Concern
MDL	Method Detection Limit
mg	Milligrams
mg/kg	Milligrams per kilogram
mg/L	Milligrams per Liter
MS	Matrix Spike
msl	Mean Sea Level
MSD	Matrix Spike Duplicate
NAD83	North American Datum 1983
NFSS	Niagara Falls Storage Site
NPL	National Priorities List
NY	New York
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OCC	Occidental Chemical Corporation
OF	Outfall
OSHA	Occupational Safety and Health Administration
OU	Operable Unit
PAH	Polynuclear Aromatic Hydrocarbon
PARCCS	Precision, Accuracy, Representativeness, Completeness, Comparability, and Sensitivity
pCi/g	picocuries per gram
PCA	Preliminary Contaminant Assessment
PCB	Polychlorinated Biphenyl
PCE	Tetrachloroethylene
%	Percent
ppm	parts per million

LIST OF ACRONYMS AND ABBREVIATIONS CONTINUED

PRG	Preliminary Remediation Goal
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
QCP	Quality Control Plan
RDX	Hexahydro-1,3,5-trinitro-1,3,5-triazine
RI	Remedial Investigation
RL	Reporting Limit
RSP	Radiation Safety Plan
SAP	Sampling and Analysis Plan
SARA	Superfund Amendments and Reauthorization Act
SCA	Service Corporation of America, Inc.
SD	Sediment
SL	Sludge
SLF	Secure Landfill
SN	Sanitary Sewer
SO	Soil
SOM	Somerset Group
SOP	Standard Operating Procedures
SOW	Scope of Work
SQL	Sample Quantitation Limit
SS	Surface Soil
SSL	Soil Screening Level
ST	Storm Sewer
SUXOS	Senior Unexploded Ordnance Supervisor
SVOC	Semivolatile Organic Compound
SW	Surface Water
SWDD	Southwest Drainage Ditch
TAGM	Technical and Administrative Guidance Memorandum
TAL	Target Analyte List
TBC	To Be Considered
TCA	Trichloroethane
TCE	Trichloroethylene
TCL	Target Compound List
TNT	2,4,6-Trinitrotoluene
TOC	Total Organic Carbon
TOG	Technical and Operational Guidance
TPP	Technical Project Planning
μCi/g	microcuries per gram
μg	micrograms
μg/kg	micrograms per kilogram

LIST OF ACRONYMS AND ABBREVIATIONS CONTINUED

µg/L	micrograms per Liter
UN	Unknown
UPL	Upper Prediction Limit
USACE	United States Army Corps of Engineers
USAF	United States Air Force
U.S. EPA	United States Environmental Protection Agency
UST	Underground Storage Tank
UURI	Underground Utility Remedial Investigation
VOC	Volatile Organic Compounds
W	Water
WB	Water – Bedding
WC	Water – Cooling
Weston	Roy F. Weston, Inc.
WG	Ground Water
WP	Water – Potable
WM	Waste Management LLC
WW	Wastewater
WWTP	Wastewater Treatment Plant

CHAPTER 1

1. INTRODUCTION

1.1 PURPOSE OF REPORT

EA Engineering, Science, and Technology, Inc. (EA) was contracted by the U.S. Army Corps of Engineers (USACE) to conduct an investigation of the underground utilities associated with former Department of Defense (DOD) facilities on the Lake Ontario Ordnance Works (LOOW) formerly used defense site in Niagara County, New York (NY) (Figures 1-1 and 1-2). The work is being performed under contract number W912DR-05-D-0008, delivery order numbers 0001and 0018 in response to the 31 March 2005 Scope of Work (SOW) (USACE 2005). This investigation represents the third phase of an ongoing remedial investigation (RI) of LOOW. The Phase I and Phase II RI are documented in the:

- *Final Report of Results for the Phase I Remedial Investigation at the Lake Ontario Ordnance Works, Niagara County, New York*, dated July 1999 (EA 1999),
- *Final Report of Results for the Phase II Remedial Investigation at the Lake Ontario Ordnance Works, Niagara County, New York*, dated February 2002 (EA 2002).

This work was conducted under the ongoing authorized Defense Environmental Restoration Program-Formerly Used Defense Sites (DERP-FUDS) Hazardous, Toxic, and Radioactive Waste (HTRW) project and as outlined in the SOW. Each of the former DOD facilities discussed in this report is formerly used and is no longer functioning in their original capacity.

Field activities were conducted in accordance with the following USACE-approved planning documents:

- *Scope of Work for Remedial Investigation of Lake Ontario Ordnance Works, Niagara County, NY* (SOW) (USACE 2005);
- *Addendum II to the Health and Safety Plan for the Phase I Remedial Investigation at the Former Lake Ontario Ordnance Works, Niagara County, New York, for the Phase III Remedial Investigation - Underground Lines* (HASP) (EA 2005a);
- *Addendum to the Radiation Safety Plan for TNT Site Walkover, Lake Ontario Ordnance Works, for Radiation Safety, Phase III Remedial Investigation - Underground Lines At The Former Lake Ontario Ordnance Works, Niagara County, New York* (RSP) (EA 2005b);

- *Addendum To The ISSI Ordnance and Explosives Support Services Work Plan for Munitions And Explosives Of Concern(MEC)Operations for the Phase III Remedial Investigation - Underground Utility Lines at the Former Lake Ontario Ordnance Works, Niagara County, New York* (MEC) (EA 2005c);
- *Final Work Plan of Action for the Non-Intrusive Activities for the Phase III Remedial Investigation – Underground Lines At The Former Lake Ontario Ordnance Works, Niagara County, New York* (EA 2005d);
- *Quality Control Plan for the Remedial Investigation of Underground Lines at the Former Lake Ontario Ordnance Works, Niagara County* (QCP) (EA 2005e);
- *Addendum to the Work Plan Asbestos Containing Material Removal at the Former Lake Ontario Ordnance Works, Niagara County, New York* (EA 2005f);
- *Final Sampling and Analysis Plan for Phase III Remedial Investigation – Underground Lines at the Former Lake Ontario Ordnance Works (LOOW), Niagara County, New York* (SAP), dated June 2006 (EA 2006a);
- *Addendum #1 to the Sampling and Analysis Plan for Phase III Remedial Investigation – Underground Lines at the Former Lake Ontario Ordnance Works (LOOW), Niagara County, New York, for the Formerly Used DOD Underground Lines Located on the Somerset Group Property*, dated July 2006 (EA 2006b); and
- *Addendum #2 to the Sampling and Analysis Plan for Phase III Remedial Investigation – Underground Lines at the Former Lake Ontario Ordnance Works (LOOW), Niagara County, New York, for the Formerly Used DOD Underground Lines Located on the Remaining (non-Somerset Group) Properties*, dated August 2006 (EA 2006c)

The purpose of this report is to document the activities conducted as part of the Phase III RI of LOOW, which was specific to the underground utility lines formerly used by the DOD. The investigation is referred to as the underground utility remedial investigation (UURI) and was conducted in two distinct phases: the non-intrusive phase, consisting of locating the lines through evaluation of available historical drawings, site geophysics, and camera surveys; and the intrusive phase, which consisted of collection of sludge, wastewater, and soil samples from within and adjacent to the lines. This report documents the findings of both phases of the UURI.

1.2 SITE BACKGROUND

1.2.1 Site Description

LOOW consists of a 7,500-acre area purchased in 1940 through 1942 for construction of a trinitrotoluene (TNT) manufacturing facility (Figure 1-2) (Section 1.2.2). The plant was closed in the later part of 1943. The majority of the LOOW acreage (approximately 6,500 acres) was transferred from DOD ownership prior to 17 October 1986, making this former LOOW acreage eligible for inclusion into the DERP-FUDS. However, some parcels are currently owned by the DOD, or were transferred from the DOD subsequent to 17 October 1986, and are not eligible for inclusion into the DERP-FUDS. Land use within the 7,500-acre area is primarily agricultural, with residential parcels bordering roads, the Lewiston-Porter Central School District on the western boundary of the site, municipal and light industrial facilities, and a series of landfill and waste containment operations (Waste Management LLC [WM]), Modern Landfill, Inc., and Niagara Falls Storage Site [NFSS] in the east-central area of the site. The government-owned NFSS is part of the Formerly Utilized Sites Remedial Action Program (FUSRAP.)

The lines associated with the former DOD facilities traverse ten main property owners: WM, Somerset Group, Town of Lewiston Property, the NFSS, Modern Landfill Inc., U.S. Air Force, U.S. Army, Occidental Chemical Corporation (OCC), National Grid (formerly Niagara Mohawk), and Lewiston-Porter Central School District. Lines included in this UURI traverse property owned by Somerset Group, WM, the Town of Lewiston, National Grid, OCC, and the Lewiston-Porter Central School District (Figure 1-3).

The area of the Somerset Group property is comprised of deteriorating formerly used DOD buildings associated with Air Force Plant (AFP)-68, and is characterized by primarily grassy fields with some brush and some wooded areas, with intermittent large piles of building debris and rubble. The current owner has used the site for light industrial purposes (primarily shipping and storage) and for collection and sale of scrap from the site structures.

The area of the UURI located on WM property is comprised primarily of formerly used DOD buildings associated with AFP-68, LOOW, and the NIKE Base. Some of the DOD buildings have been partially or totally demolished. Those buildings still in existence are in various stages of deterioration. The area of the AFP-68 is comprised of highly deteriorated buildings and foundations surrounded by woods and brush with scattered piles of building rubble and debris. WM also uses some areas around and within AFP-68 buildings for storage. Also on WM property, and included in the UURI, are the Mononitration House, Fortifier Building, and Bi-trinitration House of the fifth production line of the LOOW TNT. The buildings were constructed of wood and are severely deteriorated. The area surrounding the nitration houses is comprised of woods and brush in the central area, grass and a WM retaining pond to the north, and a WM ground water interceptor trench and treatment system to the south and east. The area of the formerly used NIKE Base is located in the eastern portion of WM and is comprised of highly deteriorated NIKE Base buildings surrounded primarily by tall grass and brush with some wooded areas in the southeast area of the Base. The central portion of the WM property is currently used by the owner for landfill operations and associated treatment and support facilities. Some formerly used DOD utility lines may exist within this heavily utilized area of the site, but are not included in the UURI (see Section 1.3).

The area of the UURI located on the Town of Lewiston property consists of underground lines associated with the LOOW wastewater treatment plant (WWTP) and is comprised primarily of brush and grass and LOOW WWTP buildings, including a deteriorated acid neutralization building, the foundation from a sewage pump house and two sludge beds, and an Imhoff tank. The 30-inch (in.) diameter WWTP outfall line exited the WWTP to the west and terminated at the Niagara River, after traversing several parcels, including OCC and Lewiston-Porter Central School District.

The area of the UURI located on National Grid, OCC and Lewiston-Porter Central School District properties is comprised primarily of woods and is traversed by the 30-in. outfall line.

1.2.2 Site History

In 1942, the War Department obtained a 7,500-acre area in northwestern Niagara County, NY, for the construction of a TNT production facility designated as the LOOW (Figure 1-2). Prior to purchase, the 7,500-arce area was used primarily for agricultural purposes, with some residential areas bordering main roads. TNT production, support, and storage facilities were constructed on 2,500 acres in the eastern portion of the LOOW property. The remaining 5,000 acres in the western portion were left undeveloped, presumably to allow for possible expansion of the plant from 6 to 12 production lines. The plant expansion never occurred, and this acreage in the western portion of LOOW acted primarily as a buffer zone between site activities and the surrounding area. In 1943, after approximately nine months of operation, LOOW was decommissioned due to excess production at other TNT plants. The 2,500–acre production area of LOOW was subsequently used by various agencies, including but not limited to:

- the Air Force, which subsequently built Air Force Plants (AFP)-38 and AFP-68, an engine testing and high efficiency borane fuels plant, respectively;
- the Navy, which built the Interim Production Pilot Plant (IPPP), also for production of high efficiency borane fuels,
- the Army for construction of a NIKE Base and for the Northeast Chemical Warfare Depot, a storage and distribution center for supplies.

In the mid-1940s, approximately 1,500 acres in the southern portion of the LOOW were transferred to the USACE—Manhattan Engineer District. The Manhattan Engineer District subsequently became the U.S. Atomic Energy Commission (AEC), then the Energy Research and Development Administration (ERDA), and finally the U.S. Department of Energy (DOE). Portions of the 1,500 acres, formerly a part of the LOOW TNT production plant, were used for storage of radioactive materials. However, from the 1950s to 1980s, radioactive materials that were formerly located throughout the 1,500-acre property were consolidated into a waste containment structure located on the 191-acre NFSS. Portions of the 1,500-acre area overlap with the areas previously described (e.g., AFP-68, NIKE Base) that are included in this Phase III RI.

Infrastructure to support LOOW, AFP-68, the Navy IPPP, and the NIKE Base included several underground lines, consisting of a TNT waste sewer, an acid waste sewer, a chemical waste sewer, sanitary sewers, storm sewers, water lines, possible communication lines, and process lines.

1.2.3 Underground Utilities

Lines included in this UURI traverse property owned by WM, Somerset Group, the Town of Lewiston, National Grid, OCC, and Lewiston-Porter Central School District. A representation of the former DOD facilities and property boundaries of current owners is presented in Figure 1-3. Table 1-1 lists the underground line types expected at each facility based on review of historical information. Historical drawings detailed the location of many of these lines. The list of pertinent historical drawings is presented in Table 1-2.

Figure 1-4 illustrates the extent of DOD underground utilities. Figure 1-5 presents an overview of the project boundaries and those portions of underground lines included in the current RI (see Section 1.3).

1.2.3.1 LOOW Utilities

The main underground utility lines associated with formerly used DOD facilities consist of various possible process lines, TNT wash-water waste, sanitary sewer, acid waste sewer, stormwater, steam, and water (main Niagara River fresh water intake line, fire protection, potable, cooling and process).

<u>TNT Wastewater Lines</u>

The LOOW WWTP received sanitary waste and production waste from acid sewers and TNT washing facilities. The TNT plant consisted of six production lines, with wash houses discharging TNT production wastewater to a pair of parallel, east-west trending waste lines that ran just north of the wash houses. The TNT waste pipelines turned southwest down gradient of the sixth line and terminated at the mixing house of the WWTP. During construction of AFP-68, waste lines from AFP-68 sumps associated with the acid waste neutralization area and chemical sewer tied into the LOOW TNT waste lines. An interim remedial action (IRA) of these TNT waste lines was initiated by the USACE in 2000. Field work associated with the IRA has been completed, administrative closure is on-going. The lines were located on property currently owned by WM and the Town of Lewiston.

From the WWTP, the wastewater was discharged to the Niagara River through the 30-in. diameter concrete encased outfall line.

<u>Sanitary Sewer</u>

According to historical drawings, the main sanitary sewer lines trended east to west and ran along the south sides of LOOW J Street and M Street on property currently owned by WM, centrally between N Street and O Street and two secondary streets on NFSS. Figure 1-4 illustrates the overall layout of the DOD underground utilities, including the sanitary sewer. Other north-south trending sanitary sewer lines paralleled the west sides of Marshall Street and Campbell Street, and the east side of a portion of MacArthur Street. The main sanitary sewer line west of Campbell Street received the wastes from the entire plant. A single sanitary sewer line entered the east side of the WWTP pumping station. The sanitary waste was settled and treated in an Imhoff tank, and wastewater was released to a collection tank.

<u>Acid Waste Sewer</u>

There were two main branches to the acid waste sewer lines at the LOOW. Although the southern and eastern portions of the acid waste sewer are not included in the current UURI due to potential impacts from other responsible parties (the eastern portion of the line) and/or inclusion into other DOD investigations (the southern portion on NFSS), the western portion is included (see Figure 1-5). The southern branch received wastes from the acid production and concentration areas between O Street and N Street (located on NFSS property). The main waste line from this area crossed N Street trending to the northwest (J.G. White 1942). It terminated in a manhole just west of Campbell Street. The second main acid waste sewer line received wastes from the laboratories and nitration houses north of M Street. Three branches originating from the nitrating houses traveled south to a pair of 24 –in. diameter main trunk acid waste sewer lines trending east to west just south of M Street. Between the last two TNT production lines, the acid waste sewer turned southwest and terminated at the manhole described above. From this manhole a single acid waste sewer line trended to the west and entered a manhole on the north side of the acid neutralization building at the WWTP on property currently owned by the Town of Lewiston (J.G. White 1942). From this manhole, liquid waste entered the neutralization building; overflow entered the Western Drainage Ditch.

After treatment, the neutralized acidic wastewater and chlorinated sanitary wastewater entered a collection tank at the LOOW WWTP. From the collection tank, sanitary and neutralized acid wastewater was sent to the mixing tank before final release to the 30-in. outfall sewer. This final mixing house was removed during an IRA conducted by the USACE in 2000. The outfall sewer trended west from the WWTP mixing tank across property currently owned by National Grid, OCC, and Lewiston-Porter Central School District before crossing Creek Road, and continued southwest to a manhole just west of River Road. From this manhole, wastewater exited to the west to a head house. Two 12-in. high pressure discharge lines exited the head house to the northwest and discharged into the Niagara River (J.G. White 1942). The 30-in. outfall line was retrofitted by the Town of Lewiston for use in their public sanitary sewer system. However, the line did not prove adequate as a sanitary sewer. The Town currently uses a portion of the line west of the Southwest Drainage Ditch (SWDD) as a stormwater sewer.

Former AFP-68 underground lines tied into existing LOOW underground lines between the fifth and sixth nitration line, west of the existing nitration houses. The AFP-68 wastewater line tied into the LOOW acid waste sewer at a manhole located approximately 375 feet (ft) north of M Street on property currently owned by WM. A second tie-in from the AFP-68 wastewater line occurred at the most northern LOOW acid waste sewer manhole, west of the LOOW fifth line TNT acid fume recovery building. The AFP-68 sewer main tied into the existing LOOW sewer line at the most northern LOOW sanitary sewer manhole west of the fifth nitration line TNT wash house.

Process Lines

Lines were utilized to convey materials between and within the TNT process areas. Specific materials conveyed in these "process" lines included (Ordnance Department 1942):

- TNT mixed acid
- Various types and strengths of acids (oleum, nitric, sulfuric and acid mixes and residuals)
- Ammonia
- Sellite
- Oils
- Soda ash and lime solutions
- Brine
- Chlorine
- Toluene
- Fuel oil
- Gas
- Steam
- Air

Within the project study area, these types of lines would be most prevalent within the existing Nitration House area. Documentation as to whether these lines were above ground, underground, or a combination of both was not available. However, anecdotal information suggests that these lines may have been above ground. For example, storage tanks for LOOW were above ground tanks with the exception of gasoline storage tanks. The above ground tanks, including TNT residual acid tanks and toluene storage support tanks within the Nitration House area, were located adjacent to rail lines, suggesting that rail cars were utilized to transfer the material. Above ground lines are visible trending from the rail track to the above ground toluene tank. Historical photos illustrate a series of above ground lines traversing between the Bi-trinitration House and those buildings south of the Bi-trinitration House. Similar above ground lines are visible exiting the fortifier building. Above ground lines are also visible exiting the north wall of the Mononitration House and trending north toward the fortifier and/or Bi-trinitration House. It is possible that some of the identified unknown lines may be process lines since process lines do not have identifying marks.

Stormwater Lines

The LOOW underground stormwater lines discharged into several surface water drainage systems (J. G. White 1942). The main underground storm sewers trended east to west. Based on interpretation of available site maps, the most northern underground storm sewer trended east to west and ran just south of the TNT wash houses, which have been destroyed, but were located on property currently owned by WM. This line turned to the north between the fifth and sixth TNT production lines and discharged into the LOOW B Ditch. A second storm sewer trends east to west approximately 100 ft north of M Street (Figure 1-4). This storm sewer turned to the southwest just east of the fifth TNT production line and discharged into the LOOW H Ditch. These two northernmost lines are located on property currently owned by WM, and the ditches are still present.

A third LOOW storm sewer line was located approximately 40 ft south of N Street, trended east to west, and discharged directly into the Central Drainage Ditch (CDD). A fourth storm sewer was located just north of O Street and also discharged directly into the CDD. A fifth storm sewer line trended north-south along the east side of the LOOW shop area and discharged into L Ditch. These three storm sewer lines are located on property currently occupied by the NFSS. The CDD, as well as some of the secondary drainage ditches, was excavated in 1965 and 1983 through 1986 during remedial activities by the U.S. DOE to remove sediment with radioactivity elevated above clean up levels. Some of the concrete storm sewer outfalls to the ditches were removed, plugged, or otherwise altered during those activities.

Additional underground storm sewer lines were located in the LOOW administration area. These discharged directly into the head of the CDD. Modern Disposal Services, Inc currently owns this area. Interpretation of aerial photographs from 1997 suggests that the area has undergone extensive recent earthwork.

Water Lines

The main fire protection, cooling, and process water supply for the LOOW was from the Niagara River. A 42-in. main line, constructed of concrete and wood stave, transported the water from the Niagara River, paralleling and adjacent to Pletcher Road, to the LOOW freshwater treatment facility, formerly located on the current NFSS property. From the freshwater treatment facility, the water was conveyed through cast iron pipes south to the administration area, east to property currently owned by Modern Disposal Services, Inc., and north to the acid concentration and nitration areas. A fire main also trended north into the

TNT igloo storage area north of Balmer Road (Figure 1-4). Although the water lines were not included in the investigation (because there were no known COCs due to the potable water use), bedding materials were evaluated to determine if a preferential pathway exists.

Drinking water was supplied by the City of Niagara Falls and was conveyed to the site by a 10-in. potable water main that also paralleled Pletcher Road.

1.2.3.2 AFP-68 Utilities

Chemical and Acid Waste Lines

Available historical plans indicated a variety of possible utilities associated with AFP-68 (Table 1-2). Underground chemical and acid waste sewer lines originating from within process areas terminated in main chemical and acid waste sewer lines parallel to and east of Wesson Street. These eventually terminated into either a collection sump (designated 25-25 on historical drawings) or a drainage sump (designated 25-22 as indicated on historical drawing 324-02-23). Presumably, these sumps were associated with the acid neutralization lagoon and separator located south of Spruce Street and west of Wesson Street and eventually tied into the LOOW TNT waste lines terminating at the LOOW WWTP. The main trunk lines of the underground chemical and acid lines, and associated sumps, are undergoing an IRA and are not included in the UURI. However, the status of the secondary lines originating within the process areas and terminating in the main line is unknown. The secondary lines are included in the UURI.

Sanitary Sewer Lines

The sanitary sewer lines originated from lavatories in the cafeteria, administration building, dispensary, non-combustibles storage warehouse, and process buildings, as well as from the lavatory and oil-water separator in the maintenance shop. The lines in the northern portion of AFP-68 fed a main line trending east-west just south of Beech Street on property currently owned by the Somerset Group, which turned south to Pine Street and east to a lift station just east of Cedar Street. From the lift station, sewage was pumped to a main line trending south, located east of Cedar Street, where it eventually tied into an 8-in. diameter, vitreous clay, LOOW underground sanitary sewer line west of the TNT wash house (which has been destroyed) associated with the existing Nitration Houses. Additional sanitary sewer lines from the southern portion of AFP-68 trended east into this main 8-in. (increasing to 10-in.) diameter LOOW line.

Stormwater and Wastewater Lines

Some AFP-68 lines were designated as "WW" on existing site plans. These wastewater lines were utilized to drain water from bermed tank farms, foundations, etc. In the northern portion of AFP-68, wastewater lines from within the process areas trended to a westward flowing main trunk line that terminated in the CDD on property currently owned by the Somerset Group. In the southern portion of AFP-68, available plans indicate that the wastewater lines trended east out of the process areas and tied into a 15-in. (increasing to 24-in.) diameter LOOW acid waste sewer line west of the existing Nitration Houses. Flow from the acid waste sewer line appears to have been redirected from eventual termination into the WWTP to H Ditch (south of M Street).

According to available historical plans, stormwater was discharged to man-made surface water drainages within the plant.

Process Lines

Historical information also indicates several different types of process lines used to convey support material or intermediate products within and between process areas. Based on historical photographs of AFP-68, it is evident that some of these lines were above ground. However, the extent of underground process lines, if any, is unknown.

1.2.3.3 NIKE Base Utilities

Little historical evidence of the type and distribution of underground utilities supporting the former NIKE Base is available. Presumably, sanitary sewer lines originate from the barracks and likely terminate in a small treatment building within the southern portion of the NIKE Base. There is also historical aerial photograph evidence of a possible utility trench trending northwest-southeast between the northern silo area and southern control area of the NIKE Base. Presumably this is a communications or water line.

1.2.4 Previous Investigations

Portions of some of the underground utilities have been included in previous investigations. A limited RI conducted in 1988 and 1989 (Acres 1990), a preliminary contaminant assessment (PCA) conducted in 1991 (Acres 1992), and a more comprehensive RI conducted in 1998 (EA 1999) and 2000 (EA 2002) included collection of solids (sludge) and liquid (wastewater) from within the lines. Figures and tables detailing the location and results of previous investigations are presented in Appendix A. A summary of the previous investigations targeting the underground utility lines is presented below. Section 5 discusses the results of the Phase III UURI.

1.2.4.1 Investigation of LOOW Utilities

In October 1982, NY State Department of Environmental Conservation (NYSDEC) and Service Corporation of America (SCA) Chemical Services (predecessor to WM) collected three sediment samples from within the acid sewer lines of the former LOOW plant. Two additional samples were collected from within the TNT waste lines (Wehran 1978). Although results for all of the samples were not available, the crystalline material collected from location designated "2" was comprised of a mixture of nitrotoluenes consisting of approximately 2% nitrotoluene, 36% dinitrotoluene isomers, and 62% trinitrotoluene (NYSDEC 1982). The material sampled at this location was described as a 3- to 4-in. layer of brownish yellow crystals above a 1½-in. tarry layer. The Hazard Research Corporation (HRC) analyzed the sample to determine its shock sensitivity. Although the wet material was not sensitive to impact, the material exhibited shock sensitivity after drying in an average of 50 % of the trials at a drop height of 19.5 in. (NYSDEC 1982).

The TNT sewer lines were investigated in 1988 by Acres under contract to USACE-Kansas City District. A RI was completed and, as part of the RI, an attempt was made to locate the lines based on LOOW site maps and to verify the presence of the lines with test pit exploration. Test pits were excavated in areas of geophysical anomalies and in the suspected vicinity of the TNT waste lines, including north of WM Lagoon 7, and in the area directly north of the existing TNT nitration buildings. Concrete was reportedly encountered in the test pits and was misinterpreted to be building foundations. It was unknown at the time that the lines were concrete-encased, and therefore samples were not collected (Acres 1989a).

The TNT sewer lines were again investigated by Acres in 1989 under contract to USACE–Kansas City District. The supplemental RI included ground-penetrating radar, electromagnetic surveys, and test pit excavations in the immediate vicinity of the TNT buildings and in the area south of WM Secure Landfill (SLF) -12 where one section of the line was previously encountered. One of the acid lines near the nitration house was opened. Neither sediment nor liquid was encountered; therefore, a sample was not collected (Acres 1990). However, a nearby acid waste sewer manhole was sampled. The TNT line south of WM SLF-12 was opened, and samples of the sediment and water within the line were collected and analyzed for nitroaromatic compounds. Both a field TNT screening method and the analytical results for these samples indicated the presence of TNT. Reported concentrations of nitroaromatic compounds in soil samples collected adjacent to the pipelines were less than the concentrations reported in the samples from within the lines (Weston 1996). Although the concentrations of TNT in the samples were not believed to be shock sensitive, an explosives expert from Aberdeen Proving Ground in Aberdeen, Maryland, stated that detonable concentrations could still be present within the sewer lines (Weston 1996).

In October 1990, during excavation for an interceptor trench, WM encountered what appeared to be two sanitary sewer lines, a 36-in. stormwater sewer line, and a fire water line from the former LOOW and AFP-68 (Acres 1990). The storm sewer line, trending north-south, was encountered 50 ft north of "M" Street and south of the existing TNT building. The sanitary sewer, trending almost north-south, was encountered about 100 ft north of "M" Street. Reported concentrations of toluene and trichloroethylene (TCE) in sludge collected from the storm sewer exceeded 48 parts per million (ppm), with lower concentrations of polynuclear aromatic hydrocarbons (PAHs) reported in the samples. Nitroaromatic compounds were not reported in the samples. The analytical results for the sanitary sewer sludge sample indicated the presence of volatile organic compounds (VOCs), including carbon tetrachloride, tetrachloroethylene (PCE), toluene, 1,1,1-trichloroethane (TCA), and TCE at a reported total concentration exceeding 165 ppm. Semivolatile organic compounds (SVOCs), including hexachlorobenzene, hexachlorobutadiene, and 1,2,4-trichlorobenzene, were also reported at total concentrations exceeding 178 ppm (NYSDEC 1990). A description of the exact sample locations was not available.

In 1990, during the construction of the leachate collection system for SLF-12, WM encountered and excavated portions of the TNT sewer system located off the southeast corner of the landfill. Samples of residues from the north and south lines, as well as aqueous samples, were collected and analyzed for VOCs, SVOCs, pesticides, polychlorinated biphenyls (PCBs), inorganic compounds, and nitroaromatic compounds. VOCs and SVOCs were reported in the aqueous and residue samples from the south line. Nitroaromatic compounds were reported in the samples from the north line (Weston 1996). Approximately 180,000 pounds (lbs) of non-hazardous waste material were excavated and disposed (Weston 1996).

In 1992, a PCA of the WWTP was performed by Acres in which samples were collected from the pump house, the chlorination tank, the Imhoff tank, the sludge beds, the acid neutralization building, the collection tank, and the mixing house of the LOOW WWTP. Samples were analyzed for VOCs, SVOCs, PCBs, pesticides, and metals. A subset of sludge, sewage, and soil samples were submitted for explosive analysis.

Toluene, at a concentration of 5 micrograms per liter (μg/L), was reported in an aqueous sample from the chlorination tank. Concentrations were below detection limits for the aqueous samples from the collection tank, acid neutralization building, and pump house. Concentrations of VOCs, SVOCs, PCBs, and metals were reported in the sludge samples from these areas. The highest reported concentration of VOCs (497.8 micrograms per kilogram [μg/kg]) was reported in the sample from the pump house. The majority of the reported VOC constituents were benzene, toluene, ethyl benzene, and xylenes. The SVOCs reported in the sample were primarily PAHs, and the reported concentrations ranged from 8,700 to 29,000 μg/kg. PCB concentrations ranged from 2,500 to 32,300 μg/kg. A trace of 2,4-dinitrotoluene (2,4-DNT) was reported in the sludge sample from the neutralization building. Total concentrations of 2,554 μg/kg VOCs and 34,710 μg/kg SVOCs were reported in the sludge sample from the Imhoff tank. Trace concentrations of VOCs and SVOCs were reported in the sewage and sludge samples from the mixing house (Acres 1992).

Wastewater and sludge samples were also collected during the RI conducted in 1998 and 2000. The results from the Phase I and Phase II RI were compliant with the data quality objectives of this UURI and are presented in both the tables in Appendix A and in the data summary table included in Chapter 5. These samples are easily distinguishable by date of collection (1998 and 2000). The 1998 and 2000 UURI targeted existing DOD manholes, sumps, and foundation drains for access to underground utilities for sample collection. In addition, two excavations were performed in the existing Nitration House area to access potential lines exiting west from the Bi-trinitration House and Mononitration House. Samples were collected from the LOOW acid waste sewer, sanitary, and stormwater lines, on WM and NFSS properties, as well as the unknown lines in the Nitration House area. Additional samples were collected from foundation drains and pits/sumps associated with AFP-68.

Samples collected from lines on NFSS property were less impacted with constituents than those samples collected on WM property. Pesticides and SVOCs, including hexachlorobenzene, hexachloropentadiene, and hexachlorocyclopentatdiene, were reported in a sludge sample collected near the Mononitration House (C1-NH-PIPE1). SVOCs were also reported in a sludge sample (C1-NH-BP9) collected from within a liquid filled pit in the Nitration House area. Trace concentrations of explosives were reported in the wastewater sample collected from the pit.

Samples collected from foundation drains within AFP-68 Process Areas 8 (C1-8-BP-2) indicated impact from VOCs and pesticides. A sludge sample collected from a liquid filled pit on a concrete foundation within AFP-68 Process Area 2 indicated impact from SVOCs (including PAHs), pesticides, and explosives. A summary of results is included in Appendix A.

1.2.5 Sealing and Remediation of Abandoned LOOW Underground Lines at WM

In May 1975, the Town of Lewiston sealed the 30-in. diameter sanitary sewer line entering the LOOW WWTP. The sewer line was sealed due to suspicion that waste was entering the WWTP from Chem-Trol (predecessor to SCA and WM) property (EA 1998). A water pollution case report issued by the New York State Department of Health (NYSDOH) stated that floating organic material, believed to be industrial organic waste, was found in the manholes of abandoned sanitary sewers adjacent to Chem-Trol operations. Similar organic waste was also found on the surface of in-ground, concrete chemical waste storage tanks operated by Chem-Trol.

A consent order was issued by NYSDEC in 1978 to SCA, the predecessor of WM, to seal underground lines that may act as pathways for migration of waste. Figure 1-6 illustrates where these lines were blocked. The lines were associated with the LOOW TNT plant. Most of the lines illustrated on Figure 1-6 are in areas that have not been included for investigation due to regulatory constraints under the DERP-FUDS HTRW project (see Section 1.3). However, the areas of the fifth and sixth nitration line of the former LOOW are included under this investigation and also include lines plugged by WM.

In 1995, an Engineering Evaluation/Cost Analysis (EE/CA) for removal actions on WM and Somerset Group property was produced by Acres for USACE–Kansas City. The buried TNT waste pipelines were identified for removal in the analysis as part of Operable Unit 1 (OU-1) located on Town of Lewiston property. The EE/CA recommended that lines containing visible TNT be removed and that the TNT be destroyed through open flaming or detonation. Contaminated sediments were recommended for biotreatment. The remaining excavated materials were recommended for appropriate landfill disposal.

In 1996, Roy F. Weston, Inc. (Weston) produced a work plan for the remedial design of a removal action for USACE–Baltimore. The design included the removal and/or cleaning and sealing of the north and south TNT waste lines from the first TNT production line (eastern line) to the LOOW WWTP, as well as the AFP-68 chemical and acid waste sewer main trunk lines from within the Somerset Group property south through WM property. The lines have been removed or abandoned in place (with the exception of a section of TNT waste line located beneath the WM north salts area) as per the design. However, this removal action is still considered active by the USACE until final closure for these lines is achieved.

1.3 PROJECT SCOPE AND OBJECTIVES

Development of the scope of the UURI was based upon the results of the Phase I and Phase II investigations, DERP-FUDS HTRW regulatory constraints, and input from a technical project planning (TPP) meeting held in August of 2002.

1.3.1 Project Scope

The UURI is confined to the underground lines associated with LOOW, AFP-68, Navy IPPP, and the NIKE Base that are eligible for investigation under the current DERP-FUDS HTRW project.

Not all DOD underground lines are included in this investigation due to one or more of the following reasons:

- Known impact to the lines from non-DOD sources, rendering the lines ineligible for further investigation under this HTRW project.
- Lines are on property currently owned by the DOD, rendering the lines ineligible for further investigation under DERP-FUDS (NIKE Launch Area [northern portion of NIKE base currently owned by the U.S. Air Force], Army National Guard Weekend Training Site [currently owned by the U.S. Army]).
- Lines are being used by a subsequent property owner (e.g., down gradient portion of 30-in. outfall line).
- Lines have been or may be proposed for investigation under a separate project (NIKE Base underground storage tank [UST] lines and lines on NFSS property).
- Lines that have already been or are undergoing a remedial action under the direction of the USACE, such as the LOOW TNT waste lines and the AFP-68 main trunk acid and chemical waste sewer lines and sumps.
- Lines that would not be expected to be of environmental concern (e.g., water lines, steam, and stormwater lines).

Figure 1-5 illustrates areas included and excluded from the investigation. The project boundary is limited to the lines, contents of the lines, and subsurface soil directly beneath the lines.

1.3.2 Objectives

The principal study questions to be resolved by this UURI are the following:

- Were the underground lines used to convey only water or were they used to convey other materials?
- Do the underground lines contain contaminants?
- What are the nature and extent of the contaminants?
- Have the contaminants leaked from the pipelines?
- Are the contaminants from non-DOD sources?
- Do the underground lines or bedding for the lines present a preferential pathway for contaminant migration?
- Are there risks to human health and/or the environment from the contaminants?

The study questions resulted in the following project objectives for the RI:

- Locate and document formerly used DOD lines in areas fully eligible for investigation under the current DERP-FUDS HTRW project.
- Evaluate the nature and extent of constituents of potential concern. This will be addressed as discussed in the following bullets:
    - Assess whether the underground lines conveyed material potentially containing constituents of potential concern and thereby require further evaluation; for example if they conveyed potable water through uncontaminated areas, they may not require further evaluation.
    - Evaluate whether existing underground lines contain constituents of potential concern exceeding United States Environmental Protection Agency (U.S. EPA) Region 9 residential preliminary remediation goals (PRGs) or NYSDEC Technical and Administrative Guidance Manual (TAGM) 4046 risk-based guidance values, thereby warranting further evaluation (potential risk assessment and/or removal action).
    - Assess whether the contents of existing underground lines have impacted the subsurface soil in concentrations exceeding U.S. EPA Region 9 PRGs or NYSDEC TAGM 4046 health based guidance values, thereby warranting further evaluation (potential risk assessment and/or remedial action).
    - Assess whether underground lines are free from obstruction and/or contain permeable bedding material that would indicate that the lines are acting as preferential pathways for contaminant migration.

- Evaluate whether the constituents of potential concern are from DOD site use or may be from non-DOD users and may require an evaluation of impact from other responsible parties.

- Assess potential risks.

1.4 REPORT ORGANIZATION

This report includes relevant background information, project objectives, field and data evaluation methodology, and results of the UURI. The report is organized as follows:

- Chapter 1: Introduction, includes the purpose of the report, site background, a site description, site history, a summary of previous investigation, and report organization.
- Chapter 2: Study Area Investigations, includes a summary of the investigation of the contaminant source and the soil in the vadose zone.
- Chapter 3: Physical Characteristics of Study Area, includes information on the surface features, geology, soils, construction of underground line, bedding material of underground lines, final destination of underground lines, and the demography and land use of the site.
- Chapter 4 – Data Comparison Methods: Presents the guidance criteria to which the analytical results are compared in Chapter 5.
- Chapter 5: Site Characterization Results, includes discussion of the analytical results and comparison to regulatory guidance criteria.
- Chapter 6: Contaminant Fate and Transport, includes information on Potential Routes of Migration, includes information on Contaminant Persistence and Contaminant Migration.
- Chapter 7: Remedial Investigation Summary and Conclusions
- Appendices – The appendices include previous investigation results, detailed results of the non-intrusive investigation, field logs and data, complete sample results, and investigation derived waste (IDW) disposal summary.

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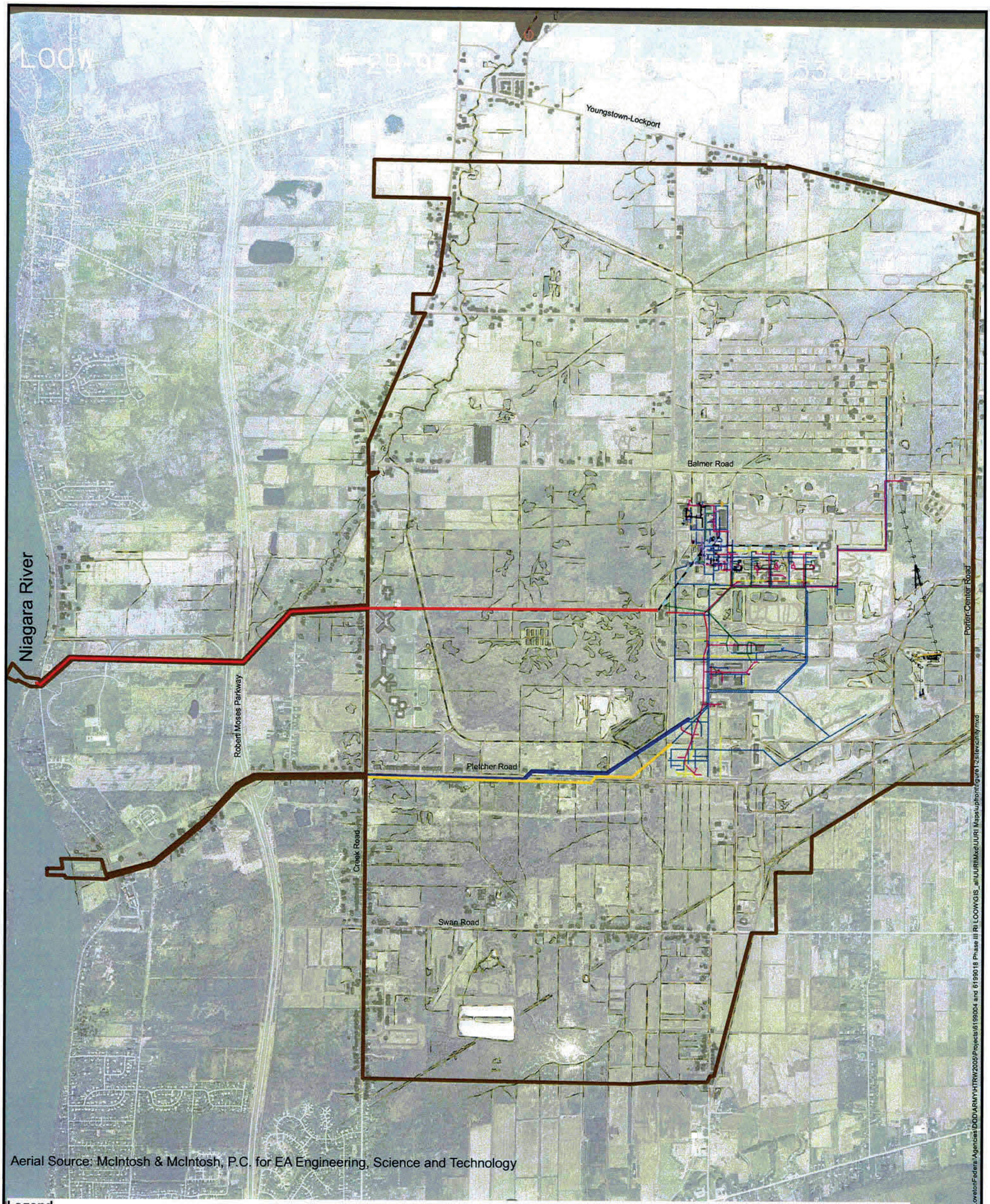
LAKE ONTARIO ORDNANCE WORKS

NIAGARA COUNTY, NEW YORK

SITE LOCATION

FIGURE 1-1



Legend

- 30-in Outfall
- 1942 LOOW Boundary (With 30-in Outfall and 42-in Intake Easements)
- 10-inch water line (Approximate Location)
- 42-in. Intake (Approximate Location)

Pipe and Cable/Camera Survey Confirmed Line Locations

- Acid Waste Sewer Lines
- Chemical Waste Sewer Lines
- Electrical Conduit Lines
- Fire, Drinking, Process and Cooling Water Lines
- Sanitary Sewer Lines
- Storm Sewer Lines
- Unknown Lines
- Wastewater Lines

Former Utility Lines Digitized from Historical Drawings

- Acid Waste Sewer Lines
- Chemical Waste Sewer Lines
- Electrical Conduit Lines
- Fire, Drinking, Process and Cooling Water Lines
- Sanitary Sewer
- Steam Lines
- Storm Sewer
- TNT Waste Line (Undergoing Interim Remedial Action)
- Wastewater Lines
- Unknown

Features

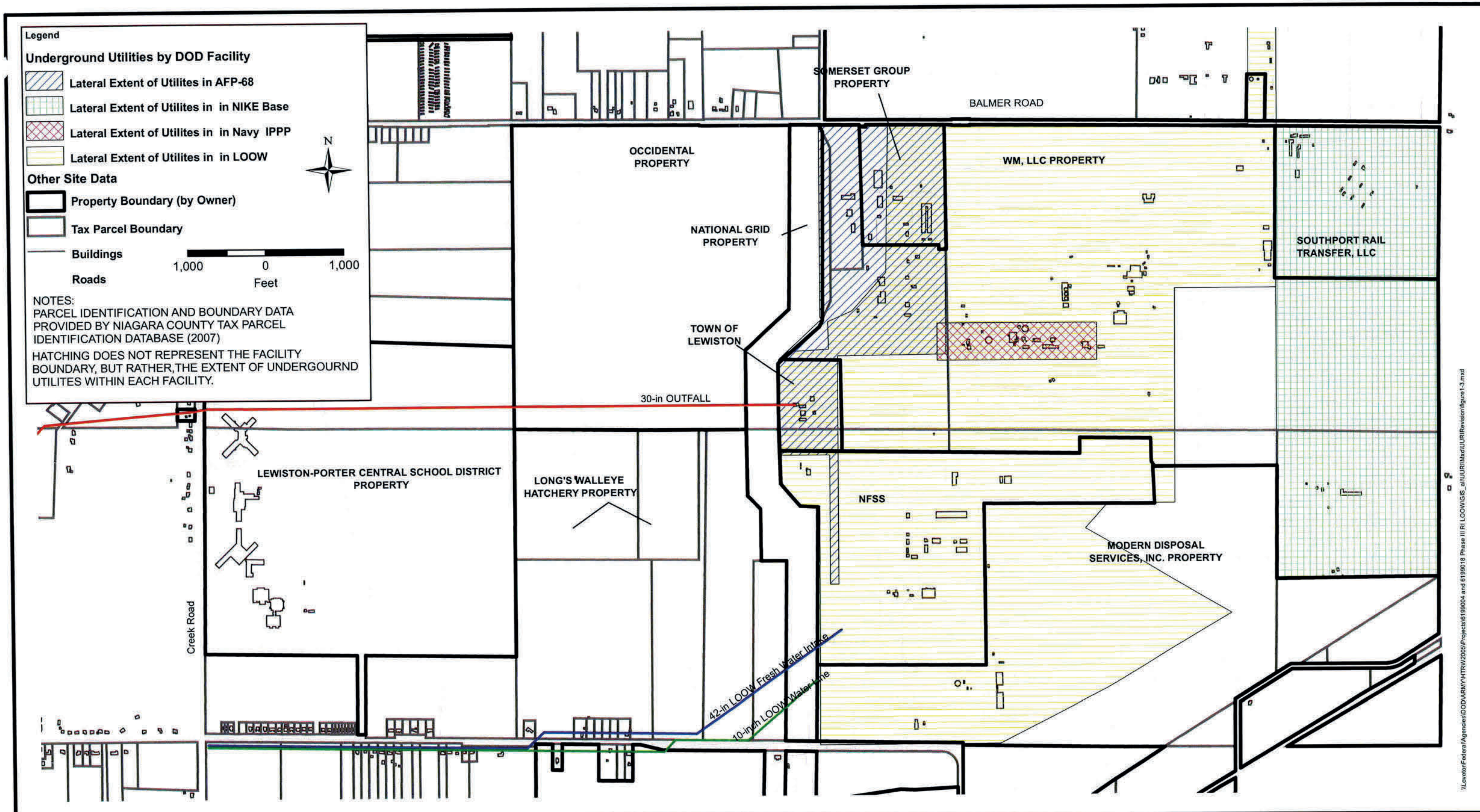
- Buildings
- Drainage
- Roads

N

1,500 0 1,500 3,000
Feet

EA Engineering, Science, and Technology, Inc.

LAKE ONTARIO ORDNANCE WORKS NIAGARA COUNTY, NEW YORK	SITE VICINITY FIGURE 1-2



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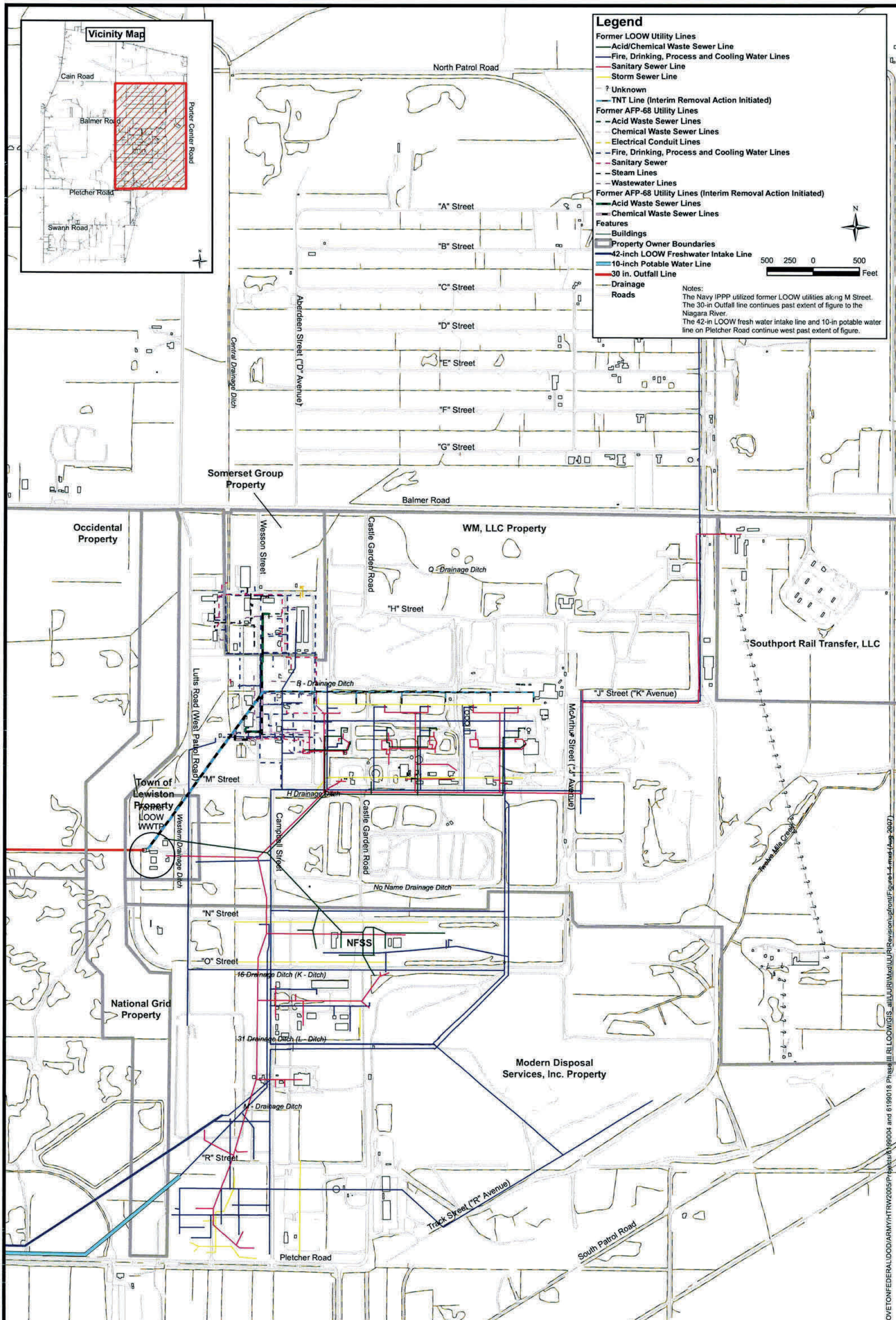
LAKE ONTARIO ORDNANCE WORKS

NIAGARA COUNTY, NEW YORK

AREAS OF UNDERGROUND UTILITIES WITHIN FORMER DOD FACILITIES

FIGURE 1-3



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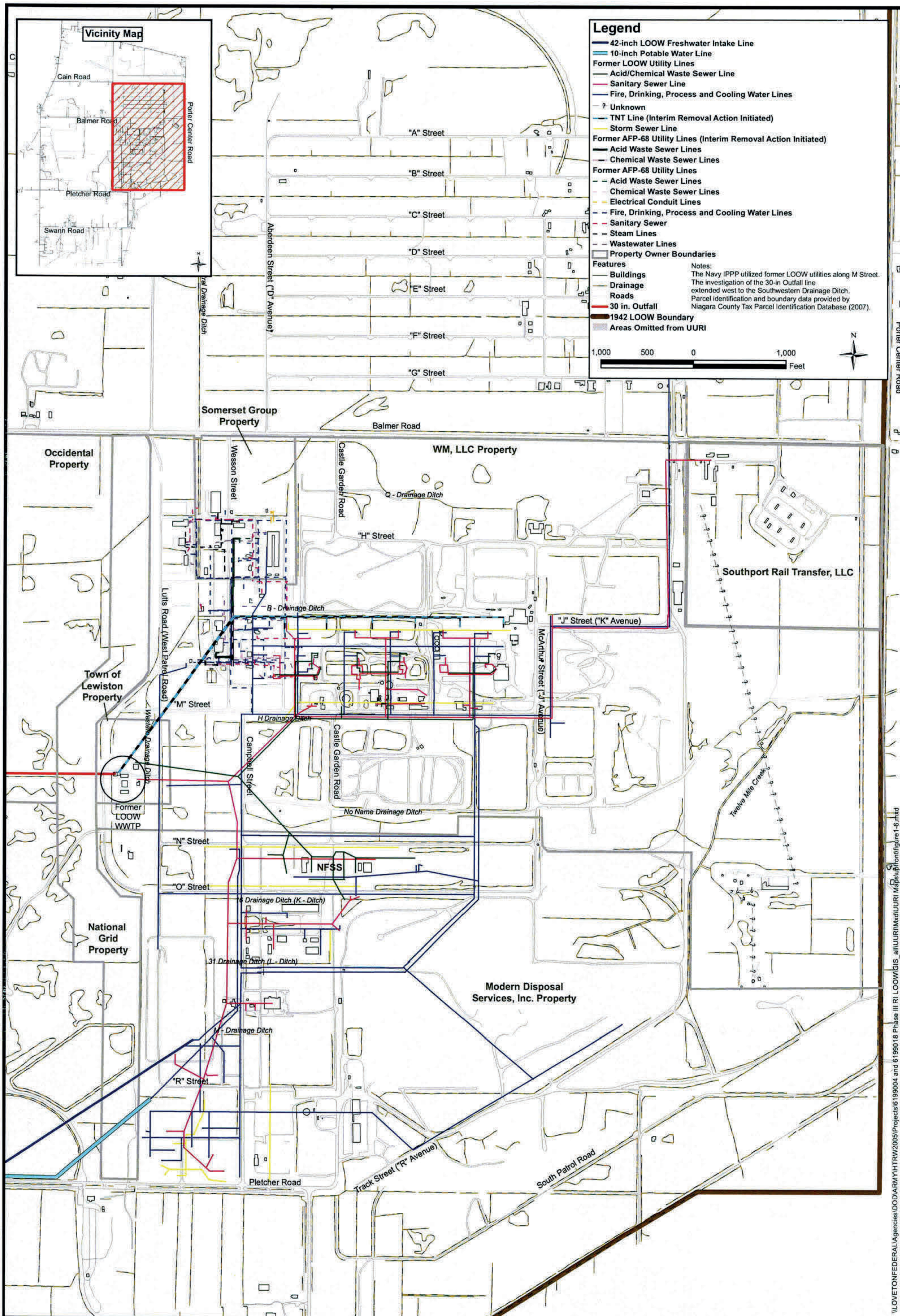
LAKE ONTARIO ORDNANCE WORKS
NIAGARA COUNTY, NEW YORK

EXTENT OF FORMER DOD UNDERGROUND UTILITIES

FIGURE 1-4



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LAKE ONTARIO ORDNANCE WORKS

NIAGARA COUNTY, NEW YORK

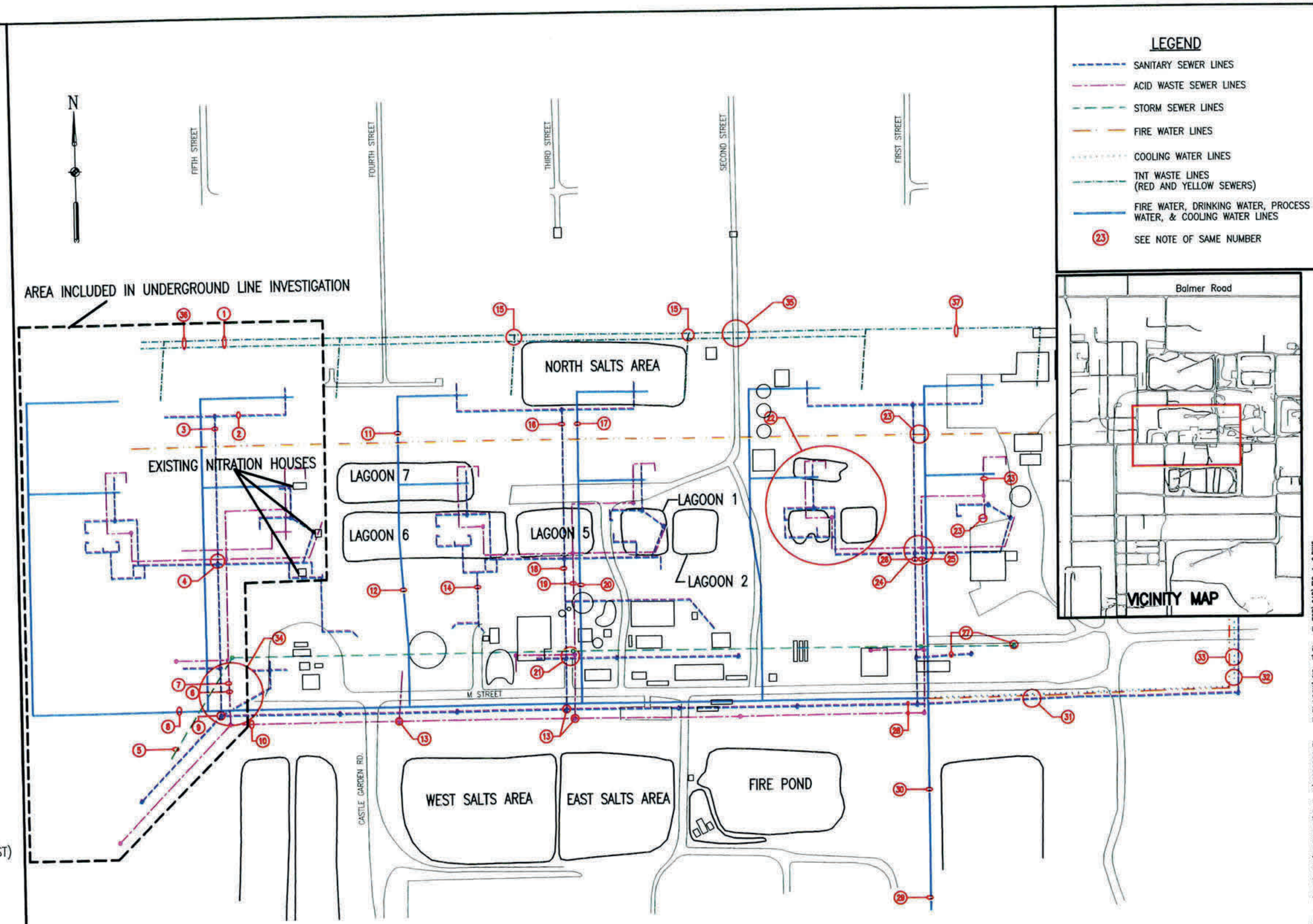
AREAS INCLUDED IN UNDERGROUND LINE INVESTIGATION

FIGURE 1-5

NOTES:

1. SECTION REMOVED AND ENDS PLUGGED, MARCH 1978
2. 24' REMOVED AND ENDS PLUGGED, APRIL 1978
3. 21' REMOVED AND ENDS PLUGGED, APRIL 1978
4. 20' REMOVED AND ENDS PLUGGED IN BOTH LINES APRIL 1978
5. 15' REMOVED AND ENDS PLUGGED, APRIL 1978
6. 20' REMOVED AND ENDS PLUGGED, MAY 1978
7. 8' REMOVED AND ENDS PLUGGED, APRIL 1978
8. COOLING WATER LINE PLUGGED
9. MANHOLE PLUGGED WITH CONCRETE PRIOR TO MARCH 1978
10. 15' REMOVED AND (2) SEWER LINES PLUGGED
11. 20' REMOVED AND ENDS PLUGGED APRIL 1978 (3) 6"ø, (1) 4"ø
12. 8' REMOVED AND ENDS PLUGGED APRIL 1978 (1) 8"ø, (2) 6"ø, (1) 12"ø
13. PLUGGED WITH CONCRETE NOVEMBER 1978
14. 8' REMOVED AND ENDS PLUGGED, APRIL 1978
15. LINES PLUGGED FOR CONSTRUCTION OF NORTH SALTS AREA, FEBRUARY 1977
16. 10' REMOVED AND ENDS PLUGGED, APRIL 1978
17. 15' REMOVED AND PLUGGED (3) 6"ø, (1) 4"ø
18. REMOVED AND PLUGGED JUNE 1978
19. 30x24"ø REMOVED AND PLUGGED, JUNE 1978
20. 12"ø, 8"ø, 6"ø, 4"ø, ALL REMOVED JANUARY 1978. PLUGGED JUNE 1978
21. MANHOLES REMOVED
22. LAGOON #3; #4, REMOVED MAY 1978 AND ALL LINES ENCOUNTERED WERE REMOVED
23. CAPPED OFF
24. 1982 SAMPLE LOCATIONS
25. 9' REMOVED AND PLUGGED, APRIL 1978
26. 20' REMOVED AND PLUGGED, APRIL 1978
27. CUT AND PLUGGED, MAY 1978
28. 20' REMOVED AND PLUGGED, APRIL 1978
29. CUT AND PLUGGED, MAY 1978 (EXCEPT DRINKING WATER)
30. FIRE WATER (WEST), DRINKING WATER (WEST/MID), PROCESS WATER (EAST/MID), COOLING WATER (EAST)
31. BLOCKED AND SEALED APRIL 1978
32. REMOVED FOR CONSTRUCTION OF LAGOON 8
33. BLOCKED APRIL 1978
34. VICINITY OF SAMPLES COLLECTED IN 1990 BY CWM
35. SECTION REMOVED BY CWM 1990

36, 37. ENTIRE LENGTH OF TNT WASTE LINE REMEDIATED BY USACE(2000) EXCEPT PORTION UNDER NORTH SALTS AREA



SOURCE: ADAPTED FROM WEHRAN, 1978 AND J.G. WHITE, 1942.

FIGURE 1-6
UNDERGROUND LINES SEALED BY WM, LLC

TABLE 1-1 DESCRIPTION OF KNOWN UNDERGROUND LINE TYPES

Facility	Line Type	Area	Construction Material	Comments
LOOW	TNT Waste		Concrete-encased tile pipe	Line has been remediated (some portions removed, others closed in place).
	Acid Waste		Clay - some may be concrete-encased; some larger-diameter mains may be brick, acid brick, or tile-lined	Gravity line terminating at WWTP on Town of Lewiston property.
	Sanitary Sewer		Concrete	Gravity line terminating at WWTP on Town of Lewiston property.
	Storm Water		Concrete	Gravity line terminating at WWTP on Town of Lewiston property.
	Process Lines		Metal; most were above grade	
	Steam		Insulated steel; above ground	Included in investigation for assessment of bedding only. Most of the steam lines were above ground.
	Water		Concrete-encased wood stave	42-in. incoming fresh water line
			Cast iron	Drinking water lines
			Cast iron	Fire protection and cooling water
			Cast iron with leadite joints	Process water lines
	WWTP - Secondary lines		Concrete, wood, concrete-encased clay pipe, steel, cast iron	
	Outfall line		30-in. diameter concrete line	Discharge line from final mixing house of the WWTP to the Niagara River. Subsurface soil below the line has been investigated. The line is being beneficially used by the Town of Lewiston.
AFP-68	Chemical and Acid Waste - Main lines	Various	Concrete	Main line and sumps have been remediated (some portions removed, others closed in place).
	Acid Waste - Secondary Lines (Process Waste)	Various	Concrete	May traverse several of the Areas listed below.
	Sanitary Sewer	Various	Vitrified clay pipe	Ties into former LOOW sanitary sewer line. Traverses many of the Areas listed below.
	Wastewater	Various		
	Storm Sewer	Various	Concrete	Discharge to secondary ditches and Central Drainage Ditch (CDD). Traverses many of the Areas listed below.
	Process Lines	Area 2 - Chlorination unit	Unknown	Water, chemical waste, storm, and sewer lines may traverse the Area.
		Area 3 - Hydrogenation Unit	Hot oil jacketed stainless steel lines, carbon steel, stainless steel, iron	Some lines carried molten lithium from Area 6; may have been above ground. Water, chemical waste, storm, and sewer lines may traverse the Area.
		Aera 4 - Gas synthesis	Unknown	Carried LiCl-ether slurry from Area 4 to Area 5; may have been above ground. Water, chemical waste, storm, and sewer lines may traverse the Area.
		Area 5 - Salt purification	Steel, nickel, or graphite	Lines carried slurry from Area 4, chlorine from Area 18, and hydrogen from Area 10. Conveyed ether to Area 3 and Area 18, and anhydrous LiCl to Area 6. Water, chemical waste, storm, and sewer lines may traverse the Area.
		Area 6 - Salt electrolysis	Lines for chlorine made of either nickel, stainless steel, or carbon steel. Others unknown.	Lines carried nitrogen. Chlorine gas conveyed to Area 2 and liquification area and to Area 18. Argon was used to insulate the molten lithium. Molten lilthium was conveyed to Area 3. Water, chemical waste, storm, and sewer lines may traverse the Area.
		Area 7 - Pyrolysis unit	Carbon steel. Some steel contained 3% to 6% chrome, 0.5% molybdenum, or 3% nickel.	Lines used to receive diborane from Area 4. Hydrogen conveyed to furnace. Pentane conveyed to Area 18. Water, chemical waste, storm, and sewer lines may traverse the Area.
		Area 8 - Alkylation unit	Saran-lined steel, Hastelloy C (a steel containing 55% nickel and 16% chrome) or carbon steel	Lines used to receive pentaborane from Area 7, isopropyl chloride from Area 18, ethyl decaborane from Areas 8 and 20. Conveyed isopropyl pentaborane to Area 20.
		Area 10 - Hydrogen production	Unknown	Lines conveyed hydrogen to Areas 3 and 5 and propane from Area 18. Water, chemical waste, storm, and sewer lines may traverse the Area.
		Area 11 - Nitrogen production	Carbon steel, copper and aluminum.	Lines conveyed nitrogen to Areas 2, 3, 4, 5, 6, 7 and 8. Water, chemical waste, storm, and sewer lines may traverse the Area.

TABLE 1-1 DESCRIPTION OF KNOWN UNDERGROUND LINE TYPES

Facility	Line Type	Area	Construction Material	Comments
AFP-68	Process Lines	Area 14 - Steam production	Steel.	Conveyed steam to all areas of AFP-68. Water, chemical waste, storm, and sewer lines may traverse the Area.
		Area 16 - Refrigeration plant	Steel.	Conveyed freon-cooled and brine-cooled water for refrigeration. Water, chemical waste, storm, and sewer lines may traverse the Area.
		Area 17 - General yard piping	Underground lines includes those for boiler feed water, cooling water, potable water, and process water and are made of cast iron, galvanizd steel, or wrought iron. Above-ground lines include those conveying: air, argon, brine, chilled water, chlorine, cyclohexane, dowtherm, ether, hydrogen, methanol, nitrogen, fuel oil, dispersion oil, pentane, isopropyl chloride, steam, steam condensate, ethyl chloride.	Most of what is refered to as "Area 17" in the historical documents pertains to above ground lines. However, some water lines are included in the general yard piping of AFP-68.
		Area 18 - Bulk storage	Various	Lines conveyed chlorine, propane, dispersion oil, methanol, cyclohexane, ether, pentane, isopropyl and ethyl chloride from bulk storage in Area 18 to other process areas. Water, chemical waste, storm, and sewer lines may traverse the Area.
		Area 20 - Product Handling		Water, chemical waste, storm, and sewer lines may traverse the Area.
		Area 21 - Electrical substation	Electrical conduit.	Some of the conduit was underground between Area 21 and the northern portion of Area 6. Water, chemical waste, storm, and sewer lines may traverse the Area.
AFP-68	Various Other Lines	Area 22 - Water supply and treatment	Cast iron, reinforced concrete, steel.	No "process lines" identified in this area. Area 22 was the water supply and distribution for AFP-68. Water, chemical waste, storm, and sewer lines may traverse the Area.
		Area 24 - Sanitary sewage disposal	Vitreous clay.	No "process lines" identified in this area. Area 24 was waste disposal, including sanitary sewer and chemical wastes. Water, chemical waste, storm, and sewer lines may traverse the Area.
		Area 29 - Office building.	Vitreous clay and iron (maybe steel and copper).	No "process lines" identified in this area. Most likely water and sewer lines only in this area. Plans indicate a septic tank and former well. Objects were located in both areas during field verification.
		Area 30 - Non-combustibles storage	Vitreous clay and iron (maybe steel and copper).	No "process lines", most likely water and sewer lines only in this area.
		Area 31 - Laboratory	Vitreous clay and iron (maybe steel and copper).	No "process lines", most likely water, sanitary sewer, and lab waste sewer lines only in this area.
		Area 35 - Dispensary	Vitreous clay and iron (maybe steel and copper).	No "process lines", most likely water, sewer, and steam lines only in this area.
		Area 39 Cafeteria	Vitreous clay and iron (maybe steel and copper).	No "process lines", most likely only water and sewer lines in this area.
		Area 41 - Maintenance shop	Vitreous clay and iron (maybe steel and copper).	No "process lines", water and sewer lines, as well as oil interceptor (to sanitary sewer) and lab waste lines in this area.
NIKE Base	Communication or water		Unknown	May traverse from launch area to control area
	Sanitary Sewer		Unknown	Presumably originating in barracks.
	UST		Unknown	Underground lines associated with USTs

Shading represents lines included in the remedial investigation.
Unknown line types were also included in the investigation.

TABLE 1-2 AVAILABLE PLANS DETAIL FORMER DOD UNDERGROUND LINES

Title	Drawing # Part 1	Drawing # Part 2	Drawing # Part 3	Year	Notes
Underground Piping Water Distribution Yard Piping	317	13	51	1957	Overall plan of AFP-68 water lines. Shows the 42 in. line coming into the Area 22 reservoir - line runs along west side of Lutts Rd.
Engineering Flow Sheet Underground Potable and Cooling Water Yard Piping	317	2	23	1957	Flow schematic shows which areas the underground water lines go to.
Underground Sections and Details Yard Piping	317	13	52	1957	Shows details of insulating concrete encasement of fire protection water (WFP), cooling water (WC), and potable water (WP) lines along Wesson St. - may help with underground line bedding assessment.
Underground Sections and Details Yard Piping	317	13	56	1957	Piping connection and manhole details for plans 317-13- 58 through 62. Shows that some lines have crusher run and limestone bedding material.
Underground Composite Plan Yard Piping	317	13	58	1957	Underground lines between AFP-68 Areas 3, 5, 6, 31.
Underground Composite Plan Yard Piping	317	13	59	1957	Underground lines between AFP-68 Areas 4, 7, 8, 11.
Underground Composite Plan Yard Piping	317	13	60	1957	Underground lines between AFP-68 Areas 2, 20, and along M Street.
Underground Composite Plan Yard Piping	317	13	61	1957	Underground lines between AFP-68 Areas 35, 39, 29, 30 , 30A, 41, 18N.
Underground Composite Plan Yard Piping	317	13	62	1957	Underground lines between AFP-68 Areas 10, 18S, 24, 22, 14, 16. Also shows the 42 in. pipe coming into Area 22.
Piping Layout of 42" RCP, Addition to Present Supply Line Water Supply	322	13	51	1957	New 42 in. line from LOOW wood stave supply water line to AFP-68 Area 22 reservoir. Shows location details of line along Lutts Rd. to reservoir.
Piping Key Plan Arrangement Refrigeration Area	316	13	1	1958	Building 16-01 piping arrangement, above ground, in building. References 316-13-05.
Piping Plan Northeast Corner Central Refrigeration	316	13	2	1958	Northeast corner of Bldg 16-01 and Area 16 - mostly above ground piping.
Piping Plan Northwest Corner Central Refrigeration	316	13	3	1958	Northwest corner of Bldg 16-01 and Area 16 - mostly above ground piping.
Piping Plan South End of BLFG and Misc. Details Central Refrigeration	316	13	4	1958	Area 16 piping. Mostly above ground, but shows some lines going subsurface.
Piping Plan Underground Water and Drains Refrigeration Area	316	13	5	1958	Shows floor drains inside of Bldg 16-01. Also shows lines that lie under the floor. Floor drains traverse to B Ditch. Shows wastewater (WW) drain into B Ditch as well.
Piping Sections AA, BB, CC, DD and Details Central Refrigeration	316	13	6	1958	Area 16 details of RV, RL, WC, WW, SCN etc lines - most above ground but shows which ones go underground, references plan 316-13-05.
Piping Sections EE, FF, GG, HH Central Refrigeration	316	13	7	1958	Area 16 details of RV, RL, WC, WW, SCN etc lines, most above ground but shows floor drains and which go underground, references plan 316-13-05.
Piping Sections KK, LL, MM, NN and Details Central Refrigeration	316	13	8	1958	Area 16 details of RV, RL, WC, WW, SCN etc lines, most above ground but shows floor drains and which go underground, references plan 316-13-05.
Piping Details and Isometrics Central Refrigeration	316	13	9	1958	Area 16 details of RV, RL, WC, WW, SCN etc lines, most above ground but shows floor drains and which go underground, references plan 316-13-05.
Piping Shipping Building Equipment Layout	320	13	2	1957	No underground piping referenced.
Piping Plan Sheet #1 Water Treatment Building Water Supply and Treatment	322	13	3	1957	Area 22 bldg. References 317-13-54 for floor drain.
Piping Plan Sheet #2 Water Treatment BLDG Water Supply and Treatment	322	13	4	1957	Area 22 bldg. Shows many lines for water treatment bldg, inside bldg. Some entering and exiting -some are underground (references 317-13-51).
Piping Sections A-A and B-B Clearwell Area Water Treatment Building Water Supply and Treatment	322	13	5	1957	Area 22 clearwell. Shows some piping layout, but doesn't show where lines run.
Piping Section G-G Filtration Area Water Treatment Building Water Supply and Treatment	322	13	6	1957	Area 22 has WC, WW WF lines, shows some floor drains. References 317-13-54 for continuation.
Piping Sections Chemical Feed Area Water Treatment Building Water Supply and Treatment	322	13	7	1957	Area 22 has WC, WW WF lines, shows some floor drains. Shows where pipe comes out of reservoir and goes underground - references 317-13-51.
Piping Plan and Elevation Reservoir Pumping Station Water Supply and Treatment	322	13	10	1957	Pumping station in Area 22, most pipes are in the pumping station. May show some pipes exiting pumping station.
Piping Yard Piping Sheet I	317	13	1	1957	Broad overview, areas 3, 5, 6, and 4. No line details - just references other drawings. Has coordinates for areas.
Piping Yard Piping Sheet 2	317	13	2	1957	Broad overview, areas 7, 8, 11, 2, and 20, and area 24 flare stack. No line details - just references other drawings in the 317-13 series. Has coordinates for areas.
Piping Yard Piping Sheet 3	317	13	3	1957	Broad overview, areas 18S and 18N, 39, 35, 29, 30 and 30A, and 10. References other 317-13 plans, specifically 317-13-61 for underground lines. Has coordinates for areas.
Piping Composite Plot Plan Rack Layout Yard Piping	317	13	7	1957	A composite, with less detail, of 317-13-1 through 4. Entire AFP-68 rack layout for above ground pipes. Shows the 42 in. line going into the water reservoir. Shows some general areas of underground lines. No detail, but good reference plan.
Piping Yard Piping Sheet 4	317	13	4	1957	Broad overview, areas 14, 16, 22, 24. References other 317-13 plans for actual line placement. Has coordinates for areas.

Shading = those plans most pertinent to the investigation

TABLE 1-2 AVAILABLE PLANS DETAILING FORMER DOD UNDERGROUND LINES

Title	Drawing # Part 1	Drawing # Part 2	Drawing # Part 3	Year	Notes
As Built Plot Plans Nitration Area	100	13		1945	Shows lines in nitration areas, including 5th and 6th nitration house lines.
Underground Piping Disposal Plan Composite Sewage and Drainage	324	14	4	1957	WWTP lines. Shows 42 in. water line to AFP-68 Area 22 (along Lutts Rd.)
Engineering Flow Sheet Waste Collection Sumps and Effluent Discharge Sections Chemical Waste Disposal Area	324	2	23	1958	Engineering flow sheet for underground chemical waste.
Piping Plan and Section Product Storage Product Blending and Storage	320	13	4	1957	Above ground piping in Area 20.
As Built Plot Plan Acid and Shop Areas	100	15		1943	Plan of all LOOW lines in acid concentration area north to M Street and west approaching the WWTP. Some of these are in the SOW. Clearly shows water valve box at corner of Campbell and M Street.
Tile Drainage and Contour Plan Administration Area	700	700	005	1942	Shows storm water lines in LOOW administration area, shows a septic tank and sanitary sewer lines which may be added to the SOW at the discretion of the USACE.
Gas Synthesis Area 4 Heating and Ventilating Control House	304	404	1	1957	Floor plan of Area 4 Building 4-01, includes floor drains.
Office Building Area 29 Plumbing Plan Diagram and Detail	329	300		1958	Shows floor drains in Building 29-01.
Laboratory Area 31 Plumbing Plan Riser Diagram Laboratory Plan Equipment and Details	331	300		1959	Shows floor drains in Building 31-01.
Maintenance Shops Area 41 Plumbing Plan Diagram and Detail	341	300		1958	Shows plumbing of Area 41 maintenance shops. Shows oil interceptor, shows floor drains, lab waste and sanitary sewer lines. Shows some sanitary sewer lines.
Dispensary Building Area 35 Plumbing Plan Diagram and Detail	335	300		1959	Shows floor drains in Building 35-01.
Piping Key Plan, Area 5 Arrangement Salt Purification and Recovery	305	13	18	1957	Shows underground line 16 ft south of tank containment (4 ft walls) in Area 5.
Piping Floor Drainage Plan and Feedwater treatment System Steam Generation	314	13			Shows floor drains inside of Bldg 14-01. Also shows underground lines in bldg. References 316-13-04 for continuation.
Water Distribution System Administration Area Final Drawing	503	500	30	1942	Shows water lines in old LOOW admin area.
Cell Area Area 6C Structural Cell Rooms Foundation Plans, Sections and Details	306	806C	3	1957	Shows pit (conveyor pit) in lower level of Bldg 6-01
Cell Area Area 6E Structural Gas Disposal Foundations and Tanks Plans Sections and Details	306	806E	1	1957	Shows that a floor drain exists in tank farm for gas disposal area in Area 6. Drain goes to "underground drain sewer dwg 306-706E-2".
Cell Area Area 6C and 6D Plumbing Cell and Liquification and Purification BLDG Plans and Details	306	706C	1	1957	Shows plumbing details and lines going underground for Area 6. References 306-706C-2 for continuation.
Cell Area Area 6C Piping Gas Disposal Area Plan	306	706E	1	1957	Shows plan view of floor drain in gas disposal area, Area 6.
Cell Area Area No. 6 Piping Underground Plan and Details	306	706C	2	1957	Shows WW and WC in Area 6, corresponds to two visible lines between Bldg 6-01 cell rooms A and B.
Cell Area Area 6D Piping Liquification Building Sections X-Y-Z-AA	306	706D	2	1958	Shows WC, UC lines going underground at the liquefaction building in Area 6. References 306-706C-2 for continuation of underground lines.
Cell Area Area 6E Piping Gas Disposal Area Sections	306	706E	2	1957	Shows the floor drain in the gas disposal area going to 4 in., UC underground line.
Cell Area Area 6C Piping Plan of Headers Below Operating Level Col. 4 to Col. 13	306	706C	8	1957	Mostly above ground, center portion of 6-01. Has some sectional views showing line going below ground.
Cell Area Area 6C Cell Rooms A and B YG Header Piping Sections D,E,N	306	706C	13	1957	Mostly above ground, but shows where pipes go into floor of Bldg 6-01.
Cell Area Area 6C Piping Cell Cooling Water Storage Plan and Sections	306	706C	26	1957	Shows where 8 in. and 10 in. diameter WC and WW lines go subsurface between cell A and B of Area 6 cell building.
Cell Area Area 6C Piping Rectifier Room Plans and Sections	306	706C	27	1957	Shows rectifier area on north portion of Area 6 cell room. Mostly above ground lines, but shows where WW and WC lines go subsurface. References 306-706C-2 for continuation of underground lines. Also shows the electrical conduit pipes.
Cell Area Area 6C Layout Cell Building 1st Level Plan	306	206C	7	1957	Difficult to read, but contains details of pit (conveyor pit) in the southern portion of Area 6 cell bldg. Also shows electrical room opposite of conveyor pit area. Shows location of bathroom.
Cell Area Area 6D Structural Liquification BLDG Foundation and 1st Floor Plan, Sections and Details	306	806D	1	1957	Shows some underground lines.
Office Building Area 29 Foundation Plan	329	101		1958	NA
Warehouses Area 30 and Area 30A Foundation Plans	330	101		1958	NA
Laboratory Area 31 Framing and Foundation Plans	331	100		1959	NA
Dispensary BLDG Area 35 Framing and Foundation Plans	335	100		1958	NA
Cafeteria Area 39 Framing and Foundation Plans	339	100		1958	NA
Maintenance Shops Area 41 Foundation Plan	341	101		1958	NA
Maintenance Building 41 Revised Shop Equipment Layout	341	6		1958	NA

Shadinr 'hose plans most pertinent to the investigation

CHAPTER 2

2. STUDY AREA INVESTIGATION

2.1 CONTAMINANT SOURCE INVESTIGATION-NON-INTRUSIVE PHASE

The UURI was performed in two phases. The first phase was considered "non-intrusive" as it did not include subsurface excavation or sampling. The primary purpose of the non-intrusive phase of the UURI was to satisfy the first objective of the UURI, which was to locate and document underground utility lines fully eligible for investigation under the approved DERP-FUDS HTRW project. Additionally, objectives include verification of the accuracy of existing historical drawings and inspection of the interior of the lines to evaluate whether sludge and/or wastewater was present, and to assess the integrity of the line.

Specifically, the following was performed during the non-intrusive phase:

- A site reconnaissance was performed to locate surface features related to the underground lines;
- Lines were located and surveyed in reference to the NY State Plane coordinate system, 1983 North American Datum (NAD83);
- Blockages, deposits, pockets of sludge, and standing liquid were noted for target sampling;
- Cracks and breaches in the lines were noted to target for subsurface soil sampling beneath the line;
- Lines containing liquid under hydraulic head were identified to avoid unexpected release during excavation;
- Remote visualization of sludge deposits was performed to evaluate whether deposits appeared to be TNT;
- Secondary lines were located in reference to NY State Plane NAD83;
- The depths to the underground lines were estimated;
- Accuracy of historical drawings was assessed.

The methodology and results for the non-intrusive phase of the investigation as well as the results were documented in summary reports included in Appendix B. There are three summary reports (Appendix B1, B2, and B3), based on property ownership. The reports contain attachments presenting the camera survey logs for the survey performed on each individual property. To reduce reiteration between reports, the specifications for the camera equipment used during the survey are included in a separate sub-appendix (Appendix B4).

The non-intrusive investigation was performed on formerly used DOD lines within the limits of the project site. However, lines associated with the WWTP as well as the 30-in. outfall line were not included in the non-intrusive investigation because the location of these lines are well documented and previous sampling of the WWTP pits and vaults did not indicate concentrations of explosives that would suggest the presence of TNT deposits or the need for visual evaluation for the presence of TNT nodules. Furthermore, lengths of the lines between structures at the WWTP are short (Acres 1999) - sludge deposits within the lines would be readily accessible through the proposed excavations during the intrusive investigation. Although the length of the 30 in-outfall line would suggest a need for inclusion into the camera survey investigation to locate breaches or sludge deposits, the 30-in outfall has been relined subsequent to DOD use. Sludge deposits between the original terracotta line and the liner would not be visible.

The non-intrusive phase of the investigation was performed in accordance with:

- The SOW (USACE 2005);
- HASP (EA 2005a);
- RSP (EA 2005b);
- MEC Safety Plan (EA 2005c);
- Final Work Plan of Action (EA 2005d).

The methodology and results for the non-intrusive phase are documented in property-specific reports included in Appendix B. The results were utilized to design the sampling and analysis program for the intrusive phase of the UURI as described in the SAP and associated addenda (EA 2006a, 2006b, and 2006c).

2.2 CONTAMINANT SOURCE INVESTIGATION-INTRUSIVE PHASE

2.2.1 Pre-Sampling Activities

2.2.1.1 Site Preparation

Woods and heavy brush characterized many areas targeted for the UURI. Prior to conducting the UURI, brush clearance was performed in some areas to gain access and aid reconnaissance of surface features.

On the Somerset Group property, brush and grass clearance was performed within former AFP-68 Process Areas 3, 5, 6, 21, 31, 30, 30A, and T1T2. Some removal of trees was also performed within Area T1T2.

On WM property, brush clearance was performed along the acid waste sewer and sanitary sewer lines south of M Street, within the former AFP-68 process areas, and within the NIKE Base. Portions of the NIKE Base were within Federal wetlands areas. Care was taken to mitigate potential impact to these environmentally sensitive areas. Brush removed from the wetlands areas was relocated to the area of the existing nitration houses where it was chipped and left on site.

Brush removal was also performed along the 30-in. outfall line originating from the LOOW WWTP and traversing across property owned by National Grid, OCC, and Lewiston-Porter Central School District.

With the exception of the brush removed from within the wetlands area, brush was chipped and left on site.

2.2.1.2 Decontamination and Staging Areas

Additional site preparation included placement and construction of decontamination and IDW storage areas for decontamination of equipment and containerization of wastewater. On the Somerset Group property, two areas were utilized, one just east of former AFP-68 Area 30A for non-intrusive investigation and a second on Wesson Street near the southern property boundary for the intrusive phase of the investigation.

On WM property the decontamination area was located within the former AFP-68 area south of the property boundary, on Wesson Street.

Prior to selection of the areas for storage and decontamination, the areas were surveyed using the Ludlum model 2221 to ensure radioactivity twice that of background was not present. The selected areas demonstrated radioactivity within background range. However, during the surface scan to locate a suitable staging area on Somerset Group property, some areas of radioactivity above background were located. Site personnel were informed of the location of the elevated radioactivity, the area was cordoned off with tape to eliminate vehicular traffic through the area, and the USACE was contacted. The USACE collected samples from the area and determined that the elevated radioactivity was likely due to slag used as road bed material.

2.2.1.3 Utility Clearance Process

Prior to initiating intrusive activities, clearances for active utilities were performed. The clearances were performed by contacting New York State One Call system. Property owners were also consulted to determine the location of active on-site utilities. WM requires a formal utility clearance which requires submitting plans illustrating proposed excavation areas and marking the targeted excavation area for visual inspection by a WM engineer.

2.2.2 Sampling and Analysis of Targeted Matrices

A total of 359 samples were collected from 202 excavations, as well as, pits, manholes, and sumps. The sampling program commenced on 10 July 2006 and concluded on 18 October 2006, with some additional characterization of IDW occurring through December 2006. Sampling was performed in accordance with the SAP and associated Addenda with deviations as discussed below.

2.2.2.1 Summary of Excavation and Sampling Methodology

A John Deere 690 excavator and Daewoo 55V mini-excavator were utilized to access the underground lines in accordance with the SAP. A hydraulic hammer, chop saw, and/or drill were used to access the interior of the pipe. Following sample collection, the lines were sealed with a thick slurry of Portland cement and bentonite. For larger diameter pipes, expanding hydraulic cement with 1.5% Daracell® was utilized. Wooden plugs, as originally proposed in the SAP, were not necessary. In addition, self tapping clamps were also proposed for use on the larger lines with liquid under hydraulic pressure (most notably, the acid waste sewer and sanitary sewer lines south of M Street and west of Campbell Street). However, these lines were encased in concrete – the clamps could not be utilized with the concrete encased lines. These lines were drilled to gain access to allow sampling of wastewater.

Details of each excavation, including the size of the excavation, the number and types of lines encountered, and number and type of samples collected were recorded on an excavation log. As discussed in Section 2.2.4, environmental monitoring of total organic vapors, combustible gases, and radioactivity, was performed in accordance with the HASP and RSP during excavation activities and also recorded on the excavation logs. These logs are included in Appendix C. Excavations are referred to using the property owner followed by the excavation number (e.g., SOM-X15 is excavation 15 on the Somerset Group property).

For excavations along the 30-in. outfall, “OCC” was used as the convention for the property designation, although the outfall traverses several parcels.

The following matrices were targeted for sampling during the UURI. The matrices are identified in the sample designation by a two letter code as described below:

- Sludge (matrix code “SL”) – solid material within the interior of lines, pits, vaults, sumps, tanks, and drains.
- Wastewater (matrix code “WW”) – liquid from within the interior of lines, pits, vaults, sumps, tanks, and drains.
- Subsurface soil (matrix code “SO”) – soil collected from greater than 1 foot (ft) below ground surface (bgs). In the UURI, the subsurface soil beneath the underground lines was targeted for sample collection.
- Surface soil (matrix code “SS”) – soil collected from 0 to 0.5 ft bgs. In the UURI surface soil was collected from beneath outfalls along surface water drainage banks.
- Surface water (matrix code “SW”) – water collected from a surface water body. In the UURI, one location, within the SWDD beneath the 30-in. outfall, was targeted for surface water collection.
- Sediment (matrix code “SD”) – solid material collected from a surface water body. In the UURI, one location, within the SWDD beneath the 30-in. outfall, was targeted for sediment collection.

In addition to the targeted matrices, some bedding material beneath the lines was found to contain entrained liquid. The decision was made to collect this bedding material water for analyses. Originally thought to be perched ground water, a matrix code of “WG” was applied for the sample designation. However, further consideration suggests that the liquid could also be drainage of water from the surface into the bedding material or wastewater that had leaked from the interior of the line. Therefore, the matrix was reassigned, post-analysis, to “WB”, as described below:

- Bedding material water (matrix code “WB”) – liquid entrained within the bedding material beneath the underground line.

Tables 2-1 through 2-4 present the proposed (as per the SAP [EA 2006a, 2006b, and 2006c]) sampling plan for sludge, wastewater, soil (surface and subsurface), surface water and sediment, as well as the actual sampling program and summary of deviations (if any) from the original plan. Tables 2-5 and 2-6 summarize the surface soil outfall samples and bedding material samples, respectively, that were collected during the UURI. Table 2-7 summarizes the total number of excavations performed and samples collected on each property.

These tables include the designations of samples collected during the investigation. The designation was applied during sample collection and represents a concatenation of the following:

- Operable unit – C7 is the operable unit number for the underground line investigation
- Property from which the sample was collected –
  - "SOM" represents the Somerset Group property
  - "CWM" represents the WM property
  - "LEW" represents the Town of Lewiston property
  - "OCC" represents samples collected along the 30-in. outfall line from the LOOW WWTP. The line traverses multiple property owners. Within the area included for investigation, the line traverses property owned by the Town of Lewiston, National Grid, Occidental Chemical Corporation, and Lewiston-Porter Central School District. However, the majority of the sample locations are on OCC property.
- A two letter sample matrix code described in more detail earlier in this section
  - "SL" for sludge
  - "WW" for wastewater
  - "SO" for subsurface soil
  - "SS" for surface soil
  - "SW" for surface water
  - "SD" for sediment
  - "WB" for water from bedding material.
- Location number – describes the location of sample collection. The majority of these are sequentially numbered excavation locations designated with the prefix "X".
  - "X00" refers to locations where excavation was not required for sample locations, for example pits, sump, manholes.
  - "OF" refers to samples collected from outfall locations.
- Line type – a two letter code designating the type of line from which the sample was collected, such as:
  - "SN" for sanitary sewer
  - "WW" for wastewater line
  - "CW" for chemical waste sewer line

    - "AW" for acid waste sewer line
    - "UN" for unknown line type
    - "DW" for drains, pits, sumps, vaults, or tanks
    - "ST" for storm sewer line
    - "WC" for cooling water line
    - "WP" for potable water line
- End depth – a one or two digit code indicating the end depth in ft below ground surface from which the sample was collected

Water lines were not targeted for sample collection during the UURI. However, five water lines (four on Somerset Group property and one on WM property) warranted sample collection due to observation of visual staining, odor, proximity to other lines within the excavation, or were originally designated as an unknown line type.

Similarly, stormwater lines were not targeted for sample collection. However, in the northwest portion of WM property in the vicinity of AFP-68 Buildings 29-01, 35-01, and 39-01, historical drawings indicated lines exiting the building and tying into the stormwater lines. Because the origin and use of the lines exiting the building are unknown, these lines were included in the sampling program and were designated as wastewater, stormwater, or combination lines ("ST/WW").

Prior to inclusion of sample results data into the project database, each sample was reviewed with respect to historical drawings to identify, as confidently as possible, the actual line type from which the sample was collected. During this review several line type designations were modified. To preserve the integrity of the database and the legal link to the field chain-of-custody, the sample designations were not modified. Instead, a corrected line type field was added to the database and resulting summary tables with the actual line type. In addition, in Tables 2-1 through 2-4, changes are described in the sample designation block. In some cases, a suspected line type was identified through review of the historical drawings, but the evidence was not strong enough to warrant a change of line type assignment. In these instances, the line type was not reassigned but the suspected line type is described in "Reassessment of Line Type" column included in Tables 2-1 through 2-4.

Similarly, some matrix types were also revised post analysis. For example, ground water "WG" was changed to bedding material water "WB" and some cooling water lines were inadvertently designated "CW" (representing a chemical waste sewer line) rather than "WC", the correct code for cooling water. A similar correction field was added to the database to document these changes.

2.2.2.2 Sludge Samples

A total of 58 sludge samples were collected during the UURI.

- 6 samples were collected from within confirmed acid waste sewer lines.
- 2 from confirmed chemical waste sewer lines.
- 9 were collected from drains, pits, and sumps (designated line type "DW").
- 18 were collected from confirmed sanitary sewer lines
- 2 were collected from the 30-in. outfall line.
- 10 were collected from wastewater lines.
- 11 were collected from unknown line type.

During sludge sample collection, the aliquot for VOC analysis was collected first using an Encore® sampler. One exception was sample designated C7-OCC-SL-X11-MH01. The liquid content of this sediment sample was too high for collection with an Encore® sampler. Aliquots for the remaining analyses were collected with a decontaminated stainless steel scoop and gloved hand, placed into a decontaminated stainless steel bowl and homogenized prior to transfer to appropriate laboratory-cleaned jars. An un-homogenized aliquot was reserved for analysis of VOCs.

Lines with liquid proved problematic for sludge collection. Those lines with liquid under hydraulic pressure could only be drilled and sampled for wastewater. The sludge was not accessible in these lines. This occurred in the down gradient portion of the sanitary sewer and acid waste sewer lines south of M Street and west of Campbell Street on WM property.

The proposed sampling program included excavations at 250 ft intervals along longer lengths of underground lines with the purpose of collecting subsurface soil samples, as well as sludge and wastewater samples if present. However, as indicated in the camera survey (Appendix B) sludge was not present in many lines. In some cases where sludge was visible during the camera survey, the small amount noted along the bottoms of the line was of inadequate volume for collection. Attempt at collection resulted in entrainment of sediment into the wastewater. In some lines where an apparently adequate volume of sludge was present as viewed in the camera survey (such as the sanitary sewer and acid waste sewer lines south of

M Street and west of Campbell Street) sludge was not accessible due to the volume of water within the pipe.

2.2.2.3 Wastewater Samples

A total of 96 wastewater samples were collected during the UURI from the following line types:

- 14 from acid waste sewer lines,
- 7 from chemical waste sewer lines,
- 4 from drains, pits, sumps, vaults, or tanks.
- 30 from sanitary sewer lines, three of which were collected from the 30-in. outfall line,
- 14 from wastewater lines,
- 23 from unknown line type,
- 2 from water lines, and
- 2 from stormwater lines.

Wastewater was collected one of two ways: as it drained out of the pipe from the drill or saw location, or using a peristaltic pump with dedicated tubing placed into the wastewater within the line. The water was captured either into a decontaminated stainless steel bowl with subsequent transfer to the appropriate bottles or from the peristaltic pump dedicated tubing directly into the laboratory-cleaned bottles.

The presence and accessibility of wastewater within the lines was greater than that of sludge, resulting in a higher frequency of collection.

2.2.2.4 Bedding Water Samples

A total of four bedding water samples were collected during the UURI from the following line types:

- 3 from wastewater lines,
- 1 from a chemical waste sewer line.

To sample the liquid, the excavator was used to expose the bedding material near the contact with the underlying native soil and create a small sump below the contact. Liquid pouring from the bedding into the sump was intercepted into either laboratory bottles or into a decontaminated stainless steel bowl and subsequently transferred to the appropriate bottles.

2.2.2.5 Subsurface Soil Samples

A total of 186 subsurface soil samples were collected from beneath the following line types:

- 16 from acid waste sewer lines.
- 14 from chemical waste sewer lines.
- 5 from pits, sumps, vaults, or tanks.
- 70 from sanitary sewer lines, including 26 from beneath the 30-in. outfall line.
- 28 from wastewater lines.
- 45 from unknown lines.
- 4 from water lines.
- 4 from storm/wastewater lines.

During subsurface soil sample collection, the aliquot for VOC analysis was collected first using an Encore® sampler. Aliquots for the remaining analyses were collected with a decontaminated stainless steel trowel, placed into a decontaminated stainless steel bowl, and thoroughly mixed using the quartering method outlined in the SAP. The homogenized soil was then placed into the appropriate glass jars for the remaining analyte suite.

2.2.2.6 Outfall Surface Soil Samples

A total of 13 surface soil samples were collected from the point at which sludge or wastewater exiting an outfall pipe would have impacted the sidewall of surface water body. The outfall samples were associated with the following line types:

- 2 were collected from sanitary sewer overflow outfalls.
- 6 were collected from wastewater line outfalls.
- 2 were collected from outfalls from unknown line type.
- 3 were collected from storm/wastewater lines.

During surface soil sample collection, the aliquot for VOC analysis was collected first using an Encore® sampler. Aliquots for the remaining analyses were collected with a decontaminated stainless steel trowel, placed into a decontaminated stainless steel bowl, and thoroughly mixed using the quartering method outlined in the SAP. The homogenized soil was then placed into the appropriate glass jars for the remaining analyte suite.

A total of sixteen outfall locations were evaluated for possible sample collection. Samples were collected from each of the proposed locations with the exception of one location in the CDD near AFP-68 Area 10 (OF10), one location in B Ditch north of AFP-68 Area 16 (OF13), and an outfall into the Western Drainage Ditch northeast of the Acid Neutralization Building at the WWTP (OF16). One sample from each of four outfalls west of Building 10-01 in the east bank of the CDD was proposed. However, the pipe outfall at one location was broken and the actual outfall point could not be located. Additional outfalls were located within the CDD east of AFP-68 Buildings 29-01, 35-01, and 39-01. These locations were added to the sampling program. Numerous attempts were made to sample locations OF13 and OF16, but as a result of a higher than normal rain fall during the 2006 field season, the locations were underwater and a sample could not be collected. OF-10 was not sampled because outfall could not be located, pipe was to found be broken and lying on top of the bank.

The specific sample collection location at each outfall was selected after inspection of the outfall orientation. The sample was collected at the point where effluent from the outfall pipe would impact the ground surface. The sample location was cleared of vegetation, wood debris, rocks, and gravel down to native soil. The samples were collected from the 0.2 to 0.5 ft interval bgs.

2.2.2.7 Surface Water and Sediment Sampling

One surface water and one sediment sample was collected from the SWDD below the point at which the 30-in. outfall line from the LOOW WWTP traverses the Ditch. The surface water sample was collected first, followed by the sediment sample. Surface water samples were collected by submersing the appropriate laboratory-cleaned bottle below the surface of the water and filling. The sediment sample was collected using a decontaminated stainless steel trowel and was homogenized in a decontaminated stainless steel bowl prior to transfer to the appropriate bottles.

2.2.3 Analytical Program

With few exceptions (as described later in this section), sludge, wastewater, surface and subsurface soil, and bedding water were analyzed for target compound list (TCL) VOCs, SVOCs, pesticides, PCBs, explosives, target analyte list (TAL) metals, boron, lithium, and cyanide as per the Quality Assurance Project Plan (QAPP) (EA 2006e). A subset of four soil samples was analyzed for total organic carbon (TOC), for use in derivation of SSLs (see Section 4.3.4).

Surface water and sediment were analyzed for designated DOD marker compounds, specifically, boron, lithium, and explosives.

The TCL and TAL and analytical methods are defined within the QAPP. The analytical methods are also presented in Table 2-8. The aliquot for VOC analysis for subsurface soil sample designated C7-CWM-SO-X17-WW01-3.5 and the sediment sample designated C7-OCC-SS-X00-SN01-0.5 were collected with a trowel, rather than an Encore® sampler and were prepared using the standard U.S. EPA method 5030A and not the low-level sodium bisulfate extraction method. The sediment sample was too wet to collect with an Encore sample and the aliquot from the soil sample was inadvertently misplaced by the laboratory. A request was made to analyze a homogenized aliquot for VOCs.

In addition, the VOC aliquot for two samples, C7-SOM-SL-X19-UN01-6 and C7-SOM-SL-X18-UN01-3, were inadvertently not analyzed by the laboratory.

2.2.4 Safety Checklists and Environmental Monitoring Results

Excavations were performed under the purview of an Occupational Safety and Health Administration (OSHA) defined Competent Person, as defined in 29 Code of Federal Regulations (CFR) 1926, to evaluate soil type and slope and shielding/shoring requirements. A trench shield was used for excavations greater than 4 ft in depth. Copies of the check off sheets from the competent person inspection as well as the certification for the trench shield are included in Appendix D. Prior to and during excavation, environmental monitoring was performed to evaluate organic vapor, radiological, and combustible gas conditions in reference to action limits that were established in the RSP and HASP (EA 2005a and 2005b). In addition, wipe tests were performed to assess whether explosive residue was present.

2.2.4.1 Results of Organic Vapor Monitoring

Organic vapor concentrations were encountered in several excavations. However, concentrations within the breathing zone did not exceed action levels with the exception of excavation 28 on WM property (CWM-X28). Organic vapor concentrations within a pipe stickup as well as around the excavation exceeded action limits resulting in cessation of work and implementation of air monitoring/sampling to evaluate the organic constituents causing the organic vapor concentrations. Two air samples were collected. The first (pipe UN01-1) was from within the pipe and the second (pipe UN01-0 excavations) was under a soil mixing scenario performed as a "mock" excavation scenario. Results of the air monitoring are included in Appendix E. The reported organic constituents resulted in a new action limit for that excavation only.

2.2.4.2 Results of Radiological Field Screening

Radioactivity elevated above background was encountered on the ground surface on the Somerset property in the vicinity of excavations 16 (SOM-X16 at 75,000 counts per minute [cpm]) and 26 (SOM-X26 at 42,068 cpm) and on the WM property at a soil pile in the vicinity of excavation 21 (CWM-X21 at 79,260 cpm). The USACE was notified of the readings and collected surface soil samples in the area. Two samples were collected on the Somerset Group property, the first sample (LOOW-SYM) was collected approximately 25 ft east of excavation 16 and the second sample (LOOW-SYMS #2) was collected approximately 25 ft east of excavation 26. Analysis was performed for ten radionuclides. Radioactivity in the LOOW-SYM sample ranged from 0.000110 microcuries/gram (μCi/g) of thallium^{208} to 0.0425 μCi/g protactinium^{234}. Results reported for sample LOOW-SYMS #2 ranged from 0.0000563 thallium^{208} to 0.00425 protactinium^{234}. The USACE concluded that the reported radionuclides were not indicative of Manhattan Engineering District (MED) activities and results did not warrant a change to activities with regard to radiation safety monitoring or protective equipment. Furthermore, the report concluded that the reported radioactivity was due to road bedding material.

One sample was collected on the WM property (TSB-C7-CWM-SO-X21-WW01-4) from the soil pile north of Building 2201. Uranium^{234}, uranium^{235}, and uranium^{238} were reported at 1.01 picocuries per gram (pCi/g), 0.082 pCi/g , and 0.94 pCi/g, respectively.

Results for the samples collected from the Somerset Group property are summarized in an USACE letter dated 07 December 2005 and results for the sample collected on WM property are summarized in a USACE Fact Sheet. The letter and Fact Sheet are included in Appendix D.

Results from non-isotope specific monitoring for radioactivity during excavation activities are documented on the excavation log for each excavation. If activity greater than twice background was encountered using ratemeters, smear wipes were collected for analysis using a Ludlum 2929 alpha beta counter. This occurred at several excavations along the 30-in. outfall. Results from the alpha beta counter indicated no removable radioactivity. These results are presented in Appendix D.

2.2.4.3 Results of Combustible Gas and Oxygen Level Field Screening

Combustible gases and oxygen levels were also monitored during excavation and are presented on the excavation logs in Appendix C. No combustible gases or oxygen deficient atmospheres were encountered during the UURI.

2.2.4.4 Results of Explosives Field Screening

Wipe tests for explosive residue were performed at each excavation where lines were encountered. The Senior Unexploded Ordnance Supervisor (SUXOS) performed the test using EXPRAY color indicator wipes and spray. Lines within the following excavations tested positive for explosive residue:

- LEW X11 UN01
- CWM-X85 UN01
- CWM-X85 UN02
- CWM-X86 WW
- CWM-X96 WW
- CWM-X107 WW
- CWM-X109 WW

Although the EXPRAY test kit is sensitive to and may reflect a positive reading for non-explosive nitroaromatic and nitroamine residues, it provided a useful tool in guiding the SUXOS to heightened vigilance in conducting the visual survey for possible TNT nodules when encountering lines with positive EXPRAY results. However, no material indicative of detonable concentrations of TNT were observed by the SUXOS during the UURI. Results from monitoring and the explosive residue wipe tests are presented on the excavation logs included in Appendix C

2.2.5 Assessment of Preferential Pathways - Bedding Material

The presence of bedding material, such as crushed stone or limestone screening was noted, where present, to provide data for the evaluation of whether the exterior of the pipeline paths could act as preferential pathways for migration of liquid and potential contaminants. The information was noted in the excavation logs. Although formerly used DOD water lines were not targeted for sample collection, these lines were targeted for evaluation of whether bedding material was present. In total, 206 water lines were evaluated for the presence of bedding material.

Although not proposed in the SAP (EA 2006a, 2006b, 2006c), liquid encountered in the bedding material in some excavations was collected and submitted for laboratory analysis as described in Section 2.2.2.4.

A discussion of bedding material evaluation is presented in Section 5.1.

2.3 CHARACTERIZATION AND DISPOSITION OF IDW

During the UURI, IDW, consisting of liquid decontamination fluid, sediment/soil from the bottom of decontamination vessels, and soil was generated, staged, characterized and disposed of prior to demobilization from the site. Based on characterization results, liquid waste was approved by NYSDEC and the Town of Lockport for disposal at the Town of Lockport Wastewater Treatment Plant. NYSDEC approved of disposal of the solid waste at Modern Landfill. Appendix F includes a summary of the IDW, results, and waste disposal approvals and manifests.

2.4 ASSESSMENT OF ACCURACY OF EXISTING PLANS

The assessment of the accuracy of the existing historical drawings (Table 1-2) was performed by reviewing the results of the site reconnaissance performed prior to the non-intrusive phase, the camera and geophysical survey, and observations made during the intrusive phase of the UURI.

The historical plans have proven valuable in locating many of the underground lines targeted during the UURI. Generally, the historical drawings were accurate. However, the plans were not always completely discernible. Many notations on the plans were illegible and some line types, diameters, and changes in direction were difficult to discern due to the age, condition, and scale of the plans. Generally, historical plans developed during planning and construction of AFP-68 were at a scale of 1:480 (1 in. = 40 ft) and illustrated the general yard piping between process areas but not within the areas (Historical Drawings 317-13-58 through 317-13-62). However, there are also detailed plans available at 1:240 (1 in. = 20 ft) (or better) for some AFP-68 buildings, including Buildings 31-01 (Drawing 331-300), 41-01 (Drawing 341-30), 6-01 (Drawings 306-706C-E), and 16-01 (Drawing 316-13-5) that referenced underground lines. These detailed plans were not available for all buildings or all areas.

Available plans from the LOOW TNT plant included as-built plot plans that illustrated TNT waste, acid waste sewer, sanitary sewer, steam, air, and stormwater lines and the locations of manholes (Historical Drawings 100-13 and 100-15). These plans also illustrated lines between the existing Nitration Houses, but did not illustrate precisely where lines entered the buildings. In addition, the scale on the majority of the plans was 1:1440 (1 in. = 120 ft) and many details were not discernible. A more useful drawing was available of the WWTP at a scale of 1:240 (1 in. = 20 ft). This drawing was produced during construction of AFP-68 (Historical Drawing 324-14-4). AFP-68 utilized the LOOW WWTP.

Plans showing details of lines within the process areas of AFP-68 and within the NIKE Base were not located during archival searches. Therefore, information on the type of line and what they conveyed is anecdotal and is based on review of historical photographs, typical process design practices, and materials that were required for final product production within those areas.

TABLE 2-1 SUMMARY OF PROPOSED AND ACTUAL EXCAVATIONS AND SAMPLE LOCATIONS FOR THE REMEDIAL INVESTIGATION OF FORMERLY USED UNDERGROUND UTILITY LINES ON SOMERSET GROUP PROPERTY

Proposed Sampling Program (as per SAP)										Actual Sampling Program					
Excavation Number	Type of Excavation	Targeted Line Types	AFP-68 Area	Camera Access Point Description (See Appendix B)	Proposed Excavation Location - Direction and Distance From Camera Access Point or Other Site Feature	Target/Collection Point	Proposed Number of Soil Samples	Proposed Number of Sludge Samples	Proposed Number of Wastewater Samples	Number and Type of Lines Encountered	Associated Sample Designation (s)	Description	Camera Survey Point Number (from non-intrusive investigation)	Reassessment of Line Type Based on Observation and Comparison to Historical Drawings	Notes
NA	NA	AW	31/5	CWLS AW-38 (formerly CW-38)	No excavation required. Pit can be accessed from manhole.	Sludge on bottom and wastewater within red brick pit.	0	1	1	NA	NA	During UURI, pit did not contain liquid. Sludge was no longer visible on bottom.	CW-38	Acid Waste	Camera survey of pit did not indicate lines penetrating pit. Three manholes at surface all lead to this same pit. Pit was filled with liquid during camera survey.
NA	NA	WW	GYP[2] (30A)	WW-3 southwest	No excavation necessary. Targeted location is outfall into CDD approximately 193.1 ft west/southwest of MH WW3.	Soil beneath outfall into Central Drainage Ditch.	1	0	0	See outfall location OF5, Table 2-5.					
NA	Targeted	SN	GYP (31)	MH SN-4/6	No excavation required for sludge and wastewater sample collection from within MH SN-4/6. Excavation 30 may be used to access soil from beneath the line in the vicinity of the manhole.	Black sludge at bottom of manhole/around lines and turbid liquid with sheen.	0	1	1	See excavation 30. Sludge layer proved to be too thin for collection.					
NA	Targeted	SN	GYP (31/5)	MH SN-5/7	No excavation required for sludge and wastewater sample collection from within MH SN-5/7. Excavation 28 will be used to access soil from beneath the line in the vicinity of the manhole.	Black sludge at bottom of manhole/around lines and turbid liquid with sheen.	0	1	1	See excavation 28.					
NA	Targeted	SN	GYP (5)	MH SN-6/8	No excavation required for sludge and wastewater sample collection from within MH SN-6/8. The east end of excavation 27 will access the soil beneath the line for sampling.	Black sludge at bottom of manhole/around lines and turbid liquid with sheen.	0	1	1	See excavation 27.					
NA	Targeted	SN	GYP (3)	MH SN-7/9	No excavation required for sludge and wastewater sample collection from within MH SN-7/9. The east end of excavation 26 will access the soil beneath the line for sampling.	Black sludge at bottom of manhole/around lines and turbid liquid with sheen.	0	1	1	See excavation 26.					
X01	Test pit	UN	T1T2	U1-U10	Place north-south trending excavation approximately 6 ft east of southern part of T1 foundation. Excavation should extend the length of the foundation in that area, approximately 20 ft.	Test pit excavation to evaluate whether underground lines originate from foundations in Area T1T2.	1	1	1	1/unknown	C7-SOM-SO-X01-UN01-1	One 4-in. diameter black fibrous pipe was encountered 1-ft bgs exiting towards the east from the south-east corner of the T1 foundation. The pipe trends east for 3 feet then trends north for approximately 25 feet, where it turns back west towards the T1 foundation. No sludge or wastewater was encountered within the pipe. A soil sample was collected from beneath the pipe. The line was deteriorated at the elbows.	NA	Drain	Historical plans do not exist for this area. Lines may not be encountered.
X02	Test pit	UN	T1T2	U1-U10	Place north-south trending excavation approximately 6 ft west of southern part of T1 foundation. Excavation should extend the length of the foundation in that area, approximately 20 ft.	Test pit excavation to evaluate whether underground lines originate from foundations in Area T1T2.	1	1	1	2/unknown	C7-SOM-SO-X02-UN01-1	One 4-in. diameter black fibrous pipe trending north-south was encountered 1-ft bgs. Appears to be similar to the pipe encountered in X01. No sludge or wastewater was encountered within the pipe. One soil sample was collected from beneath the pipe. The line was deteriorated.	NA	Drain	Historical plans do not exist for this area. Lines may not be encountered.
											C7-SOM-SO-X02-UN02-4 C7-SOM-WW-X02-UN02-4	Rusted 3-in. diameter steel pipe with black, granular, well-sorted sub angular coarse sand/fine gravel sized bedding material. Pipe trended north-south and was intact with no apparent breaches. Pipe was accessed by cutting with a chop saw. Wastewater sample was collected from within pipe. Soil sample was collected from beneath pipe.	Based on direction and material, possibly UN11/UN12.	Steam	
X03	Test pit	UN	T1T2	U1-U10	Place east-west trending excavation approximately 6 ft north of northern part of T1 foundation. Excavation should extend the length of the foundation in that area, approximately 30 ft.	Test pit excavation to evaluate whether underground lines originate from foundations in Area T1T2.	1	1	1	2/unknown	C7-SOM-SO-X03-UN01-1	One 4-in. diameter black fibrous pipe trending NE and SW was breached due to excavation operations. Drain holes were observed in the bottom of the line. A soil sample was taken from beneath the pipe. No sludge or wastewater was encountered.	NA	Drain	Historical plans do not exist for this area. Lines may not be encountered.
											No sample taken	One 2-in. diameter steel pipe trending north-south was encountered at 2-ft bgs. Pipe was located along the far east side of the trench beneath a large concrete slab (sidewalk). Prior to entering and after exiting from beneath the sidewalk the line was comprised of 4-inch black fibrous material. No samples were taken due to belief that the line was the same as the line encountered in EX-1 UN-01.	NA	Drain	

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Excavation Number	Type of Excavation	Targeted Line Types	AFP-68 Area	Camera Access Point Description (See Appendix B)	Proposed Excavation Location - Direction and Distance From Camera Access Point or Other Site Feature	Target/Collection Point	Proposed Number of Soil Samples	Proposed Number of Sludge Samples	Proposed Number of Wastewater Samples	Number and Type of Lines Encountered	Associated Sample Designation (s)	Description	Camera Survey Point Number (from non-intrusive investigation)	Reassessment of Line Type Based on Observation and Comparison to Historical Drawings	Notes
X04	Test pit	UN	T1T2	U1-U10	Place excavation approximately 10 ft north of T2 foundation, trending east-west. Excavation should extend the length of the foundation.	Test pit excavation to evaluate undergrounds originating from access points on the T2 foundation. Suspect that the lines trend to the north.	1	1	1	1/unknown	C7-SOM-SO-X04-UN01-4	One 2-in. diameter steel pipe trending north-south located 3-ft bgs. This pipe was adjacent to five other unknown underground lines: three trending north-south (UN01-UN04) and two trending east-west (UN05-UN06). This soil sample was collected from beneath the point where each of the lines intersected, at 4-ft bgs.	Possibly U2, U5, and/or U6.	Possible electrical conduit	Historical plans are not available for this area, but lines from northeast corner of T2 foundation are suspected of trending to the north.
										2/unknown	(C7-SOM-SO-X04-UN01-4)	One 1-in. diameter conduit pipe trending north-south. This pipe was adjacent to five other unknown underground lines: three trending north-south (UN01-UN04) and two trending east-west (UN05-UN06). This soil sample was collected from beneath the point where each of the lines intersected, at 4-ft bgs.	Possibly U2, U5, and/or U6.	Electrical conduit	
										3/unknown	(C7-SOM-SO-X04-UN01-4)	One 1-in. diameter conduit pipe trending north-south. This pipe was adjacent to five other unknown underground lines: three trending north-south (UN01-UN04) and two trending east-west (UN05-UN06). This soil sample was collected from beneath the point where each of the lines intersected, at 4-ft bgs.	Possibly U2, U5, and/or U6.	Electrical conduit	
										4/unknown	(C7-SOM-SO-X04-UN01-4)	One 2-in. diameter terracotta pipe trending north-south located 3-ft bgs. Pipe extended 5-ft from south wall of excavation before ending due to breach. This pipe was adjacent to five other unknown underground lines: three trending north-south (UN01-UN04) and two trending east-west (UN05-UN06). This soil sample was collected from beneath the point where each of the lines intersected, at 4-ft bgs.	Possibly U2, U5, and/or U6.	Unknown Line	
X05	Test pit	UN	T1T2	U1-U10	Place excavation approximately 6 ft west of T2 foundation, trending east-west. The excavation should extend the length of the foundation.	Test pit excavation to evaluate direction of underground lines originating on the T2 foundation.	1	1	1	No line found	No samples taken	N/A	NA	No line found	Historical plans are not available for this area. Excavation is to evaluate possible presence of lines originating from west side of T2 foundation.
X06	Test pit	DW, UN	T1T2	U-13	Place excavation approximately 25 ft south of camera access point U13 (sump), trending east-west. Trench to be approximately 6 ft in length.	One of three test pit excavations to evaluate possible underground lines penetrating concrete. Soil sample need only be collected from two of the tree	1	1	1	1/unknown	C7-SOM-SO-X06-UN01-4	One 2-in. diameter terracotta pipe trending north-south located 3-ft bgs. The line appears to intersect with the dry well which is positioned 5-ft north of the excavation trench (see X07). The line was breached during excavation operations. Also, one 2-in. diameter cleanout located on UN01 near the north side of the trench turned 90 degrees from the pipe and trended up. No sludge or wastewater was present. A soil sample was taken from beneath the line at 4-ft bgs.	U13	Likely sanitary sewer.	Historical plans are not available for this area. Excavation is to evaluate possible presence of lines penetrating south side of vault.
X07	Test pit	DW, UN	T1T2	U13A/U14	Place excavation approximately 30 ft north of U13 (sump), trending east-west. Location U14 (metal pipe) should be included in the western portion of the excavation. Trench to be approximately 6 ft in length.	Second of three test pit excavations to evaluate possible underground lines penetrating concrete. Soil sample need only be collected from two of the three .	1	1	1	1/unkown	C7-SOM-WW-X07-UN01-3 C7-SOM-SO-X07-UN01-9 C7-SOM-SL-X07-UN01-7	An 8-ft diameter concrete sump/tank was found 3-ft bgs, located in the south west corner of the excavation. The tank is 4-ft deep and has a removable concrete lid. The tank contained 2-ft of liquid and 6 in. of sludge on the bottom. The soil sample was taken from beneath the tank, the wastewater and sludge was taken from within the tank. The tank appears to be a septic tank that possibly served the T1 T2 area.	U13	Septic tank	Historical plans are not available for this area. Excavation is to evaluate possible presence of lines penetrating south side of vault.
X08	Test pit	DW, UN	T1T2	U13B	Place excavation approximately 60 ft northwest of U13 (sump), trending northeast-southwest.	Test pit excavation to evaluate underground line penetrating concrete vault from the northwest. Confirm that line goes to CDD.	1	1	1	No line found	No samples taken	N/A	NA	No line found	Historical plans are not available for this area, but one line was observed penetrating the vault from the northwest during the camera survey. Suspect this line terminates in Central Drainage Ditch, but outfall was not located.
X09	Test pit	UN	T1T2	U11-U12	Place excavation, trending north-south, between T1 and T2 building foundations.	Test pit excavation to evaluate underground lines associated with above ground pipes between T1 and T2 foundations.	1	1	1	1/unknown	C7-SOM-SO-X09-UN01-4	One 4-in. diameter steel pipe was found 3-ft bgs trending NE-SW and located on the far north side of the excavation. The pipe extended 5-ft from the west wall of excavation before ending. The soil sample was collected from beneath the pipe, no wastewater or sludge was present. This line trends towards the camera survey point U1 and may be associated with that stickup.	U1	Unknown Line	Historical plans are not available for this area. Excavation is to evaluate possible presence of lines originating from "stick ups" between T1 and T2.
X10	Targeted	DW	30A	DW-16	Between north wall of DW-16 (drywell) and concrete pad of Building 30A-01. East-west trending trench approximately 6 ft in length.	Sludge and wastewater throughout entire interior of line.	1	1	1	DW01	C7-SOM-SO-X10-DW01-1.5 C7-SOM-SL-X00-DW16-3	One 4-in. diameter steel pipe was found, 1 ft bgs, trending north from manhole DW-16 to the Combustible Warehouse concrete foundation. A soil sample was taken from beneath the pipe at 1.5-ft bgs. A sludge sample was taken from the bottom of DW-16 at 3 ft bgs. No wastewater was present.	DW-16	Unknown Line	Sludge was visible throughout entire inside of check valve line [line connects DW-16 to DW-16A (floor drain)]. Note manhole and line contains liquid. Closed check valve separated the manhole from the line.

TABLE 2-1 SUMMARY OF PROPOSED AND ACTUAL EXCAVATIONS AND SAMPLE LOCATIONS FOR THE REMEDIAL INVESTIGATION OF FORMERLY USED UNDERGROUND UTILITY LINES ON SOMERSET GROUP PROPERTY

Proposed Sampling Program (as per SAP)										Actual Sampling Program					
Excavation Number	Type of Excavation	Targeted Line Types	AFP-68 Area	Camera Access Point Description (See Appendix B)	Proposed Excavation Location - Direction and Distance From Camera Access Point or Other Site Feature	Target/Collection Point	Proposed Number of Soil Samples	Proposed Number of Sludge Samples	Proposed Number of Wastewater Samples	Number and Type of Lines Encountered	Associated Sample Designation (s)	Description	Camera Survey Point Number (from non-intrusive investigation)	Reassessment of Line Type Based on Observation and Comparison to Historical Drawings	Notes
X11	Test pit	UN	30A	DW16	Place excavation approximately 7 ft south or west of dry well.	Test pit excavation to evaluate possible underground line originating from dry well DW16. A small test pit (no more than 6 ft in length) is proposed.	1	1	1	No lines found	No samples taken	No lines were found south of DW-16. The south side of DW-16 consisted of #2 limestone rocks. This could possible be a French drain. There was a 4 inch pipe extending from the south side of DW-16 to the rock bed.	DW-16	No lines found	Historical plans do not indicate an underground line in this area. However, the camera survey confirmed that the floor drain from Building 30A terminates in the dry well. An outfall from the drywell was not discovered during the camera survey, but may be present below the sludge. Excavation is to evaluate whether an out fall is present.
X12	Test pit	WW	GYP (30A)	WW3	Place north-south trending excavation approximately 7 ft east of manhole WW3 to access wastwater line.	Test pit excavation to evaluate the east-west trending wastewater main. Collect soil from beneath line, and sludge and wastewater from within wastewater line.	1	1	1	WW01	C7-SOM-WW-X00-WW3-7 C7-SOM-SO-X12-WW01-9 C7-SOM-SL-X12-WW01-7	One 18-in. diameter concrete pipe trending east-west located 7-ft bgs to the top of the pipe. According to historical drawings this line connects to the west to wastewater manhole (WW03). The soil sample was taken from beneath the pipe at 9-ft bgs, the sludge and wastewater samples were extracted from the nearby wastewater manhole (WW03).	WW-3	Wastewater Line	The camera survey indicated separations at seams throughout the length of this line. The separation targeted by this excavation is 7 feet east of the manhole WW3.
X13	Targeted	WW	GYP (5)	MH WW-3 northeast	Excavation for collection of soil sample from beneath pipeline at 193.5 ft east/northeast from MH WW-3, adjacent to and west of MH WW-2. Sludge may be accessible through manhole.	White deposit/sludge at slight breach in seam at 7 o'clock position (looking to the east); target soil beneath breach.	1	1	1	WW01	C7-SOM-SO-X13-WW01-7	One 18-in. diameter concrete pipe trending east-west located 5-ft bgs to the top of the pipe. According to historical drawings this line connects to wastewater manhole (WW02) 14-ft to the east. The soil sample was taken from beneath the pipe at 7-ft bgs. During the excavation soil was removed from around a concrete collar connector; this lead to liquid seepage at the collar into the excavation trench. The liquid was not sufficient for a wastewater sample collection.	MH-WW-3 northeast	Wastewater Line	Flowing liquid present within line during camera survey. May need to use weir or peristaltic pump to collect wastewater.
X14	Test pit	WW, W, UN	GYP (6)	NA	Center excavation approximately 265 ft east of MH WW-2, adjacent to and west of gas liquification foundation. Excavation should extend from the southwest corner of the gas disposal area foundation south approximately 40 ft along the west edge of the gas liquification foundation.	Bends in line encountered during camera survey prevented visual evaluation of interior of line. No specific target identified.	1	1	1	WW01	C7-SOM-SO-X14-WW01-6	One 12-in. diameter steel pipe trending east-west located 5-ft bgs to the top of the pipe. This pipe was located in the northern portion of the excavation trench. A soil sample was taken from beneath the pipe at 6-ft bgs. No attempt was made to access the interior of line because the probability of liquid release in large quantities. No sludge or wastewater samples were taken.	NA	Wastewater Line	Test trench to evaluate the wastewater line originating in Area 6. Historical Drawing 306-706C-2 indicates a 18-in. WW line originating from a 10-in diameter stickup between Cell A and Cell B of Building 6-01 and also from the gas liquification foundation. The 18-in line trends east-west between the gas disposal and gas liquification foundations and terminates in MH WW-2. A 10-in. diameter cooling water line, trending east-west, lies 5 ft north
										I/WP	C7-SOM-SO-X14-UN01-6.5 7-SOM-WW-X14-UN01-6	One 6-in. diameter steel pipe trending east-west located 6-ft bgs and positioned in the southern portion of the excavation trench. A soil sample was taken from beneath the pipe at 6.5-ft bgs. A chop saw was used to gain access for the collection of the waste water sample. No sludge was present within the pipe.	NA	Process Water Line as indicated on drawing 306-706C-2	
										W01	No samples taken	One 12-inch water line was encountered 7-ft north of the wastewater line. No samples were taken due to the nature of the line.	NA	Cooling Water Line	
X15	Test pit	SN, AW	6	SN5/7NA	Place excavation approximately 10ft west of Area 6 gas disposal area foundation. North end of test pit should extend approximately 5 ft north of the north edge of gas disposal area foundation in order to capture the sanitary sewer line. South end should extend south of center line of gas disposal area to capture acid waste line. Historical Drawing 317-13-58.	Test pit excavation to evaluate presence of possible SN and AW line. Turbid water prevented visual evaluation of interior of SN line from MH 5/7. No specific target identified, but sludge and liquid suspected based on contents of MH SN5/7. Soil sample proposed from beneath each line.	2	2	2	SN	No samples taken	One 4-in. diameter terracotta pipe trending east-west located 6-ft bgs and positioned in the northern portion of the excavation trench. The terracotta pipe was broken during excavation operations. A soil sample was taken from beneath the pipe at 6.5-ft bgs, the wastewater sample was collected from the break in the pipe. No sludge was present.	SN5/7	Sanitary Sewer Line as per drawing 306-706C-2	A 4-in. UA/UC line originates at floor drain within gas disposal area, trends to the west to the UA lift station (UA38 in the camera survey). A 4-in. diameter SS line, trending west, may be located 6-ft north of gas disposal area foundation (Historical Drawing 306-706C-2).
										AW01	C7-SOM-SO-X15-UN01-6.5 C7-SOM-WW-X15-UN01-6 Should be AW line not UN	One 4-inch terracotta pipe encountered in the southern area of the excavation.	AW38	Acid Waste/Chemical Waste Line	NA
X16	Targeted	WW	5	MH WW-2 (east)	Place center of excavation at 116.2 ft east and 23 ft south of MH WW-2, at secondary line coming into main from the south. East-west trending trench approximately 6 ft in length.	White and black sludge/debris at 6 o'clock position from breach in seam; target soil beneath breach.	1	1	1	WW01	C7-SOM-SO-X16-WW01-5.5	One 18-in. diameter concrete line trending northwest-southeast located 3.5-ft bgs to the top of the pipe. The pipe was positioned in the southwest portion of the excavation trench. A soil sample was taken from beneath the pipe at 5.5-ft bgs. No attempt was made to access the interior of line because the probability of liquid release in large quantities. No sludge or wastewater samples were taken.	MH WW-2 (east)	Wastewater Line	Excavate this secondary line at 23 ft south of the main east-west WW line. No liquid was present at this location during the non-intrusive investigation. Voice verification indicated that line leads to large diameter pipe on north edge of concrete foundation within Area 5.
										WC01	C7-SOM-SO-X16-CW01-6.5 This should be WC cooling water	One 12-in. diameter steel pipe trending northwest-southeast located 5.5-ft bgs and positioned in the southwest portion of the excavation trench. A soil sample was taken from beneath the pipe at 6.5-ft bgs. No attempt was made to access the interior of line because the probability of liquid release in large quantities. No sludge or wastewater samples were taken.	NA	Cooling Water Line	NA

TABLE 2-1 SUMMARY OF PROPOSED AND ACTUAL EXCAVATIONS AND SAMPLE LOCATIONS FOR THE REMEDIAL INVESTIGATION OF FORMERLY USED UNDERGROUND UTILITY LINES ON SOMERSET GROUP PROPERTY

Proposed Sampling Program (as per SAP)										Actual Sampling Program					
Excavation Number	Type of Excavation	Targeted Line Types	AFP-68 Area	Camera Access Point Description (See Appendix B)	Proposed Excavation Location - Direction and Distance From Camera Access Point or Other Site Feature	Target/Collection Point	Proposed Number of Soil Samples	Proposed Number of Sludge Samples	Proposed Number of Wastewater Samples	Number and Type of Lines Encountered	Associated Sample Designation (s)	Description	Camera Survey Point Number (from non-intrusive investigation)	Reassessment of Line Type Based on Observation and Comparison to Historical Drawings	Notes
X17	Test pit	WW, UN	5	NA	East-west trending test pit, approximately 6 ft north of concrete foundation (within Area 5).	Test pit excavation to evaluate potential underground lines within Area 5. According to Historical Drawing 317-13-58 possible WW line. Camera survey also confirmed WW line trending south into Area 5 from main east-west trunk line (terminating in WW-2).	1	1	1	WW01	C7-SOM-SO-X17-WW01-6	One 18-in. diameter steel/concrete pipe trending north-south. The 18" wastewater trends north to south before it takes a 90 degree turn up to the surface at the base of the concrete foundation to 2-ft bgs. The line continues to the south and enters below the concrete pad at 2-ft bgs. The pipe material is concrete exiting the north wall then changes to steel after the first elbow. A soil sample was taken from beneath the line. No attempt was made to access the interior of line because the probability of liquid release in large quantities. No sludge or wastewater samples were taken.	NA	Wastewater Line	Historical Drawing 317-13-58 indicates, from west to east, the presence of a WW, cooling water, and potable water line penetrating the north edge of the Area 5 concrete foundation.
										WC01	C7-SOM-SO-X17-WC01-8.5 This should be WC cooling water	One 12-in. diameter steel pipe trending north-south located 7.5-ft bgs and positioned just east of the wastewater line. A soil sample was collected from beneath the pipe at 8.5-ft bgs. No attempt was made to access the interior of line because the probability of liquid release in large quantities. No sludge or wastewater samples were taken.	NA	Cooling Water Line	NA
										W01	No samples taken	One 2" copper water line. The copper line came of CW01 and went to the east. No sample was collected due to the nature of the line. -	NA	Water Line	NA
X18	Test pit	UN	5	NA	East-west trending test pit, approximately 6 ft north of central tank area (within Area 5) with concrete berm.	Test pit excavation to evaluate potential underground lines within Area 5.	1	1	1	1/unknown	C7-SOM-SO-X18-UN01-3.5 7-SOM-SL-X18-UN01-3	One 2-in. diameter terracotta pipe trending northwest-southeast located 3-ft bgs and positioned in the eastern portion of the excavation trench. A soil sample was collected from beneath the pipe at 3.5-ft bgs. The terracotta pipe was broken during excavation operations. A sludge sample was collected from inside the pipe. No wastewater was present.	NA	Unknown Line	No lines indicated on available plans.
X19	Test pit	AW, UN	5	NA	East-west trending test pit, approximately 6 ft north of western tank area (within Area 5) with concrete berm.	Test pit excavation to evaluate potential underground lines within Area 5. According to Historical Drawing 317-13-58, possible AW in area. Collect soil from beneath line and sludge and wastewater from within line.	1	1	1	1/unknown	C7-SOM-SO-X19-UN01-6	One 18-in. diameter concrete pipe trending north-south located 5.5-ft bgs to the top of the pipe. The pipe was positioned in the eastern portion of the excavation trench. During excavation operations the concrete pipe was broken thus enabling access for collection of wastewater and sludge samples. Possible Acid Waste Line.	NA	Possible Acid Waste Line	Possible AW line trending north from eastern end of western tank area to AW38. Note, if deemed more efficient during field operations, this test pit may be combined with test pits X13 and Z14 to make one long test pit.
X20	Test pit	UN, AW, CW	5	NA	Place excavation, trending east-west, approximately 6 ft south of Area 5 concrete foundation.	Test pit excavation to evaluate possible underground lines originating from drains located on concrete foundation.	1	1	1	1/unknown	C7-SOM-SO-X20-UN01-2.5	One 12-in. diameter concrete pipe trending north-south and located 1.5-ft bgs. The concrete pipe was accessed using a chop saw. No wastewater or sludge was present inside the pipe. A soil sample was collected from beneath the pipe at 2.5-ft bgs. The access hole was sealed with Portland cement before backfilling.	NA	Unknown Line	Detailed historical plans for Area 5 are not available. However, drains on the Area 5 concrete foundation may terminate in AW or CW line (see Historical Plan 305-13-18).
										W01	No samples taken	One 1" copper water line located 3-ft bgs in the eastern portion of the excavation. No samples were taken due to the nature of the line.	NA	Water Line	NA
X21	Targeted	WW	5	MH WW-2 (south)	Place center of excavation 124.3 ft south and 24.7 ft east of from MH WW-2 at tertiary line coming in from south.	Sludge/deposit near the penetration of a tertiary line from south into the east-west secondary line.	1	1	1	WW01	C7-SOM-SO-X21-WW01-5.5	One 18-in. diameter concrete pipe trending east-west and located 4-ft bgs. A "T" connection was present with a secondary 18-in. concrete line trending south. The "T" coupler was made of steel and was 3-ft long. A soil sample was collected from beneath the pipe at 5.5-ft bgs. No sludge or wastewater present.	MH WW-2	Wastewater line	No liquid was flowing during camera survey. However, there is visual evidence that liquid may be present at times. If liquid is present, a WW sample will be collected after consultation with the USACE PM. Note that there is a penetration from the south into the east-west trending secondary at this 24.7 ft point. This north-south trending tertiary line originates from the Area 5 red-brick foundation (Camera Access Point U-31).
X22	Test pit	UN	5	U30-U32	Place excavation, trending north-south, approximately 7 ft west of Area 5 acid brick foundation.	Test pit excavation to evaluate possible underground lines originating from drains located on acid brick foundation.	1	1	1	1/unknown	C7-SOM-SO-X22-UN01-3 C7-SOM-SL-X22-UN01-2.5	One 2-in. diameter terracotta pipe trending northwest-southeast and located 2.5-ft bgs. The terracotta pipe was positioned in the northeastern portion of the excavation. The terracotta pipe was broken during excavation operations. A soil sample was collected from beneath the pipe at 3-ft bgs. A sludge sample was extracted from the interior of the broken pipe. No wastewater was present.	U30-U32	Unknown Line (may be wastewater line)	Detailed historical plans for Area 5 are not available. However, the direction of underground lines associated with drains in the northeast corner of the acid brick foundation (U30) was not confirmed during the camera survey, and may terminate in the main north-south trending AW line west of the Area 5 (remediated in 2001).

TABLE 2-1 SUMMARY OF PROPOSED AND ACTUAL EXCAVATIONS AND SAMPLE LOCATIONS FOR THE REMEDIAL INVESTIGATION OF FORMERLY USED UNDERGROUND UTILITY LINES ON SOMERSET GROUP PROPERTY

Proposed Sampling Program (as per SAP)										Actual Sampling Program					
Excavation Number	Type of Excavation	Targeted Line Types	AFP-68 Area	Camera Access Point Description (See Appendix B)	Proposed Excavation Location - Direction and Distance From Camera Access Point or Other Site Feature	Target/Collection Point	Proposed Number of Soil Samples	Proposed Number of Sludge Samples	Proposed Number of Wastewater Samples	Number and Type of Lines Encountered	Associated Sample Designation (s)	Description	Camera Survey Point Number (from non-intrusive investigation)	Reassessment of Line Type Based on Observation and Comparison to Historical Drawings	Notes
X23	Test pit	UN	3/5	NA	Place excavation, trending north-south, between the southwest corner of the acid brick foundation within Area 5 and the northwest corner of the concrete foundation in Area 3.	Test pit excavation to evaluate whether secondary lines for the AW main originated in areas 3 or 5.	1	1	1	AW01	C7-SOM-SO-X23-AW01-8	One 8-in. diameter terracotta pipe trending north-south located 7-ft bgs and positioned on the western portion of the excavation. Several layers of bedding material were noted above and below the 8-in terracotta pipe. This line is believed to be the remediated acid waste line, therefore the line was not entered and no wastewater or sludge samples were taken. A soil sample was collected beneath the line as a confirmatory sample.	NA	Acid Waste Line	Presumably, secondary lines to the AW are located within Areas 3 and 5 and trend east to west to the main line (which was remediated in 2001).
X24	Test pit	WW	3	NA	Center excavation approximately 20 ft west of northwest corner of Areas 3 foundation (approximately 280 ft south of MH WW-2). E	Debris encountered during camera survey prevented visual evaluation of interior of line. No specific target identified.	1	1	1	No line found	No samples taken	N/A	NA	No line found	Test trench to evaluate if the north-south trending WW line that terminates at MH WW-2 originates within Area 3.
X25	Test pit	UN	3	U29	Place excavation, trending north-south, approximately 7 ft west of Area 3 concrete foundation and tank area. Excavation should extend the length of the foundation.	Test pit excavation to evaluate possible underground lines originating within Area 3. Trench should extend from the north end of the concrete foundation to this southern end of the tank area.	1	1	1	No line found	No samples taken	N/A	U29	No line found	Historical plans are not available for the interior of Area 3. However, the main north south trending AW line (remediated in 2001) lies just west of Area 3. Presumably, secondary lines from within Area 3 trend west out of the area to the AW line. Secondary WW lines may also be expected in this area.
X26	Test pit	SN, UN	3	SN27, MH SN7/9	Northeast-southwest trending excavation approximately 6 ft east of Building 3-01. East end of excavation to intercept sanitary sewer main to east (near SN7/9).	Probable sanitary sewer line originating from within Building and exiting to the east. Test pit excavation to evaluate presence of lines and access contents. Samples proposed from beneath and within lines.	2	1	1	SN01	C7-SOM-WW-X26-SN01-3 C7-SOM-SO-X26-SN01-8	Wastewater sample was collected from sanitary sewer (SN-6) which was located 2-ft north of excavation trench. An attempt was made to collect a soil sample below SN01 (approximately 16-ft bgs). While excavating to deep of 7-ft bgs black staining of the soil was present. A soil sample was collected from within the stained area at 8-ft bgs. Excavation continued until reaching 9-ft bgs at this point pressure removed from deteriorated pipe caused pipe failure and leakage of approximately 50 gallons of liquid. To prevent further release of liquid the excavation was backfilled.	U27, MH SN7/9	Sanitary Sewer Line	Care should be exercised during excavation of this test pit. Total organic vapor results from camera access point SN27, within Building 3-01 were elevated (30 parts per million) during the camera survey. Camera survey of access point SN27 indicated a sanitary sewer line originating in Building 3-01, trending toward MH SN7/9. A blockage was encountered just east of the building.
										SN02	No samples taken	One 4-in. diameter terracotta pipe trending east-west, exact depth of pipe was unable to be determined. The 4-in. terracotta pipe appears to line up directly with toilets within the Building 3-01 positioned 10-ft east, and appears to tie into SN01. No samples were taken from this pipe, the line was backfilled to prevent further leakage from SN01	U27, MH SN7/9	Sanitary Sewer Line	NA
										Unknown	No samples taken	One 2-in. diameter copper line trending east-west and located approx. 6-ft bgs and positioned in the south end of the excavation trench. The copper line is possibly a water supply line that connects directly to Building 3-01 located 17-ft to the west. No samples were taken. Due to the nature of the line.	U27, MH SN7/9	Unknown Line	NA
X27	Test pit	SN	GYP (5)	NA	East-west trending excavation approximately 6 ft south of Building 5-01. Excavation will be extended to east to capture north/south trending sanitary sewer main to the east of Building 5-01 near manhole SN 6/8.	Test pit excavation to evaluate presence of lines and access contents. Soil sample proposed for beneath lines penetrating south wall of building and the north/south sanitary sewer main. Collect soil from below and sludge and wastewater (if present) from within sanitary sewer line. Collect soil from beneath main north-south trending sanitary sewer line east of Building 5-01.	2	1	1	SN01	C7-SOM-WW-X27-SN01-5	One 4-in. diameter terracotta pipe trending north-south located 5-ft bgs. Building 5-01 is positioned 10-ft to the north indicating the 4-in. terracotta pipe possibly enters or connects to. The pipe was broke during excavation operations. Wastewater sample was collected from the pipe. No sludge was present and collecting a soil sample was negated due to water accumulation in the excavation.	NA	Sanitary Sewer Line	Geophysics trace indicated presence of possible electrical conduit lines penetrating the south wall and floor of Building 5-01. Available plans (317-13-58) indicate presence of sanitary sewer lines originating from the southern portion of the building.
										UN01	C7-SOM-SO-X27-UN01-5.5	A possible rock French drain was discovered in the north east section of excavation 27and located 5-ft bgs. A soil sample was collected from beneath the drain system at 5.5-ft bgs. No sludge or wastewater was present.	NA	French Drain	NA
										1/unknown	No samples taken	One 2-in. diameter copper line trending north-south and located 5-ft bgs and positioned in the east end of excavation 27a. The copper line is possibly a water supply line that connects directly to Building 5-01 located 10-ft to the north. No samples were taken.	NA	Unknown Line (possible water line)	NA
										SN02	No samples taken	One 8-in. diameter terracotta pipe trending north-south located 9.5-ft bgs. The terracotta line was deteriorated, and once weight was removed from the line, the line began to leak. Approximately 50 gallons of liquid was released into the excavation trench. According to historical drawings this was a sanitary sewer pipe connecting to SN 6/8 manhole located 2-ft south of the excavation 27b. No samples were collected due to the release.	NA	Sanitary Sewer Line	NA

TABLE 2-1 SUMMARY OF PROPOSED AND ACTUAL EXCAVATIONS AND SAMPLE LOCATIONS FOR THE REMEDIAL INVESTIGATION OF FORMERLY USED UNDERGROUND UTILITY LINES ON SOMERSET GROUP PROPERTY

Proposed Sampling Program (as per SAP)										Actual Sampling Program					
Excavation Number	Type of Excavation	Targeted Line Types	AFP-68 Area	Camera Access Point Description (See Appendix B)	Proposed Excavation Location - Direction and Distance From Camera Access Point or Other Site Feature	Target/Collection Point	Proposed Number of Soil Samples	Proposed Number of Sludge Samples	Proposed Number of Wastewater Samples	Number and Type of Lines Encountered	Associated Sample Designation (s)	Description	Camera Survey Point Number (from non-intrusive investigation)	Reassessment of Line Type Based on Observation and Comparison to Historical Drawings	Notes
X28	Test pit	SN, WW	GYP (5)	MN SN 5/7	Place excavation, trending east-west, approximately 6 ft south of MN SN5/7. The eastern end of the excavation shall begin just east of the MH and the excavation should extend 8 ft west to intercept the WW line.	Test pit excavation to evaluate the north-south trending sanitary sewer and wastewater lines. Collect soil from beneath each line, and sludge and wastewater from within the wastewater line. Sludge and wastewater for the sanitary sewer line may be collected from within the	2	1	1	SN01	C7-SOM-WW-X28-SN01-7 C7-SOM-SO-X28-SN01-8 C7-SOM-SL-X28-SN01-10	One 8-in. diameter terracotta pipe trending north-south located 8.5-ft bgs and positioned in the center of the excavation trench. The terracotta pipe was broken during excavation operations. A soil sample was collected from above the pipe due to black staining found in the soil. Wastewater and sludge samples were collected from SN-5/7 located just to the north of the excavation.	MN SN 5/7	Sanitary Sewer Line	A north-south trending SN main (18-in. diameter) and WW line (8-in. diameter) are indicated on Historical Drawing 317-13-58.
										WW01	C7-SOM-SO-X28-WW01-5 C7-SOM-SL-X28-WW01-4.5	One 12-in. diameter concrete pipe trending north-south located 4-ft bgs and positioned 4-ft west of SN01. A soil sample was collected from beneath the pipe at 5-ft bgs. A chop saw was used to gain access to the pipe, where a sludge sample was collected from the interior at 5.5-ft bgs. No wastewater was present.	MN SN 5/7	Wastewater Line	NA
X29	Test pit	WW, W, UN	6	NA	Place excavation, trending north-south, approximately 15 ft west of the west wall of the northwest corner of Building 6-01	Test pit excavation to evaluate lines originating in the rectifier area of Building 6-01. .	1	1	1	WW01	C7-SOM-SO-X29-WW01-5 C7-SOM-WW-X29-WW01-4.5	One 12-in. diameter concrete pipe trending east-west and located 4-ft bgs. A soil sample was collected from beneath the pipe at 5-ft bgs. The chop saw was utilized to gain access for wastewater sampling collection. Wastewater was collected at 4.5-ft bgs. Access was patched with porter prior to backfilling. Historical drawings indicate a 8-in. diameter line.	NA	Wastewater Line	East-west trending 8-in. diameter WW line originating in rectifier room of Building 6-01. A 46-in. diameter cooling water line also feeds the rectifier room (Historical Drawings 306-706C-2 and 306-706C-27). The bedding material of the water line, if present, will be assessed.
										W01	No sample taken	One unknown diameter steel pipe trending east-west located 3-ft bgs. According to historical drawing this pipe appears to be cooling water pipe. No samples were collected.	NA	Cooling Water Line	NA
X30	Test pit	SN	GYP (31)	SN4/6	Place north-south trending excavation 8 ft west of manhole SN4/6 to access soil beneath sanitary sewer.	Test pit excavation to evaluate the east-west trending sanitary sewer main. Collect soil from beneath line. Sludge and wastewater may be collected from within manhole SN4/6.	1	1	1	SN01	C7-SOM-SO-X30-SN01-8 C7-SOM-WW-X30-SN01-7.5	One 8-in. diameter terracotta pipe trending north-south and located 7.5-ft bgs. A soil sample was collected from beneath the pipe at 8-ft bgs. A wastewater sample was collected from a crack in the pipe. No sludge sample was collected from within the pipe.	SN 4/6	Sanitary Sewer Line	NA
X31	Test pit	SN	31	MH SN-3/5	Center east-west trending excavation approximately 25 ft south of MH SN-3/5. Excavation should traverse from approximately 20 ft west of the northwest corner of the building, to 40 ft west of the corner, in order to capture the possible lab waste, sanitary sewer, and vent pipe.	Turbid water prevented visual evaluation of interior of sanitary sewer line. No specific target identified, but sludge and liquid suspected based on contents of adjacent MH and SN line within the building. Target the soil under the sanitary sewer and lab waste line and wastewater and sludge (if present) from within the lines.	2	2	2	W01	No samples taken	One 8-in. diameter steel water line trending north-south and located 5.5-ft bgs. The line was not leaking and remained intact. No samples were collected due to the line being a water line.	NA	Water Line	A 4-in. diameter laboratory waste line penetrates north wall of building at 32.8 ft east of northwest corner of building (Historical Drawing 331-300). A 5-in. diameter sanitary sewer line penetrates north wall of building at 36 ft east of northwest corner of building.
										W02	No samples taken	One 8-in. diameter steel water line trending north-south and located 5.5-ft bgs. A water valve was positioned on the north side of the excavation. The line was not leaking and remained intact. No samples were collected due to the line was most likely a water line.	NA	Water Line	NA
										Steam Lines	No samples taken	Two 2-in. diameter steam lines positioned 1-ft apart and protruding from the west wall approximately 3-ft before ending. The lines were located 4-ft bgs. Possible previous excavations destroyed remaining line. The lines were surrounded by black slag bedding. No samples were collected due to steam lines were not targeted for investigation.	NA	Steam Lines	NA
										UST	No samples taken	A UST was discovered just north of Building 31. The tank was approximately 8 ft in diameter by 13 ft long.	NA	UST	NA
X32	Test pit	SN	GYP (30)	SN4	Place north-south trending excavation approximately 70 ft west of manhole SN4 to access sanitary sewer.	Test pit excavation to evaluate the east-west trending sanitary sewer main. Collect soil from beneath line, and sludge and wastewater from within sanitary sewer line. Assess bedding of adjacent water lines.	1	1	1	SN01	C7-SOM-WW-X32-SN01-4	One 8-in. diameter terracotta pipe trending east-west and located 4-ft bgs. The terracotta pipe leads directly into the sanitary sewer manhole located 2-ft to the west. The wastewater sample was collected from a crack in the pipe caused during excavation activities. Water lines indicated on historical drawing were not encountered.	SN4	Sanitary Sewer Line	NA
										1/unknown	No samples taken	One 12-in. diameter cast iron pipe positioned on the north end of the excavation protruding 2-ft south before ending. The pipe located at 2-ft bgs originates from under a concrete slab on the north side of the excavation. The end of the cast iron pipe appears to be a flange with newer type bolts. No samples were collected due to belief that the pipe was installed during post government era.	NA	Unknown Line	NA

TABLE 2-1 SUMMARY OF PROPOSED AND ACTUAL EXCAVATIONS AND SAMPLE LOCATIONS FOR THE REMEDIAL INVESTIGATION OF FORMERLY USED UNDERGROUND UTILITY LINES ON SOMERSET GROUP PROPERTY

Proposed Sampling Program (as per SAP)										Actual Sampling Program					
Excavation Number	Type of Excavation	Targeted Line Types	AFP-68 Area	Camera Access Point Description (See Appendix B)	Proposed Excavation Location - Direction and Distance From Camera Access Point or Other Site Feature	Target/Collection Point	Proposed Number of Soil Samples	Proposed Number of Sludge Samples	Proposed Number of Wastewater Samples	Number and Type of Lines Encountered	Associated Sample Designation (s)	Description	Camera Survey Point Number (from non-intrusive investigation)	Reassessment of Line Type Based on Observation and Comparison to Historical Drawings	Notes
X33	Test pit	SN	41	MH SN-4	Center east-west trending excavation approximately 65 ft north of MH SN-4. Length of excavation should be 30 ft to capture sanitary sewer, possible lab waste line, and possible steam line. Only the sanitary sewer and lab waste line are proposed for sampling.	Turbid water prevented visual evaluation of interior of line, but liquid was present and sludge is suspected to be present. No specific target identified.	1	1	1	SN01	C7-SOM-WW-X33-SN01-4 C7-SOM-SO-X33-SNO1-4.5	One 4-in diameter terracotta pipe located 4-ft bgs trending north-south positioned 10-ft from the west wall of the trench. The pipe was cracked during excavation operations causing water to spill into the trench. Portland cement grout was used to patch and seal terracotta pipe cracked by excavation. A wastewater and soil sample were collected, no sludge was visible.	MH SN-4	Sanitary Sewer Line	This excavation may uncover the lab waste line and sanitary sewer line. If more than one line is uncovered, SL, WW, and SO samples will be collected from each line.
										W01	No samples taken	One 6-in. diameter steel water line was located 4-ft bgs trending north-south positioned 22.5-ft from the east wall. The water line remained intact during excavation operations. Black bedding material was positioned above and below the water line. No samples were collected due to the appearance of water line.	NA	Water Line	NA
										Steam Line	No samples taken	One 2-in. diameter steel steam line located 4-ft bgs trending north-south positioned 1.5 ft west of W01. Black bedding material was positioned above and below the steam line. The No samples were collected due to steam lines were not targeted for investigation.	NA	Steam Line	NA
X34	Test pit	SN, W	6	U28, MH SN7/9	Place excavation, trending north-south, approximately 15 ft west of the southwest corner of Cell Room A of Building 6-01. The southern end of the excavation should extend no less than 20 ft south of the southern edge of the building in order to intercept the water line.	Test pit excavation to evaluate the possible sanitary sewer and water line in the southern portion of Area 6. Target soil from beneath and wastewater and sediment (if present) from within sanitary sewer line. Assess bedding material of water line.	1	1	1	WP01	C7-SOM-SO-X34-WP01-6	One 6-in. diameter steel water line located 5.5-ft bgs trending east-west positioned 10-ft from south trench wall. The line was intact during excavation operations. A soil sample was collected at 6-ft bgs, no wastewater or sludge was collected due to possible pressure in water line.	U28, MH SN7/9	Potable Water Line	East-west trending SN (4-in. diameter) and potable water (3-in. diameter) lines lie approximately 18 ft and 8 ft (respectively) south of Building 6-01 (Historical Drawing 306-706C-2). The bedding material of the water line, if present, will be assessed.
X35	Test pit	UN	6	NA	Place excavation, trending east-west, approximately 6 ft south of Cell Room A of Building 6-01.	Test pit excavation to evaluate possible lines associated with conveyor pit.	1	1	1	1/unknown	C7-SOM-WW-X35-UN01-6 C7-SOM-SO-X35-UN01-5.5	One 6-in. diameter steel line located 6-ft bgs trending N-S and positioned 16-ft from the west wall of trench. The line appears to run from Cell Room A to the south. Pea gravel bedding was discovered throughout the trench. On the west side of UN01 a 4-ft layer of pea gravel was observed starting at 3-ft bgs, on the east side of UN01 a 3-ft layer was observed at 5.25-ft bgs. The soil sample was collected .5-ft above line due to staining found in the soil. A wastewater sample was also collected; no sludge was visible.	NA	Unknown Line	Lines are not indicated on the historical plans for this area. However, whether lines originated from conveyor pit, formerly located in the southeast corner of Cell Room A, is unknown.
X36	Not originally included in proposed sampling and analysis program.									1/unknown	C7-SOM-SL-X36-UN01-3.5 C7-SOM-SO-X36-UN01-4	One 12-in. diameter concrete line extending from the excavations north wall at 2-ft bgs, then trending south 20-ft to a 90 degree steel elbow then turning west for 15-ft before changing back to concrete. The 12-in diameter concrete line now positioned at 3-ft bgs continues 8-ft west before exiting the west wall. The line running east-west parallels Building 5-01 which is 18-ft to the south. A chop saw was used to gain access to the steel portion of UNO1 line along the east-west trending. A soil sample was collected prior to chop saw cutting from beneath the line at 4-ft bgs. Sludge was collected from within the line, no wastewater was present. Line may be connected to the wastewater line encountered in excavation 21.	NA	Unknown Line (possible wastewater)	NA
X37	Not originally included in proposed sampling and analysis program.									1/unknown	C7-SOM-SO-X37-UN01-7	One 19-in. concrete line located 6-ft bgs and positioned 7-ft from the SW corner of the excavation trench. The line protruded 2-ft from the SW wall before ending. No visible signs if that the line continued. It may have been removed during past site activity. The line may have joined with the line encountered in excavation 19, although sized differ.	NA	Unknown Line	NA
X38	Not originally included in proposed sampling and analysis program.									1/unknown	C7-SOM-SO-X38-UN01-2.5	One 4-in. diameter terracotta pipe located 2-ft bgs. UN01 exits the below grade sump/tank to the south at 2-ft bgs	NA	Unknown Line	NA
	Not originally included in proposed sampling and analysis program.									2/unknown	C7-SOM-SO-X38-UN02-2.5	One 4-in. diameter terracotta pipe located 2-ft bgs. UN02 exits the below grade sump/tank septic tank to the north at 2-ft bgs.	NA	Unknown Line	NA
	Not originally included in proposed sampling and analysis program.									2/unknown	C7-SOM-SO-X38-UN03-7	UN03 sample was collected beneath the bottom of the sump itself.	NA	Unknown Line	NA

Sample designation is a concatenation of the following:
Operable Unit C7 = underground utilities
Property Owner - SOM = Somerset Group
CWM = Waste Management LLC
LEW = Town of Lewiston
OCC = Multiple owners along the 30-in. outfall line (majority of samples collected on Occidental Chemical Corporation [OCC] property)
Matrix SS = Surface Soil
Location X## = Sequentially numbered excavation for a particular property

Line Type WW = Wastewater line
SN = Sanitary Sewer
ST = Storm line
UN = Unknown line type
AC = Acid Waste line
CW = Chemical Waste line
DW = Drain, sump, pit, vault or tank
WP, WC = potable or cooling water

TABLE 2-2 SUMMARY OF PROPOSED AND ACTUAL EXCAVATIONS AND SAMPLE LOCATIONS FOR THE REMEDIAL INVESTIGATION OF FORMERLY USED UNDERGROUND UTILITY LINES ON WASTE MANAGEMENT PROPERTY

Proposed Sampling Program from SAP										Actual Sampling Program					
Excavation Number	Type of Excavation	Targeted Line Types	Area	Camera Access Point Description	Proposed Excavation Location - Direction and Distance From Camera Access Point or Other Site Feature	Target/Collection Point	Proposed Number of Soil Samples	Proposed Number of Sludge Samples	Proposed Number of Wastewater Samples	Number and Type of Lines Encountered	Associated Sample Designation (s)	Description	Camera Survey Point Number (from non-intrusive investigation)	Reassessment of Line Type Based on Observation and Comparison to Historical Drawings	Notes
X01	Targeted	SN	29	vicinity of U107	15 ft long north south trending excavation. Center of excavation should be placed 40 ft north and 12 ft east of U107.	Filter bed for temporary septic system supporting buildings in northwest portion of AFP-68.	1	0	0	SN01	C7-CWM-SO-X01-SN01-6.5	One black corrugated drain pipe located 5.5-ft bgs trending east-west. The pipe was surrounded by 1-ft layer of filter gravel bedding. The soil sample was collected beneath the bedding material at 6.5-ft bgs. No water or sludge was present.	U107	Temporary sanitary sewer line from drain field to Central Drainage Ditch (Drawing 317-13-61)	Historical Drawing No. 317-13-61. Some light brush clearance may be required in this area.
X02	Targeted	SN	29	U107	10 ft long, east-west trending excavation. Center of excavation should be 8 ft south of U107.	Tank for temporary septic system supporting buildings in northwest portion of AFP-68.	1	1	1	SN01	C7-CWM-SO-X02-SN01-10 C7-CWM-WW-X02-SN01-7 C7-CWM-SL-X02-SN01-9	One 4-in. diameter stick-up was, according to historical drawings, a temporary septic system. At 6-ft bgs, a wooden tank was discovered measuring 6-ft by 7.9-ft by 4-ft. The tank was located 4-ft to the southwest of the 4-in. stick-up. The top of the septic tank was removed, and the wastewater and sludge samples were collected from within. The soil sample was collected from beneath the septic system at 10-ft bgs.	U107	Temporary septic tank (Drawing 317-13-61)	Historical Drawing No. 317-13-61. Some light brush clearance may be required in this area.
X03	Targeted	SN, WW, W	29	SN-12	25 ft long excavation trending north-south. Center of excavation should be 30 ft southeast of SN-12.	Target sanitary sewer line, two water lines (to assess bedding material), and a wastewater/storm water line. Sludge and wastewater sample for the sanitary sewer line may be collected from within SN-12.	2	2	2	SN01	C7-CWM-SO-X03-SN01-5.5 C7-CWM-SL-X03-SN01-4.5 C7-CWM-WW-X03-SN01-4.5	One 6-in. diameter terracotta pipe was located 5-ft bgs trending east-west. A soil sample was collected from beneath the pipe at 5.5-ft bgs. The wastewater and sludge samples were collected from a sanitation sewer manhole located 33-ft west of the trench. According to historical drawings the SN01 intersects with this manhole.	SN-12	Sanitary sewer line (Drawing 317-13-61)	Lines may be liquid filled. Inspect manhole SN-12 prior to excavation to assess liquid volume. Historical Drawing No. 317-13-61.
										WW01	C7-CWM-SO-X03-WW01-7	One 4-in. diameter terracotta pipe located at 6.5-ft bgs trending east-west and positioned 11.5-ft north of the storm water grate. According to historical drawings this underground pipe was a wastewater line. However, a stormwater catch basin is located just southeast of the excavation. The catch basin is not noted on the historical drawings and may be post-AFP-68 construction. There is only one outfall into the CDD east of this location. It is unclear as to whether the outfall is the stormwater line or the wastewater line. Black soil was noted at the 7-ft bgs. A soil sample was collected from this stained layer. No sludge or wastewater was present.	NA	Wastewater line – with possible tie-in from stormwater line (Drawing 317-13-61)	NA
										W01/02	No samples taken	Two 4-in. diameter steel water lines located 6-ft bgs trending parallel east-west and positioned 4-ft south of SN01. These line protruded parallel from the east wall 3-ft before turning 90 degrees upward and then ending at 1.5-ft bgs. No samples were collected because these were water lines.	NA	Water lines (Drawing 317-13-61)	NA
X04	Test pit	SN, WW, UN, W	29	NA	30 ft long, north-south trending excavation. Center of excavation should be placed 10 ft east of east wall of Building 29-01. North end of excavation should be placed approximately 12 ft south of manhole SN-12.	Target lines trending east out of Building 29-01. Drawing indicates, from north to south, two water lines (potable and fire protection), a 4-in. vitreous clay sanitary sewer secondary line (will likely have liquid in the line), and a northeast trending wastewater/storm water secondary line.	2	2	2	SN01	C7-CWM-SO-X04-SN01-4.5 C7-CWM-WW-X04-SN01-4	One 6-in. diameter terracotta pipe located 4-ft bgs trending north-south and positioned along the east trench wall. A soil sample was removed from beneath the pipe at 4.5-ft bgs. A wastewater sample was also collected at 4-ftbgs. No sludge was present.	NA	Sanitary sewer line (Drawing 317-13-61)	Sanitary sewer secondary may have liquid in line. Historical Drawing No. 317-13-61.
										WW01	C7-CWM-SO-X04-WW01-4.5 C7-CWM-WW-X04-WW01-4	One 4-in. diameter terracotta pipe located at 4-ft bgs trending east-west. According to historical drawings this underground pipe was a wastewater line. A soil sample was collected from beneath the pipe at 4.5-ft bgs and a wastewater sample was collected from 4-ft bgs. No sludge was present.	NA	Wastewater line – with possible tie-in from stormwater line (Drawing 317-13-61)	NA
X05	Test pit	SN, WW, UN, W, Steam	39	NA	25 ft long, northeast-southwest trending excavation. Center of excavation should be due west of SN-11and 10 ft east of the building.	Target lines trending east out of Building 39-01. Drawing indicates, from north to south, an 8-in. diameter wastewater/storm water secondary and a 6-in. clay sanitary sewer line. In addition, an underground steam line trends north-south approximately 8 ft from the building. A north-south trending unknown line (possible water or steam) was also indicated in the results of the non-intrusive investigation. Sludge and wastewater sample for	3	2	2	SN01	C7-CWM-SO-X05-SN01-4.5 C7-CWM-SL-X05-SN01-4	One 4-in. diameter terracotta pipe located at 4-ft bgs trending east-west. According to historical drawings this underground pipe was a sanitary sewer line. A soil sample was collected from beneath the line at 4.5-ft bgs. The sludge sample was collected from the sanitary manhole located 14-ft east of the excavation trench. No wastewater was present.	NA	Sanitary sewer line (Drawing 317-13-61)	Sanitary sewer may contain liquid. Open and assess liquid level in manhole to the east prior to excavation. Assess bedding material of water and/or steam lines if encountered. Historical Drawing No. 317-13-61.
										ST01	C7-CWM-SO-X05-WW01-6.5 C7-CWM-WW-X05-WW01-6	One 6-in. diameter terracotta pipe located 6-ft bgs trending east-west and positioned 4-ft north of SN01. A soil sample was removed from beneath the pipe at 6.5-ft bgs. A wastewater sample was also collected at 6-ftbgs. No sludge was present.	NA	Stormwater line (Drawing 317-13-61)	NA
X06	Test pit	SN, UN, W, Steam	35	NA	20 ft long, northeast-southwest trending excavation. Center of excavation should be placed 10 ft north of building.	Target lines trending north out of Building 35-01 and east-west trending water lines. Drawing indicates underground steam line and 6-in. vitreous sanitary sewer secondary trending north.	1	1	1	SN01	C7-CWM-SO-X06-SN01-4 C7-CWM SL-X06-SN01-3.5	One 6-in. diameter terracotta pipe located 3.5-ft bgs trending north-south. The pipe was surrounded by #1 stone gravel bedding. A soil sample was collected from beneath the bedding at 4-ft bgs. A sludge sample was also collected at 3.5-ftbgs. No wastewater was present.	NA	Sanitary sewer line (Drawing 317-13-61)	Sanitary sewer may contain liquid. Open and assess liquid level in manhole to the northeast prior to excavation. Assess bedding material of water and/or steam lines if encountered. Historical Drawing No. 317-13-61.
										1/unknown	No samples taken	One 4-in. diameter PVC pipe located 3.5-ft bgs trending north-south and positioned parallel to SN01 2-ft to the east. No samples were taken because the line was believed to be installed subsequent to DOD use.	NA	Unknown line	NA
X07	Test pit	WW	35	ST-1	15 ft long, north-south trending excavation. Center of excavation should be 45 ft north and 15 west of ST-1 storm grate. Stay within 9 ft east of north-south access road.	Target wastewater line trending east out of Building 35-01.	1	1	1	WW01	C7-CWM-SO-X07-WW01-7.5 C7-CWM-SL-X07-WW01-7	One 6-in. diameter concrete pipe located 7-ft bgs trending east-west. A soil sample was removed from beneath the pipe at 7.5-ft bgs. A chop saw was used to gain access to the interior of the pipe. A sludge sample was collected. No wastewater was present.	ST-1	Wastewater line with tie-in to the stormwater line (Drawing 317-13-61)	Assess liquid volume within ST-1 prior to excavation. Historical Drawing No. 317-13-61/
X08	Test pit	UN	AFP-68 Area 10	4 ft diameter pit	10 ft long excavations on the north, south, and west side of the 4-ft diameter pit located at the northeast corner of Building 10-1.	Target possible lines originating from within the pit.	1	1	1	Electrical line	No sample taken	One 1-in. diameter electrical line located 1-ft bgs with crush stone bedding material. No samples were collected. Historical drawing for this area (Drawing 317-13-62) does not include detail for the area east of Building 10-1.	4 ft diameter "dry well"	Electrical line	Historical Drawing 317-13-62. However details of possible underground lines within the interior of the area are not available.
X09	Test pit	UN	AFP-68 Area 10	4 ft diameter pit	10 ft long excavations on the north, south, and west side of the 4-ft diameter pit located at the northeast corner of Building 10-1.	Target possible lines originating from within the pit.	1	1	1	Electrical line	No sample taken	One 1-in. electrical conduit line located 1-ft bgs trending NW-SE. The steel conduit line contained no electrical wiring. A second 1-in. electrical conduit was encountered trending north and turning west towards the east wall of Building 10-01. No samples were collected.	U-62	Electrical line	NA
X10	Test pit	UN	AFP-68 Area 10	4 ft diameter pit	10 ft long excavations on the north, south, and west side of the 4-ft diameter pit located at the northeast corner of Building 10-1.	Target possible lines originating from within the pit.	1	1	1	No line found	No sample taken	An area 13-ft by 2-ft by 5-ft deep was excavated with no lines found.	U-62	No Line Found	NA

TABLE 2-2 SUMMARY OF PROPOSED AND ACTUAL EXCAVATIONS AND SAMPLE LOCATIONS FOR THE REMEDIAL INVESTIGATION OF FORMERLY USED UNDERGROUND UTILITY LINES ON WASTE MANAGEMENT PROPERTY

Proposed Sampling Program from SAP										Actual Sampling Program					
Excavation Number	Type of Excavation	Targeted Line Types	Area	Camera Access Point Description	Proposed Excavation Location - Direction and Distance From Camera Access Point or Other Site Feature	Target/Collection Point	Proposed Number of Soil Samples	Proposed Number of Sludge Samples	Proposed Number of Wastewater Samples	Number and Type of Lines Encountered	Associated Sample Designation (s)	Description	Camera Survey Point Number (from non-intrusive investigation)	Reassessment of Line Type Based on Observation and Comparison to Historical Drawings	Notes
X11	Test pit	UN	AFP-68 Area 10	4 ft diameter dry well	One 10-ft long excavation, trending east-west, placed 5 ft north of the 4-ft diameter dry well located east of Building 10-1.	Target possible lines originating from within the dry well. Evaluate whether wastewater line associated with camera access point U-52 (CDD outfall) is associated with dry well.	1	1	1	UN01	C7-CWM-SO-X11-WW01-3.5 C7-CWM-WW-X11-WW01-3 C7-CWM-SL-X11-WW01-3	One 12-in. diameter steel pipe located 3-ft bgs trending north-south. The soil sample was collected from beneath the pipe at 3.5-ft bgs. A chop saw was utilized to gain access for investigation. Wastewater and sludge samples were extracted from the interior of the pipe. A RECON push camera survey revealed the pipe extends 5-ft south before encountering a hard blockage, possibly due to the construction of a well that is positioned directly 6-ft south of the pipe. A blockage was encountered to the north – no access for camera.	U-62	Unknown line type, possibly associated with a local septic tank.	Historical Drawing 317-13-62. However details of possible underground lines within the interior of the area are not available.
										Electrical line	No sample taken	One 1-in. diameter steel conduit line located 1-ft bgs trending NW-SE. No samples were collected.	U-62	Electrical line	NA
X12	Targeted	WW, SN	AFP-68 Area 10	U-60, U-52	15 ft long, north south excavation between Building 10-01 and the CDD. Excavation should begin at clean out (U-54) and extend to the south 15 ft.	Target wastewater lines trending west to CDD. Target sanitary sewer line cleanout. Drawing indicates, from north to south, the clean out then a 4-in. cast iron condensate drain line trending west to CDD, just south of Building 10-1. Results of the non-intrusive investigation indicated there may be an additional wastewater line trending west out of the building, then north to U-52 outfall.	2	2	2	WW01	C7-CWM-SO-X12-WW01-3	One 4-in. diameter terracotta line located 2.5-ft bgs trending east-west and positioned 3-ft south from building 10. A soil sample was collected from beneath the line at 3-ft bgs. No wastewater or sludge was present. Corresponds to the location of a condensate drain on Drawing 317-13-62. Pipeline near outfall to CDD was broken.	U-52	Condensate drain line (Drawing 317-13-62)	Historical Drawing 317-13-62.
X13	Targeted	WW, UN	AFP-68 Area 10	U-55, U-56, U-57	15 ft long, north south excavation between Building 10-01 and the CDD. Excavation should begin 6 ft north of clean out (U-54) and extend to the north 15 ft.	Target wastewater and possible unknown lines trending west toward CDD.	2	2	2	1/unknown	C7-CWM-SO-X13-UN01-3.5	One 4-in. diameter steel/terracotta line located 3-ft bgs trending east-west and positioned 13-ft north of the southwest corner of building 10. The line changes from steel to terracotta then is believed to continue west and discharge into the central drainage ditch. A blockage was observed in the pipe from the outfall at the ditch. A soil sample was collected at 3.5-ft bgs and directly beneath the transition of steel to terracotta. No sludge or wastewater was present.	U-55, U-56, U-57	Possible wastewater (Drawing 317-13-62)	Historical Drawing 317-13-62. However details of possible underground lines within the interior of the area are not available.
X14	Test pit	SN	AFP-68 Area 10	NA	10 ft long, northeast-southwest trending excavation located 8 ft northwest of northwest corner of Building 10-1.	Target possible 500-gallon pre-cast concrete septic tank indicated in historical drawing as being 6 ft north and 4 ft east of building.	1	1	1	SN01	C7-CWM-SO-X14-SN01-9 C7-CWM-WW-X14-SN01-8 C7-CWM-SL-X14-SN01-8	One concrete septic tank located at 4-ft bgs. The concrete septic tank is a 4-ft cylinder vessel extending 4-ft in depth. The concrete lid was moved with heavy equipment to gain access. The septic tank contained a large volume of unknown liquid. Wastewater and sludge samples were collected from the septic tank. In the unfilled portion of the septic tank a 4-in. outlet pipe exited the septic tank on the northwest side. This appears to be an overflow which empties into the central drainage ditch. This outfall was investigated during the camera survey and was named U-53. A soil sample was collected from beneath the septic tank at 9-ft bgs.	U-53	Septic tank	Historical Drawing 317-13-62. However details of possible underground lines within the interior of the area are not available.
X15	Targeted	SN, WW	AFP-68 Area 10	U-52, U-53,	15 ft long, north-south trending excavation. The northern end of the excavation should be placed 3 ft north of the outfall U-52, and excavation should extend south to capture the west trending line associated with U-53.	Target 10-in. diameter wastewater line that trends east from U-52 and the 4-in. diameter sanitary sewer line that trends east from U-53.	2	2	2	WW01	C7-CWM-SO-X15-WW01-3.5 C7-CWM-SL-X15-WW01-3	One 12-in. diameter steel pipe trending east-west, located 3-ft. The sludge sample was collected from approximately 10 to 15-ft east of the outfall to the CDD. This outfall was investigated during the camera survey and was named U-53. No wastewater sample was present.	U-52	Wastewater line	Historical Drawing 317-13-62. However details of possible underground lines within the interior of the area are not available.
										SN01	C7-CWM-SO-X15-SN01-2	One 4-in. diameter steel pipe located 1.5-ft bgs trending east-west and originating from the septic tank located in excavation 14. A soil sample was collected beneath the pipe near the central drainage ditch outfall. This outfall was investigated during the camera survey and was named U-52. No sludge or wastewater was present.	U-53	Sanitary sewer line	NA
X16	Targeted	WW	AFP-68 Area 18S	U-64, U-65	25 ft long, east-west trending excavation. The west end of the excavation should intercept the wastewater line originating from the southeast corner of the bermed area, and should extend eastward.	Target the 4-in. diameter "Orangeburg" lines originating from within the northern and southern bermed tank areas and discharging to B Ditch.	2	2	2	WW01	C7-CWM-SO-X16-WW01-3.5	One 4-in. diameter pipe appears to be constructed of tar paper material and is located 3-ft bgs trending north-south and positioned 3-ft from the west trench wall. A soil sample was collected from beneath the pipe at 3.5-ft bgs. No wastewater or sludge was present. Line corresponds to the location of a "Orangeburg line" on historical Drawing 317-13-62.	U-63, 64, 66	Orangeburg pipe (Drawing 317-13-62)	Historical Drawing 317-13-62.
										WW02	C7-CWM-SO-X16-WW01-4.5	One 4-in. diameter pipe appears to be constructed of tar paper material and is located 4-ft bgs trending north-south and positioned 2-ft from the east trench wall. A soil sample was collected from beneath the pipe at 4.5-ft bgs. No wastewater or sludge was present. Line corresponds to the location of a "Orangeburg line" on historical Drawing 317-13-62.	U-65	Orangeburg pipe (Drawing 317-13-62)	NA
X17	Targeted	WW	AFP-68 Area 16	U-50, U51	30 ft long excavation trending east west, placed 10 ft north of Building 16-1. The western end of the excavation should be placed 20 ft east of the northwest corner of the building.	Target two wastewater lines originating within Building 16-01 and trending north to outfalls on B Ditch.	2	2	2	WW01	C7-CWM-SO-X17-WW01-3.5 C7-CWM-SL-X17-WW01-3	One 2-in. diameter steel pipe located 3-ft bgs trending north-south. The WW01 pipe lay with crushed stone bedding material. A soil sample was collected from beneath the pipe at 3.5-ft bgs. A chop saw was utilized to gain access. A sludge sample was collected from the interior of the pipe. No wastewater was present. The pipe discharges to B Ditch and corresponds to a "spec U1" line depicted on Drawing 316-13-05, although the diameter differs from that measured on site. No wastewater was present.	U-51	May be a "Spec U1 line" as depicted in Drawing 316-13-05.	Historical Drawing 317-13-62.
										WW02	C7-CWM-SO-X17-WW02-5 C7-CWM-SL-X17-WW02-3	One 24-in. diameter steel pipe located 3-ft bgs trending north-south and positioned 7-ft west from the east trench wall. A soil sample was collected from beneath the pipe at 5-ft bgs. A chop saw was utilized to gain access. A sludge sample was collected from within the pipe. The pipe discharges to B Ditch and corresponds to a wastewater line depicted on Drawing 316-13-05. No wastewater was present.	U-50	Wastewater line	NA
X18	Targeted	WW	AFP-68 Area 16	U-49	15 ft long east-west trending excavation. The west end of the excavation should be due south of the outfall (U-49) into B Ditch.	Target wastewater line originating with Building 22-01 and discharging to B Ditch. Line is described as a cast iron drain line in the historical drawing.	1	1	1	WW01	C7-CWM-SO-X18-WW01-6 C7-CWM-SL-X18-WW01-5	One 24-in. steel pipe located 5-ft bgs trending north-south. According to historical drawing 317-13-62, the WW01 line travels south and connects into Building 22-01 with a 90 degree elbow to the west. The line continued northward to a 45 degree elbow trending northwest just prior to discharge to the B Ditch. The previous camera survey results collaborate with the historical drawings. A soil sample was collected from beneath the pipe at 6-ft bgs. A chop saw was utilized to gain access to the interior. Adequate amounts of sludge were present for sample collection. Wastewater was present but not sufficient for sample collection.	U-49	Wastewater line	Historical Drawing 317-13-62.
X19	Test pit	UN	AFP-68 Area 16	U-50	15 ft long north-south trending excavation placed 8 ft east of Building 16-01, exterior to camera access point U-50 (located in the building).	Target possible unknown lines exiting east wall of building. Water line may also penetrate east wall of building.	1	1	1	1/CW	C7-CWM-WW-X19-UN01-4	One 8-in. diameter terracotta pipe located 4-ft bgs trending east-west. During excavation operations the pipe was cracked causing a release of 50 gallons of wastewater into the trench. A wastewater sample was collected during this release.	U-50	"UC Spec U1" as per 316-13-05. Possible chemical waste line.	Historical Drawing 317-13-62.

TABLE 2-2 SUMMARY OF PROPOSED AND ACTUAL EXCAVATIONS AND SAMPLE LOCATIONS FOR THE REMEDIAL INVESTIGATION OF FORMERLY USED UNDERGROUND UTILITY LINES ON WASTE MANAGEMENT PROPERTY

Proposed Sampling Program from SAP										Actual Sampling Program					
Excavation Number	Type of Excavation	Targeted Line Types	Area	Camera Access Point Description	Proposed Excavation Location - Direction and Distance From Camera Access Point or Other Site Feature	Target/Collection Point	Proposed Number of Soil Samples	Proposed Number of Sludge Samples	Proposed Number of Wastewater Samples	Number and Type of Lines Encountered	Associated Sample Designation (s)	Description	Camera Survey Point Number (from non-intrusive investigation)	Reassessment of Line Type Based on Observation and Comparison to Historical Drawings	Notes
X20	Test pit	UN	AFP-68 Area 16	NA	45 ft long north-south trending excavation 10 ft west and parallel to west wall of Building 16-01.	Target possible unknown lines exiting west wall of building.	1	1	1	No lines found	No sample taken	Excavation was moved in order to avoid digging up railroad tracks. The excavation was divided into three excavations to cover the targeted areas. No lines were found.	NA	No lines found	Historical Drawing 317-13-62.
X21	Targeted	WW, UN	AFP-68 Area 22	U-49,	30 ft long east-west trending excavation. West end of excavation should be placed 10 ft north of the northwest corner of Building 22-01. The westernmost wastewater line is 4-ft east of Building 22-01.	Target two wastewater lines originating within Building 22-10 and trending north. The eastern wastewater line is described as an 18-in. diameter cast iron drain and the westernmost wastewater line is described as a 4-in cast iron drain, according to the historical drawing. Two additional unknown lines, observed during the pipe and cable trace, may also be encountered.	2	2	2	WW01	C7-CWM-SO-X21-WW01-4	One 4-in. diameter steel pipe located 3.5-ft bgs trending north-south located 3-ft to the east of building 22. A soil sample was collected from beneath the pipe 4-ft bgs. A chop saw was used to gain access to the inside of the pipe. No wastewater or sludge was present. Corresponds to the location of a 4-in. drain line on historical Drawing 317-13-62 which eventually ties into the wastewater line that discharges to B Ditch at camera access point U-49.	U-49	Wastewater line	Historical Drawing 317-13-62.
										WW02	C7-CWM-SO-X21-WW02-6 C7-CWM-SL-X21-WW02-5.5	One 18-in. diameter steel pipe located 4.5-ft bgs trending north-south located 21-ft to the east of Building 22. A soil sample was collected from beneath the pipe at 6-ft bgs. A chop saw was utilized to gain access to the interior for sample collection. A sludge was sample was collected. Wastewater amounts were insufficient for sample collection. A water line indicated on historical Drawing 317-13-62 was not encountered.	U-49	Wastewater line	NA
X22	Targeted	UN, WW	AFP-68 Area 22	NA	12 ft long north-south trending excavation placed 10 ft east of Building 22-01. The north end of the excavation should be placed 18 ft south of the northeast corner of the Building.	Target two east trending unknown lines observed during the pipe and cable trace. An east trending secondary to the wastewater line may also be encountered.	2	2	2	1/unknown	C7-CWM-SO-X22-UN01-6 C7-CWM-WW-X22-UN01-6.5	One 6-in. diameter cast iron pipe located 6-ft bgs trending north-south and positioned 19-ft east of Building 22-01. The cast iron pipe was found with cracks already existing. The soil above the pipe was stained, monitoring with a PID, readings were recorded up to 174 ppm. The soil sample was collected from the stained area above the pipe at 6-ft bgs. A wastewater sample was collected from the liquid that was escaping the pipe through the cracks. No sludge was visible.	NA	Possibly water line according to Drawing 317-13-62	Historical Drawing 317-13-62.
										WW01	No sample taken	One 18-in. diameter steel water line was located 4.5-ft bgs trending north-south and positioned 1.5-ft east of UN01. No sample was collected due to close proximity to sample collected from this line within excavation 21.	NA	Wastewater line	NA
X22a										1/CW	C7-CWM-SO-X22A-UN01-5.5 C7-CWM-SL-X22A-UN01-5	One 8-in. diameter terracotta line located 5-ft bgs. Line is on a NE to SW angle and appears to enter building 16 at U-50. A soil sample was collected from beneath the elbow at 5.5-ft bgs. A sludge sample was extracted from the interior of the line. The wastewater sample volume was insufficient for collection. This appears to be the same as the terracotta line discovered in excavation 19 and may be a chemical waste line as indicated on Drawing 317-13-62 and 316-13-05.	NA	Possibly joins with "UC Spec U1" in Building 16-01as per 316-13-05. Possible chemical waste line.	NA
										2/W01 and W02	No sample taken	Two water lines were encountered. One east-west trending 20-in. line and one north-south trending 6-in. diameter cast iron line (same line encountered in excavations 22 and 23).	NA	Water line	NA
										WW01	No sample taken	One 18-in. diameter steel wastewater line was located 6-ft bgs trending north-south. No sample was collected – same as line identified in excavation 18.	NA	Wastewater line	NA
X23	Targeted	UN, WW, W	AFP-68 Area 22	U-38	12 ft long north-south trending excavation placed 10 ft east of Building 22-01. The north end of the excavation should be placed exterior of access point U121.	Target the east trending, unknown line observed during the pipe and cable trace. According to the historical drawing, a water line and a secondary for the wastewater line may also be encountered. The water line is not targeted for sample collection; however, the bedding material will be assessed.	2	2	2	WW01	No sample taken	One 18-in. diameter steel wastewater line located 4-ft bgs trending north-south. Sample collected from excavation 24	NA	Wastewater line	Historical Drawing 317-13-62.
										W02	No sample taken	One 6-in. diameter steel water line located 4-ft bgs trending east-west possibly enters Building 22-01 to the west. No samples were collected due to the nature of the underground line.	NA	Water line	NA
										1/unnown	Previously collected	One 6-in. diameter cast iron pipe located 6-ft bgs. This line was investigated during previous excavation (X22 and 22A) and samples were collected 18-ft to the north in an area of stained soil, therefore no samples were collected.	U-38	Possibly water line according to Drawing 317-13-62	NA
X24	Targeted	WW	AFP-68 Area 22	U-49	12 ft long north-south trending excavation placed 10 ft east of Building 22-01. The north end of the excavation should be placed exterior of access point U-49.	Target the wastewater line exiting the east wall of Building 22-01 observed during the camera survey. Further down gradient, this line is described as an 18-in. diameter cast iron drain in the historical drawing.	1	1	1	WW01	C7-CWM-SO-X24-WW01-6 C7-CWM-SL-X24-WW01-5.5 C7-CWM-WW-X24-WW01-5.5	One 18-in. diameter steel pipe located 4-ft bgs. The pipe is north-south running with a 90 degree elbow that turns to the west and possibly enters Building 22-01. A soil sample was collected from beneath the elbow at 6-ft bgs. A chop saw was utilized to gain access to the interior of the pipe. Adequate amounts of sludge and wastewater were present for sample collection.	U-49	Wastewater line	Historical Drawing 317-13-62.
X25	Test pit	UN	AFP-68 Area 22	NA	20 ft long north-south trending excavation placed 10 feet west of Building 22-01/14-01. North end of excavation should be placed 15 ft south of the northwest corner of the building such that the center of the excavation is exterior of U-41 and U-42.	Target possible lines exiting the west side of the building from the sump and drain located within the northern portion of the building.	1	1	1	No lines found	No sample taken	Excavated trench 44-in. wide by 25-ft length and 10-ft bgs with no underground lines discovered.	NA	No lines found	Line does not appear on available historical drawings.
X26	Test pit	UN	AFP-68 Area 22	NA	20 ft long east-west trending excavation placed 10 feet north of west wing of Building 22-01. West end of excavation should be placed 8 ft east of corner of building.	Target possible lines exiting the north side of the west wing of the building from the drains located within the western portion of the building.	1	1	1	No lines found	No sample taken	Excavated trench 44-in. wide by 20-ft length and 10-ft bgs with no underground lines discovered.	NA	No lines found	Line does not appear on available historical drawings.

TABLE 2-2 SUMMARY OF PROPOSED AND ACTUAL EXCAVATIONS AND SAMPLE LOCATIONS FOR THE REMEDIAL INVESTIGATION OF FORMERLY USED UNDERGROUND UTILITY LINES ON WASTE MANAGEMENT PROPERTY

Proposed Sampling Program from SAP										Actual Sampling Program					
Excavation Number	Type of Excavation	Targeted Line Types	Area	Camera Access Point Description	Proposed Excavation Location - Direction and Distance From Camera Access Point or Other Site Feature	Target/Collection Point	Proposed Number of Soil Samples	Proposed Number of Sludge Samples	Proposed Number of Wastewater Samples	Number and Type of Lines Encountered	Associated Sample Designation (s)	Description	Camera Survey Point Number (from non-intrusive investigation)	Reassessment of Line Type Based on Observation and Comparison to Historical Drawings	Notes
X27	Test pit	SN, AW, W	AFP-68 Area 22	NA	25 ft long east-west trending excavation placed 10 feet south of Building 22-01. East end of excavation should begin at point where unknown line exits the south wall of the building - approximately 40 ft west of the southeast corner of Building 22-01).	Target possible lines exiting the south side of Building 22-01. According to historical plans, lines include a secondary acid waste and sanitary sewer line. The acid waste line may have been removed during the previously conducted interim removal action. A water line may also be encountered in this excavation. The water line is not targeted for sample collection. However, bedding material will be assessed.	2	2	2	AW01	C7-CWM-SO-X27-CW01-6.5 C7-CWM-WW-X27-CW01-6	One 4-in. diameter steel pipe located 6-ft bgs. The pipe trended NE by SW, sample was collected 14-ft south of Building 22-01 in front of open bay. A soil sample was removed from beneath the pipe at 6.5-ft bgs. The pipe was accessed with a chop saw to collect the wastewater sample from the interior. No sludge was visible. According to historical Drawing 317-13-62, this may be a chemical waste sewer.	NA	Possible chemical waste line	Historical Drawing 317-13-62.
										SN01	C7-CWM-SO-X27-SN01-7.5 C7-CWM-WW-X27-SN01-7	One 12-in. diameter terracotta line located 7-ft bgs. The pipe trended northeast-southwest. According to historical Drawing 317-13-62, this may be a sanitary sewer. A sample was collected south of Building 22-01 in front of open bay door. The SN01 pipe was positioned 1-ft below CW01 and at a slight lesser angle. A soil sample was collected from beneath the pipe at 7.5-ft bgs. Limestone rock 1/8-in. to dust was used for bedding material. A drill was used to gain access to the pipe and a wastewater sample was collected from the interior of the pipe. No sludge was visible.	NA	Possible sanitary sewer line	NA
										1/unknown	C7-CWM-SO-X27-UN01-3.5 C7-CWM-WW-X27-UN01-3	One possible French drain system located at 3-ft bgs and positioned 13-ft directly south of Building 22-01. The bedding material was #2 limestone rocks. A soil sample was collected from beneath the French drain system. A wastewater sample was collected from the liquid seeping from the bedding material. No sludge was present.	NA	Unknown line	NA
										Electrical line	No sample taken	One 1.5-in. diameter electrical wire located at 1.5-ft bgs trending north-south and encased in red dyed concrete foundation. The red dyed concrete foundation was positioned above the CW01 & SN01 lines. No samples were collected.	NA	Electrical line	NA
										W01	No samples taken	One 8-inch steel water line located 5-ft bgs south of the open bay. No sample was collected due to the nature of the line.	NA	Water line	NA
X28	Test pit	UN	AFP-68 Area 14	NA	30 ft long north-south trending excavation in the vicinity of a metal pipe stickup adjacent to earthen berm.	Target possible unknown lines exiting berm.	1	1	1	1/unknown	C7-CWM-SO-X28-UN01-3 C7-CWM-WW-X28-UN01-3	One 12-inch corrugated pipe, coated in tar houses three smaller lines. The three lines protrude to the surface at the western end of the excavation. A wastewater sample was collected from within the steel stickup to the east, and the soil sample was collected from soil recovered between the three pipes. Sludge was not able to be recovered. Using a PID, high readings were recorded with a maximum of 4556 ppm from within the pipe that was sampled.	NA	Unknown line	Line does not appear on available historical drawings.
X29	Test pit	UN	AFP-68 Area 14	NA	10 ft long northeast-southwest trending excavation at southwest corner of earthen berm. Line is described as a 4-in. diameter cast iron soil pipe drain.	Target possible unknown lines exiting berm.	1	1	1	1/unknown	C7-CWM-SO-X29-UN01-4.5 C7-CWM-WW-X29-UN01-4	One 4-in. diameter steel pipe located 4-ft bgs trending northeast-southwest. PID readings had a maximum of 950 ppm from within the pipe. A soil sample was collected from beneath the pipe at 4.5-ft bgs. The bedding material consisted of #2 stone. A wastewater sample was collected. No sludge was present.	NA	Drain line from bermed tank area	Historical Drawing 317-13-62.
X30	Test pit	UN, CW	AFP-68 Areas 2 and 20	NA	30 ft long east-west trending excavation. East end should be placed 5 ft east of the northeast corner of the former tank area within Area 2.	Target possible lines exiting north from the tank area. Historical drawings indicate a chemical waste secondary trending toward the tank area. However, the drawing does not provide detail for the interior of the area.	1	1	1	No line found	No sample taken	Excavated a trench 33-ft long by 44-in. wide and 10-ft deep with no lines discovered.	NA	No lines found	Historical Drawing 317-13-60. However details of possible underground lines within the interior of the area are not available.
X31	Test pit	CW, SN	AFP-68 Areas 2 and 20	NA	20 ft long northeast-southwest trending excavation. Center of the excavation should be placed 50 ft west and 15 ft north of the northwest corner of Building 2-01.	Target sanitary sewer main and chemical waste secondary depicted on historical drawing. Both are described as 4-in. diameter lines in the drawing. The sanitary sewer is further described as vitreous clay (terracotta).	2	2	2	SN01	C7-CWM-SO-X31-SN01-4.5	One 4-in. diameter steel line located 4-ft bgs and trending east-west. A soil sample was collected from beneath the line at 4.5-ft bgs. No wastewater or sludge was present. Likely sanitary sewer line according to historical Drawing 317-13-60. Possible underground chemical line in this area was not located and may have been removed during the interim remedial action for the AFP-68 waste lines.	NA	Sanitary sewer line	Historical Drawing 317-13-60. However details of possible underground lines within the interior of the area are not available.
X32	Test pit	CW, SN, UN	AFP-68 Areas 2 and 20	U-104	80 ft long east-west trending excavation parallel to and 10 ft north of Building 2-01. Excavation should mirror the length of the building.	From west to east, the historical drawings indicate a cooling water line (just west of the foundation), electrical conduit, chemical waste, 2-in. potable water, and a secondary sanitary sewer line exiting north out of Building 2-01. Target the sanitary sewer and acid waste line for sampling.	2	2	2	CW01	C7-CWM-SO-X32-CW01-4.5	One 4-in. diameter steel line located 4-ft bgs trending northeast-southwest. The line corresponds to the position of a chemical waste line on historical Drawing 317-13-60. CW01 probably intercepts Building 2-01 which is 10-ft to the south. A soil sample was collected from beneath the line at 4.5-ft bgs. The bedding material surrounding the CW01 line was 1/8-in. to dust limestone screening. No wastewater or sludge was present.	U-104	Chemical waste line	Historical Drawing 317-13-60. However details of possible underground lines within the interior of the area are not available.
										SN01	C7-CWM-SO-X32-SN01-3.5 C7-CWM-SL-X32-SN01-3	One 4-in. diameter terracotta pipe located 3-ft bgs located off the northeast corner of Building 2-01. A soil sample was collected from beneath the elbow at 3.5-ft bgs. A sludge sample was also collected at this junction. No wastewater was present.	U-104	Sanitary sewer line	NA
										SN02	No samples taken	One 4-in. diameter steel sanitary sewer line located 4-ft bgs trending east-west and positioned 16-ft north of Building 10-01. SN02 was excavated to confirm the SN01 from X-31 was indeed a steel pipe, therefore no samples were collected.	U-104	Sanitary sewer line	NA
										W01	No sample taken	One 2-in. diameter cooling water supply line located at 5-ft bgs trending north-south and positioned 4-ft west of SN01. No bedding material present. No samples taken.	NA	Water line	NA
X33	Targeted	UN	AFP-68 Areas 2 and 20	U1-104	22 ft long north-south trending excavation parallel to and 10 east of Building 2-01. Excavation should mirror length of building.	Target possible unknown line exiting east out of the building as observed during non-intrusive investigation.	1	1	1	No line found	No sample taken	Excavated a trench 24-ft long by 44-in. wide and 10-ft deep with no lines discovered.	U-104	No lines found	Historical Drawing 317-13-60. However details of possible underground lines within the interior of the area are not available.

TABLE 2-2 SUMMARY OF PROPOSED AND ACTUAL EXCAVATIONS AND SAMPLE LOCATIONS FOR THE REMEDIAL INVESTIGATION OF FORMERLY USED UNDERGROUND UTILITY LINES ON WASTE MANAGEMENT PROPERTY

Proposed Sampling Program from SAP										Actual Sampling Program					
Excavation Number	Type of Excavation	Targeted Line Types	Area	Camera Access Point Description	Proposed Excavation Location - Direction and Distance From Camera Access Point or Other Site Feature	Target/Collection Point	Proposed Number of Soil Samples	Proposed Number of Sludge Samples	Proposed Number of Wastewater Samples	Number and Type of Lines Encountered	Associated Sample Designation (s)	Description	Camera Survey Point Number (from non-intrusive investigation)	Reassessment of Line Type Based on Observation and Comparison to Historical Drawings	Notes
X34	Test pit	UN	AFP-68 Areas 2 and 20	NA	50 ft long east-west trending excavation 5 ft north of and paralleling the foundation south of Building 2-01. East end of excavation should be placed 10 ft east of northeast corner of concrete foundation.	Target possible lines trending between the concrete foundation and the building. Assess possible lines originating with drains on concrete foundation.	1	1	1	W01	No sample taken	One 12-in. diameter steel line located 5-ft bgs trending north-south and positioned 1-ft west of the east trench wall. Building 2-01 resides 17-ft north of the excavation trench. No samples taken due to nature of the line. When viewed in comparison to historical Drawing 100-13, the three lines found in this excavation are likely former LOOW water lines.	NA	Water line	Historical Drawing 317-13-60. However details of possible underground lines within the interior of the area are not available. Based on results of the Phase II investigation, high volatile organic vapor concentrations may be encountered during this excavation.
										W02	No sample taken	One 12-in. diameter steel water line located 5-ft bgs trending north-south and positioned 2-ft west of W01. Building 2-01 resides 17-ft north of the excavation trench. No samples taken due to nature of the line.	NA	Water line	NA
										W03	No sample taken	One 4-in. diameter steel water line located 5-ft bgs trending north-south and positioned 2-ft west of UN02. Building 2-01 resides 17-ft north of the excavation trench. No samples taken due to nature of the line.	NA	Water line	NA
X35	Test pit	UN	AFP-68 Areas 2 and 20	U-105	15 ft long north-south trending excavation placed east of camera access point U-105, parallel to the concrete foundation.	Target possible lines exiting foundation to the east and possible lines associated with drain on foundation.	1	1	1	DW01	C7-CWM-SO-X35-DW01-3.5 C7-CWM-WW-X35-DW01-3	One 3-in. diameter steel pipe located 3-ft bgs trending east-west and positioned 1-ft east of concrete foundation. A soil sample was collected from beneath the pipe at 3.5-ft bgs. The chop saw was utilized to gain access to the pipe for wastewater and sludge sample collection. A wastewater sample was collected.	U-105	Possible drain from foundation.	Historical Drawing 317-13-60. However details of possible underground lines within the interior of the area are not available. Based on results of the Phase II investigation, high volatile organic vapor concentrations may be encountered during this excavation.
X36	Test pit	UN	AFP-68 Areas 2 and 20	U-106	50 ft long east-west trending excavation 5 ft south of and paralleling the foundation south of Building 2-01. East end of excavation should be placed 5 ft east of southeast corner of concrete foundation.	Target possible lines trending south from concrete foundation. Assess possible lines originating from liquid filled pit on south edge of foundation.	1	1	1	Electrical line	No sample taken	One 1-in diameter electrical conduit line located 3-ft bgs trending north-south and positioned 14-ft west of the east corner of the concrete pad. No samples were collected.	NA	Electrical line	Historical Drawing 317-13-60. However details of possible underground lines within the interior of the area are not available. Based on results of the Phase II investigation, high volatile organic vapor concentrations may be encountered during this excavation.
X37	Test pit	WW	AFP-68 Areas 2 and 20	NA	25 ft long north-south trending excavation. North end of excavation should be placed 10 ft west/southwest of fire hydrant and 27 ft northwest of northwest corner of Area 20 loading dock.	Target wastewater line indicated on historical drawing. The drawing indicates the line trends east-west and is 10 ft south of an existing fire hydrant.	1	1	1	WW01	C7-CWM-SO-X37-WW01-6.5 C7-CWM-WW-X37-WW01-5.5 C7-CWM-WW-X37-WG01-6 (matrix WB)	One 18-in diameter transite pipe located 5-ft bgs trending east-west and positioned 14-ft south and 10-ft west of the fire hydrant. This corresponds to a wastewater line on historical Drawing 317-13-60. A soil sample was collected from beneath the line at 6.5-ft bgs. Number 2 pea gravel was used as bedding material. A drill was utilized to access the pipe for wastewater sample extraction. No sludge was visible. At 6-ft bgs 1-ft south of WW01 the #2 pea gravel bedding material was a pathway for liquid flowing to the west. The liquid flowing contained sheen and a slight odor. A bedding water (WB) sample was collected from the gravel bedding at 6-ft bgs. No other samples were collected.	NA	Wastewater line	Historical Drawing 317-13-60.
										W01	No sample taken	One 4-in. diameter steel water line located 5.5-ft bgs trending east-west and positioned 9-ft south of WW01. No samples were collected due to the nature of the line.	NA	Water line	NA
X38	Test pit	WW, W	AFP-68 Areas 2 and 20	NA	20 ft long east-west trending excavation placed 10 feet south of concrete wall of tank containment area. West end of excavation should extend west, past the existing fire hydrant.	Target possible wastewater line exiting sump located in the southwest corner of the tank containment area. Assess presence of bedding material at water line.	1	1	1	DW01	C7-CWM-SO-X38-DW01-3 C7-CWM-SL-X38-DW01-3.5	One 4-in. diameter terracotta pipe located 2.5-ft bgs and trending north-south. A soil sample was collected from beneath the pipe at 3-ft bgs. A sludge sample was extracted from the interior of the pipe. No wastewater was present.	NA	Sump in southwest corner of tank area	Historical Drawing 317-13-60.
										W01	No samples taken	One 8-inch steel water line located at 3.5-ft bgs directly north of the fire hydrant.	NA	Water line	NA
X39	Targeted	SN	AFP-68 Areas 2 and 20	SN-10	10 ft long north south trending excavation placed 8 ft east of manhole SN-10.	Target soil beneath sanitary sewer line. Available drawings indicate the sanitary sewer line in this area is an 8-in. vitreous clay line. Note that the sludge and wastewater sample may be collected from within the sanitary sewer manhole. Line was full of liquid during non-intrusive investigation.	1	1	1	SN01	C7-CWM-SO-X39-SN01-5 C7-CWM-SL-X39-SN01-5	One 6-in. diameter terracotta pipe located 4.5-ft bgs trending east-west .A soil sample was collected from beneath the pipe at 5-ft bgs. The terracotta pipe intersects with a sanitary manhole (SN-10) 15-ft to the west. The sludge sample was extracted from (SN-10) manhole. No wastewater was present.	SN-10	Sanitary sewer line	Historical Drawing 317-13-60. Based on camera survey results, and results of excavation of the sanitary sewer on Somerset Group property, this line may be separated at the seams, under hydraulic pressure, and prone to leak once soil is removed from the exterior of the line.
X40	Targeted	SN, CW	AFP-68 Areas 2 and 20	NA	10 ft long east-west trending excavation placed 55 ft east and 5 ft south of manhole SN-10.	Target sanitary sewer and acid waste line. Historical drawing indicates a 4-in. acid waste line trends north-south, parallel to and west of the sanitary sewer line. The sewer line is described as a 8-in vitreous clay line.	2	2	2	SN01	C7-CWM.SO-X40-SN01-6 C7-CWM-SL-X40-SN01-5.5	One 6-in. diameter terracotta pipe located 5-ft bgs trending north and south. A soil sample was collected from beneath the pipe at 6ft bgs. The sludge was collected from the interior of the pipe. No wastewater was present. The chemical waste sewer depicted in historical Drawing 317-13-60 was not encountered.	NA	Sanitary sewer line	Historical Drawing 317-13-60. Based on camera survey results, and results of excavation of the sanitary sewer on Somerset Group property, this line may be separated at the seams, under hydraulic pressure, and prone to leak once soil is removed from the exterior of the line.
X41	Test pit	SN, AW, W, WW	AFP-68 Areas 2 and 20	NA	40 ft long north-south trending excavation placed 15 ft west of Cedar Street. South end of excavation should be placed due east of the northeast corner of the Area 20 loading dock.	Several former LOOW and AFP-68 lines may be encountered in this excavation. The historical drawing indicates, from south to north, a wastewater line, a fire protection water line, an 8-in. diameter vitreous clay sanitary sewer line, and a former LOOW 18-in diameter acid waste sewer line. The historical drawing indicates that the acid waste sewer may have been removed. The acid waste, sanitary sewer, and wastewater lines will be targeted for sampling.	3	3	3	SN01	C7-CWM-SO-X41-SN01-6.5 C7-CWM-SL-X41-SN01-6 C7-CWM-WW-X41-SN01-6	One 6-in. diameter terracotta pipe located 6-ft bgs trending east-west and positioned 4-ft north of the south trench wall. The terracotta pipe was laid with medium sand bedding material. A soil sample was collected from beneath the pipe at 6.5-ft bgs. A chop saw was utilized to gain access to the interior for wastewater and sludge sample collection.	NA	Sanitary sewer line	Historical Drawing 317-13-60.
										AW01	C7-CWM-SO-X41-AW01-4.5 C7-CWM-SL-X41-AW01-4 C7-CWM-WW-X41-AW01-3.5	One 18-in. diameter terracotta pipe encased in a 2-ft wide by 3-ft deep concrete foundation was located 4-ft bgs trending east-west and positioned 7-ft north of SN01. A soil sample was collected from beneath the concrete foundation at 4.5-ft. A hammer hoe was utilized to gain access thru the concrete and terracotta. A partial wastewater sample was collected from the interior of the pipe. A sludge sample was also collected from within the pipe.	NA	Acid waste line	NA
										WW01	C7-CWM-SO-X41-WW01-6 C7-CWM-WW-X41-WW01-6 C7-CWM-WW-X41-WG01-6 (matrix WB)	One 18-in. diameter transite pipe located 5-ft bgs trending east-west and positioned 2-ft north of the south trench wall. The transite pipe was laid with #2 limestone and pea gravel bedding material. A soil sample was collected from beneath the pipe at 6-ft bgs. A drill was used to access the transite pipe for wastewater collection. No sludge was visible. A bedding water sample was collected from an area that contained # 2 limestone and pea gravel bedding located 6-ft bgs in the southwest corner of the excavation. Groundwater was flowing in from the west through the bedding material.	NA	Wastewater line	NA
										W01	No sample taken	One 6-in. diameter steel water line located 5-ft bgs trending east-west and positioned 4-ft north of WW01. No samples were collected due to the nature of the underground line.	NA	Water line	NA

Proposed Sampling Program from SAP										Actual Sampling Program					
Excavation Number	Type of Excavation	Targeted Line Types	Area	Camera Access Point Description	Proposed Excavation Location - Direction and Distance From Camera Access Point or Other Site Feature	Target/Collection Point	Proposed Number of Soil Samples	Proposed Number of Sludge Samples	Proposed Number of Wastewater Samples	Number and Type of Lines Encountered	Associated Sample Designation (s)	Description	Camera Survey Point Number (from non-intrusive investigation)	Reassessment of Line Type Based on Observation and Comparison to Historical Drawings	Notes
X42	Test pit	SN, CW, WW, W	AFP-68 Area 8	NA	55 ft long north-south trending excavation. The south edge should be placed at the north edge of Spruce Street, 22 ft east of the meter/valve located in the northern portion of Area 20, adjacent to and south of Spruce Street.	Several former LOOW and AFP-68 lines may be encountered in this excavation. The historical drawing indicates, from south to north, a fire protection water line, a 10-in. diameter wastewater line, and an 8-in. chemical waste line. Additionally, a former LOOW sanitary sewer line may be encountered in the northern portion of the excavation.	3	3	3	SN01	C7-CWM-SO-X42-SN01-3	One approximately 6-in. diameter terracotta pipe located 2.5-ft bgs trending east-west and positioned 5-ft south of the north trench wall. The terracotta pipe was laid with fine grey sand bedding material. A soil sample was collected from beneath the pipe at 3-ft bgs. The pipe was crushed/collapsed in on itself, no wastewater or sludge was present. Review of historical drawing 100-13 indicates that this line is in the vicinity of a former acid waste line for the bi-trinitration house of the sixth line of the TNT plant. However, the acid line was 10-in. in diameter.	NA	Unknown or possible acid waste line from sixth line of the TNT plant (Historical Drawing 100-13).	Historical Drawing 317-13-59.
										CW01	C7-CWM-SO-X42-CW01-3	One 6-in. diameter terracotta pipe located 2.5-ft bgs trending east-west and positioned 15-ft south of SN01. The terracotta pipe was laid with medium brown sand for bedding material. A soil sample was collected from beneath the pipe at 3-ft bgs. No wastewater or sludge was present.	NA	Chemical waste line or unknown line	NA
										WW01	C7-CWM-SO-X42-WW01-6 (sample collected at 5.5 ft) C7-CWM-WW-X42-WW01-6 (sample collected at 5 ft)	One 8-in. diameter transite pipe located 5-ft bgs trending east-west and positioned 25-ft north of Spruce Road. The transite pipe was laid with pea gravel bedding material. A soil sample was collected from beneath the pipe at 5.5-ft bgs. A wastewater sample was also collected, sludge was not visible.	NA	Wastewater line	NA
X43	Test pit	CW	AFP-68 Area 8	NA	20 ft long east-west trending excavation, parallel to and south of the earthen berm within Area 8. The west end of the excavation should be placed in line with the eastern wall of the bermed area.	Target an 8-in. diameter chemical waste line originating within the bermed area.	1	1	1	CW01	C7-CWM-SO-X43-CW01-5.5	One 8-in. terracotta pipe located 5-ft bgs trending north-south originating from an earthen berm area. The terracotta pipe was laid with to 1/8-in. gravel bedding material. A soil sample was collected from beneath the pipe at 5.5-ft bgs. During excavation operations the terracotta pipe was ruptured. A wastewater sample was extracted from the interior of the pipe. No sludge was visible. This line corresponds to the position of a chemical waste line on historical Drawing 317-13-59.	NA	Chemical waste line	Historical Drawing 317-13-59.
X44	Targeted	CW	AFP-68 Area 8	U-97	10 ft long east-west trending excavation placed 5 ft south of U-97 camera access point.	Target a probable underground chemical line observed during the camera survey. Line contained liquid and white sludge.	1	1	1	CW01	C7-CWM-SO-X44-CW01-3 (sample collected at 3.5 ft)	One 8-inch steel line running north and south. A 4-inch steel pipe running east and west is connected to CW01. A soil sample was collected at 3.5-ft under the intersection of the two pipes. A chop saw was used to gain access to the two pipes. No wastewater or sludge was present. This line may join with the chemical waste line encountered in excavation 43.	U-97	Chemical waste line or unknown line	Historical Drawing 317-13-59.
X45	Test pit	CW, WW	AFP-68 Area 8	U-119	25 ft long east-west trending excavation. Center of excavation should be placed 50 ft south of southeast corner of concrete foundation within Area 8.	Target two chemical and one wastewater line, as well as unknown line observed during the camera survey, trending south from the concrete foundation in Area 8.	3	3	3	CW01	C7-CWM-WW-X45-CW01-5	One 8-in. diameter terracotta pipe located 5-ft bgs trending north-south. This pipe was also 2-ft directly below UN01. A hole was drilled into the line for wastewater sample collection. No sludge was visible. A soil sample was not collected due to flooding of the excavation trench, from liquid seeping in from the bedding material.	NA	Chemical waste line	Historical Drawing 317-13-59.
										1/unknown	C7-CWM-SO-X45-UN01-3	One 8-in. diameter terracotta pipe located 3-ft bgs trending north-south. This pipe was also 2-ft directly above CW01. A soil sample was collected from beneath UN01. A wastewater or sludge sample was not collected due to flooding of the excavation trench from liquid seeping in from the bedding material.	U-119	Unknown line	NA
										CW02	C7-CWM-WW-X45-CW02-5	One 8-in. diameter terracotta pipe located 5-ft bgs trending north-south and positioned 5-ft east of the west trench wall. This pipe was also 1-ft west of WW01. A hole was drilled into the line for wastewater sample collection. No sludge was visible. A soil sample was not collected due to flooding of the excavation trench from liquid was in from the bedding material.	NA	Chemical waste line	NA
										WW01	C7-CWM-WW-X45-WW01-5	One 6-in. diameter transite pipe located 5-ft bgs trending north-south and positioned 7-ft east of the west trench wall. This pipe was also 2-ft west of CW01. A hole was drilled into the line for wastewater sample collection. No sludge was visible. A soil sample was not collected due to flooding of the excavation trench from liquid seeping in from the bedding material.	NA	Wastewater line	NA
X46	Test pit	UN	AFP-68 Area 8	NA	30 ft long north-south trending excavation placed 10 ft east and parallel to Area 8 concrete foundation.	Assess possible lines exiting east side of foundation. No lines are indicated on the historical drawing, but the drawing does not contain detail of the interior of the area.	1	1	1	No lines found	No sample taken	A trench 36-ft long by 44-in. wide and 6-ft deep was excavated with no underground lines discovered.	NA	No lines found	Historical Drawing 317-13-59.
X47	Test pit	WW, CW, UN	AFP-68 Area 8	U-92 to U-96, U-119	75 ft long east-west trending excavation, 5 ft south of the Area 8 foundation. The excavation should extend approximately 8 ft west of the southwest corner and 8 ft east of the southeast corner of the foundation.	Assess lines exiting south off of foundation. Drawing indicates, from west to east, a western grouping of a chemical, wastewater, and second chemical waste line and an eastern grouping of a chemical, wastewater, and second chemical waste line (see Figure 5-8). Lines were also observed trending south from the foundation during the camera survey.	6	6	6	1/unknown	No sample taken	One 8-in. diameter terracotta pipe located 3.5-ft bgs trending north-south and positioned along the east trench wall. This pipe was also investigated in Excavation 45 and was labeled UN01. No samples were collected due to close proximity of UN01 in X-45.	U-119	Unknown line	Historical Drawing 317-13-59.
										2/unknown	C7-CWM-SO-X47-UN02-1.5	One 8-in. diameter terracotta pipe located 1-ft bgs trending north-south and positioned 2-ft east of west trench wall. The 8-in. diameter pipe originates from the concrete pad (French Drain System) then trends 4-ft south before encountering a 45 degree elbow downward to an unknown depth. The UN02 pipe was laid with pea gravel for bedding material. A soil sample was collected from beneath the pipe at 1.5-ft bgs. A sludge sample was collected from the interior of the pipe. No wastewater was visible.	U-93	Possible chemical waste line	NA
										CW01	C7-CWM-SO-X47-CW01-5	One 6-in. diameter terracotta pipe located 5-ft bgs trending north-south and positioned 4-ft west of UN01. The terracotta pipe was laid with pea gravel and fine sand bedding material. A soil sample was collected from beneath the pipe at 5-ft bgs. No wastewater sample was collected due to previous Excavation 45 CW01 investigation within close proximity. No sludge was visible.	U-94	Chemical waste line	NA

TABLE 2-2 SUMMARY OF PROPOSED AND ACTUAL EXCAVATIONS AND SAMPLE LOCATIONS FOR THE REMEDIAL INVESTIGATION OF FORMERLY USED UNDERGROUND UTILITY LINES ON WASTE MANAGEMENT PROPERTY

Proposed Sampling Program from SAP										Actual Sampling Program					
Excavation Number	Type of Excavation	Targeted Line Types	Area	Camera Access Point Description	Proposed Excavation Location - Direction and Distance From Camera Access Point or Other Site Feature	Target/Collection Point	Proposed Number of Soil Samples	Proposed Number of Sludge Samples	Proposed Number of Wastewater Samples	Number and Type of Lines Encountered	Associated Sample Designation (s)	Description	Camera Survey Point Number (from non-intrusive investigation)	Reassessment of Line Type Based on Observation and Comparison to Historical Drawings	Notes
X48	Targeted	SN, W, UN, CW	AFP-68 Area 8	U-98 to U-102	60 ft long north-south trending excavation placed 10 ft east of Building 8-01. Excavation should mirror the length of the building and extend north and south beyond the edge of the building by 5 ft.	Assess lines exiting from east side of Building 8-01 as observed during non-intrusive investigation. Historical drawing for this area indicates, from south to north, a northeast trending secondary to the chemical waste line (confirmed during the camera survey) and a sanitary sewer originating within the building and trending east to secondary line.	2	2	2	CW01	C7-CWM-SO-X48-CW01-5 C7-CWM-SL-X48-CW01-5 C7-CWM-WW-X48-CW01-5	One 10-in. diameter terracotta pipe located 5-ft bgs trending NE-SW and positioned 6-ft east of Building 8-01. The 10-in. diameter pipe was laid with limestone dust to 1/8-in. bedding material. A soil sample was collected from beneath the pipe at 5-ft bgs. The wastewater and sludge samples were collected from the chemical waste manhole (UC-2) located approximately 15-ft to the southwest.	UC-2	Chemical waste line	Historical Drawing 317-13-59.
										SN01	C7-CWM-SO-X48-SN01-2.5 C7-CWM-SL-X48-SN01-2	One 4-in. diameter terracotta pipe located 2-ft bgs encased in concrete foundation (8-ft wide-surface to 1-ft deep) trending east-west and positioned 19-ft north of the south trench wall. The concrete surrounding SN01 was carefully chipped away an excavator with a ram hoe attachment. The SN01 pipe was located 2-ft bgs and 1-ft deep in from the north side of the concrete foundation. Found along with the SN01 pipe was a 10-in. diameter corrugated metal pipe positioned 1-ft above the SN01 pipe. The bedding material consisted of #2 limestone rocks layered between the corrugated pipe and the SN01pipe. A soil sample was collected from beneath the pipe at 2.5-ft bgs. A sludge sample was extracted from the interior of the pipe. No wastewater was present.	U-98 to U-102	Sanitary sewer line	NA
X49	Test pit	CW, WW	AFP-68 Area 8	NA	15 ft long east-west trending excavation placed 80 ft north of the north edge of Spruce Street. The west end of the excavation should be placed at the east edge of the access road into Area 8.	Assess lines exiting south from blast wall area. Drawing indicates, from west to east, a grouping of a chemical, wastewater, and second chemical waste line.	3	3	3	CW01	C7-CWM-SO-X49-CW01-4 C7-CWM-WW-X49-CW01-3.5	One 8-in. diameter terracotta pipe located 3-ft bgs and trending north-south. The terracotta pipe was laid with limestone screenings dust to 1/8-in. bedding material. A soil sample was collected from beneath the pipe at 4-ft bgs. A wastewater sample was collected from the interior of the pipe. No sludge was visible.	NA	Chemical waste line	Historical Drawing 317-13-59.
										CW02	C7-CWM-SO-X49-CW02-5	One 8-n. diameter terracotta pipe located 4.5-ft bgs trending north-south and positioned flush alongside the east side of the access road. The pipe was laid with #1 limestone bedding material. A soil sample was collected from beneath the pipe at 5-ft bgs. Could not gain access to CW02 to grab wastewater or sludge sample, was submersed from water in bedding material.	NA	Chemical waste line	NA
										WW01	C7-CWM-WW-X49-WW01-5 (Sample collected at 4.5)	One 8-in. diameter transite pipe located 4.5-ft bgs and trending north-south. The pipe was laid with #1 limestone bedding material. A wastewater sample was collected. A soil sample was not collected due to flooding of the excavation trench. Sludge was not visible.	NA	Wastewater line	NA
X50	Test pit	UN	AFP-68 Area 8	NA	Place 5-ft long excavations east, west, and south of a sump located adjacent to the south side of the blast wall in Area 8.	Assess potential lines originating from within the sump.	1	1	1	No lines found	No sample taken	A trench was excavated 18-ft long by 2-ft wide and 6-ft in depth with no discovery of lines. This trench was excavated along the east side of a sump which is positioned on the south side of the blast wall.	NA	No lines found	Historical Drawing 317-13-59. However details of possible underground lines within the interior of the area are not available.
X51	Test pit	UN	AFP-68 Area 8	NA	Place 5-ft long excavations east, west, and south of a sump located adjacent to the south side of the blast wall in Area 8.	Assess potential lines originating from within the sump.	1	1	1	No lines found	No sample taken	A trench was excavated 18-ft long by 2-ft wide and 5.5-ft in depth with no discovery of lines. This trench was excavated 7-ft south of the sump which is positioned on the south side of the blast wall.	NA	No lines found	NA
X51a	Test pit	UN	AFP-68 Area 8	NA	Place 5-ft long excavations east, west, and south of a sump located adjacent to the south side of the blast wall in Area 8.	Assess potential lines originating from within the sump.	1	1	1	No lines found	No sample taken	A trench 15-ft long by 3-ft wide and 7-ft deep was excavated with the discovery of no underground lines. The trench was positioned 5-ft north of the concrete pad area designed for the blast wall structure. This excavation targeted any lines leaving the blast wall sump to the north.	NA	No lines found	NA
X52	Test pit	UN	AFP-68 Area 8	NA	Place 5-ft long excavations east, west, and south of a sump located adjacent to the south side of the blast wall in Area 8.	Assess potential lines originating from within the sump.	1	1	1	No lines found	No sample taken	A trench was excavated 18-ft long by 2-ft wide and 5.5-ft in depth with no discovery of lines. This trench was excavated 9-ft west of the sump which is positioned on the south side of the blast wall.	NA	No lines found	NA
X53	Targeted	SN	AFP-68 Areas 7 and 11	SN-16	Place 6 ft long north-south trending excavation adjacent to and east of manhole SN-16.	Target soil from beneath sanitary sewer line. Sludge and wastewater samples may be collected from within the manhole.	1	1	1	SN01	C7-CWM-SO-X53-SN01-7 C7-CWM-SL-X53-SN01-7	One 6-in. diameter terracotta pipe located 7-ft bgs and trending east-west. A soil sample was collected from beneath the pipe at 7-ft bgs. The sludge sample was collected from a sanitary sewer manhole (SN-16) located 5-ft west. No wastewater was present.	SN-16	Sanitary sewer line	Historical Drawing 317-13-59. Based on camera survey results, and results of excavation of the sanitary sewer on Somerset Group property, this line may be separated at the seams, under hydraulic pressure, and prone to leak once soil is removed from the exterior of the line.
X54	Test pit	UN	AFP-68 Areas 7 and 11	NA	Place 20 ft long excavation adjacent to north side of concrete-walled structure in flare stack area.	Assess potential lines originating from within the concrete-walled structure.	1	1	1	No lines found	No samples collected	A series of excavations around a possible flare stack for former AFP-68. Excavation and subsequent camera survey determined that there was a void space under the foundation, but no lines were uncovered.	NA	No lines found	Historical Drawing 317-13-59. However details of possible underground lines within the interior of the area are not available.
X54a	Test pit	UN	AFP-68 Areas 7 and 11	NA		Assess potential lines originating from within the concrete-walled structure.				No lines found	No sample taken	Three trenches surrounding the above ground concrete flare stack were excavated to a depth of 6-ft bgs with no lines discovered. The NW trench was 14-ft long by 2-ft wide and 6-ft deep, the SW trench was 13-ft long by 2-ft wide by 6-ft deep, the SE trench was 14-ft long by 2-ft wide and 6-ft deep. All three trenches were positioned 2-ft off the concrete walls of the flare stack. The NE side of the flare stack was investigated previously during excavation 54; with no line discovered.	NA	No lines found	NA
X55	Test pit	W, WW, SN	AFP-68 Areas 7 and 11	NA	45 ft east-west trending excavation placed 60 ft south of existing hydrant. West edge of excavation should be at east edge of Cedar Street.	From west to east, the historical drawings indicate a fire protection water line (10 ft east of Cedar), a 10-in. wastewater line (20 ft east of Cedar), and a 6-in. diameter cast iron force main sanitary sewer line (42 ft east of Cedar). A north-south trending lateral of the TNT waste line may be present beneath the center-line/east side of Cedar Street. Target the sanitary sewer, wastewater, and TNT (if present) lines for sampling.	3	3	3	WW01	C7-CWM-WW-X55-WW01-7.5 C7-CWM-SO-X55-WW01-8	One 10-in. diameter transite pipe located 7.5-ft bgs trending north-south and positioned 2-ft west of SN01, and 30-ft east of Cedar street. A soil sample was collected from beneath the pipe at 8-ft bgs. A wastewater sample was extracted from the interior of the pipe. No sludge was visible. The TNT wastewater line formerly in this area was not encountered and was likely removed during the interim removal action of the main east-west trending TNT line.	NA	Wastewater line	Historical Drawing 317-13-59. Based on results of excavation of the sanitary sewer on Somerset Group property, the sanitary sewer line may be separated at the seams, under hydraulic pressure, and prone to leak once soil is removed from the exterior of the line.
										SN01	C7-CWM-SO-X55-SN01-7.5 C7-CWM-SL-X55-SN01-7	One 6-in. diameter cast iron pipe located 7-ft bgs trending north-south and positioned 2-ft east of WW01. A soil sample was collected from beneath the pipe at 7.5-ft bgs. A chop saw was utilized to gain access to the interior of the pipe. Adequate sludge was available for sample collection. No wastewater was present.	NA	Sanitary sewer line	NA
										W01	No sample taken	One 10-in. diameter steel/cast iron pipe located 7-ft bgs trending north-south and positioned 6-ft east of the west trench wall. No samples were taken due to the nature of the line.	NA	Water line	NA

TABLE 2-2 SUMMARY OF PROPOSED AND ACTUAL EXCAVATIONS AND SAMPLE LOCATIONS FOR THE REMEDIAL INVESTIGATION OF FORMERLY USED UNDERGROUND UTILITY LINES ON WASTE MANAGEMENT PROPERTY

Proposed Sampling Program from SAP										Actual Sampling Program					
Excavation Number	Type of Excavation	Targeted Line Types	Area	Camera Access Point Description	Proposed Excavation Location - Direction and Distance From Camera Access Point or Other Site Feature	Target/Collection Point	Proposed Number of Soil Samples	Proposed Number of Sludge Samples	Proposed Number of Wastewater Samples	Number and Type of Lines Encountered	Associated Sample Designation (s)	Description	Camera Survey Point Number (from non-intrusive investigation)	Reassessment of Line Type Based on Observation and Comparison to Historical Drawings	Notes
X56	Test pit	WW, W	AFP-68 Areas 7 and 11	NA	30 ft long north-south trending excavation. Center of excavation should be placed 50 ft due east of existing fire hydrant north of concrete foundation.	Target a wastewater line trending southeast. Assess bedding of east-west trending fire protection water line.	1	1	1	WW01	C7-CWM-WW-X56-WW01-7 C7-CWM-WW-X56-WG01-7 (should be matrix WB, line WW01) C7-CWM-SO-X56-WG01-7.5 (should be line WW01)	One 10-inch transite line was encountered at 7-ft bgs. A drill was used to gain access to the line, where a wastewater sample was collected. Water entered the excavation through the small limestone bedding material. A bedding material water sample was collected from the trench wall. A soil sample was collected from beneath the bedding material at 7.5-ft bgs. No sludge was visible.	NA	Wastewater line	Historical Drawing 317-13-59. However details of possible underground lines within the interior of the area are not available.
										2/W01, W02	No sample collected	One 10-in. water line trending east-west. A second 8-in. diameter steel waterline was encountered in the western portion of the excavation and was trending north-south. No samples were collected from the water lines.	NA	Water lines	NA
X57	Test pit	UN	AFP-68 Areas 7 and 11	U-88 to U-91	50 ft east-west trending excavation placed 5 ft south and parallel to concrete foundation in Area 7. The excavation should mirror the length of Building 7-01.	Target possible lines trending north from Building 7-01 to the concrete foundation.	1	1	1	No lines found	No sample taken	A trench was excavated 60-ft long by 2-ft wide by 6-ft deep with no underground lines discovered.	U-88 to U-91	No lines found	Historical Drawing 317-13-59. However details of possible underground lines within the interior of the area are not available.
X58	Test pit	UN, SN	AFP-68 Areas 7 and 11	U-88 to U-91	50 ft east-west trending excavation placed 10 ft south and parallel to Building 7-01. The excavating should mirror the length of Building 7-01.	Target possible lines trending south from Building 7-01, including a sanitary sewer line and unknown line observed during non-intrusive investigation.	2	2	2	SN01	C7-CWM-SO-X58-SN01-3.5	One 4-in. terracotta pipe located 3-ft bgs trending north-south and positioned 20 ft east of the southwest corner of building 7. A soil sample was collected from beneath the pipe at 3.5-ft bgs. No wastewater or sludge was present.	U-88 to U-91	Sanitary sewer line	Historical Drawing 317-13-59. However details of possible underground lines within the interior of the area are not available.
X59	Test pit	CW	AFP-68 Areas 7 and 11	U-87, U-120	20 ft long north-south trending excavations placed parallel to and east and west of the steel I-beam structure. North edge of excavations should extend 10 ft north of structure.	Target possible chemical waste line trending east-west north of the structure. Confirm whether line is in place or was removed during interim removal action.	2	2	2	CW01	C7-CWM-SO-X59-CW01-6	One unknown diameter terracotta pipe located 5.5-ft and trending east-west. The terracotta pipe appeared to be crushed prior to this excavation. The pipe also had of broken concrete and plastic bags which are signs of possible remediation or previous excavation efforts. A soil sample was collected from beneath the pipe at 6-ft bgs. No wastewater or sludge was present.	U120	Chemical waste line	Historical Drawing 317-13-59. However details of possible underground lines within the interior of the area are not available.
X60	Test pit	CW	AFP-68 Areas 7 and 11	U-87, U-120	20 ft long north-south trending excavations placed parallel to and east and west of the steel I-beam structure. North edge of excavations should extend 10 ft north of structure.	Target possible chemical waste line trending east-west north of the structure. Confirm whether line is in place or was removed during interim removal action.	2	2	2	CW01	C7-CWM-SO-X60-CW01-5.5	One unknown diameter terracotta pipe located 5-ft and trending east-west. The terracotta pipe appeared to be crushed pre-excavation. The pipe also had signs of possible remediation or previous excavation efforts. Pieces of broken concrete and plastic bags were found at depth. A soil sample was collected from beneath the pipe at 5.5-ft bgs. No wastewater or sludge was present.	U-87 or U-120	Chemical waste line	NA
X61	Test pit	CW	AFP-68 Areas 7 and 11	NA	25 ft north-south trending excavation parallel to and 80 ft east of Wesson Street. South end of excavation should be placed at north edge of access road.	Target possible chemical waste line trending east-west in this area. Confirm whether line is in place or was removed during interim removal action.	1	1	1	CW01	C7-CWM-SO-X61-CW01-6	One unknown diameter pipe located 5.5-ft trending east-west and positioned 10-ft north of the south trench wall. The terracotta pipe appeared to be crushed prior to this excavation. The pipe also had broken concrete in the vicinity, which may be signs of possible remediation or previous excavation efforts. A soil sample was collected from beneath the pipe at 6-ft bgs. Wastewater or sludge was not present.	NA	Chemical waste line	Historical Drawing 317-13-59. However details of possible underground lines within the interior of the area are not available. Based on results of the Phase II investigation, high volatile organic vapor concentrations may be encountered during this excavation.
										W01	No sample taken	One 8-in. diameter cast iron water line located at 6-ft bgs trending east-west and positioned 5-ft north of the south trench wall. The water line W02 is positioned 2-ft to the south. No samples were collected due to the nature of the line.	NA	Water line	NA
										W02	No sample taken	One 6-in. diameter cast iron water line located at 6-ft bgs trending east-west and positioned 7-ft north of the south trench wall. The water line W01 is positioned 2-ft to the north. No samples were collected due to the nature of the line.	NA	Water line	NA
X62	Test pit	CW	AFP-68 Areas 7 and 11	NA	25 ft north-south trending excavation parallel to and 5 ft east of Wesson Street. South end of excavation should be placed at 30 ft north of the southeast corner of Building 16-01.	Target possible chemical waste line trending east-west in this area. Confirm whether line is in place or was removed during interim removal action.	1	1	1	CW01	C7-CWM-SO-X62-CW01-5 C7-CWM-WW-X62-CW01-4.5 C7-CWM-WW-X62-WG01-5 (should be matrix WB and line type CW)	One 6-in. diameter terracotta pipe located 4-ft bgs trending east-west and positioned 5-ft south of the 8-ft wide concrete foundation. The pipe was laid with #1 limestone rock bedding material. A soil sample was collected from beneath the pipe at 5-ft bgs. A drill was used to access the interior of the pipe for wastewater sample collection. Sludge was not visible. This may be a chemical waste line as indicated in historical Drawing 317-13-59. The chemical waste line may also have been encased in the concrete that was found in this excavation. The chemical waste line discovered on the west side of Wesson Street (excavation 22A) was encased in concrete. Historical Drawing 317-13-52 also indicates that the water lines are encased in protective concrete beneath Wesson Street. Large amounts of water entered the excavation through bedding material. Water from the bedding material (WB) was collected from the western wall of the excavation.	NA	Chemical waste line	Historical Drawing 317-13-59. However details of possible underground lines within the interior of the area are not available.
										W01	C7-CWM-WW-X62-WG01-4.5 (should be cooling water [WC] line type)	One 20-in. diameter steel water pipe located 4.5-ft and trending north-south. According to historical drawings the pipe appears to be cooling water. A plywood box frame surrounding concrete was positioned on the east side of the 20-in. diameter steel pipe is a possible signs of a previous excavations or remediation. A chop saw was utilized to gain access to the interior of the pipe. Upon break-thru the pipe vented air pressure outward for several minutes before equalization. The escaping air was monitored with PID and had a maximum reading of 37 ppm. A wastewater sample was extracted from the interior of the pipe. Sludge was not visible. No soil was collected. This is the same 20-in. waterline encountered in excavation 22A.	NA	Water line	NA
X63	Targeted	SN	AFP-68 Area 4	SN-7, SN-8	12 ft long north-south trending excavations placed adjacent to sanitary sewer manholes SN-7 and SN-8. Furthest east excavation (excavation 63) to be placed 5 ft east of Cedar Street, in line with manholes SN-7 and SN-8.	Target soil beneath sanitary sewer line. Available drawings indicate the sanitary sewer line in this area is an 8-in. vitreous clay line. Note that the sludge and wastewater sample may be collected from within the sanitary sewer manhole. Line was full of liquid during non-intrusive investigation. Due to the amount of liquid expected within the line, a sludge sample may not be collected from excavation 63.	1	1	1	SN01	C7-CWM-SO-X63-SN01-12.5	A terracotta sanitary sewer pipe located 12-ft bgs and trending east-west, positioned 33-ft west of the Somerset Property Sanitary Lift Station. A soil sample was collected from beneath the pipe at 12.5-ft bgs. No attempt was made to access the interior of the pipe because previous camera survey investigation found large volumes of liquid within the pipe. No wastewater or sludge was collected. According to historical Drawing 317-13-59 this line is 8-in. in diameter.	SN-7, SN-8	Sanitary sewer line	Historical Drawing 317-13-59. Based on camera survey results, and results of excavation of the sanitary sewer on Somerset Group property, this line may be separated at the seams, under hydraulic pressure, and prone to leak once soil is removed from the exterior of the line.

TABLE 2-2 SUMMARY OF PROPOSED AND ACTUAL EXCAVATIONS AND SAMPLE LOCATIONS FOR THE REMEDIAL INVESTIGATION OF FORMERLY USED UNDERGROUND UTILITY LINES ON WASTE MANAGEMENT PROPERTY

Proposed Sampling Program from SAP										Actual Sampling Program					
Excavation Number	Type of Excavation	Targeted Line Types	Area	Camera Access Point Description	Proposed Excavation Location - Direction and Distance From Camera Access Point or Other Site Feature	Target/Collection Point	Proposed Number of Soil Samples	Proposed Number of Sludge Samples	Proposed Number of Wastewater Samples	Number and Type of Lines Encountered	Associated Sample Designation (s)	Description	Camera Survey Point Number (from non-intrusive investigation)	Reassessment of Line Type Based on Observation and Comparison to Historical Drawings	Notes
X64	Targeted	SN	AFP-68 Area 4	SN-7, SN-8	12 ft long north-south trending excavations placed adjacent to sanitary sewer manholes SN-7 and SN-8. Furthest east excavation (excavation 63) to be placed 5 ft east of Cedar Street, in line with manholes SN-7 and SN-8.	Target soil beneath sanitary sewer line. Available drawings indicate the sanitary sewer line in this area is an 8-in. vitreous clay line. Note that the sludge and wastewater sample may be collected from within the sanitary sewer manhole. Line was full of liquid during non-intrusive investigation. Due to the amount of liquid expected within the line, a sludge sample may not be collected from excavation 63.	1	1	1	SN01	C7-CWM-SO-X64-SN01-12	A terracotta sanitary sewer pipe diameter located at 12-ft bgs and trending east-west. A soil sample was collected from beneath the pipe at 12-ft bgs. A wastewater sample was extracted from the sanitary sewer manhole (SN-8/9) located 18-ft west of the trench. Sludge sample collection was attempted at the (SN-8/9) manhole but proved unsuccessful. No attempt was made to access the interior of the pipe because previous camera survey investigation found large volumes of liquid within the pipe. According to historical Drawing 317-13-59 this line is 8-in. in diameter.	SN-7, SN-8	Sanitary sewer line	NA
X65	Targeted	SN	AFP-68 Area 4	SN-7, SN-8	12 ft long north-south trending excavations placed adjacent to sanitary sewer manholes SN-7 and SN-8. Furthest east excavation (excavation 63) to be placed 5 ft east of Cedar Street, in line with manholes SN-7 and SN-8.	Target soil beneath sanitary sewer line. Available drawings indicate the sanitary sewer line in this area is an 8-in. vitreous clay line. Note that the sludge and wastewater sample may be collected from within the sanitary sewer manhole. Line was full of liquid during non-intrusive investigation. Due to the amount of liquid expected within the line, a sludge sample may not be collected from excavation 63.	1		1	SN01	C7-CWM-SO-X65-SN01-10 C7-CWM-WW-X65-SN01-12	A terracotta sanitary sewer pipe located at 10-ft bgs and trending east-west. A soil sample was collected from beneath the pipe at 10-ft bgs. A wastewater sample was extracted from the sanitary sewer manhole (SN-7) located 5-ft west of the trench. Sludge sample collection was attempted at the (SN-7) manhole but proved unsuccessful. No attempt was made to access the interior of the pipe because previous camera survey investigation found large volumes of liquid within the pipe. According to historical Drawing 317-13-59 this line is 8-in. in diameter.	SN-7, SN-8	Sanitary sewer line	NA
X66	Test pit	SN, UN, W	AFP-68 Area 4	NA	80 ft long east-west trending excavation parallel to and 10 ft north of Building 4-01. Excavation should mirror the length of the building, but extend 12 ft further east to capture a possible water line.	Historical drawing indicates, from west to east, an 8-in. diameter process water line, a 4-in. sanitary sewer secondary line, and an 8-in. fire protection water line. Additional unknown lines may be present. Target the sanitary sewer and unknown lines for sampling. Assess the bedding of the water lines.	2	2	2	SN01	C7-CWM-SO-X66-SN01-5.5 C7-CWM-WW-X66-SN01-5	One 4-in. diameter terracotta pipe located 5-ft bgs trending north-south and positioned 35-ft east of the northwest corner of building 4. A soil sample was collected from beneath the pipe at 5.5-ft bgs. A wastewater sample was also collected from the terracotta pipe. Sludge was not visible.	NA	Sanitary sewer line	Historical Drawing 317-13-59. However details of possible underground lines within the interior of the area are not available.
										W01	No sample taken	One 6-in. diameter steel water line located 6-ft bgs trending north-south and positioned 38-ft east of SN01. No samples were taken due to the nature of the line.	NA	Water line	NA
										Water Supply (W02)	No sample taken	One 1-in. diameter cooper water supply line located 5-ft bgs trending north-south and positioned 22-ft east of the northwest corner of building 4. No samples were taken due to the nature of the line.	NA	Water line	NA
X67	Test pit	UN	AFP-68 Area 4	Points within Building 4-01	20 ft north-south trending excavations parallel and 10 ft east of Building 4-01. South end of excavating should start at southeast corner of building.	Target unknown lines exiting east side of building as observed during the camera survey.	1	1	1	No lines found	No sample taken	A trench 21-ft long by 2-ft wide and 6-ft deep was excavated with the discovery of no underground lines. This trench was approximately 10-ft east of Building 4-01.	NA	No lines found	Historical Drawing 317-13-59. However details of possible underground lines within the interior of the area are not available.
X68	Test pit	W, UN	AFP-68 Area 4	Points within Building 4-01	50 ft long east-west trending excavation parallel to and 10 ft south of Building 4-01. Excavation should mirror the length of the building.	Detail from historical drawing is not available. However, several lines were observed trending south out of the building during the non-intrusive investigation. Target the unknown lines for sample collection and the water lines for bedding material assessment.	1	1	1	W01	No sample taken	One 6-in. diameter steel line located 6-ft bgs trending NE-SW and positioned in the far east portion of the trench. The angle of the underground line appears to miss the southeast corner of Building 4-01 by 5-ft. The line appears to be a water line; therefore, no samples were taken.	NA	Water line	Historical Drawing 317-13-59. However details of possible underground lines within the interior of the area are not available.
X69	Test pit	UN	AFP-68 Area 4	U-73	75 ft long east-west trending excavation, 5 ft south of the Area 4 foundation. The excavation should mirror the length of the foundation.	Target unknown line exiting south from the foundation as observed during the non-intrusive investigation. A secondary from the main wastewater line may also originate in this area. The available historical drawing does not provide detail for this area.	1	1	1	W01	No sample taken	One 6-in. diameter water line located 4-ft bgs trending north-south and positioned 2-ft west of W02. The line appeared to be a water line. No samples were taken due to the nature of the line. This line may be a possible wastewater line that joins with the steel line encountered in excavation 76. However, no bedding material was encountered in this excavation.	NA	Water line, possible wastewater line	Historical Drawing 317-13-59. However details of possible underground lines within the interior of the area are not available.
										W02	No sample taken	One 4-in. diameter steel line located 4-ft bgs trending north-south and positioned 2-ft east of W01. No samples were taken due to the nature of the line.	NA	Water line	NA
										W03	No sample taken	One 6-in. diameter steel line located 6-ft bgs trending north-south and positioned 6-ft east of W02. The line appeared to be a water line. No samples were taken due to the nature of the line.	NA	Water line	NA
X70	Test pit	UN, W	AFP-68 Area 4	U-76, U-77	Approximately 30 ft long excavations placed parallel to and 5 ft from the west, south, and east edge of the concrete foundation west of Building 4-01.	Target unknown lines observed during the non-intrusive investigation as well as possible drains trending south off of concrete foundation observed during Phase II RI. Drains may be associated with wastewater main located in the southern portion of Area 4.	1	1	1	No lines found	No sample taken	A trench 20-ft long by 2-ft wide and 6-ft deep was excavated with the discovery of no underground lines.	U-75	No lines found	Historical Drawing 317-13-59. However details of possible underground lines within the interior of the area are not available.
X71	Test pit	UN, W	AFP-68 Area 4	U-76, U-77	Approximately 30 ft long excavations placed parallel to and 5 ft from the west, south, and east edge of the concrete foundation west of Building 4-01.	Target unknown lines observed during the non-intrusive investigation as well as possible drains trending south off of concrete foundation observed during Phase II RI. Drains may be associated with wastewater main located in the southern portion of Area 4.	1	1	1	No lines found	No sample taken	A trench 50-ft long by 44-in. wide and 7-ft deep was excavated with the discovery of no underground lines. This trench was located 5-ft south of the concrete pad area.	NA	No lines found	NA
X72	Test pit	UN, W	AFP-68 Area 4	U-76, U-77	Approximately 30 ft long excavations placed parallel to and 5 ft from the west, south, and east edge of the concrete foundation west of Building 4-01.	Target unknown lines observed during the non-intrusive investigation as well as possible drains trending south off of concrete foundation observed during Phase II RI. Drains may be associated with wastewater main located in the southern portion of Area 4.	1	1	1	W01	No sample taken	One 6-in. diameter steel line located 4-ft bgs trending east-west 21-ft north of the southwest corner of the concrete pad. The line appeared to be a water line. Possibly connects to camera survey line U-77a. No samples were taken due to the nature of the line.	NA	Water line	NA
										W02	No sample taken	One 6-in. diameter steel water line located 4-ft bgs trending east-west 7-ft north of southwest corner of concrete pad. The line appeared to be a water line. No samples were taken due to the nature of the line.	NA	Water line	NA
										W03	No sample taken	One 6-in. diameter steel water line located 4-ft bgs trending east-west 5-ft north of southwest corner of concrete pad. The line appeared to be a water line. No samples were taken due to the nature of the line.	NA	Water line	NA
X73	Test pit	CW	AFP-68 Area 4	NA	15 ft long north-south trending excavation. Center of excavation should be place 40 ft south of the southern earthen berm.	Target possible east-west trending secondary chemical line. Confirm whether line is in place or was removed during interim removal action.	1	1	1	CW01	C7-CWM-SO-X73-CW01-7.5 C7-CWM-WW-X73-CW01-7	One 6-in. diameter steel pipe located 7-ft bgs and trending east-west. A soil sample was collected from beneath the pipe at 7.5-ft bgs. A wastewater sample was extracted from a pipe access (flush with the ground surface) located approximately 75-ft to the east (camera access point U-72). According to historical Drawing 317-13-59, the CW01 underground line trending east intersected with the 4-in. stick-up. This stick-up was investigated during previous camera survey operations and was titled U-72. Sludge was not visible.	U-72	Unknown, possible chemical waste line	Historical Drawing 317-13-59. However details of possible underground lines within the interior of the area are not available.

TABLE 2-2 SUMMARY OF PROPOSED AND ACTUAL EXCAVATIONS AND SAMPLE LOCATIONS FOR THE REMEDIAL INVESTIGATION OF FORMERLY USED UNDERGROUND UTILITY LINES ON WASTE MANAGEMENT PROPERTY

Proposed Sampling Program from SAP										Actual Sampling Program					
Excavation Number	Type of Excavation	Targeted Line Types	Area	Camera Access Point Description	Proposed Excavation Location - Direction and Distance From Camera Access Point or Other Site Feature	Target/Collection Point	Proposed Number of Soil Samples	Proposed Number of Sludge Samples	Proposed Number of Wastewater Samples	Number and Type of Lines Encountered	Associated Sample Designation (s)	Description	Camera Survey Point Number (from non-intrusive investigation)	Reassessment of Line Type Based on Observation and Comparison to Historical Drawings	Notes
X74	Targeted	UN	AFP-68 Area 4	U-70, U-71, U-67	90 ft long east west trending excavation placed 5 ft south of and parallel to the earthen berm within Area 4. Excavation should mirror length of the bermed area.	Target lines trending south from berm area. Several lines, possibly water lines, were observed during camera survey. Each of the lines observed during the camera survey was filled with liquid.	2	2	2	1/unknown	C7-CWM-SO-X74-UN01-5 C7-CWM-WW-X74-UN01-4.5	One 4-in. diameter steel line located 4.5-ft bgs trending north-south. Appears to originate at sump located in the southeast corner of the earthen berm tank containment area. A soil sample was collected from beneath the line at 5-ft bgs. A drill was utilized to access the interior of the line for wastewater collection. Sludge was not visible.	NA	Unknown line, possible wastewater line	Historical Drawing 317-13-59. However details of possible underground lines within the interior of the area are not available.
										W01	No sample taken	One 8-in. diameter steel water line located 5-ft bgs trending north-south and in line with western most water meter. No samples were taken due to the nature of the line.	NA	Water line	NA
										W02	No sample taken	One 8-in. diameter steel water line located 4-ft bgs trending north-south. Line is directly south of U-66. No samples were taken due to the nature of the line.	U-66	Water line	NA
										W03	No sample taken	One unknown diameter water line encased in a concrete foundation located 4-ft bgs trending north-south. Lines up with water meter just to the west of U-66. No samples were taken due to the nature of the line.	U-67	Water line	NA
										W04	No sample taken	One unknown diameter water line encased in a concrete foundation located 4-ft bgs trending north-south. Lines up with water meter located just to the east of U-66. No samples were taken due to the nature of the line.	U-71	Water line	NA
										W05	No sample taken	One 4-inch diameter water line encased in a concrete foundation located 4.5-ft bgs trending north-south and positioned 19-ft east of W02 and 14-ft west of UN01. No samples were taken due to the nature of the line.	NA	Water line	NA
X75	Test pit	WW, W	AFP-68 Area 4	NA	20 ft long north-south trending excavation. North end of excavation should be placed 95 ft south of Building 4-01.	Target east-west trending wastewater line depicted in historical drawing.	1	1	1	WW01	C7-CWM-SO-X75-WW01-6 C7-CWM-WW-X75-WW01-5	One 8-in. diameter transite pipe located 5-ft bgs trending east-west and positioned 2-ft south from the north trench wall and 8-ft north of a probable water line (W01). The bedding material used for WW01 was #1 limestone rocks. A soil sample was collected from beneath the pipe at 6-ft bgs. A drill was utilized to gain access to the interior of the pipe for wastewater sample collection. Sludge was not visible.	NA	Wastewater line	Historical Drawing 317-13-59. However details of possible underground lines within the interior of the area are not available.
										W01	No sample taken	One 6-in. diameter steel water line located 5-ft bgs trending east-west and positioned 8-ft south of WW01 and 5-ft north of the south trench wall. No samples were taken due to the nature of the line.	NA	Water line	NA
X76	Test pit	WW	AFP-68 Area 4	NA	20 ft long north-south trending excavation. North end of excavation should be placed 35 ft south of concrete foundation.	Target east-west trending wastewater line depicted in historical drawing.	1	1	1	WW01	C7-CWM-SO-X76-WW01-4 C7-CWM-WW-X76-WW01-3.5	One 8-in. diameter steel/transite pipe located at 3.5-ft bgs. The 8-in. diameter steel pipe begins from the north trench wall trending south for 5-ft before making a transition to a transite material. The transite pipe trends south 4 more feet before encountering a steel "T" connection which splits the direction to east and west. The bedding material used for WW01 pipe was #1 limestone. A soil sample was collected beneath the pipe at 4-ft bgs near the transition of steel to transite. A drill was utilized to gain access to the interior of the pipe (transite) for wastewater sample collection prior to 'T". Sludge was not visible.	NA	Wastewater line	Historical Drawing 317-13-59. However details of possible underground lines within the interior of the area are not available.
X77	Test pit	UN	AFP-68 Area 4	NA	20 ft long north-south trending excavation placed 5 ft west of west berm to tank containment area. Length of excavation should mirror the length of the berm.	Target possible lines exiting west from the bermed tank containment area.	1	1	1	No lines found	No sample taken	Bedding material was discovered from what is believed to be the remediated acid was line. Line was not visually seen, but is position in the same location as the line discovered on the Somerset property. No other lines were discovered, no samples were taken.	NA	No lines found	Historical Drawing 317-13-59. However details of possible underground lines within the interior of the area are not available.
X77a	Test pit	UN	AFP-68 Area 4	NA	20 ft long north-south trending excavation placed 5 ft west of west berm to tank containment area. Length of excavation should mirror the length of the berm.	Target possible lines exiting west from the bermed tank containment area.				DW01	C7-CWM-SO-X77A-DW01-3 C7-CWM-SL-X77A-DW01-2.5	One 6-in. diameter steel line located 3.5-ft bgs. The line begins from a 3-ft by 2-ft grated sump located in the southwest corner of the earthen berm tank containment area. The steel line exits the sump at 3.5-ft bgs trending south approximately 16-ft before encountering a valve access pipe extending 3-ft upward . At .5-ft bgs a valve cover was in place. A soil sample was collected from beneath the line at 3.5-ft bgs. Sludge sample was collected from inside the sump pit. No wastewater was present.	NA	Drain line, possible chemical or wastewater line	NA
X78	Test pit	WW, SN	Nitration Houses	NA	25 ft long east west trending excavation. This excavation should be placed 15 ft south of the east-west trending sanitary sewer main associated with excavation 53.	Target south trending sanitary sewer line and southeast trending wastewater line.	2	2	2	WW01	C7-CWM-SO-X78-WW01-6.5 C7-CWM-WW-X78-WW01-5.5	One 8-in. diameter transite pipe located 5.5-ft bgs and trending NW-SE. A soil sample was collected from beneath the pipe at 6.5-ft bgs. A drill was utilized to gain access to the interior for wastewater sample collection. Sludge was not visible. The targeted AW and SN lines were not encountered during excavation. Excavation was extended to Q-ditch to try and intercept these lines.	NA	Wastewater line	Historical Drawing 100-13.
X-79	Test pit	WW, AC, SN	Nitration Houses	NA	25 ft long east west trending excavations. This excavation should be placed due east of the north end of excavation 41.	Target south trending sanitary sewer line, southeast trending wastewater line, and south trending wastewater/acid waste line. The acid waste line is a former LOOW acid waste line. AFP-68 facility tied the AFP-68 wastewater main into the former LOOW line.	2	2	2	No lines found	No sample taken	A trench 32-ft long by 2-ft wide and 8-ft deep was excavated with the discovery of no underground lines. A sanitary sewer and wastewater line were targeted. The trench was positioned 85-ft south of a water valve. This is in an area where 20 ft of the underground sanitary sewer line was reported removed by CWM in 1978.	NA	No lines found	Historical Drawing 100-13.
X80	Test pit	UN, AW	Nitration Houses	NA	25 ft long east-west trending excavation placed 10 ft north of the bi-trinitration house. East end of excavation should extend east beyond northeast corner of bi-trinitration house by 5 ft.	Target unknown line observed during pipe and cable trace as well as a secondary acid waste line depicted in historical drawing.	2	2	2	No lines found	No sample taken	A trench 41-ft long by 2-ft wide and 8.5-ft deep was excavated with the discovery of no underground lines. The excavation was targeting a possible acid waste line located in this area in accordance with historical Drawing 100-13. The trench was 15-ft north of the Bi-Tri-Nitration House.	NA	No lines found	Historical Drawing 100-13.
X81	Test pit	SN, UN	Nitration Houses	NA	20 ft long east-west trending excavation. Center of excavation should be placed 10 ft southwest of the southwest corner of the bi-trinitration house.	Target unknown line observed during pipe and cable trace as well as a secondary sanitary sewer line depicted in historical drawing.	2	2	2	Conduit	No sample taken	One 1.5-in. diameter conduit located 3.5-ft bgs trending north-south and positioned 4-ft west of the east trench wall. The trench was positioned 6-ft south off the Bi-Tri-Nitration House SW corner. Comparison to historical Drawing 100-13 does not indicate a 2-in. line in this area. Sanitary and or acid waste sewers were targeted. However, no terracotta or vitreous clay pipes were encountered.	NA	Possible electrical conduit.	Historical Drawing 100-13.
X82	Test pit	AW	Nitration Houses	NA	30 ft long northeast-southwest trending excavation. Center of excavation should be placed 40 ft northwest of existing manhole.	Target acid waste lines.	1	1	1	No lines found	No sample taken	A trench 40-ft long by 44-in. wide and 12-ft deep was excavated with the discovery of no underground lines. A large concrete foundation was located at 4-ft-bgs and positioned in the SW corner of the trench. Upon review of data from the overall UURI, it is now believed that the concrete foundations may have housed underground lines.	NA	No lines found	Historical Drawing 100-13.
X83	Targeted	SN	Nitration Houses	SN-13	10 ft long north-south trending excavation placed 5 ft west of existing manhole.	Target sanitary sewer line exiting west from manhole. Sludge and wastewater sample may be collected from within manhole. During camera survey, liquid and sludge was observed within the line.	1	1	1	SN01	C7-CWM-SO-X83-SN01-7.5 C7-CWM-SL-X83-SN01-6	One 8-in. diameter terracotta pipe encased in a concrete foundation located 6-ft bgs trending east-west. A drilled was utilized to gain access thru concrete and into terracotta pipe. No wastewater or sludge was present within the interior of the pipe. However, a sludge sample was extracted from a sanitary sewer manhole (SN-1) positioned 26-ft east of the trench.	SN-13	Sanitary sewer line	Historical Drawing 100-13.

TABLE 2-2 SUMMARY OF PROPOSED AND ACTUAL EXCAVATIONS AND SAMPLE LOCATIONS FOR THE REMEDIAL INVESTIGATION OF FORMERLY USED UNDERGROUND UTILITY LINES ON WASTE MANAGEMENT PROPERTY

Proposed Sampling Program from SAP										Actual Sampling Program					
Excavation Number	Type of Excavation	Targeted Line Types	Area	Camera Access Point Description	Proposed Excavation Location - Direction and Distance From Camera Access Point or Other Site Feature	Target/Collection Point	Proposed Number of Soil Samples	Proposed Number of Sludge Samples	Proposed Number of Wastewater Samples	Number and Type of Lines Encountered	Associated Sample Designation (s)	Description	Camera Survey Point Number (from non-intrusive investigation)	Reassessment of Line Type Based on Observation and Comparison to Historical Drawings	Notes
X84	Test pit	AW	Nitration Houses	NA	15 ft long east-west trending excavation centered 15 ft north of liquid filled pit.	Target the acid waste line depicted on the historical drawing as exiting north from the east portion of the former acid fume recovery area.	1	1	1	No lines found	No sample taken	A trench 25-ft long by 2-ft wide and 9-ft deep was excavated with the discovery of no underground lines. A large concrete footer (4-ft wide) was located at 6-ft-bgs and positioned 9-ft east of the west trench wall. The excavation was located just north of the liquid filled pit. Following evaluation of UURI data, it is now believed that the footer may have housed an underground line.	NA	No lines found – concrete may have housed possible acid waste line	Historical Drawing 100-13.
X85	Targeted	AW, UN	Nitration Houses	U-115	20 ft long east-west trending excavation placed 10 ft south of the liquid filled pit adjacent to the fortifier house. Excavation should mirror the width of the fortifier house.	Target the unknown (but probable acid waste) line trending south from fortifier house. Line was full of liquid and contained yellow sludge.	1	1	1	1/unknown	C7-CWM-SO-X85-UN01-6.5 C7-CWM-SL-X85-UN01-6 C7-CWM-WW-X85-UN01-6	One 4-in. diameter steel pipe located 6-ft bgs trending north-south and the originating positioned is 3-ft west of the Fortifier House SE comer (U-115). A large liquid fill sump located in the south portion of the Fortifier House contains a 4-in. diameter stick-up, which is the beginning of UN01 pipe. A soil sample was collected from beneath the pipe at 6.5-ft bgs. A wastewater sample was extracted from the 4-in. diameter stick-up located inside the Fortifier House. A chop saw was utilized to gain access to the interior of the pipe for sludge sample collection. An explosive residue field test for nitrate based explosives tested positive in swipes taken from the wastewater samples and the liquid contained within the sump. The soil sample swipe was negative.	U-115	Unknown line	Historical Drawing 100-13.
										2/unknown	C7-CWM-SO-X85-UN02-4.5 C7-CWM-SL-X85-UN02-4 C7-CWM-WW-X85-UN02-4	One 4-in. diameter terracotta pipe located 4-ft bgs trending NE-SW and positioned 5-ft south of the Fortifier House SE comer. The UN02 pipe crosses over the UN01pipe. A soil sample was collected from beneath the pipe at 4.5-ft bgs. A wastewater and sludge samples were extracted from the interior of the pipe. The explosive residue field test for all samples matrixes were negative. Historical Drawing 100-13 indicates the presence of an acid waste sewer in this area.	NA	Possible acid waste line	NA
X86	Targeted	SN, AW	Nitration Houses	U-116, U-117	40 ft long north-south trending excavation. The south end of the excavation should be placed 10 ft west of the mononitration house.	Target the sanitary sewer and acid waste line originating within the mononitration house. Sludge deposits and liquid were observed within the access points (U-116, U-117) included in the camera survey. However, it is unclear as to whether these access points were associated with water lines in the area or the sanitary and acid waste lines.	2	2	2	SN01	C7-CWM-SO-X86-SN01-7 C7-CWM-WW-X86-SN01-6	One 8-in. diameter terracotta pipe located 6-ft bgs trending east-west and positioned 9-ft north of the mononitration house. A soil sample was collected from beneath the pipe at 7-ft bgs. A wastewater sample was collected from the interior of the pipe. Sludge was not visible. An explosive residue field test for nitrate based explosives tested positive in swipes taken from the wastewater samples. The soil sample swipe was negative.	NA	Sanitary sewer line	Historical Drawing 100-13.
										W01	No sample taken	One 6-in. diameter steel water line located 4-ft bgs trending east-west and positioned 4-ft north of the south trench wall and 4-ft south of W02. No sample was taken due to the nature of the line.	U-116	Water line	NA
										W02	No sample taken	One 6-in. diameter steel water line located 4-ft bgs trending east-west and positioned 4-ft north of the W01. No sample was taken due to the nature of the line.	U-117	Water line	NA
										Electrical conduit	No sample taken	One 1.5-in diameter electrical conduit located 4-ft bgs trending east-west and positioned 2-ft north of W02.	NA	Electrical conduit	NA
X87	Targeted and test pit	AW	South of M Street	UAL-1, UAL-2, UAL-3	10 ft excavations proposed at approximately 250-ft intervals along acid waste line.	A small amount of sludge and liquid was observed throughout the acid waste line during the camera survey. The up gradient portion of the line contained only a small amount of liquid. The down gradient portion of the line was filled with liquid.	1	1	1	AW01	C7-CWM-WW-X87-AW01-15 C7-CWM-SO-X87-AW01-16 C7-CWM-SL-X87-AW01-15	One 36-inch diameter pipe encased in concrete located 15-ft bgs trending east-west and positioned 15-ft south of the north trench wall. A soil sample was collected from beneath the concrete foundation at 16-ft bgs. The wastewater and sludge samples were extracted from the acid waste manhole (UAL-3) located 7-ft east of the trench.	UAL-3	Acid waste line	Historical Drawing No. 100-15. No other (unknown) lines are expected to be present in these excavations.
X88	Targeted and test pit	AW	South of M Street	UAL-1, UAL-2, UAL-3	10 ft excavations proposed at approximately 250-ft intervals along acid waste line.	A small amount of sludge and liquid was observed throughout the acid waste line during the camera survey. The up gradient portion of the line contained only a small amount of liquid. The down gradient portion of the line was filled with liquid.	1	1	1	AW01	C7-CWM-SO-X88-AW01-16 C7-CWM-WW-X88-AW01-16	One 36-inch diameter pipe encased in concrete foundation located 12-ft bgs and trending east-west. A soil sample was collected from beneath the concrete foundation at 16-ft bgs. A drill was utilized to access the interior for wastewater sample collection.	UAL-3	Acid waste line	NA
X89	Targeted and test pit	AW	South of M Street	UAL-1, UAL-2, UAL-3	10 ft excavations proposed at approximately 250-ft intervals along acid waste line.	A small amount of sludge and liquid was observed throughout the acid waste line during the camera survey. The up gradient portion of the line contained only a small amount of liquid. The down gradient portion of the line was filled with liquid.	1	1	1	AW01	C7-CWM-SO-X89-AW01-17 C7-CWM-WW-X89-AW01-16	One 36-inch diameter pipe encased in concrete foundation located 16-ft bgs and trending east-west. A soil sample was collected from beneath the concrete foundation at 17-ft bgs. A drill was utilized to access the interior for wastewater sample collection. The water from the drilled access hole had a visible sheen and a noticeable odor. Sludge sample not feasible.	UAL-3	Acid waste line	NA
X90	Targeted and test pit	AW	South of M Street	UAL-1, UAL-2, UAL-3	10 ft excavations proposed at approximately 250-ft intervals along acid waste line.	A small amount of sludge and liquid was observed throughout the acid waste line during the camera survey. The up gradient portion of the line contained only a small amount of liquid. The down gradient portion of the line was filled with liquid.	1	1	1	AW01	C7-CWM-SO-X90-AW01-16 (soil collected from 17 ft) C7-CWM-WW-X90-AW01-17 (wastewater collected from 16 ft)	One 36-inch diameter pipe encased in concrete foundation located 16-ft bgs trending east-west. A soil sample was collected from beneath the concrete foundation at 17-ft bgs. A drill was utilized to access the interior for wastewater sample collection. The water from the drilled access hole had a visible sheen and a noticeable odor. Due to fact the pipe was 24 inches in diameter and 16 ft bgs it was not safe to collect a sludge sample with available trench box.	NA	Acid waste line	NA
X91	Targeted and test pit	AW	South of M Street	UAL-1, UAL-2, UAL-3	10 ft excavations proposed at approximately 250-ft intervals along acid waste line.	A small amount of sludge and liquid was observed throughout the acid waste line during the camera survey. The up gradient portion of the line contained only a small amount of liquid. The down gradient portion of the line was filled with liquid.	1	1	1	AW01	C7-CWM-SO-X91-AW01-18 C7-CWM-WW-X91-AW01-16	One unknown diameter pipe encased in concrete foundation located 12.5-ft bgs trending east-west. A soil sample was collected from beneath the concrete foundation at 18-ft bgs. A drill was utilized to access the interior for wastewater sample collection. The water from the drilled access hole had a visible sheen. Due to fact the pipe was 24 inches in diameter and 16 ft bgs it was not safe to collect a sludge sample with available trench shield.	NA	Acid waste line	NA
					10 ft excavations proposed at approximately 250-ft intervals along acid waste line.					1/unknown	No sample taken	One 1-in. diameter steel line located at 4-ft bgs trending east-west and positioned 47-ft south of AW01 and 13-ft north of UN02. This steel line was believed to be a water line. No samples were collected due to the nature of the line.	NA	Unknown line	NA
					10 ft excavations proposed at approximately 250-ft intervals along acid waste line.					2/unknown	No sample taken	One 6-in. diameter black corrugated pipe located 4-ft bgs trending east-west and positioned 13-ft south of UN01 and 35-ft north of the south trench wall. No samples were collected due to the nature of the line, which was believed to be installed post government.	NA	Unknown line	NA
X92	Targeted and test pit	AW	South of M Street	UAL-1, UAL-2, UAL-3	10 ft excavations proposed at approximately 250-ft intervals along acid waste line.	A small amount of sludge and liquid was observed throughout the acid waste line during the camera survey. The up gradient portion of the line contained only a small amount of liquid. The down gradient portion of the line was filled with liquid.	1	1	1	AW01	C7-CWM-WW-X92-AW01-12 C7-CWM-SO-X92-AW01-14	One unknown diameter pipe encased in concrete foundation located 12-ft bgs and trending east-west. A soil sample was collected from beneath the concrete foundation at 14-ft bgs. A ram hoe attachment was utilized to gain access to the interior of the pipe. A wastewater sample was collected from the interior of the pipe. No sludge was present.	NA	Acid waste line	NA

TABLE 2-2 SUMMARY OF PROPOSED AND ACTUAL EXCAVATIONS AND SAMPLE LOCATIONS FOR THE REMEDIAL INVESTIGATION OF FORMERLY USED UNDERGROUND UTILITY LINES ON WASTE MANAGEMENT PROPERTY

Proposed Sampling Program from SAP										Actual Sampling Program						
Excavation Number	Type of Excavation	Targeted Line Types	Area	Camera Access Point Description	Proposed Excavation Location - Direction and Distance From Camera Access Point or Other Site Feature	Target/Collection Point	Proposed Number of Soil Samples	Proposed Number of Sludge Samples	Proposed Number of Wastewater Samples	Number and Type of Lines Encountered	Associated Sample Designation (s)	Description	Camera Survey Point Number (from non-intrusive investigation)	Reassessment of Line Type Based on Observation and Comparison to Historical Drawings	Notes
X93	Targeted and test pit	AW	South of M Street	UAL-1, UAL-2, UAL-3	10 ft excavations proposed at approximately 250-ft intervals along acid waste line.	A small amount of sludge and liquid was observed throughout the acid waste line during the camera survey. The up gradient portion of the line contained only a small amount of liquid. The down gradient portion of the line was filled with liquid.	1	1	1	No lines found	No sample taken	A trench 20-ft long by 44-in. wide and 15-ft deep was excavated with the discovery of no underground lines. (H drainage ditch limited excavation to the south).	NA	No lines found	NA
X94	Targeted and test pit	AW	South of M Street	UAL-1, UAL-2, UAL-3	10 ft excavations proposed at approximately 250-ft intervals along acid waste line.	A small amount of sludge and liquid was observed throughout the acid waste line during the camera survey. The up gradient portion of the line contained only a small amount of liquid. The down gradient portion of the line was filled with liquid.	1	1	1	AW01	C7-CWM-WW-X94-AW01-10 C7-CWM-SO-X94-AW01-10 C7-CWM-SL-X94-AW01-10	One 36-inch diameter pipe encased in concrete foundation located 9-ft bgs and trending NW-SE. A soil sample was collected from beneath the concrete foundation at 10-ft bgs. A ram hoe attachment was utilized to access the interior of the pipe. The wastewater and sludge samples were collected from within the pipe.	UAL-1	Acid waste line	NA
X95	Targeted and test pit	AW	South of M Street	UAL-1, UAL-2, UAL-3	10 ft excavations proposed at approximately 250-ft intervals along acid waste line.	A small amount of sludge and liquid was observed throughout the acid waste line during the camera survey. The up gradient portion of the line contained only a small amount of liquid. The down gradient portion of the line was filled with liquid.	1	1	1	AW01	C7-CWM-WW-X95-AW01-10 C7-CWM-SO-X95-AW01-11	One 36-inch diameter pipe encased in concrete foundation located 10-ft bgs and trending NW-SE. A soil sample was collected from beneath the concrete foundation at 11-ft bgs. The wastewater sample was extracted from acid waste manhole (UAL-1) which was positioned to the NW. No sludge was present within the manhole.	UAL-1	Acid waste line	NA
X96	Targeted and test pit	AW	South of M Street	UAL-1, UAL-2, UAL-3	10 ft excavations proposed at approximately 250-ft intervals along acid waste line.	A small amount of sludge and liquid was observed throughout the acid waste line during the camera survey. The up gradient portion of the line contained only a small amount of liquid. The down gradient portion of the line was filled with liquid.	1	1	1	AW01	C7-CWM-WW-X96-AW01-9 C7-CWM-SO-X96-AW01-10 C7-CWM-SL-X96-AW01-9	One 36-inch diameter pipe encased in concrete foundation located 9-ft bgs and trending NW-SE. A soil sample was collected from beneath the concrete foundation at 10-ft bgs. A ram hoe attachment was utilized to access the interior of the pipe for sludge sample extraction. The wastewater sample was extracted from Acid Waste Manhole (UAL-2) which was positioned to the SE. An explosive residue field test for nitrate based explosives tested positive in swipes taken from the wastewater samples. The soil sample swipe was negative.	UAL-2	Acid waste line	NA
X97	Targeted and test pit	SN	South of M Street	SN-14, SN-15, SN-16	10 ft excavations proposed at approximately 250-ft intervals along the sanitary sewer line.	Small amounts of sludge and liquid were observed throughout the sanitary sewer.	1	1	1	SN01	C7-CWM-WW-X97-SN01-14 C7-CWM-SO-X97-SN01-12 (sample collected at 15 ft) C7-CWM-SL-X97-SN01-11 (sample collected at 14 ft)	One 30-inch diameter pipe encased in concrete foundation located 14-ft bgs and trending east-west. A soil sample was collected from beneath the concrete foundation at 15-ft bgs. The wastewater and sludge samples were extracted from Sanitary Sewer Manhole (SN-16) which was positioned 10-ft to the east.	SN-16	Sanitary sewer line	Historical Drawing No. 100-15. No other (unknown) lines are expected to be present in these excavations.
X98	Targeted and test pit	SN	South of M Street	SN-14, SN-15, SN-16	10 ft excavations proposed at approximately 250-ft intervals along the sanitary sewer line.	Small amounts of sludge and liquid were observed throughout the sanitary sewer.	1	1	1	SN01	C7-CWM-WW-X98-SN01-14 C7-CWM-SO-X98-SN01-15	One 30-inch diameter pipe encased in concrete foundation located 14-ft bgs and trending east-west. A soil sample was collected from beneath the concrete foundation at 15-ft bgs. A drill was utilized to gain access to the interior for wastewater samples collection. Sludge sample was not feasible without a large liquid release.	SN-16	Sanitary sewer line	NA
X99	Targeted and test pit	SN	South of M Street	SN-14, SN-15, SN-16	10 ft excavations proposed at approximately 250-ft intervals along the sanitary sewer line.	Small amounts of sludge and liquid were observed throughout the sanitary sewer.	1	1	1	SN01	C7-CWM-WW-X99-SN01-14 C7-CWM-SO-X99-SN01-15	On 30-inch diameter pipe encased in concrete foundation located 14-ft bgs and trending east-west. A soil sample was collected from beneath the concrete foundation at 15-ft bgs. A drill was utilized to gain access to the interior for wastewater samples collection. Sludge sample was not feasible without a large liquid release.	NA	Sanitary sewer line	NA
X100	Targeted and test pit	SN	South of M Street	SN-14, SN-15, SN-16	10 ft excavations proposed at approximately 250-ft intervals along the sanitary sewer line.	Small amounts of sludge and liquid were observed throughout the sanitary sewer.	1	1	1	SN01	C7-CWM-WW-X100-SN01-11 (sample collected from 14 ft bgs) C7-CWM-SO-X100-SN01-15	One 30-inch diameter pipe encased in concrete foundation located 14-ft bgs and trending east-west. A soil sample was collected from beneath the concrete foundation at 15-ft bgs. The wastewater sample was extracted from the sanitary sewer manhole (SN-14) positioned to the east. Sludge sample was attempted from SN-14 with no success.	NA	Sanitary sewer line	NA
X101	Targeted and test pit	SN	South of M Street	SN-14, SN-15, SN-16	10 ft excavations proposed at approximately 250-ft intervals along the sanitary sewer line.	Small amounts of sludge and liquid were observed throughout the sanitary sewer.	1	1	1	SN01	C7-CWM-WW-X101-SN01-13.5 C7-CWM-SO-X101-SN01-14	One unknown diameter pipe encased in concrete foundation located 13.5-ft bgs and trending east-west. A soil sample was collected from beneath the concrete foundation at 14-ft bgs. A drill was utilized to gain access to the interior for wastewater samples collection. Sludge was not visible.	NA	Sanitary sewer line	NA
X102	Targeted and test pit	SN	South of M Street	SN-14, SN-15, SN-16	10 ft excavations proposed at approximately 250-ft intervals along the sanitary sewer line.	Small amounts of sludge and liquid were observed throughout the sanitary sewer.	1	1	1	Not Excavated	Not Excavated	Excavation was located beneath a soil stock pile, therefore location was abandoned.	NA	Not Excavated	NA
X103	Targeted and test pit	SN	South of M Street	SN-14, SN-15, SN-16	10 ft excavations proposed at approximately 250-ft intervals along the sanitary sewer line.	Small amounts of sludge and liquid were observed throughout the sanitary sewer.	1	1	1	SN01	C7-CWM-WW-X103-SN01-12 C7-CWM-SO-X103-SN01-13 C7-CWM-SL-X103-SN01-12	One pipe encased in concrete foundation located 10-ft bgs and trending NE-SW. A soil sample was collected from beneath the concrete foundation at 13-ft bgs. The wastewater and sludge samples were extracted from a sanitary sewer manhole positioned 9-ft to the southwest.	NA	Sanitary sewer line	NA
X104	Targeted and test pit	SN	South of M Street	SN-14, SN-15, SN-16	10 ft excavations proposed at approximately 250-ft intervals along the sanitary sewer line.	Small amounts of sludge and liquid were observed throughout the sanitary sewer.	1	1	1	SN01	C7-CWM-WW-X104-SN01-13 C7-CWM-SO-X104-SN01-14	One unknown diameter pipe encased in concrete foundation located 12-ft bgs and trending NE-SW. A soil sample was collected from beneath the concrete foundation at 14-ft bgs. A drill was utilized to access the interior for wastewater sample collection. Due to hydraulic head on water within pipe, sludge could not be accessed.	NA	Sanitary sewer line	NA
X105	Targeted and test pit	SN	South of M Street	SN-14, SN-15, SN-16	10 ft excavations proposed at approximately 250-ft intervals along the sanitary sewer line.	Small amounts of sludge and liquid were observed throughout the sanitary sewer.	1	1	1	SN01	C7-CWM-WW-X105-SN01-12 C7-CWM-SO-X105-SN01-12	One 30inch diameter pipe encased in concrete foundation located 12-ft bgs and trending north-south. A soil sample was collected from beneath the concrete foundation at 12-ft bgs. A drill was utilized to gain access to the interior for wastewater samples collection. Sludge was not present in adequate quantities for collection.	SN-15	Sanitary sewer line	NA
X106	Targeted and test pit	SN	South of M Street	SN-14, SN-15, SN-16	10 ft excavations proposed at approximately 250-ft intervals along the sanitary sewer line.	Small amounts of sludge and liquid were observed throughout the sanitary sewer.	1	1	1	SN01	C7-CWM-WW-X106-SN01-10 C7-CWM-SO-X106-SN01-14 C7-CWM-SL-X106-SN01-16	One 30-inch diameter pipe encased in concrete foundation located 10-ft bgs and trending north-south. A soil sample was collected from beneath the concrete foundation at 14-ft bgs. The wastewater and sludge samples were extracted from sanitary sewer manhole (SN-15) which was positioned to the north.	SN-15	Sanitary sewer line	NA
X107	Targeted	UN	Central NIKE Base	NA	20 ft long east-west trending excavation through linear anomaly observed during EM survey of northern portion of central area. See Figure 5-14a for coordinates of center of excavation.	Target possible utility observed during EM survey.	1	1	1	1/unknown	C7-CWM-WW-X107-UN01-3.5 C7-CWM-SO-X107-UN01-4	One 4-in. diameter steel pipe located 3.5-ft bgs and trending NW-SE. A soil sample was collected from beneath the pipe at 4-ft bgs. A chop saw was utilized to gain access to the interior for wastewater samples collection. Sludge was not visible. An explosive residue field test for nitrate based explosives tested positive in swipes taken from the wastewater samples. The soil sample swipe was negative.	NA	Unknown line	No historical drawings are available for the NIKE Base area.

TABLE 2-2 SUMMARY OF PROPOSED AND ACTUAL EXCAVATIONS AND SAMPLE LOCATIONS FOR THE REMEDIAL INVESTIGATION OF FORMERLY USED UNDERGROUND UTILITY LINES ON WASTE MANAGEMENT PROPERTY

Proposed Sampling Program from SAP										Actual Sampling Program					
Excavation Number	Type of Excavation	Targeted Line Types	Area	Camera Access Point Description	Proposed Excavation Location - Direction and Distance From Camera Access Point or Other Site Feature	Target/Collection Point	Proposed Number of Soil Samples	Proposed Number of Sludge Samples	Proposed Number of Wastewater Samples	Number and Type of Lines Encountered	Associated Sample Designation (s)	Description	Camera Survey Point Number (from non-intrusive investigation)	Reassessment of Line Type Based on Observation and Comparison to Historical Drawings	Notes
X108	Targeted	UN	Central NIKE Base	NA	20 ft long east-west trending excavation through linear anomaly observed during EM survey of southern portion of central area. See Figure 5-14a for coordinates of center of excavation. This excavation will be performed approximately 40 ft north of a dirt access road trending northeast-southwest through the area.	Target possible utility observed during EM survey.	1	1	1	1/unknown	C7-CWM-WW-X108-UN01-3.5 C7-CWM-SO-X108-UN01-4	One 4-in. diameter steel pipe located 3.5-ft bgs and trending NE-SW. A soil sample was collected from beneath the pipe at 4-ft bgs. A chop saw was utilized to gain access to the interior for wastewater samples collection. Sludge was not visible.	NA	Unknown line	No historical drawings are available for the NIKE Base area.
X109	Targeted	UN	Southern NIKE Base	NA	25 ft long east-west trending excavation located 10 ft north of the access road at the NIKE Base. The center of the excavation should be located 126 ft north and 50 ft east of the northeast corner of the Barracks Building.	Target possible lines observed during the pipe and cable trace.	2	2	2	1/unknown	C7-CWM-WW-X109-UN01-3.5 C7-CWM-SO-X109-UN01-4	One 4-in. diameter steel pipe located 3.5-ft bgs trending north-south and positioned 5-ft east of the west trench wall. The trench was located 6-ft north of the Nike Base Access Road. A soil sample was collected from beneath the pipe at 4-ft bgs. A chop saw was utilized to gain access to the interior for wastewater samples collection. Sludge was not visible. An explosive residue field test for nitrate based explosives tested positive in swipes taken from the wastewater samples. The soil sample swipe was negative.	NA	Unknown line	No historical drawings are available for the NIKE Base area.
X110	Test pit	UN	Southern NIKE Base	U-19	Excavations on each side of the presumed sewage treatment silo.	Target possible lines exiting the silo.	1	1	1	No lines found	No sample taken	A trench 30-ft long by 2-ft wide and 8-ft deep was excavated with the discovery of no underground lines. The trench was positioned 20-ft east of Building E (Silo).	NA	No lines found	No historical drawings are available for the NIKE Base area.
X111	Test pit	UN	Southern NIKE Base	U-19	Excavations on each side of the presumed sewage treatment silo.	Target possible lines exiting the silo.	1	1	1	Cable line	No sample taken	One ¼-in. black cable line was located at 5-ft bgs trending NE-SW. The trench was positioned 10-ft south of Building E (silo). The cable possible originated from Building E (silo).	NA	Cable Line	NA
X112	Test pit	UN	Southern NIKE Base	U-19	Excavations on each side of the presumed sewage treatment silo.	Target possible lines exiting the silo.	1	1	1	No lines found	No sample taken	A trench 20-ft long by 2-ft wide and 8-ft deep was excavated with the discovery of no underground lines. The trench was positioned 15-ft west of Building E (Silo).	NA	No lines found	NA
X113	Test pit	UN	Southern NIKE Base	U-19	Excavations on each side of the presumed sewage treatment silo.	Target possible lines exiting the silo.	1	1	1	1/unknown	C7-CWM-S0-X113-UN01-4 C7-CWM-WW-X113-UN01-3.5	One 4-in. diameter cast iron line located 4-ft bgs and trending NE-SW. The UN01 line connects to UN02 to the southwest by elbowing 90 degrees up .5-ft. The UN02 pipe branches into several directions- one continues southwest and the other trends towards Building E (silo). An additional excavation was attempted to intersect the UN01 line trending NE. The excavation revealed no discoveries. A soil sample was collected from beneath the line at 4-ft bgs. A chop saw was utilized to gain access to the interior for wastewater sample collection. Sludge was not present.	U-19	Unknown line	NA
										2/unknown	C7-CWM-SO-X113-UN02-3	One 4-in. diameter cast iron/terracotta pipe located 3-ft bgs and trending NE-SW. The UN02 pipe connects to UN01 to the northeast. The UN01 elbows up .5-ft to intersect with UN02. The UN02 trend converts to terracotta approximately 28-ft to the southwest. A 4-in. diameter terracotta 90 degree elbow was found loose near the end of the UN02 southwest trend. At the intersection of UN01 and UN02, the UN02 pipe also branches towards Building E (silo) which is positioned 20-ft to the southeast. No wastewater or sludge was visible.	U-19	Unknown line	NA
										DW01	C7-CWM-SL-X113-DW03-11	This sludge sample was collected from the bottom of the liquid reservoir within the Building E (silo).	U-19	Sump Line	NA
X114	Targeted	UN, SN	Southern NIKE Base	SN-4	25 ft long east-west trending excavation placed 10 ft south of and parallel to Building A. Excavation length should mirror the building length.	Target unknown (probable sanitary sewer) line exiting Building A. Camera survey indicated line was full of liquid and contained some sludge. Additional unknown lines may be encountered.	2	2	2	SN01	C7-CWM-SO-X114-SN01-1.5	One 4-in. diameter transite line located 1.5-ft bgs and trending north-south. The SN01 line most likely originated from Building A which is positioned 17-ft to the north. Just south of the trench, the line makes a 90 degree turn to the east. Further excavations revealed the line connects to the sump at excavation 116. A soil sample was collected from beneath the line. No wastewater or sludge was present.	SN-4	Sanitary sewer line	No historical drawings are available for the NIKE Base area.
										Electrical line	No sample taken	One 1-in. diameter electrical line located 3-ft bgs trending north-south and positioned 2-ft east of the west trench wall. The line appears to intersect with Building A which is 17-ft to the north.	NA	Electrical line	NA
X115	Targeted	UN	Southern NIKE Base	U-4	25 ft long east-west trending excavation placed 10 ft south of and parallel to Building B. Excavation length should mirror the building length. Excavation should also be extended north, parallel and 10 ft west of the west side of Building B.	Target unknown line exiting Building A. Camera survey indicated line had limited deposits and did not contain liquid. Additional unknown lines may be encountered. A possible linear anomaly was observed trending northwest from the west side of the building.	2	1	1	1/unknown	C7-CWM-SO-X115-UN01-1.5	One 4-in. diameter terracotta pipe located 1-ft bgs and trending NE-SW. The UN01 pipe appears to originate from Building B which is positioned to the northeast. The terracotta pipe SW trend connects to a 4-in. diameter terracotta pipe stick-up positioned approximately 19-ft southwest of Building B. The stick-up penetrates the ground 2-ftbgs before ending with a possible French drain system. A soil sample was collected from beneath the pipe 1.5-ft bgs. No wastewater or sludge was present.	U-4	Possible drain	No historical drawings are available for the NIKE Base area.
										Electrical line	No sample taken	One 1-in. diameter electrical line located 3-ft bgs trending northwest-southeast near the northwest corner of Building B.	NA	Electrical line	NA

TABLE 2-2 SUMMARY OF PROPOSED AND ACTUAL EXCAVATIONS AND SAMPLE LOCATIONS FOR THE REMEDIAL INVESTIGATION OF FORMERLY USED UNDERGROUND UTILITY LINES ON WASTE MANAGEMENT PROPERTY

Proposed Sampling Program from SAP										Actual Sampling Program					
Excavation Number	Type of Excavation	Targeted Line Types	Area	Camera Access Point Description	Proposed Excavation Location - Direction and Distance From Camera Access Point or Other Site Feature	Target/Collection Point	Proposed Number of Soil Samples	Proposed Number of Sludge Samples	Proposed Number of Wastewater Samples	Number and Type of Lines Encountered	Associated Sample Designation (s)	Description	Camera Survey Point Number (from non-intrusive investigation)	Reassessment of Line Type Based on Observation and Comparison to Historical Drawings	Notes
X116	Test pit	UN	Southern NIKE Base	NA	15 ft long north-south trending excavation placed 5 ft west of sump located southwest of Barracks Building.	Target possible lines originating within the sump.	1	1	1	DW01	C7-CWM-WW-X116-DW01-6 C7-CWM-SO-X116-DW01-7 C7-CWM-SL-X116-DW01-3	One 6-in. diameter steel pipe located 6-ft bgs and originating from a 5-ft by 3-ft subsurface concrete sump. The soil sample was collected from beneath the pipe at 7-ft bgs. The wastewater was extracted from the interior of the pipe. The sludge sample was collected from within the sump pit.	NA	Sump Line	No historical drawings are available for the NIKE Base area.
										1/unknown	C7-CWM-SO-X116-UN01-4.5 C7-CWM-WW-X116-UN01-4	One 4-in. diameter steel pipe located 4-ft bgs originating from the sump and trending east. A soil sample was collected from beneath the pipe at 4.5-ft bgs. A wastewater sample was collected from the interior of the pipe. Sludge was not visible.	NA	Unknown line	NA
										2/unknown	C7-CWM-SO-X116-UN02-4.5 C7-CWM-WW-X116-UN02-4	One 4-in. diameter terracotta pipe located 4-ft bgs originating from the sump and trending south. The UN02 pipe appears to line up directly with UN01 from Excavation 20. A soil sample was collected from beneath the pipe at 4.5-ft bgs. A wastewater sample was collected from the interior of the pipe. Sludge was not visible.	NA	Unknown line	NA
										3/unknown	C7-CWM-SO-X116-UN03-4.5 C7-CWM-WW-X116-UN03-4	One 4-in. diameter transite pipe located 4-ft bgs originating from the sump and trending north. The UN03 pipe trends north for 54-ft before changing direction to the west. The 90 degree elbow is made of cast iron; the UN01 pipe converts back to transite before continuing west. Several smaller excavations were made successfully intersecting with the UN03 pipes path. The UN03 transite pipe became shallower with each excavation in the westerly direction. The UN03 pipe is most likely connected to SN01 from Excavation 114. A soil sample was collected from beneath the pipe at 4.5-ft bgs. A wastewater sample was collected from the interior of the pipe. Sludge was not visible.	NA	Unknown line	NA
X117	Test pit	UN	Southern NIKE Base	U-30	15 ft long northeast-southwest excavation placed 10 ft from the manhole located south of the Barracks Building.	Target soil beneath possible lines originating in manhole. Sludge and wastewater sample may be collected from within the manhole.	1	1	1	1/unknown	C7-CWM-SO-X117-UN01-3 C7-CWM-SL-X117-UN01-4	One 6-in. diameter steel pipe located 3-ft bgs and originating from manhole (U-30) trending in a north direction towards the barrack. A soil sample was collected from beneath the pipe at 3-ft bgs. A sludge sample was extracted from the manhole (U-30) positioned 5-ft to the south. Wastewater was not present. *The manhole appeared to have a discharge or overflow pipe located at* 4-ft bgs within the manhole on the west side, could possible be UN01 from X116.	U-30	Unknown line, possibly related to sanitary sewer system	No historical drawings are available for the NIKE Base area.
X118	Test pit	UN	Southern NIKE Base	NA	15 ft long north-south trending excavation placed 5 ft east of manhole located near berm in the western portion of the control area, southwest of Building B.	Target soil beneath possible lines discharging to manhole. Sludge and wastewater sample may be collected from with the manhole.	2	1	1	1/unknown	C7-CWM-SO-X118-UN01-4.5 C7-CWM-WW-X118-UN01-4 C7-CWM-SL-X118-UN01-5	One 24-in. diameter concrete pipe located 3-ft bgs originating from a concrete manhole valve station trending in an east direction. The valve station positioned along an embankment had a large hand wheel protruding from the concrete foundation which appears to be a valve to control liquid flow into a drainage ditch. Wastewater and sludge sample were collected from the valve station sump. A soil sample was collected from beneath the concrete line.	NA	Unknown line, possible site drainage	No historical drawings are available for the NIKE Base area.
X119	Targeted	UN, SN	Southern NIKE Base	SN-3	15 ft long east-west trending excavation placed 10 ft north of Building C. East end of excavation should intercept anomaly observed during EM survey.	Target unknown (probable sanitary sewer) line exiting Building A. Camera survey indicated line was full of liquid and contained some sludge. Additional unknown lines may be encountered. Also target anomaly located 10 ft north of building.	2	2	2	1/unknwon	C7-CWM-SO-X119-UN01-4.5 C7-CWM-WW-X119-UN01-4	One 4-in. diameter transite pipe located 4-ft bgs trending north-south. A soil sample was collected from beneath the pipe at 4.5-ft bgs. A wastewater sample was collected from the interior of the pipe. Sludge was not visible.	SN-3	Unknown line	Some unconsolidated, deteriorated asphalt may require removal from the surface in the area of the anomaly.
X120	Test pit	UN, SN	Southern NIKE Base	SN-3	15 ft long east-west trending excavation placed approximately 180 ft north of Building C. *Excavation should intercept northern extension* of line associated with excavation 119.	Target unknown (probable sanitary sewer) line exiting Building A. Camera survey indicated line was full of *liquid and contained some sludge. A*	1	1	1	1/unknown	C7-CWM-SO-X120-UN01-4.5 C7-CWM-WW-X120-UN01-4	One 4-in. diameter transite pipe located 4-ft bgs trending north-south. A soil sample was collected from beneath the pipe at 4.5-ft bgs. A wastewater sample was collected from the interior of the pipe. Sludge was not visible.	NA	Unknown line	No historical drawings are available for the NIKE Base area.
										Electrical line	No sample taken	One 1-in. diameter electrical line located 3.5-ft bgs trending north-south and positioned 7.5-ft west of the east trench wall.	NA	Electrical line	NA
X121	Targeted	UN, W	Southern NIKE Base	NA	15 ft long east-west trending excavation placed 35 ft north of Building D. West end of excavation should be 40 ft north and 5 ft west of the northwest corner of Building D.	Target possible unknown line originating from Building D. If water line is encountered, assess bedding material.	1	1	1	1/unknown	C7-CWM-SO-X121-UN01-12 C7-CWM-WW-X121-UN01-11	One approximately 4-in. diameter transite pipe located 11-ft bgs trending north-south and positioned 9-ft west of W01. The trench was positioned 40-ft north of Building D. A soil sample was collected from beneath the pipe at 12-ft bgs. A wastewater sample was collected from the interior of the pipe. Sludge was not visible.	NA	Unknown line	No historical drawings are available for the NIKE Base area.
										W01	No sample taken	One 1-in. diameter steel water line located 4-ft bgs trending north-south and positioned 9-ft west of UN01. No samples were collected due to the nature of the line.	NA	Water line	NA
X122	Test pit	UN	Southern NIKE Base	NA	15 ft long east-west trending excavation placed approximately 200 ft north of Building C. Excavation should intercept northern extension of line associated with excavation 121.	Target unknown line originating from Building D.	1	1	1	No lines found	No sample taken	A trench 25-ft long by 2-ft wide and 12-ft deep was excavated with the discovery of no underground lines. A 40-ft by 27-ft area south of the excavation had a rock filter/French drain located 3-4-ft bgs, and 1-2-ft thick.	NA	No lines found	No historical drawings are available for the NIKE Base area.
X123	Test pit	UN	Southern NIKE Base	NA	15 ft long east-west trending excavation. Center of excavation should be placed 30 ft north and 18 ft west of northwest corner of Building D.	Exploratory test pit to evaluate EM anomaly. Underground lines may not be encountered.	1	1	1	1/unknown	No sample taken	One 2-in. diameter conduit line located at 1-ft bgs trending north-south and positioned 10-ft east of the telephone near Building D. The underground line was broken at both ends. Previous Geophysical investigations data possibly led to targeting this underground anomaly for excavation. No samples were collected.	NA	Unknown line	No historical drawings are available for the NIKE Base area.
X124	Test pit	UN	Southern NIKE Base	NA	15 ft long east-west trending excavation. Center of excavation should be placed 15 ft south and 15 ft east of southeast corner of Building D.	Exploratory test pit to evaluate EM anomaly. Underground lines may not be encountered.	1	1	1	Not Excavated	No sample taken	This excavation was not attempted due to several inches of rain water covering the targeted area.	NA	Not Excavated	No historical drawings are available for the NIKE Base area.

TABLE 2-2 SUMMARY OF PROPOSED AND ACTUAL EXCAVATIONS AND SAMPLE LOCATIONS FOR THE REMEDIAL INVESTIGATION OF FORMERLY USED UNDERGROUND UTILITY LINES ON WASTE MANAGEMENT PROPERTY

Proposed Sampling Program from SAP											Actual Sampling Program						
Excavation Number	Type of Excavation	Targeted Line Types	Area	Camera Access Point Description	Proposed Excavation Location - Direction and Distance From Camera Access Point or Other Site Feature	Target/Collection Point	Proposed Number of Soil Samples	Proposed Number of Sludge Samples	Proposed Number of Wastewater Samples	Number and Type of Lines Encountered	Associated Sample Designation (s)	Description	Camera Survey Point Number (from non-intrusive investigation)	Reassessment of Line Type Based on Observation and Comparison to Historical Drawings	Notes		
X125	Targeted	UN	Southern NIKE Base	NA	20 ft long north-south trending excavation parallel to and 10 ft west of the west wall of Building D. The length of the excavation should mirror the length of the building.	Exploratory test pit to evaluate linear EM anomaly trending west from the building.	1	1	1	1/unknown	C7-CWM-WW-X125-UN01-2	A wastewater sample was extracted from manhole (U-6) located west of Building D. Soil and sludge was not present.	NA	Unknown line	No historical drawings are available for the NIKE Base area.		
										2/unknown	C7-CWM-SO-X125-UN02-1	One 1.5-in diameter steel pipe located 1-ft bgs and trending east-west. The pipe appears to originate from Building D which is to the east. The line discharges into a small unmarked drainage ditch to the west of the excavation. A soil sample was collected from beneath the line. No wastewater/sludge was present.	NA	Unknown line, drain line	NA		
X126	Not originally included in proposed sampling and analysis program.									UST Lines	No sample taken	During previous investigations this area exhibited a geophysical anomaly suspected of being a UST. Suspected vent/supply lines originating from Building C were trending north. At 24-ft north of Building C a large UST was discovered. The UST is approximately 7-ft wide by 7-ft deep and estimated 14-ft long (possibly longer). The northwest portion of the UST was covered with a large concrete mound. This concrete mound was formed around a large tree which was preventing access to determine the length. No samples were collected.	NA	UST Line	NA		
X127	Not originally included in proposed sampling and analysis program.									No lines found	No sample taken	A trench 31-ft long by 2-ft wide and 12-ft deep was excavated with the discovery of no underground lines. The trench was positioned 40-ft east of Building E (silo).	NA	No lines found	NA		

Sample designation is a concatenation of the following:
Operable Unit C7 = underground utilities
Property Owner - SOM = Somerset Group
CWM = Waste Management LLC
LEW = Town of Lewiston
OCC = Multiple owners along the 30-in. outfall line (majority of samples collected on Occidental Chemical Corporation [OCC] property)
Matrix SS = Surface Soil
Location X## = Sequentially numbered excavation for a particular property

Line Type WW = Wastewater line
SN = Sanitary Sewer
ST = Storm line
UN = Unknown line type
AC = Acid Waste line
CW = Chemical Waste line
DW = Drain, sump, pit, vault or tank
WP, WC = potable or cooling water

TABLE 2-3 SUMMARY OF PROPOSED AND ACTUAL EXCAVATIONS AND SAMPLE LOCATIONS FOR THE REMEDIAL INVESTIGATION OF FORMERLY USED UNDERGROUND UTILITY LINES ON TOWN OF LEWISTON PROPERTY

Proposed Sampling Program										Actual Sampling Program					
Excavation Number	Type of Excavation	Targeted Line Types	Area	Camera Access Point Description	Proposed Excavation Location - Direction and Distance From Camera Access Point or Other Site Feature	Target/Collection Point	Proposed Number of Soil Samples	Proposed Number of Sludge Samples	Proposed Number of Wastewater Samples	Number and Type of Lines Encountered	Associated Sample Designation (s)	Description	Camera Survey Point Number (from non-intrusive investigation)	Reassessment of Line Type Based on Observation and Comparison to Historical Drawings	Notes
X01	Targeted	SN, W	WWTP	NA	15 ft long northeast-southwest trending excavation. Center of excavation should be placed 200 ft due east of existing manhole north of demolished pumping station. Excavation should be approximately 10 ft west of west edge of Lutts Road to capture water line.	Target 30-in. vitreous clay sanitary sewer line for sampling. Depth of line will be confirmed by exploring (sounding with a weighted measuring tape) the manhole located north of the demolished pumping station. The line is expected to be full of liquid and will likely have separations at the seams resulting in leakage. Water line is the main 42-in. diameter intake line for the former AFP-68. Line terminates in a 1,000,000 gallon reservoir located in Area 22. Care should be taken to not break this line. Assess bedding material of line.	1	1	1	SN01	C7-LEW-SO-X01-SN01-16 C7-LEW-GW-X01-SN01-14 (this is actually a wastewater sample)	One 30-in. diameter terracotta pipe encased in concrete located 12-ft bgs. The 30-in. pipe trends east-west. The concrete surrounding the terracotta pipe was 4-ft deep by 4-ft wide with the terracotta pipe positioned in the middle of the concrete foundation. A soil sample was collected from beneath the concrete frame at 16-ft bgs. A small crack in the north side of the concrete allowed for wastewater collection. No sludge was visible. Line placement and size agrees with information on Drawing 324-14-4.	NA	Sanitary Sewer Line (Drawing 324-14-4).	See Drawing Number 324-14-04.
X02	Targeted	SN	WWTP	NA	15 ft long north-south trending excavation placed 15 ft west of manhole located north of demolished pumping station.	Target 8-in. diameter overflow line that transferred liquid from sludge bed and venturi vault into pumping station. Inspect manhole located north of pumping station prior to excavation to evaluate whether the penetration into the manhole is visible. Inspect venturi vault for liquid and discharge into targeted line. Line is expected to be full of liquid and under hydraulic pressure.	1	1	1	SN01	C7-LEW-SO-X02-SN01-10 C7-LEW-WW-X02-SN01-9	One 8-in. diameter terracotta pipe located 9-ft bgs and trending east-west. The pipe was located near the south trench wall. A sanitary sewer manhole was located 5-ft east of the upper NE corner of the trench. A soil sample was collected from beneath the pipe at 10-ft bgs. The wastewater sample was collected directly from the terracotta pipe. No sludge was visible.	NA	Sanitary sewer line overflow (Drawing 324-14-4).	See Drawing Number 324-14-04.
										2/Water lines (W01 and W02)	No samples taken	Two approximately 4-in. diameter steel pipes located at 4-ft bgs trending east-west and positioned 6-ft south of the north trench wall. The pipes were not targeted for investigation and were thought to be water lines (based on review of Drawing 324-14-4. The pipes were lined with #2 stone bedding material.	NA	Drinking and Cooling Water Lines (Drawing 324-14-4).	See Drawing Number 324-14-04.
X03	Targeted	SN	WWTP	NA	15 ft long northeast-southwest trending excavation. Center of excavation will be placed 15 ft due west of venturi vault.	Target 6 in. diameter sludge bed effluent line and 16-in. diameter steel venturi line. Lines are expected to contain liquid and sludge. The venturi line is expected to be under hydraulic pressure. Inspect area for possible presence of manholes prior to excavation (for example, manholes E and G as depicted on historical drawing).	2	2	2	SN01	C7-LEW-SO-X03-SN01-6 C7-LEW-SL-X03-SN01-5.5C7-LEW-SO-X03-SN01-6 C7-LEW-SL-X03-SN01-5.5	One 6-in. diameter terracotta pipe located 5.5-ft bgs trending north-south and positioned 5-ft west of the east trench wall. The terracotta pipe was slightly cracked during excavation operations. A soil sample was collected from beneath the pipe at 6-ft bgs. The interior of the pipe contained an adequate amount of sludge to collect a sample. No wastewater was encountered.	NA	NA	Possible chlorine tube or sanitary sewer line from sludge bed (Drawing 324 14-4).
X04	Targeted	SN	WWTP	NA	15 ft long east-west trending excavation. Center of excavation should be placed 5 ft north of the northwest corner of the chlorine contact tank.	Target 18-in. chlorinated effluent pipe from collection tank to contact tank. Line may be filled with liquid. Inspect contact tank and collection tank for presence and depth to liquid prior to excavation.	1	1	1	SN01	C7-LEW-SO-X04-SN01-4	One 18-in. diameter terracotta pipe encased in a 3-ft by 3-ft foundation slab encountered at 1-ft bgs and trending north-south. The soil sample was collected from beneath the concrete foundation at 4-ft bgs. No wastewater was present. Note that a sludge sample was collected from the Chlorine Tank located 10-ft to the south.	NA	Sanitary sewer line from chlorine contact tank to collection tank (Drawing 324-14-4).	See Drawing Number 324-14-04.
X05	Targeted	SN	WWTP	NA	15 ft long east-west trending excavation. Center of excavation should be placed 40 ft north of the northwest corner of the chlorine contact tank.	Target 18-in. chlorinated effluent pipe from collection tank to contact tank. Line may be filled with liquid. Inspect contact tank and collection tank for presence and depth to liquid prior to excavation.	1	1	1	SN01	C7-LEW-SO-X05-SN01-5 C7-LEW-WW-X00-DW01-4	One 18-in. diameter terracotta pipe encased in 3-ft by 3-ft concrete encountered at 1-ft bgs and trending north-south. A soil sample was collected at 5-ft bgs. The collection tank was located 5-ft to the north. The collection tank had a small amount of water in the bottom, which was also in the bottom of the 18-inch line. To prevent the draining of the collection tank, a water sample was collected from inside tank at 4-ft bgs (wastewater sample from DW01). (During the sampling of the WWTP Tanks, a sludge sample was collected from the Collection Tank[DW01] located 5-ft to the north).	NA	Sanitary sewer line from chlorine contact tank to collection tank (Drawing 324-14-4).	See Drawing Number 324-14-04.
X06	Targeted	AW	WWTP	NA	15 ft long north -south trending excavation. The center of the excavation should be placed 20 west of the southwest corner of the collection tank.	Target 24-in. diameter wood pipe trending from collection tank to mixing tank (removed). Line may be filled with liquid. Inspect collection tank for presence and depth to liquid prior to excavation. Wood pipe will likely be deteriorated.	1	1	1	AW01	C7-LEW-SO-X06-AW01-5.5	One 24-in. diameter wood line encased in concrete located 4-ft bgs trending east-west and positioned 7-ft from the north trench wall.' A soil sample was collected from beneath the concrete at 5.5-ft bgs. Could not recover sludge from within the line. A water sample was not collected from the collection tank, a sample was collected there during EX-5.	NA	Combined treated acid and sanitary sewer waste (Drawing 324-14-4).	See Drawing Number 324-14-04.
X07	Targeted	AW	WWTP	NA	15 ft long northwest -southeast trending excavation. The center of the excavation should be placed 10 ft northeast of the collection tank.	Target 24-in. diameter wood pipe trending from acid neutralization building (partially demolished) to the collection tank. Line may be filled with liquid. Inspect collection tank for presence and depth to liquid prior to excavation. Wood pipe will likely be deteriorated.	1	1	1	AW01	C7-LEW-SO-X07-AW01-4 C7-LEW-SL-X07-AW01-3.5	One 24-in. diameter wood line encased in concrete located 1-ft bgs trending NE-SW from the acid neutralization building to the collection tank. A soil sample was collected from beneath the concrete foundation at 4-ft bgs. A sludge sample was collected approximately 10-15-ft deep into the pipe from the opening at the acid neutralization building. No wastewater was present in the line.	NA	Acid waste line from the acid neutralization building.	See Drawing Number 324-14-04.

TABLE 2-3 SUMMARY OF PROPOSED AND ACTUAL EXCAVATIONS AND SAMPLE LOCATIONS FOR THE REMEDIAL INVESTIGATION OF FORMERLY USED UNDERGROUND UTILITY LINES ON TOWN OF LEWISTON PROPERTY

Proposed Sampling Program										Actual Sampling Program						
Excavation Number	Type of Excavation	Targeted Line Types	Area	Camera Access Point Description	Proposed Excavation Location - Direction and Distance From Camera Access Point or Other Site Feature	Target/Collection Point	Proposed Number of Soil Samples	Proposed Number of Sludge Samples	Proposed Number of Wastewater Samples	Number and Type of Lines Encountered	Associated Sample Designation (s)	Description	Camera Survey Point Number (from non-intrusive investigation)	Reassessment of Line Type Based on Observation and Comparison to Historical Drawings	Notes
X08	Targeted	AW	WWTP	NA	15 ft long east-west trending excavation. Center of excavation should be placed 8 ft northwest of existing acid waste manhole north of acid neutralization building.	Evaluate whether 24-in. diameter pipe ties into the acid neutralization building near existing manhole. If present, line is expected to be full of liquid, and will likely be under hydraulic pressure.	1	1	1	No line found	No samples taken	A 30-ft by 2-ft by 15-ft deep trench was excavated with no lines found.	NA	No Lines Found	See Drawing Number 324-14-04.
X09	Targeted	AW, W	WWTP	NA	15 ft long northeast-southwest trending excavation. Center of excavation should be placed 100 ft north of the access road to the WWTP. Excavation should be approximately 10 ft west of west edge of Lutts Road to capture water line.	Target 36-in. vitreous tile acid waste line for sampling. Depth of line will be confirmed by exploring (sounding with a weighted measuring tape) the manhole located north of the partially demolished acid neutralization building. The line is expected to be full of liquid and will likely have separations at the seams resulting in leakage. Water line is the main 42-in. diameter intake line for the former AFP-68. Line terminates in a 1,000,000 gallon reservoir located in Area 22. Care should be taken to not break this line. Assess bedding material of line.	1	1	1	AW01	C7-LEW-SO-X09-AW01-19 C7-LEW-WW-X09-AW01-18	One 36-in. diameter terracotta pipe encased in concrete located 18-ft bgs and trending east-west. A soil sample was collected from beneath the concrete. A wastewater sample was removed directly from the acid waste line. No sludge was visible.	NA	Acid waste line	See Drawing Number 324-14-04.
										W01	No samples taken	One 42-in. diameter concrete water pipe was discovered 8.5-ft bgs. The pipe trends north-south and is positioned along the west wall of the trench and connects to a million gallon reservoir located in AFP-68 Area 22. No samples were collected due to the nature of the line.	NA	Water Line	NA
X10	Test pit	WW	WWTP	NA	8 ft long north-south trending excavation. Center of excavation should be placed 12 ft north of the centerline of the north-south trending access road east of the partially demolished acid neutralization building.	Target the 42-in. reinforced concrete pipe overflow to the Western Drainage Ditch.	1	1	1	WW01	C7-LEW-SO-X10-WW01-6 C7-LEW-SL-X10-WW01-5	One 42-in. diameter concrete pipe was discovered 2.5-ft bgs. The pipe trends NE-SW and is positioned 15-ft from the west trench wall. A soil sample was collected from beneath the pipe at 6-ft bgs. A sludge sample was collected 10-15-ft deep in from the outfall into the western drainage ditch. No wastewater was present.	NA	Overflow line from acid waste sewer.	See Drawing Number 324-14-04.
X11	Not included in proposed sampling and analysis program.									AW01	C7-LEW-WW-X11-WW01-4 C7-LEW-SL-X11-WW01-4.5	One 24-in. diameter wood line encased in concrete 2.5 bgs trending east-west. An access hole was made by chop saw operations. The 24-in. diameter wooden pipe was also wrapped in steel bands surrounding the pipe. A wastewater and sludge samples were extracted from inside the pipe. A soil sample was not taken due to the proximity of X06. *An explosive residue field test for nitrate* based explosives tested positive in several swipes taken from the interior of the wooden pipe.	NA	Combined treated sanitary sewer and acid waste line from collection tank (Drawing 324-14-14).	NA
NA	NA	NA	WWTP	NA	No excavation proposed.	Grab samples are proposed to assess sludge and wastewater within the following structures at the WWTP: pump house, venturi vault, chlorine tank, southern sludge bed, collection tank, and acid neutralization building.	0	6	6	DW01	C7-LEW-WW-X00-DW01-4	Wastewater sample collected from WWTP collection tank.	NA	Combined sanitary sewer and acid waste collection tank (Drawing 324-14-4).	See Drawing Number 324-14-04.
										DW01	C7-LEW-SL-X00-DW02-6	Collected from Collection Tank at WWTP - This sample was collected from the same Collection Tank as the WW sample C7-LEW-WW-X00-DW01-4			
										DW01	C7-LEW-SL-X00-DW03-16	Collected from Chlorine Tank at WWTP			
										DW01	C7-LEW-SL-X00-DW04-1	Collected from sludge bed at WWTP			
										DW01	C7-LEW-SL-X00-DW05-15	Collected from the WWTP Imhoff tank			

Sample designation is a concatenation of the following:
Operable Unit C7 = underground utilities
Property Owner - SOM = Somerset Group
CWM = Waste Management LLC
LEW = Town of Lewiston
OCC = Multiple owners along the 30-in. outfall line (majority of samples collected on Occidental Chemical Corporation [OCC] property)
Matrix SS = Surface Soil
Location X## = Sequentially numbered excavation for a particular property

Line Type WW = Wastewater line
SN = Sanitary Sewer
ST = Storm line
UN = Unknown line type
AC = Acid Waste line
CW = Chemical Waste line
DW = Drain, sump, pit, vault or tank
WP, WC = potable or cooling water

TABLE 2-4 SUMMARY OF PROPOSED AND ACTUAL EXCAVATIONS AND SAMPLE LOCATIONS FOR THE REMEDIAL INVESTIGATION OF FORMERLY USED UNDERGROUND UTILITY LINES - 30-INCH OUTFALL LINE

Proposed Sampling Program										Actual Sampling Program				
Excavation Number	Type of Excavation	Targeted Line Types	Area	Camera Access Point Description	Proposed Excavation Location - Direction and Distance From Camera Access Point or Other Site Feature	Target/Collection Point	Proposed Number of Soil Samples	Proposed Number of Sludge Samples	Proposed Number of Wastewater Samples	Number and Type of Lines Encountered	Associated Sample Designation (s)	Description	Camera Survey Point Number (from non-intrusive investigation)	Reassessment of Line Type Based on Observation and Comparison to Historical Drawings
X01	Targeted	SN	30-in outfall	NA	6 ft long north-south trending excavations placed at approximately 250-ft intervals along the 30-in outfall line from the WWTP to the Southwest Drainage Ditch.	Collect sludge (if present) from within the annular space between the original concrete line and the plastic liner installed by the Town of Lewiston. If possible, collect wastewater from the same area. At the Southwest Drainage Ditch, collect a surface water and sediment sample from within the ditch where the 30-in. outfall crosses. The surface water and sediment samples should be submitted for DOD marker compounds only.	1	1	1	1/SN01	C7-OCC-SO-X01-SN01-7	One 30-in. diameter terracotta pipe encased in concrete located 6-ft bgs. The 30-in outfall pipe trends east-west. The concrete surrounding the terracotta pipe was a 2-ft by 2-ft and appeared to be newer because it contained rebar. Possibly previous excavation was conducted and old concrete was replaced with newer type. A soil sample was collected from beneath the concrete frame. The decision to try and gain access for sludge or wastewater was terminated due to the possibility of previous disturbance to the pipe.	NA	30-in. Outfall Line (combined sanitary sewer, treated acid waste, and TNT wastewater from WWTP)
X02-X04	Targeted	SN	30-in outfall	NA	Use existing manholes and GIS line coordinates to locate 30-in line.	Wastewater and sludge located between the original terracotta line and the more recently installed liner pipe.	3	3	3	1/SN01	C7-OCC-SO-X02-SN01-7, C7-OCC-SO-X03-SN01-7, C7-OCC-SO-X04-SN01-7	One 30-in. diameter terracotta pipe encased in concrete located 6-ft bgs. The 30-in outfall pipe trends east-west. The concrete surrounding the terracotta pipe was 4-ft deep by 4-ft wide with the terracotta pipe positioned in the middle of the concrete foundation. An excavator with a ram hoe attachment carefully removed the concrete to expose the terracotta pipe. A small access hole was also created for sample purposes. A ¾-in plastic liner was discovered within the 30-in terracotta pipe walls. A soil sample was collected from beneath the concrete frame. No wastewater or sludge was present.	NA	30-in. Outfall Line (combined sanitary sewer, treated acid waste, and TNT wastewater from WWTP)
X05	Targeted	SN	30-in outfall	NA	Use existing manholes and GIS line coordinates to locate 30-in line.	Wastewater and sludge located between the original terracotta line and the more recently installed liner pipe.	1	1	1	1/SN01	C7-OCC-SO-X05-SN01-7	One 30-in. diameter terracotta pipe encased in concrete located 6-ft bgs. The 30-in outfall pipe trends east-west. The concrete surrounding the terracotta pipe was 4-ft deep by 4-ft wide with the terracotta pipe positioned in the middle of the concrete foundation. An excavator with a ram hoe attachment carefully removed the concrete to expose the terracotta pipe. A small access hole was also created for sample purposes. A ¾-in plastic liner was discovered within the 30-in terracotta pipe walls. A soil sample was collected from beneath the concrete frame. Trace amounts of sludge and wastewater were present but not adequate for sample collection.	NA	30-in. Outfall Line (combined sanitary sewer, treated acid waste, and TNT wastewater from WWTP)
X06-X10	Targeted	SN	30-in outfall	NA	Use existing manholes and GIS line coordinates to locate 30-in line.	Wastewater and sludge located between the original terracotta line and the more recently installed liner pipe.	5	5	5	1/SN01	C7-OCC-SO-X06-SN01-6, C7-OCC-SO-X07-SN01-6, C7-OCC-SO-X08-SN01-6, C7-OCC-SO-X09-SN01-6, C7-OCC-SO-X10-SN01-6	One 30-in. diameter terracotta pipe encased in concrete located 6-ft bgs. The 30-in outfall pipe trends east-west. The concrete surrounding the terracotta pipe was 4-ft deep by 4-ft wide with the terracotta pipe positioned in the middle of the concrete foundation. An excavator with a ram hoe attachment carefully removed the concrete to expose the terracotta pipe. A small access hole was also created for sample purposes. A ¾-in plastic liner was discovered within the 30-in terracotta pipe walls. A soil sample was collected from beneath the concrete frame. No wastewater or sludge was present.	NA	30-in. Outfall Line (combined sanitary sewer, treated acid waste, and TNT wastewater from WWTP)
X11	Targeted	SN	30-in outfall	NA	Use existing manholes and GIS line coordinates to locate 30-in line.	Wastewater and sludge located between the original terracotta line and the more recently installed liner pipe.	1	1	1	1/SN01	C7-OCC-SO-X11-SN01-7, C7-OCC-SL-X11-MH01-5	One 30-in. diameter terracotta pipe encased in concrete located 6-ft bgs. The 30-in outfall pipe trends east-west. The concrete surrounding the terracotta pipe was 4-ft deep by 4-ft wide with the terracotta pipe positioned in the middle of the concrete foundation. An excavator with a ram hoe attachment carefully removed the concrete to expose the terracotta pipe. A small access hole was also created for sample purposes. A ¾-in plastic liner was discovered within the 30-in terracotta pipe walls. A soil sample was collected from beneath the concrete frame. A sludge sample was collected from a SN manhole located 10-ft east. No wastewater was present.	NA	30-in. Outfall Line (combined sanitary sewer, treated acid waste, and TNT wastewater from WWTP)
X12	Targeted	SN	30-in outfall	NA	Use existing manholes and GIS line coordinates to locate 30-in line.	Wastewater and sludge located between the original terracotta line and the more recently installed liner pipe.	1	1	1	1/SN01	C7-OCC-SO-X12-SN01-7 C7-OCC-WW-X12-SN01-5	One 30-in. diameter terracotta pipe encased in concrete located 5-ft bgs. The 30-in outfall pipe trends east-west. The concrete surrounding the terracotta pipe was 4-ft deep by 4-ft wide with the terracotta pipe positioned in the middle of the concrete foundation. An excavator with a ram hoe attachment carefully removed the concrete to expose the terracotta pipe. A small access hole was also created for sample purposes. A ¾-in plastic liner was discovered within the 30-in terracotta pipe walls. A soil sample was collected from beneath the concrete frame. A wastewater sample was collected from liquid located between the terracotta and the 3/4" plastic liner. No sludge was present.	NA	30-in. Outfall Line (combined sanitary sewer, treated acid waste, and TNT wastewater from WWTP)

TABLE 2-4 SUMMARY OF PROPOSED AND ACTUAL EXCAVATIONS AND SAMPLE LOCATIONS FOR THE REMEDIAL INVESTIGATION OF FORMERLY USED UNDERGROUND UTILITY LINES - 30-INCH OUTFALL LINE

Proposed Sampling Program										Actual Sampling Program				
Excavation Number	Type of Excavation	Targeted Line Types	Area	Camera Access Point Description	Proposed Excavation Location - Direction and Distance From Camera Access Point or Other Site Feature	Target/Collection Point	Proposed Number of Soil Samples	Proposed Number of Sludge Samples	Proposed Number of Wastewater Samples	Number and Type of Lines Encountered	Associated Sample Designation (s)	Description	Camera Survey Point Number (from non-intrusive investigation)	Reassessment of Line Type Based on Observation and Comparison to Historical Drawings
X13	Targeted	SN	30-in outfall	NA	Use existing manholes and GIS line coordinates to locate 30-in line.	Wastewater and sludge located between the original terracotta line and the more recently installed liner pipe.	1	1	1	1/SN01	C7-OCC-SO-X13-SN01-6 C7-OCC-WW-X13-SN01-5	One 30-in. diameter terracotta pipe encased in concrete located 5-ft bgs. The 30-in outfall pipe trends east-west. The concrete surrounding the terracotta pipe was 4-ft deep by 4-ft wide with the terracotta pipe positioned in the middle of the concrete foundation. An excavator with a ram hoe attachment carefully removed the concrete to expose the terracotta pipe. A small access hole was also created for sample purposes. A ¾-in plastic liner was discovered within the 30-in terracotta pipe walls. A soil sample was collected from beneath the concrete frame. A wastewater sample was collected from liquid located between the terracotta pipe and the ¾" plastic liner. No sludge was present.	NA	30-in. Outfall Line (combined sanitary sewer, treated acid waste, and TNT wastewater from WWTP)
X14	Targeted	SN	30-in outfall	NA	Use existing manholes and GIS line coordinates to locate 30-in line.	Wastewater and sludge located between the original terracotta line and the more recently installed liner pipe.	1	1	1	1/SN01	C7-OCC-SO-X14-SN01-6 C7-OCC-WW-X14-SN01-5	One 30-in. diameter terracotta pipe encased in concrete located 5-ft bgs. The 30-in outfall pipe trends east-west. The concrete surrounding the terracotta pipe was 4-ft deep by 4-ft wide with the terracotta pipe positioned in the middle of the concrete foundation. An excavator with a ram hoe attachment carefully removed the concrete to expose the terracotta pipe. A small access hole was also created for sample purposes. A ¾-in plastic liner was discovered within the 30-in terracotta pipe walls. A soil sample was collected from beneath the concrete frame. A wastewater sample was collected from liquid located between the terracotta pipe and the ¾" plastic liner. No sludge was present.	NA	30-in. Outfall Line (combined sanitary sewer, treated acid waste, and TNT wastewater from WWTP)
X15-X25	Targeted	SN	30-in outfall	NA	Use existing manholes and GIS line coordinates to locate 30-in line.	Wastewater and sludge located between the original terracotta line and the more recently installed liner pipe.	11	11	11	1/SN01	C7-OCC-SO-X15-SN01-7, C7-OCC-SO-X16-SN01-6, C7-OCC-SO-X17-SN01-6, C7-OCC-SO-X18-SN01-6, C7-OCC-SO-X19-SN01-6, C7-OCC-SO-X20-SN01-7, C7-OCC-SO-X21-SN01-6, C7-OCC-SO-X22-SN01-5, C7-OCC-SO-X23-SN01-6.5, C7-OCC-SO-X24-SN01-6, C7-OCC-SO-X25-SN01-6	One 30-in. diameter terracotta pipe encased in concrete located 6-ft bgs. The 30-in outfall pipe trends east-west. The concrete surrounding the terracotta pipe was 4-ft deep by 4-ft wide with the terracotta pipe positioned in the middle of the concrete foundation. An excavator with a ram hoe attachment carefully removed the concrete to expose the terracotta pipe. A small access hole was also created for sample purposes. A ¾-in plastic liner was discovered within the 30-in terracotta pipe walls. A soil sample was collected from beneath the concrete frame. No wastewater or sludge was present.	NA	30-in. Outfall Line (combined sanitary sewer, treated acid waste, and TNT wastewater from WWTP)
X26	Not included in proposed sampling and analysis program.									1/unknown	C7-OCC-SO-X26-SN01-6 C7-OCC-SL-X26-SN01-5.5	A 25-ft by 30-ft excavation to a depth of 6-ft bgs was dug in the area of the former mixing tank area. At 6-ft bgs the bottom was lined with red brick. Three 1.5-in. steel pipes extending 3-ft from the east wall to the west were laying on the red brick. On the north wall of the excavation, a red brick wall was also uncovered. A soil sample was collected from stained soil located at 6-ft bgs. A sludge sample was collected from within the three 1.5-in. pipes, no wastewater was present.	NA	Unknown Line
NA	NA	NA	30-in. Outfall	NA	NA	At the Southwest Drainage Ditch, collect a surface water and sediment sample from within the ditch where the 30-in. outfall crosses. The surface water and sediment samples should be submitted for DOD marker compounds only.		1 sediment	1 surface water	SN01	C7-OCC-SW-X00-SN01-1 C7-OCC-SS-X00-SN01-0.5	Sediment sample collected from edge of water within the Southwest Drainage Ditch below and slightly down stream of the point at which the 30-in outfall line traverses the Ditch. Sediment was collected from the top 6-in. of fine material.	NA	NA

Sample designation is a concatenation of the following:
Operable Unit C7 = underground utilities
Property Owner - SOM = Somerset Group
CWM = Waste Management LLC
LEW = Town of Lewiston
OCC = Multiple owners along the 30-in. outfall line (majority of samples collected on Occidental Chemical Corporation [OCC] property)
Matrix SS = Surface Soil
Location X## = Sequentially numbered excavation for a particular property

Line Type WW = Wastewater line
SN = Sanitary Sewer
ST = Storm line
UN = Unknown line type
AC = Acid Waste line
CW = Chemical Waste line
DW = Drain, sump, pit, vault or tank
WP, WC = potable or cooling water

TABLE 2-5 SUMMARY OF SURFACE SOIL SAMPLES COLLECTED FROM OUTFALLS

Outfall Designation	Area	Sample Designation	Line Size	Line Type	Location Description
OF01	AFP-68 Area 29	C7-SOM-SS-OF01-SN01-0.5	4-inch terracotta	Sanitary Sewer	East of excavation CWM-X01, near the bottom of the west bank of the Central Drainage Ditch. Outfall line from temporary septic tank. Work Plan figure 5-2.The pipe is at the base of the tree trunk.
OF02	AFP-68 Area 29	C7-SOM-SS-OF02-ST03-0.5	12-inch coregated pipe	Stormwater/ wastewater drain line	Directly east of Building 29-01 in west bank of Central Drainage Ditch. Corrugated pipe originating from the storm water grate labled as ST-3 on the Work Plan Figure 5-2. See historical Drawing 317-13-62.
OF03	AFP-68 Area 39	C7-SOM-SS-OF03-ST02-0.5	12-inch terracotta pipe	Stormwater drain line	Directly east of Building 39-01 in west bank of Central Drainage Ditch. Wastewater line originating at Building 39-01. The outfall discharge point is approximately 2 feet off the bottom of the Central Drainage Ditch. Work Plan figure 5-2.
OF04	AFP-68 Area 35	C7-SOM-SS-OF04-ST01-0.5	12-inch Terracotta	Stormwater drain line	East of the southeast corner of Building 35-01 in the west bank of the Central Drainage Ditch. Outfall for the wastewater line originating in Building 35-01. Work Plan figure 5-2.
OF05	AFP-68 Area 30A	C7-SOM-SS-OF05-WW01-0.5	24-inch Cement Pipe	Wastewater Line	West of the Combustibles Warehouse (Area 30A), on the east bank of the Central Drainage Ditch. Wastewater line originating from Area 6 (Cell Room B) on the east side of the Somerset Group Property traversing west through Area 30A and terminating in Central Drainage Ditch. Work Plan figure 5-2.
OF06	AFP-68 Area 29	C7-SOM-SS-OF06-UN01-0.5	3 inch steel pipe	Unknown	Approximately 100 feet east of the southeast corner of Building 29-01and 30 feet south of OF02 in the west bank of the Central Drainage Ditch. Work Plan figure 5-2.
OF07	AFP-68 Area 10	C7-CWM-SS-OF07-WW01-0.5	10-inch Steel Pipe	Wastewater Line	Approximately 30 feet northwest of the northwest corner of Building10-01. The pipe protrudes out of the east bank of the Central Drainage Ditch. Work Plan figure 5-3. See historical Drawing 317-13-62.
OF08	AFP-68 Area 10	C7-CWM-SS-OF08-SN01-0.5	4-inch Steel Pipe	Sanitary Sewer Line	Approximately 23 feet northwest of the northwest corner of Building 10-01 and 10 feet south of OF07. The pipe protrudes out of the east bank of the Central Drainage Ditch. Work Plan figure 5-3. See historical Drawing 317-13-62.
OF09	AFP-68 Area 10	C7-CWM-SS-OF09-UN01-0.5	4-inch Terracotta	Wastewater Line	Approximately 20 feet west of Building 10-01 and 35 feet south of OF08. The pipe protrudes out of the east bank of the Central Drainage Ditch. Work Plan figure 5-3. See historical Drawing 317-13-62.
OF10	AFP-68 Area 10	NA	NA	NA	Pipe was broken and laying on top of the bank. No evidence of an outfall could not be located. See historical Drawing 317-13-62.

TABLE 2-5 SUMMARY OF SURFACE SOIL SAMPLES COLLECTED FROM OUTFALLS

Outfall Designation	Area	Sample Designation	Line Size	Line Type	Location Description
OF11	AFP-68 Area 18S	C7-CWM-SS-OF11-WW01-0.5	4-inch Steel	Wastewater Line	Approximately 50 feet north of Building 16-01 and 50 feet west of Wesson Street. The pipe protrudes out of the northern bank of the B Drainage Ditch and originates from AFP-68 Area 18S. Work Plan figure 5-5. See historical Drawing 317-13-62.
OF12	AFP-68 Area 18S	C7-CWM-SS-OF12-WW02-0.5	4-inch Steel Pipe	Wastewater Line	Approximately 50 feet north of Building 16-01 and 40 feet west of Wesson Street. The pipe protrudes out of the northern bank of the B Drainage Ditch and originates from AFP-68 Area 18S. Work Plan figure 5-5. See historical Drawing 317-13-62.
OF13	AFP-68 Area 22	Sampling Location Under Water	18-inch Steel Pipe	Wastewater Line	Approximately 40 feet north of Building 16-01 and 40 feet west of Wesson Street. The pipe protrudes out of the southern bank of the B Drainage Ditch and originates from AFP-68 Area 22. Work Plan figure 5-5. See historical Drawing 317-13-62.
OF14	AFP-68 Area 16	C7-CWM-SS-OF14-WW02-0.5	24-inch Steel	Wastewater Line	Approximately 40 feet north of Building 16-01 and 105 feet west of Wesson Street. The pipe protrudes out of the southern bank of the B Drainage Ditch and originates from AFP-68 Areas 16 and 22. Work Plan figure 5-5. See historical Drawing 317-13-62.
OF15	AFP-68 Area 16	C7-CWM-SS-OF15-WW01-0.5	3-inch Steel	Wastewater Line	Approximately 40 feet north of Building 16-01 and 110 feet west of Wesson Street. The pipe protrudes out of tl southern bank of the B Drainage Ditch. Work Plan figure 5-5. See historical Drawing 317-13-62.
OF16	WWTP	Sampling Location Under Water	24-inch Cement Pipe	Acid Waste Overflow/Wastewater Line	Approximately 250 feet northeast of the northeast corner of the Partially Demolished- Acid Neutralization Building. The pipe protrudes out of the west bank of the Western Drainage Ditch. Work Plan figure 5-12.

Sample designation is a concatenation of the following:
Operable Unit - C7 for underground utilities

Property Owner -	SOM = Somerset Group
	CWM = Waste Management LLC
	LEW = Town of Lewiston
	OCC = Multiple owners along the 30-in. outfall line (majority of samples collected on Occidental
Matrix	SS = Surface Soil
Location	OF = Outfall, followed by sequential numbering of each outfall
Line Type	WW = Wastewater line
	SN = Sanitary Sewer
	ST = Storm line
	UN = Unknow line type

TABLE 2-6 SUMMARY OF SAMPLES COLLECTED FROM LIQUID CONTAINED IN BEDDING MATERIAL

Excavation Number	Line Type	Bedding Material Water Sample Designation	Type of Bedding Material Encountered
CWM-X37	WW	C7-CWM-WW-X37-WG01-6	#2 Limestone/Pea gravel
CWM-X41	WW	C7-CWM-WW-X41-WG01-6	#2 limestone and pea gravel
CWM-X56	WW	C7-CWM-WW-X56-WG01-7	#1 Limestone Rocks
CWM-X62	CW	C7-CWM-WW-X62-WG01-5	#1 Limestone Rock

Explanation of Line Type:
WW = Wastewater line
CW = Chemical waste line
Note: WG was originally used as the matrix designation for bedding material water, but has been revised to WB.

TABLE 2-7 SUMMARY OF COMPLETED EXCAVATIONS AND COLLECTED SAMPLES

Property	Proposed Number of Excavations	Actual Number of Excavations	Sludge Samples		Wastewater/Bedding Material Water Samples		Subsurface Soil Samples		Bedding Material Water Samples		Surface Soil Samples		Surface Water Samples		Sediment Samples		Total (Proposed Samples)[1]	Total (Actual Samples)
			Proposed[1]	Actual	Proposed[1]	Actual	Proposed	Actual	Proposed[1]	Actual	Proposed	Actual	Proposed	Actual	Proposed	Actual		
SOM	35	38	42	9	38	15	41	38	0	0	1	6	0	0	0	0	122	68
OCC	26	26	24	2	24	3	24	26	0	0	0	0	1	1	1	1	74	33
LEW	9	11	17	8	17	5	11	9	0	0	0	0	0	0	0	0	45	22
CWM	125	127	163	39	164	73	177	113	0	4	8	7	0	0	0	0	512	236
Totals	195	202	246	58	243	96	253	186	0	4	9	13	1	1	1	1	753	359

[1]Note: The total number of proposed soil, sludge, and wastewater samples was based on encountering targeted lines in each excavation and the presence of sludge and wastewater in every location, which was not expected. Up to a total of 478 samples (inclusive of all matrices) was proposed for collection.

TABLE 2-8 SUMMARY OF ANALYTICAL METHODS UTILIZED DURING THE UNDERGROUND UTILITY REMEDIAL INVESTIGATION

Description	Analytical Methods Utilized for Aqueous Samples		Analytical Methods Utilized for Solid Samples	
	Preparatory Method (s)	Determinative Method(s)	Preparatory Method(s)	Determinative Method(s)
Target Analyte List (TAL) Metals + Boron and Lithium by Inductively coupled plasma/mass spectroscopy (ICP/MS)	3010A	6020B	3050B	6020
Mercury [Hg] Cold Vapor Atomic Absorption (CVAA)	NA	7470A	NA	7471A
Cyanide	9010B	9014	9010B	9014
Target Compound List (TCL) Volatile Organic Compounds (VOCs) by gas chromatography and mass spectroscopy (GC/MS)	5030B	8260B	5035	8260B
TCL Semivolatile Organic Compounds (SVOCs) (GC/MS)	3520C	8270C	3540C	8270C
Explosives (using solid phase extraction [SPE])	SPE	8330	NA	8330
TCL Polychlorinated Biphenyls (PCBs)	3520C	8082	3540C	8082
TCL Pesticides	3520C	8081A	3540C	8081A
Total Organic Carbon (TOC)	NA	NA	NA	9060A

GC/MS Gas Chromatography/Mass Spectroscopy QC
ICP/MS Inductively Coupled Plasma/Mass Spectroscopy
MS/MSD Matrix Spike/Matrix Spike Duplicate
CVAA Cold Vapor Atomic Absorption
TAL Target Analyte List
TCL Target Compound List

CHAPTER 3

3. PHYSICAL CHARACTERISTICS OF STUDY AREA

3.1 SURFACE FEATURES

3.1.1 Physiographic

The former LOOW is located within the Erie-Ontario Lowlands physiographic province of New York State. This province extends from the shores of Lake Erie and Lake Ontario to the Appalachian Uplands Physiographic province.

The Erie-Ontario Lowlands consist of six physiographic regions. These regions are (from north to south):

- Lake Ontario Plain
- Niagara Escarpment
- Lake Tonawanda Plain
- Onondaga Escarpment
- Lake Erie Plain
- Portage Escarpment

The Portage Escarpment forms the boundary between the Erie-Ontario Lowlands and the Appalachian Uplands provinces in western New York (Broughton et al. 1966).

The former LOOW is located on the Lake Ontario Plain, an area characterized by relatively flat to gently rolling terrain. The Lake Ontario Plain originates at the Niagara Escarpment and slopes gently northward towards Lake Ontario at a rate of approximately 20 ft per mile. The Niagara Escarpment is a northward facing bluff that separates the Lake Ontario Plain to the north from the Lake Tonawanda Plain to the south. Land elevations at the top and bottom of the Niagara Escarpment are approximately 630 ft and 360 ft above mean sea level (msl), respectively. The elevation at Lake Ontario is approximately 250 ft above msl.

3.1.2 Underground Utility Related Man-Made Features

Prior to conducting the non-intrusive portion of the UURI, a reconnaissance was performed on each area included in the investigation. The purpose of the reconnaissance was to locate surface features that could be used to access underground utilities for the camera survey or could be used to induce electrical current to trace during the pipe and cable location survey. The following categories of surface features were discovered during the reconnaissance:

- Manholes associated with LOOW, AFP-68, and the NIKE Base were discovered. Historical drawings for LOOW and AFP-68 were fairly accurate in their depiction of the location of the manholes. Historical drawings were not available for the NIKE Base.
- Water valves, meters, and hydrants associated with LOOW and AFP-68 were located throughout the study areas on WM and Somerset Group property.
- Floor drains located within the AFP-68 buildings and foundations and NIKE Base buildings associated with general drainage and shower drains.
- Exterior grated drains were located associated with AFP-68 in the northwestern portion of the WM property. Some grates were associated with stormwater run off and others appeared to be associated with bermed tank areas.
- Electrical conduit associated with LOOW, AFP-68, and NIKE Base. Several open pipes were discovered throughout the project site that appeared to be conduit that had been cut at ground surface.
- Vent pipes associated with a tank at AFP-68 Area 31 and three tanks at the NIKE Base.
- Pipe stickups which referred to the numerous and various pipes that were found originating from below ground surface and terminating above ground at broken junctions or flanges. These stickups were comprised of various material including terracotta, steel, iron.
- Square, thin-walled ventilation shaft associated with the NIKE Base. These lines appeared to be heating, ventilation, and/or air conditioning lines and were observed trending subsurface from lines suspended near ceilings in the control buildings at the NIKE Base.
- Sumps, pits, and vaults were located in the LOOW Nitration House area as well as several AFP-68 process areas and in the southern portion of the NIKE Base.
- Outfalls into surface water drainages associated with AFP-68.

Each of these surface features are documented on figures presented in the Report of Results for the Non-Intrusive Investigation included in Appendix B. Surface features that were used to attempt access to the underground lines were given an access point designation used for identification on the report figures and in the camera survey logs, for example "SN1", "U101", or "UAL1". For ease of reference to the non-intrusive investigation results, these access point designations are also included on the figures in Chapter 5.

3.2 GEOLOGY

The western New York region is overlain by a thin cover of unconsolidated glacial deposits that were laid down during the closing phases of the Pleistocene Epoch. These glacial deposits directly and unconformably overlay bedrock in most areas. The bedrock throughout the region consists of nearly flat-lying sedimentary sequences of shale, siltstone, sandstone, dolostone and limestone, which were deposited during the Ordovician, Silurian and Devonian Periods of the Paleozoic Era.

Over the past several years, numerous hydrogeologic investigations have been conducted on the WM, Modern Landfill, and NFSS properties that comprise the heart of the production area of the former LOOW. As a result of those investigations, more than 400 test borings and test pits for monitoring wells, piezometers, exploratory borings, and foundation borings were performed throughout the facility. The subsurface information obtained from these investigations indicates that the eastern portion (main production area) of the former LOOW is underlain by 30 to 60 ft of unconsolidated glacial deposits. These deposits unconformably overlay the shale bedrock of the Queenston Formation. The ascending stratigraphic order is:

- Bedrock
- Lodgement till
- Glaciolacustrine silt and sand
- Glaciolacustrine clay
- Middle silt till
- Upper glacial till sequence
- Recent alluvium

The underground lines identified for investigation lie in the Upper Tills and recent alluvial deposits.

3.2.1 Bedrock

As previously mentioned, the bedrock throughout the Western New York region consists of nearly flat-lying sedimentary sequences of shale, siltstone, sandstone, dolostone, and limestone deposited during the Ordovician, Silurian and Devonian periods of the Paleozoic Era.

The lowermost unit exposed in the Niagara Falls area is the Queenston Formation of Upper Ordovician age. The Queenston Formation underlies most of the Ontario Plain in the western New York region. This sequence is composed primarily of red or purplish-red finely-bedded to massive shale interbedded with siltstone and silty dolostone. The Queenston commonly contains greenish beds and streaks found along bedding planes and joints. The Queenston was deposited in a marine deltaic environment and is reported to be between 700 and 1,200 ft thick (Tesmer 1981).

3.2.2 Lodgement Till (Basal Till)

The lowermost unconsolidated glacial unit occurring throughout the former LOOW is a red lodgement till. A lodgement till is a till deposited beneath a moving glacier. The deposit is characterized by compact fissile structures and stones oriented with the long axis parallel to the direction of glacial flow. The lodgement till encountered at the former LOOW was found to be reddish in color with high density and dry indurated texture. Red and green shale clasts originating from the underlying Queenston Formation are common features in the lodgement till. The deposit, referred to as the basal red till unit during previous hydrogeologic investigations, is commonly composed of silt and fine to coarse sand and little fine gravel. This unit is classified as an inorganic silt according to the Unified Soil Classification System.

The basal red till is generally dry to moist, with an average moisture content of 11 %. The unit has a relative density ranging from medium to very dense and is generally non-plastic or only slightly plastic (Golder Associates [Golder] 1985). The moisture content and plasticity of the unit varies across the former LOOW as a function of the gravel and clay content.

The basal red till ranges in thickness from 0 to 21.5 ft with an average thickness of 5 ft. The unit is absent over a large area of the northern portion of the site and in a few isolated areas throughout the remainder of the site (Golder 1985). In general, the topography of the unit varies with that of the bedrock surface.

3.2.3 Glaciolacustrine Silt and Sand

Overlying the basal red till is a sequence of glaciolacustrine silt and sand. This unit has been found to vary in composition across the former LOOW. Four major subcategories of this unit have been identified:

- Stratified coarse sand composed of very dense, brown to multicolored coarse to fine sand with little silt and fine gravel
- Non-stratified silt and sand composed of poorly sorted compact to very dense brown silt and coarse to fine sand with little fine gravel

- Stratified silt and fine sand composed of well sorted, brown-gray to brown silt with some fine sand and silt
- Interlayered silt, sand, and clay composed of laminated soft gray silty clay with ½- to 6 in. silt or fine sand layers. This sub-unit is transitional in some areas with the overlying glaciolacustrine clay unit.

The silt and sand unit, referred to as the glaciolacustrine silt/sand, has filled into the surface of the bedrock and basal red till unit. The glaciolacustrine silt/sand is absent in areas where the basal red till unit has occurred as high points on the bedrock surface.

3.2.4 Glaciolacustrine Clay

A glaciolacustrine clay unit typically overlies the glaciolacustrine silt/sand unit. This clay unit is typically composed of laminated, very soft to firm, gray to gray brown silty clay with traces of fine sand. Laminations may occur as thin red-brown to gray silt and fine sand layers. Laminations are more common near the base of this unit.

The clay is of low to medium plasticity with an average plasticity index of 16. The majority of the unit has a high natural moisture content, averaging about 28 %.

The glaciolacustrine clay unit attains a thickness of up to 25 ft in the southwestern portion of the former LOOW. The unit is separated into two units in the northwestern portion of the facility by a till deposit. In this area, the two strata of clay are identified as the upper and lower glaciolacustrine clay units. The upper glaciolacustrine clay unit ranges in thickness up to 10 ft. The lower glaciolacustrine clay unit ranges up to 6 ft in thickness. The two clay strata are discontinuous and may be absent in some areas.

3.2.5 Middle Silt Till Unit

The glaciolacustrine clay unit is separated into two members by a till unit referred to as the middle silt till unit. This till unit is composed of well graded, compact to very dense, gray to gray-brown silt and coarse to fine sand with a trace of fine gravel. The middle silt till unit occurs in the northwestern and western portion of the WM property. This unit has not been identified in all of the previous site investigations.

3.2.6 Upper Glacial Till Sequence

A sequence of glacial tills overlies the glaciolacustrine clay unit. This sequence can be frequently divided into two strata: upper silt till unit and upper clay till unit.

The upper silt till unit is discontinuous across the facility, commonly being absent in the southern portion of the site. This unit is typically composed of compact to very dense, brown to purple-brown silt (ML), and coarse to fine sand with little fine gravel. Wet discontinuous layers of silt and sand are occasionally found within the unit. The unit is generally non-plastic.

The upper clay till unit is commonly composed of non-stratified to faintly laminated, stiff to hard brown to purple-brown clayey silt with some fine to coarse sand and little fine gravel. This deposit occasionally contains cobbles and discontinuous, wet sand, gravel, and silt layers. This unit exhibits low to medium plasticity with an average plasticity of 13 and an average moisture content of 15 percent.

The combined thickness of the upper silt and clay till units is fairly uniform across the site varying from 15 to 20 ft. The units become thinner toward the southern portion of the facility, averaging 10 to 15 ft. The differentiation of the upper silt till and the upper clay till has not been made in all previous site investigations.

3.2.7 Recent Alluvium

Alluvium is found discontinuously across the facility. This unit is typically laminated and varies from fine sand with some silt to a silt or silty clay. This layer may occur in thicknesses of up to 5 ft.

3.2.8 Fill

Because the former LOOW has been used for various purposes, including the original agricultural activities prior to the construction of the LOOW and subsequent landfilling and building construction activities, the natural topography and composition of the surface and near surface soil has been significantly altered. In addition to the obvious landfills and buildings constructed on the site, some areas have received "borrow material" which was either brought into the site or moved from one area of the site to another. Because much of this "borrow material" is locally derived, it is commonly of similar composition to the native deposits and may only be distinguishable by signs of disturbance or inclusion of foreign material such as wood, metal, etc.

3.3 SOILS

Soils of the Upper Tills within which the underground lines are located ranged in color from a dark yellowish brown to reddish brown and consisted of a stiff, hard, silty clay or clayey silt with varying amounts of sand (EA 2002). Some areas of silty, fine sand exist in the project site that are likely alluvial deposits. The organic carbon content of the soils ranges from 2,250 milligrams per kilogram (mg/kg) to 34,000 mg/kg and average 7,164 mg/kg based on results of the Phase I, Phase II, and Phase III investigations. Total porosity of soils of the Upper Tills averages approximately 0.4 (Linsley 1982) with an average water-filled porosity of 0.15 (Golder 1993). Vertical hydraulic conductivity in the Upper Tills ranges from 6x 10^{-7} centimeters/sec (cm/s) to $1x10^{-7}$ cm/s (Golder 1993). Horizontal conductivity in the Upper Tills ranges from 2 x 10^{-6} to 3 x 10^{-6} cm/s (Golder 1993).

CHAPTER 4

4. DATA EVALUATION METHODOLOGY AND DATA USABILITY

Data evaluation requires a determination of how the data will be discussed with respect to contaminant sources, migration pathways, and potential receptors. Chapter 6 discusses these items in more detail. However, the most likely potential contaminant source in this investigation was the material within underground lines. Because these lines were historically used for different purposes, and theoretically could have conveyed materials with differing constituents of potential concern (COPCs), the line types were evaluated separately. For example, data from samples (sludge, wastewater, and subsurface soil) associated with the acid waste sewer lines were discussed and evaluated separately from data associated with sanitary sewer lines.

It follows that the first step in the evaluation process was review of the excavation sample locations and line descriptions against historical drawings to identify, as accurately as possible, the line type from which the sample was collected. Nine line types were sampled during the UURI:

- sanitary sewer lines
- wastewater lines
- chemical waste sewer lines
- acid waste sewer lines
- unknown line type
- drains, pits, sumps, vaults, or tanks
- storm sewer lines
- cooling water lines
- potable water lines

Evaluation of the data is presented in Chapter 5 and the discussion is presented by line type. Because of the differing potential future site use (residential versus non-residential) for the different properties within the project study area, the data evaluation also includes discussion of property ownership.

Data evaluation also requires selection of comparison criteria against which the analytical results of environmental media sampled during the UURI will be compared. These criteria and results are inputs to the decision rule. If criteria are exceeded, then additional evaluation (e.g. a risk assessment) may be required. The selection of comparison criteria was described in SAP and summarized herein. Although the former LOOW is not listed on the U.S. EPA

National Priorities List (NPL), under DERP-FUDS, the USACE performs environmental investigation activities in a manner consistent with that used by U.S. EPA under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)/Superfund Amendments and Reauthorization Act (SARA) program. As such, chemical specific applicable or relevant and appropriate requirements (ARAR) and to be considered (TBC) screening values developed by the U.S. EPA were used in assessing environmental data at the former LOOW.

ARARs are identified on a site-specific basis. Site-specific factors such as contaminants present, the location, site physical features and actions being considered contribute to the determination as to what standards must be followed. ARAR identification occurs at several points throughout the CERCLA process. Initial chemical- and location-specific ARARs are identified during the scoping of the RI. The State also provides preliminary chemical- and location-specific ARARs. During completion of feasibility studies (FS), the initial list of ARARs will be refined based upon site characterization information and action-specific ARARs will be identified for each alternative undergoing screening and detailed analysis. The State will be requested to identify action-specific ARARs for alternatives that passed the screening process within 30 days of request.

For this site, TBCs are being considered along with ARARs and the risk assessment in establishing cleanup levels. TBCs include guidance such as NY State recommended cleanup levels for soils, surface water and/or groundwater. These are non-promulgated guidelines, advisories or guidance issued by Federal or state government that are not legally binding and do not have the status of potential ARARs. TBC identification is not mandatory. However, for this site, TBCs discussed in Sections 4.1 through 4.3 are being used in the RI screening process.

Data are evaluated against chemical-specific ARARs and TBC for potential deleterious impacts to human health and/or the environment. Screening values provide the mechanism for assessment of whether constituent concentrations have the potential to result in unacceptable risk to human receptors. Exceedance of the screening values indicates a potential for deleterious effects and identifies the chemical as a COPC that will require additional evaluation of potential risk through a human health risk assessment (HHRA). This report summarizes those constituents that exceed screening values and presents a discussion of the potential fate and transport of those constituents. A screening for identification of COPCs will also be conducted in the HHRA being performed under separate cover. However, this report and the HHRA utilize the same methodology for identification of

COPCs, and the methodology is consistent with the methodology used during the Phase I and II of the RI.

Selection of specific screening values is matrix dependent. The sections below describe the selected screening values for screening of sample results from each matrix collected during the UURI: surface and subsurface soil, sludge, wastewater, ground water, sediment, and surface water.

4.1 SOIL , SLUDGE, AND SEDIMENT RISK-BASED CRITERIA

The TBC chemical-specific U.S. EPA Region 9 PRGs (U.S. EPA 2004) were used as screening values for evaluation of soil, sludge, and sediment results from the UURI. The U.S. EPA has developed differing chemical-specific PRG values based on residential and non-residential site use. PRGs protective of residential receptors were utilized for data evaluation of samples collected from all properties except WM. The U.S. EPA develops these PRGs using very conservative exposure scenarios, including exposure over an entire lifetime. These exposure scenarios do not necessarily represent the exposures that would be expected on the LOOW property. However, this approach results in conservative list of COPCs for further evaluation during the risk assessment. Data from sludge and soil samples collected on WM were compared to PRGs protective of non-residential receptors (i.e., a construction worker). Furthermore, the U.S.EPA identifies the compounds as to whether they represent a carcinogenic or non-carcinogenic risk to human health. To account for potential additive or cumulative effects of multiple non-carcinogenic contaminants, one-tenth of the acceptable non-carcinogenic threshold criteria is used for screening. For those carcinogenic contaminants where the carcinogenic PRG is greater than $1/10^{th}$ the non-carcinogenic screening levels (identified in the Region 9 PRG tables as "ca**"), the more conservative ($1/10^{th}$ the non-carcinogenic Region 9 PRG) was used for screening.

If constituents were reported for which there was no PRG, or no PRG for a similar and appropriate chemical surrogate was available, the concentration was compared to the screening values cited in the NYSDEC TAGM 4046 (NYSDEC 1999). Only those NYSDEC TAGM 4046 values that were derived for protection of human health were considered for use as screening criteria. TAGM 4046 values for protection of ground water and background values (for metals) were not used for screening. Site-specific protection of ground water soil screening levels (SSLs) were derived for data evaluation (see Section 4.3.4). Similarly, a site-specific background evaluation was also performed to aid in data evaluation (see Section 4.1.3).

Chemicals reported in soil, sediment, or sludge in concentrations exceeding the PRGs (or TAGM in the absence of a PRG) are considered COPCs and will be included for risk evaluation (to be performed under separate cover). This screening methodology is similar to that used for the Phase I and Phase II RI. Tables included in Chapter 5 illustrate those constituents in soil, sediment, and sludge that exceeded the PRG (or TAGM 4046 value, in the absence of a PRG). Table 4-1 presents the screening values (Region 9 PRGs and NYSDEC TAGM 4046 values) used for evaluation of soil, sludge, and sediment.

4.2 WASTEWATER, SURFACE WATER, AND BEDDING MATERIAL WATER RISK-BASED CRITERIA

Wastewater, surface water, and bedding material water sample results were screened against U.S. EPA Region 9 PRGs for tap water. Although these matrices will not be utilized as a drinking water source, this approach results in conservative retainment of constituents as COPCs for further evaluation during the risk assessment. Chemicals reported in wastewater, surface water, or bedding material water in concentrations exceeding the PRG are considered COPCs and will be included for risk evaluation. Tables included in Chapter 5 illustrate those constituents in surface water and wastewater that exceeded the PRG. In addition, a second screening value, the NYSDEC Technical and Operational Guidance (TOG) Series 1.1.1, *Ambient Water Quality Standards and Guidance Values* (NYSDEC 1998), was used as a secondary comparison criteria for evaluation of surface water and wastewater as described in Section 4.3.2. However, exceedance of the TOG guidance value did not result in identification of the constituent as a COPC. Table 4-2 presents the screening values used for evaluation of liquid matrices.

4.3 OTHER SCREENING CONSIDERATIONS

4.3.1 Background Soil Evaluation

Background samples were collected during Phases I and II of the RI in order to obtain data representing the general area of the former LOOW that was not impacted by site-specific operations. The background sample collection program included collection of a surface and subsurface soil sample from each of 17 locations (EA 2002). Samples were submitted for analysis of TAL metals, boron, and lithium. A subset was submitted for analysis of PAHs. Although there is the potential for non-DOD, anthropogenic impact from pesticides due to extensive use of the area for agricultural purposes, the background samples were not submitted for pesticide analyses. However, results of the risk assessment conducted during the Phase I and Phase II RI confirmed that pesticides were not driving risk at the site.

During the UURI, the background metals data were used to evaluate whether reported metals concentrations in soil samples collected from beneath underground lines were indicative of background and/or anthropogenic concentrations (from non-DOD impact, such as metals from pesticide use in orchards) in areas not extensively used by the DOD, or were more likely due to impact from site activities associated with DOD site-use. Within the discussion of the nature and extent of contaminants (Chapter 5) the results of the background evaluation are presented in tabular form and are discussed in the summary sections for each line type. The evaluation was performed only on line type and does not include evaluation based on which property a segment of line was located on. It should also be noted that for those metals in sludge that exhibited some contribution to risk, the sludge metals concentrations were compared to background metals concentrations. A detailed discussion of this comparison is included in the HHRA Report.

A test for outliers within the initial background dataset was performed prior to using the dataset for the background evaluation. Using an inter-quartile test (Iglewicz and Hoaglin, 1993), three results from surface soil samples were identified as potential outliers: selenium within background location BGKD 12, and arsenic and lead within location BKGD 17.

Location BGKD 12 was located within a hunting preserve. Selenium is a component in gun metal and may have been present in higher concentrations due to site use. Location BKGD 17 was located adjacent to a fruit orchard. Lead arsenate has historically been used as a pesticide and may have contributed to the lead and arsenic reported at this location.

Because selenium, arsenic, and lead were reported as outliers and site use suggests that the concentrations may be linked to site use, these three concentrations were removed from the data set prior to use in the background evaluation. A summary of the outlier test is presented in Appendix G.

To prepare the UURI data for the background evaluation, data from subsurface soil samples collected from beneath specific line types was separated into line-specific data sets. The distribution of the line-specific data sets was tested using the Shapiro Wilk's *W* test, and the results of the test were evaluated at the 95% significance level in order to determine if a normal, lognormal, or nonparametric upper prediction limit (UPL) was computed as a background threshold when the UURI data were not suitable for hypothesis testing (Figure 4-1).

The 95 % UPLs were calculated as follows (Figure 4-1):

$$\text{UPL} = \bar{x} + t_{(0.05,df)} s_x \sqrt{1/n + 1}$$ Normally Distributed Data

$$\text{UPL} = \exp\left(\bar{y} + t_{(0.05,df)} s_y \sqrt{1/n + 1}\right)$$ Lognormally Distributed Data

UPL = max detected concentration — Nonparametric UPL

where:

n	=	the number of samples
x	=	the vector of analyte concentrations ($x_1, x_2, \ldots x_n$)
$\bar{x}$	=	the sample mean of analyte concentrations, $\frac{1}{n}\sum_{i=1}^{n} x_i$
s_x	=	the sample standard deviation, $\left[\frac{1}{n}\sum_{i=1}^{n}(x_i - \bar{x})^2\right]^{1/2}$
$t_{(.05,df)}$	=	the one-tailed t-statistic for critical value α =0.05 and degrees of freedom $df = n$-1
y	=	the vector of log-transformed analyte concentrations ($\ln x_1$, $\ln x_2$, ... $\ln x_n$)
$\bar{y}$	=	the sample mean of log-transformed analyte concentrations, $\frac{1}{n}\sum_{i=1}^{n} y_i$
s_y	=	the sample standard deviation of log-transformed data, $\left[\frac{1}{n}\sum_{i=1}^{n}(y_i - \bar{y})^2\right]^{1/2}$

Note that the nonparametric UPLs were calculated as the maximum detected concentration, which provides a coverage probability of:

$$n/(n+1) \times 100\%$$

The number of background samples used is $n = 34$, which yields a coverage of 97% (rather than 95%) for the nonparametric UPLs.

Figure 4-2 presents the decision tree for determining if the UURI data exceeded background. For the background comparison, concentrations of individual metals within the line-specific data set were compared to background data using either the Wilcox Rank Sum test (for $n \geq 5$) or a comparison of each individual observation to the UPL ($n < 5$). If a comparison to the UPL was indicated, then the UURI data were considered to exceed background if any of the data observations exceeded the UPL. If the Wilcox Rank Sum test was indicated, then the results of the test were evaluated with null hypothesis H_0: $\bar{x}_{UURI} = \bar{x}_{background}$, and alternative hypothesis H_1: $\bar{x}_{UURI} > \bar{x}_{background}$. If H_0 was rejected at the 95% significance level ($\alpha = 0.05$), then it was concluded that the data exceeded background.

The background screen used throughout each Phase of the RI, including this Phase, employs a statistical procedure that in some cases may be overly conservative. For example, the UPLs of background data where constructed for the next single observation within a sample period, but were sometimes used to compare to the next 2, 3, or 4 observations within a sampling period. While comparing the UPL to each individual site observation has greater power to detect COPCs than comparing to the mean of the observations, it does so at the expense of greater Type I error (i.e., false positives). Therefore, there is the potential for carrying metals into the risk assessment that in fact were not different from background. If such instances are identified, the background comparison may be recalculated with a less conservative statistical procedure to determine if the metal can truly be said to have exceeded background concentrations. However, this additional recalculation was not necessary and was not performed during this UURI.

Data evaluation presented in Chapter 5 presents a discussion of whether metals concentrations exceeded screening values, with further discussion concerning background for those metals that did exceed the screening values. If the metals exceeded screening values but did not exceed background, they were not identified as COPCs.

4.3.2 Wastewater and Surface Water Impact to Surface Water Bodies

New York State water-quality standards and guidance values for Class B and C water bodies were also used for evaluation of wastewater and surface water data collected during the RI. Although not used as a screen for identification of COPCs, the final destination of wastewater within some lines is through an outfall to manmade surface water drainages.

Therefore, Chapter 5 includes discussion of the exceedance of ambient water quality standards.

Surface water drainages at the former LOOW are categorized as "Class B" and "Class C" water bodies. The best usage for both classes is for fishing and for primary/secondary recreational contact. However, Class C waters may have limitations on primary and secondary contact. Class B and C surface water is not suitable as a source of water supply for drinking, culinary, or food processing purposes. The source of these screening values was the NYSDEC TOG Series 1.1.1, *Ambient Water Quality Standards and Guidance Values* (NYSDEC 1998). The values are summarized in Table 4-2.

4.3.3 WM-Specific Goals

A secondary non-risk-based criterion of 50 mg/kg was also considered during discussion of PCBs on WM property. This comparison criterion for PCBs in surface soil was established through a prior agreement between NYSDEC and WM in the comments on the Draft Phase I RI Work Plan (Johnson, 1998). This criterion is important on this site because it may impact future determination of site specific clean up goals for PCB Aroclors, regardless of risk. It should be noted that in cases of high concentrations of one specific Aroclor the detection limits of the remaining Aroclors were elevated as a result and in some instances the detections limits exceed this criterion.

4.3.4 Soil Screening Levels

Results from subsurface soil samples were also compared to soil screening levels (SSLs) to evaluate the potential for deleterious impact to ground water. SSLs were derived using the same methodology used in the Phase II RIR for consistency. However, there are limitations to the derivation and use of SSLs for evaluation of the ground water impact from underground line source areas. For example, the underground lines were evaluated by line type within specific property boundaries, effectively reducing source area size to pockets of contamination within and beneath the lines. Although the analysis of the effects of source size on generic SSLs provided in Appendix A of the U.S. EPA guidance *Soil Screening Guidance: Technical Background Document*,(U.S. EPA 1996) indicates that SSLs are not particularly sensitive to varying the source area from 30 acres to 0.5 acres, the fact that the "sources" associated with the lines are the contents of the lines and small pockets of contamination that may impact subsurface soil along some portions of some lines is in disagreement with the assumptions used in the U.S. EPA guidance. In addition, the underground line potential sources are linear, vary in depth from 2 ft bgs to over 18 ft bgs, and occur in the vadose and saturated zone. Assumptions within the guidance assume a more typical cube or spherical source area above the vadose zone. Furthermore, the protective standard at the point of compliance upon which the SSL is derived is for drinking water. Exceedance of an SSL indicates the potential for impact to ground water at concentrations exceeding the drinking water criteria. However, it is unlikely that the ground water at LOOW will be utilized for drinking water due to low hydraulic conductivity of the site, and the poor quality of ground water. In addition, the EPA suggests the use of a dilution attenuation factor (DAF) of 20. For derivation of SSLs for this site, a DAF of 1 was used, resulting in a much more conservative SSL. Therefore, the use of SSLs for evaluation of potential impact to ground water represents a very conservative approach.

The SSLs for the protection of ground water were derived and compared with subsurface soil concentrations. The SSLs account for the ability of chemicals to leach from subsurface soil and travel in ground water. The site-specific SSLs were developed in accordance with the *Soil Screening Guidance: Technical Background Document* (U.S. EPA 1996). This guidance provides guidelines to associate the detected concentration in soil (C_t) with the target concentration in water (C_w). The C_w values are the enforceable standards that are protective of human health for drinking water. Site-specific values for C_w were assumed to be H(WS) GA values (meaning source of drinking water – ground water) from the NYSDEC TOG Series 1.1.1, *Ambient Water Quality Standards and Guidance Values* dated June 1998, with the exception of carbon disulfide, which was from an addendum dated April 2000.

The chemical-specific soil-water partition derivation for the migration from soil to ground water pathway for inorganic analytes is provided by the following equation:

$$C_t = C_w\left((K_d) + \frac{\theta_w + \theta_a H'}{\rho_b}\right)$$

where:

C_t = screening level in soil (mg/kg)

C_w = target leachate concentration (milligrams per liter [mg/L])

K_d = soil-water partition coefficient (L/kg)

θ_w = water-filled soil porosity (L_{water}/L_{soil})

θ_a = air-filled soil porosity (L_{air}/L_{soil})

H' = dimensionless Henry's law constant

ρ_b = soil particle density (kg/L)

For organic analytes, past research has indicated that soil organic matter is the dominant sorbing component in soil and that K_d is linear with respect to soil organic carbon content (U.S. EPA 1996). Therefore, for organic chemicals, K_d is best approximated by the following equation:

$$K_d = (K_{oc} * f_{oc})$$

Thus, the chemical-specific soil-water partition derivation for the migration from soil to ground water pathway for organic chemicals is provided by the following equation:

$$C_t = C_w\left((K_{oc} * f_{oc}) + \frac{\theta_w + \theta_a H'}{\rho_b}\right)$$

where:

C_t = screening level in soil (mg/kg)

C_w = target leachate concentration (mg/L)

K_{oc} = soil organic carbon-water partition coefficient (L/kg)

f_{oc} = organic carbon content of soil (g/g)

θ_w = water-filled soil porosity (L_{water}/L_{soil})

θ_a = air-filled soil porosity (L_{air}/L_{soil})

H' = dimensionless Henry's law constant

ρ_b = soil particle density (kg/L)

These equations were employed in the calculation of the SSLs. The soil parameters were assessed based on site-specific data and are presented in Table 4-3. The fraction of organic carbon was estimated based on the average total organic carbon for subsurface soil samples collected during the Phase I RI, the Phase II RI, and the UURI. A total of 12 TOC sample results were used to calculate the average used in the SSL calculation. Of the 12 TOC results, one was from the Phase I investigation, eight were from the Phase II investigation, and three were from UURI. Although four samples were submitted for TOC analysis during the UURI, one of the results was anomalously high in comparison with other results and was removed from the data set at the direction to insure a conservative average TOC concentration. Without the "high" reading (over 30,000 mg/kg), sample results ranged from 3,100 mg/kg to 7,610 mg/kg with an average of 4927 mg/kg and a standard deviation of 1625. The sample results used for derivation of the SSLs ranged from 3,100 to 7,610 mg/kg with an average of 4927 mg/kg and a standard deviation of 1625.

A DAF is often used to account for concentration reduction through natural attenuation (physical, chemical, and biological processes). These processes include adsorption onto soil, chemical transformation (e.g., hydrolysis, precipitation), microbial/biological degradation, and dilution with unaffected ground water. The DAF is multiplied in the equations by the goal concentration in water (C_w). Although the U.S. EPA suggests use of a DAF of 20, as a conservative measure to evaluate a potential worst-case scenario, the DAF for the calculation of SSLs at the site was assumed to be negligible (one). A DAF of one was selected both because it is a conservative approach, and because some of the deeper underground lines are in the saturated zone.

The chemical-specific parameters (e.g., H' or K_d) utilized in the equations were obtained from the Region 9 PRG website (U.S. EPA 2004). The chemical-specific parameters and site-specific SSLs are presented in Table 4-4.

4.4 DATA QUALITY AND USABILITY EVALUATION

To ensure that the data meet the overall project objectives for data usability, the sampling program and the analytical methods chosen must meet project specific objectives for data quality indicators of precision, accuracy, representativeness, comparability, completeness, and sensitivity (PARCCS). Usability of data with regard to precision, accuracy, and completeness was evaluated through comparison of quality control (QC) sample results to data quality objectives (DQOs) for these specific data quality indicators during the data validation process as discussed in Section 4.4.2. Sensitivity was evaluated through comparison of the method detection limits (MDLs) and sample quantitation limits (SQLs) with the screening values as discussed in Section 4.4.3. DQOs of representativeness and comparability were insured through use of standard methodology by a certified laboratory as described in the QAPP. Samples were analyzed by GPL Laboratories, LLLP (GPL) at their

7210 Corporate Center, Frederick MD facility using the U.S. EPA SW-846 methodologies outlined in the approved project QAPP (EA 2006a).

QC samples included field duplicates, laboratory control samples, rinsate blanks, trip blanks, laboratory method blanks, matrix spikes (MS) and matrix spike duplicates (MSD). The QAPP described the required frequency and type of QC samples and analyses.

4.4.1 Data Verification and Validation

Data verification includes evaluation of the data set for completeness, correctness, and compliance with proposed methods as set forth in the project planning documents. Verification, such as data calculations and confirmation of method performance, was performed by GPL as part of their quality assurance (QA) program. Additional data verification was performed by EA upon receipt of data. This verification consisted of a completeness check to ensure that normal and quality control samples were analyzed as requested on the field chain-of-custody and required data from normal and QC samples were submitted in the electronic data deliverable (EDD).

During verification, it was discovered that two samples, C7-SOM-SL-X19-UN01-6 and C7-SOM-SL-X18-UN01-3, were not analyzed for VOCs as requested on the chain-of-custody. This deficiency impacts completeness as described in Section 4.4.2.

Table 4-5 summarizes the number and frequency of QC samples collected during the UURI. Frequency of QC sample collection met the project objectives of 20% for MS/MSD and rinsate blank samples, but was slightly below the field duplicate frequency goal of 10%. The actual field duplicate collection frequency was 9.7%. However, enough duplicate samples were collected for assessment of precision and accuracy by the data validator and the negligible margin by which the objective was missed does not affect data usability and did not require qualification of the data by the validator.

Once EDDs were verified for completeness and each deficiency was noted, the EDDs and laboratory data reports were forwarded to a third party data validator.

Data validation is a systematic process of reviewing sample/analyte specific data against a set of method criteria and DQOs to ascertain whether the quality of the data set is adequate for its intended use. Data validation was performed by H&S Environmental Inc. from their 1257 Worcester Road, Farmingham Massachusetts location. Level IV validation was performed on 100% of the site characterization data using U.S. EPA Region 2 Data Validation Standard Operating Procedures (SOPs), specifically:

- VOCs - The U.S. EPA Region 2 SOP HW-24, Revision 1, June 1999: Validating Volatile Organic Compounds by SW-846 Method 8260B.
- Metals and Cyanide - The U.S. EPA Region 2 SOP No. HW-2, Revision 11, January 1992, for Evaluation of Metals Data for the Contract Laboratory Program
- SVOCs and PAHs - The U.S. EPA Region 2 SOP No. HW-22, Revision 2, June 2001: Validating Semivolatile Organic Compounds by SW846 Method 8270C.
- Explosives - The U.S. EPA Region 2 SOP, Revision 1.3, September 1994: Validating Explosive Residues by HPLC and the U.S. EPA Region 2 SOP No. HW-22, Revision 2, June 2001: Validating Semivolatile Organic Compounds by SW846 Method 8270C.
- Pesticide - The U.S. EPA Region 2 SOP No. HW-23, Revision 0, April 1995: Validating Pesticide/PCB Compounds by SW-846 Method 8080A.
- PCBs - The U.S. EPA Region 2 SOP No. HW-23B, Revision 1.0, May 2002: Validating PCB Compounds by SW-846 Method 8082.

Validation of the data resulted in application of data qualifiers which indicate the effect of quality control results on the site data. For example, data with a "J" indicates that the data are estimated because, for example, precision requirement may have been beyond the required quality control limits. When the "J"-qualified data represent a detected result between the MDL and the SQL (see Section 4.4.3), the result is not quantitatively reliable, but does confidently demonstrates that the analyte is present in the sample at a concentration exceeding zero. "U"-qualified data indicate that the analyte was not detected above the numerical value displayed. Table 4-6 lists the qualifiers used by the validators and their definition. With the exception of IDW data, the data presented in this report has been validated and is presented with the validated qualifier.

QC data results used by the validator are presented in Appendix H and include results from blanks (trip blank and equipment rinsate blanks), field duplicates, MS and MSD.

Trip blanks were analyzed for VOCs to evaluate possible contamination of samples during transport. Rinsate blanks are analyzed to monitor the efficacy of the field decontamination procedures and were analyzed for VOCs, SVOCs, pesticides, PCBs, metals, and explosives. The blanks were collected from each batch of decontaminated field equipment and were associated with samples collected using the equipment in that decontamination batch.

Methylene chloride and acetone were the primary organic contaminants reported in the trip and rinsate blanks. If the sample result for common laboratory contaminants is less than ten times the constituent result in the blank, the sample result is qualified as non-detect ("U" qualifier). These are common laboratory contaminants and are not likely indicative of incomplete decontamination or contamination during transport. Additional VOCs, including carbon disulfide, chloroform, and xylenes were reported in the trip blank samples. These may indicate possible contamination during transport or contamination of the water supply used for the trip blanks. If these less common laboratory contaminants are reported in the blanks, sample results are qualified as non-detect ("U" qualifier) if the reported sample concentration is less then five times the concentration reported in the blank.

Concentrations of SVOCs, pesticides, explosives, and metals were reported in the rinsate blanks. However, these concentrations were relatively low in comparison to site sample results from the associated batch. If the constituent result in the sample was less than five times the constituent result in the rinsate blank, the sample result was qualified as a non-detect.

Field duplicates and MS/MSDs were analyzed for the same analytical suite as the parent samples (VOCs, SVOCs, pesticides, PCBs, explosives, metals, and cyanide). Effects of matrix on accuracy and precision were evaluated by the validator by reviewing the percent recovery and relative percent difference between the MS and MSD, respectively. Data were qualified as appropriate based on whether recovery and precision were within data quality objectives.

In addition to duplicates, QA split samples were evaluated by the USACE and the findings are presented in the Chemical Quality Assurance Report (CQAR) which is included in Appendix H. QA split samples were collected by the USACE per the FSP to assess laboratory quality assurance. Split samples were collected at a frequency of 5%. The QA splits assess the precision and comparability of the contract laboratory with a USACE-selected laboratory. A total of 23 samples were submitted for split analysis. Overall the data comparisons in the CQAR support the acceptability of the contract laboratory data used in the UURI.

4.4.2 Data Usability and Completeness

Where quality control sample results did not meet data quality objectives, site data were qualified. This resulted in some of the data being estimated ("J"-qualified), but usable, and some of the data being rejected ("R"-qualified). "J"-qualified data are used in this RI and associated human health risk assessment as non-qualified data would be used (i.e., with no limitations) during comparison to screening criteria. However, "J"-qualified data reported between the MDL and SQL have less quantitative reliability, as discussed in Section 4.4.1.

Rejected data are critical because they impact completeness and may result in the inability to meet project objectives. Completeness is the quantity of valid measurements to proposed measurements, and is calculated as follows:

$$\textit{Completeness} = \frac{\textit{Number of Valid Laboratory Measurements Made}}{\textit{Number of Laboratory Measurements Planned}} \times 100\%$$

The analytical data completeness objective is 90 %. During the UURI, 75,524 data results were obtained and 1,139 results were rejected during the data validation process, resulting in an overall completeness of 98.49%, reduced from 100% due to rejected data. When evaluated on a matrix by analyte specific basis, some analytes did not meet the 90% completeness goal, as listed below:

- 1,2-dibromo-3-chloropropane – 56.4% usable results for wastewater. Total useable results percentage across all matrices was 87.0%.
- 2-butanone – 86.6 in sludge, 85.7% in soil, and 17.7% in wastewater. Total usable results percentage across all matrices was 66.9%.
- 4,4'-DDE – 82.4% usable results for surface soil. Total usable results percentage across all matrices was 97.9%.
- 4,4'-DDT– 82.4% usable results for surface soil. Total usable results percentage across all matrices was 97.9%.
- acetone – 30.7% in wastewater. Total usable results percentage across all matrices was 75.5%.
- n-nitrosodi-n-propylamine – 77.8% for surface soil. Total usable results percentage across all matrices was 98.6%.
- pentachlorophenol – 85.7% in sludge and 87.2 in subsurface soil. Total usable results percentage across all matrices was 88.25%.

Data were rejected for various reasons including high or low recovery and relative percent differences, temperature and holding time exceedances, method, rinse blank, or trip blank contamination among others. Rejected data are qualified with an "R" and are included in the complete data tables included in Appendix I.

In addition to the rejected data, two samples (and a duplicate) were inadvertently not analyzed for VOCs by the laboratory. This resulted in a lower completeness based on the ratio of valid measurements to planned measurements. There are 43 VOCs on the TCL, resulting in a planned number of measurements of 75,653 (75,524 + 129). Of the planned measurements, 74,385 (75,524 – 1,139) were usable (i.e., not rejected), resulting in a completeness of 98.32%.

The resulting reduction in the percentage of useable data due to rejection during data validation did not affect the overall usability. The analytes that did not meet completeness goals were not risk drivers in the HHRA.

4.4.3 Sensitivity

The measure of sensitivity is made by a direct comparison of MDLs and RLs to the screening values. Because the U.S. EPA Region 9 PRGs screening values are the primary values used for selection of COPCs, they set the standard for sensitivity. A sensitivity analysis was presented in the QAPP based on RLs achievable by the method. However, matrix effects and required dilutions can increase the sample-specific RL, known as the sample quantitation limit (SQL). Definitions of the MDL, RL, and SQL are included below for reference:

> MDL – the minimum concentration of a substance that can be measured and reported with a 99% confidence that the concentration is greater than zero.
>
> RL – a sensitivity requirement based on project specific action levels, set at or above the limit of quantitation determined by the laboratory.
>
> SQL – the minimum concentration of a substance in a sample matrix, taking into effect sample characteristics that may affect quantitation (e.g., dilution, concentration, matrix effects) that can be reported with a specified level of confidence.

Because SQLs may differ than the RLs presented in the QAPP, a sensitivity analysis was performed on the UURI sample data. A summary of those samples with SQLs exceeding the PRG and TAGM screening values are presented in matrix-specific Tables 4-8 through 4-13. Highlighting in the tables for solid matrices indicates whether the SQL exceeded the industrial and/or residential U.S. EPA Region 9 PRG. The TAGM 4046 screening values are also included on the tables for reference. Highlighting in the tables for liquid matrices indicates whether the SQL exceeded the U.S. EPA Region 9 Tap water PRG, the NYSDEC TOG, or both. Table 4-7 provides a summary of abbreviations and designations for Tables 4-8 through 4-13. In those instances where SQLs exceed the screening values, it is impossible to determine if the constituent is present in concentrations that may result in risk. Discussion of the data results in these circumstances reflects some uncertainty (Chapter 5). While some SQLs were only slightly above the screening criteria, SQLs for PCBs and pesticides for several sludge and soil samples exceeded the associated screening criterion by an order of magnitude or more. The higher SQLs were due to dilutions and interference from reported Aroclor. Additional Aroclors are potentially present at concentrations below the SQL but could not be quantified due to interference.

Under some circumstances, the higher SQLs also have an effect on the risk assessment (reported under separate cover) by reducing the data set of reported concentrations and requiring the use of the highest reported concentration as the exposure point concentration rather than the 95% upper confidence level of the mean. This effect is discussed in more detail in the UURI risk assessment.

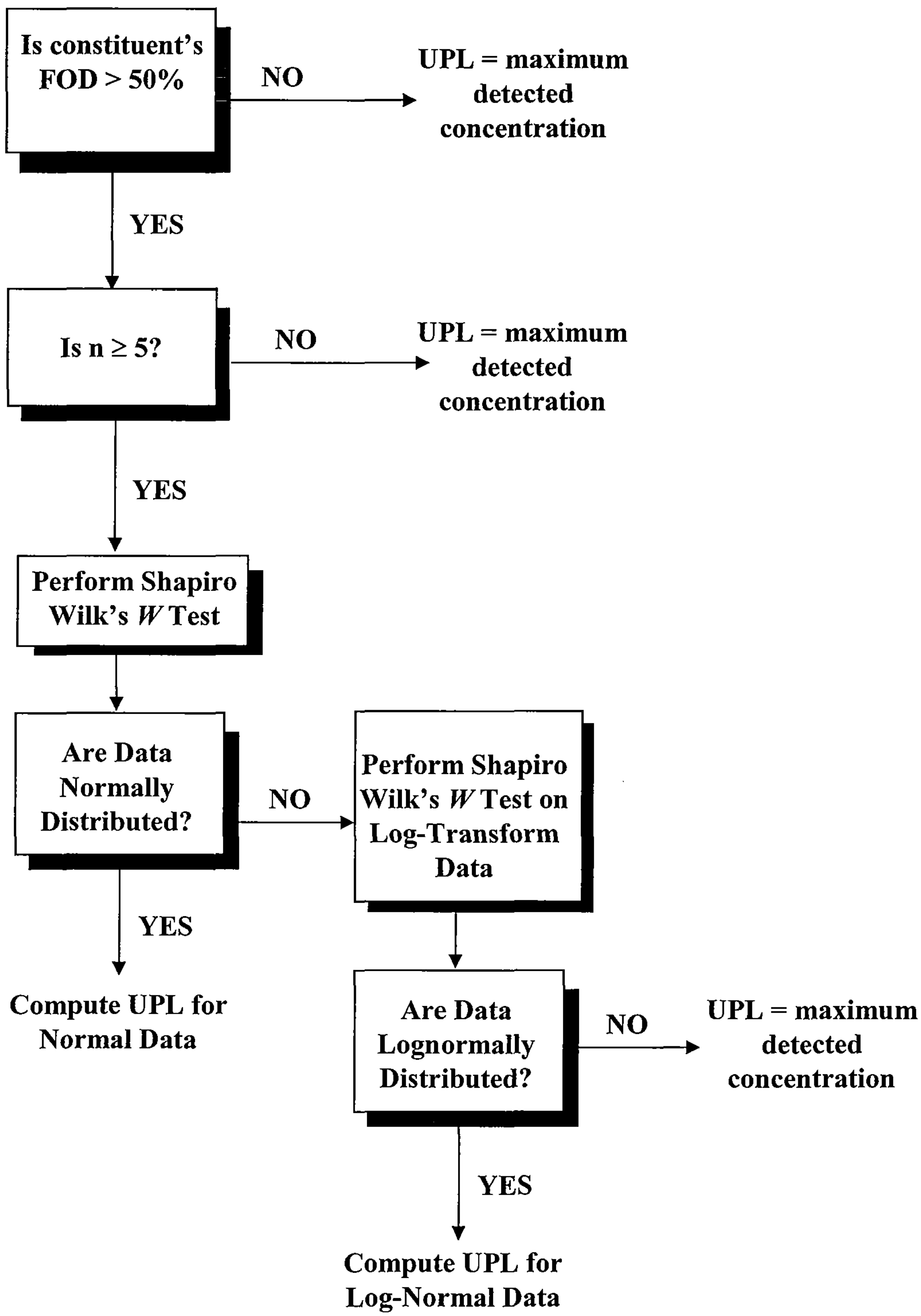


FIGURE 4-1 PROCEDURE USED TO CALCULATE THE 95 PERCENTILE UPPER PREDICTION LIMIT (UPL) OF BACKGROUND DATA

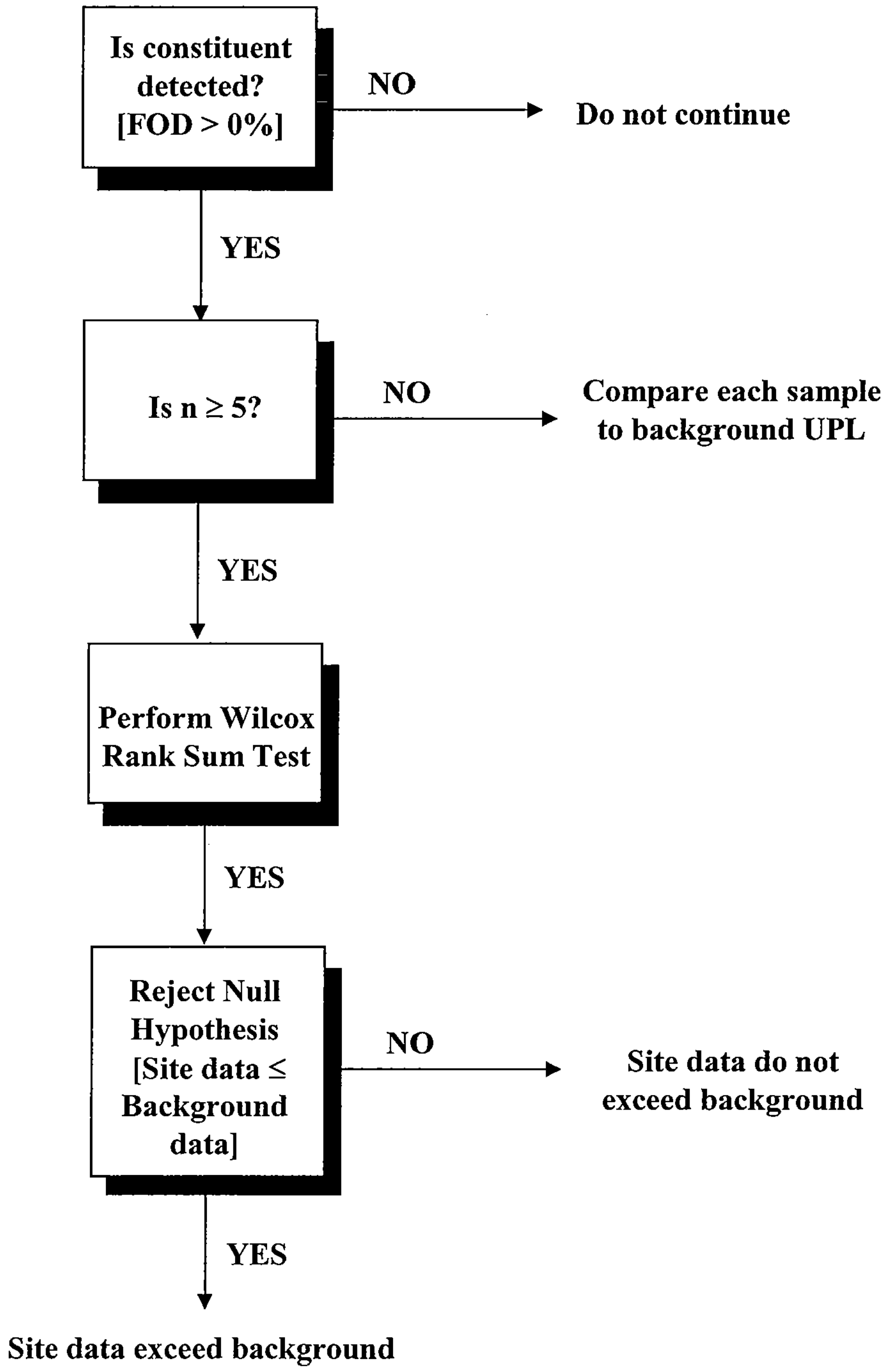


FIGURE 4-2 DECISION TREE FOR COMPARISON TO BACKGROUND DATA

TABLE 4-1 RISK-BASED CRITERIA USED FOR EVALUATION OF SOIL, SLUDGE, AND SEDIMENT

ANALYTE	CAS	PRG INDUSTRIAL SOIL[1]	PRG INDUSTRIAL SOIL UNIT	PRG RESIDENTIAL SOIL[2]	PRG RESIDENTIAL SOIL UNIT	NY TAGM SOIL[3]	NY TAGM SOIL UNIT
Volatile Organic Compounds							
1,1,1-TRICHLOROETHANE	71-55-6	120000	UG/KG	120000	UG/KG	700000	UG/KG
1,1,2,2-TETRACHLOROETHANE	79-34-5	930	UG/KG	410	UG/KG	35000	UG/KG
1,1,2-TRICHLOROETHANE	79-00-5	1600	UG/KG	730	UG/KG		
1,1-DICHLOROETHANE	75-34-3	170000	UG/KG	51000	UG/KG	800000	UG/KG
1,1-DICHLOROETHYLENE	75-35-4	41000	UG/KG			12000	UG/KG
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	1100	UG/KG	210	UG/KG		
1,2-DICHLOROBENZENE	95-50-1	60000	UG/KG	60000	UG/KG		
1,2-DICHLOROETHANE	107-06-2	600	UG/KG	280	UG/KG	7700	UG/KG
1,2-DICHLOROETHENE (TOTAL)	540-59-0						
1,2-DICHLOROPROPANE	78-87-5	740	UG/KG	340	UG/KG		
1,3-DICHLOROBENZENE	541-73-1	60000	UG/KG	53000	UG/KG		
1,4-DICHLOROBENZENE	106-46-7	7900	UG/KG	3400	UG/KG		
2-BUTANONE	78-93-3	11000000	UG/KG	2200000	UG/KG	400000	UG/KG
4-METHYL-2-PENTANONE	108-10-1	4700000	UG/KG	530000	UG/KG	400000	UG/KG
ACETONE	67-64-1	5400000	UG/KG	1400000	UG/KG	800000	UG/KG
BENZENE	71-43-2	1400	UG/KG	640	UG/KG	24000	UG/KG
BROMODICHLOROMETHANE	75-27-4	1800	UG/KG	820	UG/KG		
BROMOMETHANE	74-83-9	1300	UG/KG	390	UG/KG		
CARBON DISULFIDE	75-15-0	72000	UG/KG	36000	UG/KG	800000	UG/KG
CARBON TETRACHLORIDE	56-23-5	550	UG/KG	220	UG/KG	5400	UG/KG
CHLOROBENZENE	108-90-7	53000	UG/KG	15000	UG/KG	200000	UG/KG
CHLOROBROMOMETHANE	74-97-5						
CHLORODIBROMOMETHANE	124-48-1	2600	UG/KG	1100	UG/KG		
CHLOROETHANE	75-00-3	6500	UG/KG	3000	UG/KG		
CHLOROFORM	67-66-3	470	UG/KG			80000	UG/KG
CHLOROMETHANE	74-87-3	16000	UG/KG	4700	UG/KG		
CIS-1,2-DICHLOROETHENE	156-59-2	15000	UG/KG	4300	UG/KG	80000	UG/KG
CIS-1,3-DICHLOROPROPENE	10061-01-5	1800	UG/KG	780	UG/KG		
DICHLORODIFLUOROMETHANE	75-71-8	31000	UG/KG	9400	UG/KG		
ETHYLBENZENE	100-41-4	40000	UG/KG	40000	UG/KG	800000	UG/KG
ETHYLENE DIBROMIDE	106-93-4	73	UG/KG	32	UG/KG		
ISOPROPYLBENZENE	98-82-8	200000	UG/KG	57000	UG/KG		
M+P-XYLENE	MP_XYLENES	42000	UG/KG	27000	UG/KG	20000000	UG/KG
METHYL N-BUTYL KETONE	591-78-6						
METHYLENE CHLORIDE	75-09-2	21000	UG/KG	9100	UG/KG	93000	UG/KG
O-XYLENE	95-47-6	42000	UG/KG	27000	UG/KG	20000000	UG/KG
STYRENE	100-42-5	170000	UG/KG	170000	UG/KG		
TERT-BUTYL METHYL ETHER	1634-04-4	70000	UG/KG	32000	UG/KG		
TETRACHLOROETHENE	127-18-4	1300	UG/KG	480	UG/KG	14000	UG/KG
TOLUENE	108-88-3	52000	UG/KG	52000	UG/KG	2000000	UG/KG

TABLE 4-1 RISK-BASED CRITERIA USED FOR EVALUATION OF SOIL, SLUDGE, AND SEDIMENT

ANALYTE	CAS	PRG INDUSTRIAL SOIL[1]	PRG INDUSTRIAL SOIL UNIT	PRG RESIDENTIAL SOIL[2]	PRG RESIDENTIAL SOIL UNIT	NY TAGM SOIL[3]	NY TAGM SOIL UNIT
TRANS-1,2-DICHLOROETHENE	156-60-5	23000	UG/KG	6900	UG/KG	200000	UG/KG
TRANS-1,3-DICHLOROPROPENE	10061-02-6						
TRIBOMOMETHANE	75-25-2	220000	UG/KG	62000	UG/KG		
TRICHLOROETHYLENE	79-01-6	6500	UG/KG	2900	UG/KG	64000	UG/KG
TRICHLOROFLUOROMETHANE	75-69-4	200000	UG/KG	39000	UG/KG		
VINYL CHLORIDE	75-01-4	750	UG/KG	79	UG/KG	360	UG/KG
XYLENES (TOTAL)	1330-20-7	42000	UG/KG	27000	UG/KG	20000000	UG/KG
Semi-Volatile Organic Compounds							
1,2,4-TRICHLOROBENZENE	120-82-1	22000	UG/KG	6200	UG/KG		
1,2-BENZPHENANTHRACENE	218-01-9	210000	UG/KG	62000	UG/KG		
1,2-DICHLOROBENZENE	95-50-1	60000	UG/KG	60000	UG/KG		
1,3-DICHLOROBENZENE	541-73-1	60000	UG/KG	53000	UG/KG		
1,4-DICHLOROBENZENE	106-46-7	7900	UG/KG	3400	UG/KG		
1-METHYLNAPHTHALENE	90-12-0						
2,2'-OXYBIS(1-CHLOROPROPANE)	108-60-1	7400	UG/KG	2900	UG/KG		
2,4,5-TRICHLOROPHENOL	95-95-4	6200000	UG/KG	610000	UG/KG	800000	UG/KG
2,4,6-TRICHLOROPHENOL	88-06-2	6200	UG/KG	610	UG/KG		
2,4-DICHLOROPHENOL	120-83-2	180000	UG/KG	18000	UG/KG	20000	UG/KG
2,4-DIMETHYLPHENOL	105-67-9	1200000	UG/KG	120000	UG/KG		
2,4-DINITROPHENOL	51-28-5	120000	UG/KG	12000	UG/KG	20000	UG/KG
2,4-DINITROTOLUENE	121-14-2	2500	UG/KG	720	UG/KG		
2,6-DINITROTOLUENE	606-20-2	2500	UG/KG	720	UG/KG		
2-CHLORONAPHTHALENE	91-58-7	2300000	UG/KG	490000	UG/KG		
2-CHLOROPHENOL	95-57-8	24000	UG/KG	6300	UG/KG	40000	UG/KG
2-METHYL-4,6-DINITROPHENOL	534-52-1	6200	UG/KG	610	UG/KG		
2-METHYLNAPHTHALENE	91-57-6	19000	UG/KG	5600	UG/KG		
2-METHYLPHENOL	95-48-7	3100000	UG/KG	310000	UG/KG		
2-NITROANILINE	88-74-4	180000	UG/KG	18000	UG/KG		
2-NITROPHENOL	88-75-5	2200	UG/KG	880	UG/KG		
3,3`-DICHLOROBENZIDINE	91-94-1	3800	UG/KG	1100	UG/KG		
3-NITROANILINE	99-09-2	18000	UG/KG	1800	UG/KG		
4-BROMOPHENYL PHENYL ETHER	101-55-3	7400	UG/KG	2900	UG/KG		
4-CHLORO-3-METHYLPHENOL	59-50-7						
4-CHLOROANILINE	106-47-8	250000	UG/KG	24000	UG/KG	30000	UG/KG
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	7400	UG/KG	2900	UG/KG		
4-METHYLPHENOL	106-44-5	310000	UG/KG	31000	UG/KG	400000	UG/KG
4-NITROANILINE	100-01-6	82000	UG/KG	18000	UG/KG		
4-NITROPHENOL	100-02-7	2200	UG/KG	880	UG/KG		
ACENAPHTHENE	83-32-9	2900000	UG/KG	370000	UG/KG	500000	UG/KG
ACENAPHTHYLENE	208-96-8	2900000	UG/KG	370000	UG/KG		
ANTHRACENE	120-12-7	10000000	UG/KG	2200000	UG/KG	2000000	UG/KG

TABLE 4-1 RISK-BASED CRITERIA USED FOR EVALUATION OF SOIL, SLUDGE, AND SEDIMENT

ANALYTE	CAS	PRG INDUSTRIAL SOIL[1]	PRG INDUSTRIAL SOIL UNIT	PRG RESIDENTIAL SOIL[2]	PRG RESIDENTIAL SOIL UNIT	NY TAGM SOIL[3]	NY TAGM SOIL UNIT
BENZ[A]ANTHRACENE	56-55-3	2100	UG/KG	620	UG/KG	224	UG/KG
BENZO[A]PYRENE	50-32-8	210	UG/KG	62	UG/KG	60.9	UG/KG
BENZO[B]FLUORANTHENE	205-99-2	2100	UG/KG	620	UG/KG	224	UG/KG
BENZO[GHI]PERYLENE	191-24-2	2900000	UG/KG	230000	UG/KG		
BENZO[K]FLUORANTHENE	207-08-9	21000	UG/KG	6200	UG/KG	224	UG/KG
BENZYL BUTYL PHTHALATE	85-68-7	10000000	UG/KG	1200000	UG/KG	20000000	UG/KG
BIS(2-CHLOROETHOXY)METHANE	111-91-1						
BIS(2-CHLOROETHYL) ETHER	111-44-4	580	UG/KG	220	UG/KG		
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	120000	UG/KG	35000	UG/KG	50000	UG/KG
CARBAZOLE	86-74-8	86000	UG/KG	24000	UG/KG		
DIBENZ[A,H]ANTHRACENE	53-70-3	210	UG/KG	62	UG/KG	14.3	UG/KG
DIBENZOFURAN	132-64-9	160000	UG/KG	15000	UG/KG		
DIETHYL PHTHALATE	84-66-2	10000000	UG/KG	4900000	UG/KG	6000000	UG/KG
DIMETHYL PHTHALATE	131-11-3	10000000	UG/KG	10000000	UG/KG	8000000	UG/KG
DI-N-BUTYL PHTHALATE	84-74-2	6200000	UG/KG	610000	UG/KG	800000	UG/KG
DI-N-OCTYL PHTHALATE	117-84-0	2500000	UG/KG	240000	UG/KG	200000	UG/KG
FLUORANTHENE	206-44-0	2200000	UG/KG	230000	UG/KG	300000	UG/KG
FLUORENE	86-73-7	2600000	UG/KG	270000	UG/KG	300000	UG/KG
HEXACHLORO-1,3-BUTADIENE	87-68-3	18000	UG/KG	1800	UG/KG		
HEXACHLOROBENZENE	118-74-1	1100	UG/KG	300	UG/KG	410	UG/KG
HEXACHLOROCYCLOPENTADIENE	77-47-4	370000	UG/KG	37000	UG/KG		
HEXACHLOROETHANE	67-72-1	62000	UG/KG	6100	UG/KG		
INDENO[1,2,3-CD]PYRENE	193-39-5	2100	UG/KG	620	UG/KG		
ISOPHORONE	78-59-1	510000	UG/KG	510000	UG/KG	1707000	UG/KG
NAPHTHALENE	91-20-3	19000	UG/KG	5600	UG/KG	30000	UG/KG
NITROBENZENE	98-95-3	10000	UG/KG	2000	UG/KG	4000	UG/KG
N-NITROSODI-N-PROPYLAMINE	621-64-7	250	UG/KG	69	UG/KG		
N-NITROSODIPHENYLAMINE	86-30-6	350000	UG/KG	99000	UG/KG		
PENTACHLOROPHENOL	87-86-5	9000	UG/KG	3000	UG/KG	200000	UG/KG
PHENANTHRENE	85-01-8	19000	UG/KG	5600	UG/KG		
PHENOL	108-95-2	10000000	UG/KG	1800000	UG/KG	5000000	UG/KG
PYRENE	129-00-0	2900000	UG/KG	230000	UG/KG	200000	UG/KG
Pesticides /Polychlorinated Biphenyls							
4,4'-DDD	72-54-8	10000	UG/KG	2400	UG/KG	2900	UG/KG
4,4'-DDE	72-55-9	7000	UG/KG	1700	UG/KG	2100	UG/KG
4,4'-DDT	50-29-3	7000	UG/KG	1700	UG/KG	2100	UG/KG
ALDRIN	309-00-2	100	UG/KG	29	UG/KG	41	UG/KG
ALPHA-BHC	319-84-6	360	UG/KG	90	UG/KG	111	UG/KG
ALPHA-CHLORDANE	5103-71-9	6500	UG/KG	1600	UG/KG		
AROCLOR 1016	12674-11-2	3700	UG/KG	390	UG/KG	1000	UG/KG
AROCLOR 1221	11104-28-2	740	UG/KG	110	UG/KG	1000	UG/KG

TABLE 4-1 RISK-BASED CRITERIA USED FOR EVALUATION OF SOIL, SLUDGE, AND SEDIMENT

ANALYTE	CAS	PRG INDUSTRIAL SOIL[1]	PRG INDUSTRIAL SOIL UNIT	PRG RESIDENTIAL SOIL[2]	PRG RESIDENTIAL SOIL UNIT	NY TAGM SOIL[3]	NY TAGM SOIL UNIT
AROCLOR 1232	11141-16-5	740	UG/KG	110	UG/KG	1000	UG/KG
AROCLOR 1242	53469-21-9	740	UG/KG	110	UG/KG	1000	UG/KG
AROCLOR 1248	12672-29-6	740	UG/KG	110	UG/KG	1000	UG/KG
AROCLOR 1254	11097-69-1	740	UG/KG	110	UG/KG	1000	UG/KG
AROCLOR 1260	11096-82-5	740	UG/KG	110	UG/KG	1000	UG/KG
BETA-BHC	319-85-7	1300	UG/KG	320	UG/KG	3890	UG/KG
CAMPHECHLOR	8001-35-2	1600	UG/KG	440	UG/KG		
CHLORDANE	57-74-9					500	UG/KG
DELTA-BHC	319-86-8	360	UG/KG	90	UG/KG		
DIELDRIN	60-57-1	110	UG/KG	30	UG/KG	44	UG/KG
ENDOSULFAN I	959-98-8	370000	UG/KG	37000	UG/KG		
ENDOSULFAN II	33213-65-9	370000	UG/KG	37000	UG/KG		
ENDOSULFAN SULFATE	1031-07-8	370000	UG/KG	37000	UG/KG		
ENDRIN	72-20-8	18000	UG/KG	1800	UG/KG	20000	UG/KG
ENDRIN ALDEHYDE	7421-93-4	18000	UG/KG	1800	UG/KG		
ENDRIN KETONE	53494-70-5	18000	UG/KG	1800	UG/KG		
GAMMA-BHC	58-89-9	1700	UG/KG	440	UG/KG	2000	UG/KG
GAMMA-CHLORDANE	5103-74-2	6500	UG/KG	1600	UG/KG	500	UG/KG
HEPTACHLOR	76-44-8	380	UG/KG	110	UG/KG	160	UG/KG
HEPTACHLOR EPOXIDE	1024-57-3	190	UG/KG	53	UG/KG	77	UG/KG
METHOXYCHLOR	72-43-5	310000	UG/KG	31000	UG/KG	40000	UG/KG
Explosives							
1,3,5-TRINITROBENZENE	99-35-4	1800000	UG/KG	180000	UG/KG		
1,3-DINITROBENZENE	99-65-0	6200	UG/KG	610	UG/KG		
2,4,6-TRINITROTOLUENE	118-96-7	31000	UG/KG	3100	UG/KG		
2,4-DINITROTOLUENE	121-14-2	2500	UG/KG	720	UG/KG		
2,6-DINITROTOLUENE	606-20-2	2500	UG/KG	720	UG/KG		
2-AMINO-4,6-DINITROTOLUENE	35572-78-2	12000	UG/KG	1200	UG/KG		
2-NITROTOLUENE	88-72-2	2200	UG/KG	880	UG/KG		
3-NITROTOLUENE	99-08-1	100000	UG/KG	73000	UG/KG		
4-AMINO-2,6-DINITROTOLUENE	19406-51-0	12000	UG/KG	1200	UG/KG		
4-NITROTOLUENE	99-99-0	30000	UG/KG	12000	UG/KG		
HMX	2691-41-0	3100000	UG/KG	310000	UG/KG		
NITROBENZENE	98-95-3	10000	UG/KG	2000	UG/KG	4000	UG/KG
RDX	121-82-4	16000	UG/KG	4400	UG/KG		
TETRYL	479-45-8	620000	UG/KG	61000	UG/KG		
TOTAL 24DNT&26DNT	25321-14-6						
Metals							
ALUMINUM	7429-90-5	10000	MG/KG	7600	MG/KG		
ANTIMONY	7440-36-0	41	MG/KG	3.1	MG/KG		
ARSENIC	7440-38-2	1.6	MG/KG	0.39	MG/KG		

TABLE 4-1 RISK-BASED CRITERIA USED FOR EVALUATION OF SOIL, SLUDGE, AND SEDIMENT

ANALYTE	CAS	PRG INDUSTRIAL SOIL[1]	PRG INDUSTRIAL SOIL UNIT	PRG RESIDENTIAL SOIL[2]	PRG RESIDENTIAL SOIL UNIT	NY TAGM SOIL[3]	NY TAGM SOIL UNIT
BARIUM	7440-39-3	6700	MG/KG	540	MG/KG		
BERYLLIUM	7440-41-7	190	MG/KG	15	MG/KG		
BORON	7440-42-8	10000	MG/KG	1600	MG/KG		
CADMIUM	7440-43-9	45	MG/KG	3.7	MG/KG		
CALCIUM	7440-70-2						
CHROMIUM	7440-47-3	64	MG/KG	22	MG/KG		
COBALT	7440-48-4	1900	MG/KG	140	MG/KG		
COPPER	7440-50-8	4100	MG/KG	310	MG/KG		
IRON	7439-89-6	10000	MG/KG	2300	MG/KG		
LEAD	7439-92-1	800	MG/KG	400	MG/KG		
LITHIUM	7439-93-2	2000	MG/KG	160	MG/KG		
MAGNESIUM	7439-95-4						
MANGANESE	7439-96-5	1900	MG/KG	180	MG/KG		
MERCURY	7439-97-6	31	MG/KG	2.3	MG/KG		
MOLYBDENUM	7439-98-7	510	MG/KG	39	MG/KG		
NICKEL	7440-02-0	2000	MG/KG	160	MG/KG		
POTASSIUM	7440-09-7						
SELENIUM	7782-49-2	510	MG/KG	39	MG/KG		
SILVER	7440-22-4	510	MG/KG	39	MG/KG		
SODIUM	7440-23-5						
THALLIUM	7440-28-0	6.7	MG/KG	0.52	MG/KG		
VANADIUM	7440-62-2	100	MG/KG	7.8	MG/KG		
ZINC	7440-66-6	10000	MG/KG	2300	MG/KG		
General Chemistry							
CYANIDE	57-12-5	1200	MG/KG	120	MG/KG		

[1]U.S. EPA Region 9 PRG Industrial Soil, 2004. For non-carcinogens, value shown is equal to 1/10 the industrial soil PRG value. For carcinogens the value shown is equal to the industrial soil PRG value.

[2]U.S. EPA Region 9 PRG Residential Soil, 2004. For non-carcinogens, value shown is equal to 1/10 the residential soil PRG value. For carcinogens the value shown is equal to the residential soil PRG value. For trichloroethylene, the California-Modified PRG is used.

For those compounds where PRGs were not available, surrogates used: aminodinitrotoluene for 2-amino-4,6-dinitrotoluene and 4-amino-2,6-dinitrotoluene, chromium IV for chromium, acenaphthene for acenaphthylene, pyrene for benzo(ghi)perylene, naphthalene for phenanthrene, and alpha-bhc for delta-bhc.

[3]New York State TAGM 4046 Soil, 1999. Also note that TAGM 4046 values are not presented for metals because they are were not derived for protection of human health. The TAGM 4046 values were based upon New York State background metals concentrations in soil. A separate site-specific background evaluation was performed during the Phase III RI (see Section 4.3.1).

TABLE 4-2 RISK-BASED CRITERIA USED FOR EVALUATION OF WASTEWATER, SURFACE WATER, AND BEDDING MATERIAL WATER

ANALYTE	PRG TAP WATER[1]	PRG TAP WATER UNIT	NY TOG[2]	NY TOG UNIT
Volatile Organic Compounds				
1,1,1-TRICHLOROETHANE	320	UG/L	5	UG/L
1,1,2,2-TETRACHLOROETHANE	0.055	UG/L	0.2	UG/L
1,1,2-TRICHLOROETHANE	0.2	UG/L	1	UG/L
1,1-DICHLOROETHANE	81	UG/L	5	UG/L
1,1-DICHLOROETHYLENE			0.7	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	0.035	UG/L	0.04	UG/L
1,2-DICHLOROBENZENE	37	UG/L	5	UG/L
1,2-DICHLOROETHANE	0.12	UG/L	0.6	UG/L
1,2-DICHLOROETHENE (TOTAL)				
1,2-DICHLOROPROPANE	0.16	UG/L	1	UG/L
1,3-DICHLOROBENZENE	18	UG/L	5	UG/L
1,4-DICHLOROBENZENE	0.5	UG/L	5	UG/L
2-BUTANONE	700	UG/L	50	UG/L
4-METHYL-2-PENTANONE	200	UG/L		
ACETONE	550	UG/L	50	UG/L
BENZENE	0.35	UG/L	10	UG/L
BROMODICHLOROMETHANE	0.18	UG/L	5	UG/L
BROMOMETHANE	0.87	UG/L	5	UG/L
CARBON DISULFIDE	100	UG/L	60	UG/L
CARBON TETRACHLORIDE	0.17	UG/L	0.4	UG/L
CHLOROBENZENE	11	UG/L	400	UG/L
CHLOROBROMOMETHANE				
CHLORODIBROMOMETHANE	0.13	UG/L	50	UG/L
CHLOROETHANE	4.6	UG/L	5	UG/L
CHLOROFORM			7	UG/L
CHLOROMETHANE	16	UG/L	5	UG/L
CIS-1,2-DICHLOROETHENE	6.1	UG/L	5	UG/L
CIS-1,3-DICHLOROPROPENE	0.4	UG/L		
DICHLORODIFLUOROMETHANE	39	UG/L	5	UG/L
ETHYLBENZENE	130	UG/L	17	UG/L
ETHYLENE DIBROMIDE	0.0056	UG/L	0.0006	UG/L
ISOPROPYLBENZENE	66	UG/L	2.6	UG/L
M+P-XYLENE	21	UG/L		
METHYL N-BUTYL KETONE			50	UG/L
METHYLENE CHLORIDE	4.3	UG/L	200	UG/L
O-XYLENE	21	UG/L	65	UG/L
STYRENE	160	UG/L	5	UG/L
TERT-BUTYL METHYL ETHER	11	UG/L	10	UG/L
TETRACHLOROETHENE	0.1	UG/L	1	UG/L
TOLUENE	72	UG/L	100	UG/L
TRANS-1,2-DICHLOROETHENE	12	UG/L	5	UG/L
TRANS-1,3-DICHLOROPROPENE				
TRIBOMOMETHANE	8.5	UG/L	50	UG/L
TRICHLOROETHYLENE	1.4	UG/L	40	UG/L
TRICHLOROFLUOROMETHANE	130	UG/L	5	UG/L
VINYL CHLORIDE	0.02	UG/L	0.3	UG/L
XYLENES (TOTAL)	21	UG/L		
Semi-Volatile Organic Compounds				
1,2,4-TRICHLOROBENZENE	0.72	UG/L	5	UG/L
1,2-BENZPHENANTHRACENE	9.2	UG/L	0.002	UG/L
1,2-DICHLOROBENZENE	37	UG/L	5	UG/L
1,3-DICHLOROBENZENE	18	UG/L	5	UG/L
1,4-DICHLOROBENZENE	0.5	UG/L	5	UG/L
2,2'-OXYBIS(1-CHLOROPROPANE)	0.27	UG/L	5	UG/L
2,4,5-TRICHLOROPHENOL	360	UG/L		
2,4,6-TRICHLOROPHENOL	0.36	UG/L		

TABLE 4-2 RISK-BASED CRITERIA USED FOR EVALUATION OF WASTEWATER, SURFACE WATER, AND BEDDING MATERIAL WATER

ANALYTE	PRG TAP WATER[1]	PRG TAP WATER UNIT	NY TOG[2]	NY TOG UNIT
2,4-DICHLOROPHENOL	11	UG/L	0.3	UG/L
2,4-DIMETHYLPHENOL	73	UG/L	1000	UG/L
2,4-DINITROPHENOL	7.3	UG/L	400	UG/L
2,4-DINITROTOLUENE	0.099	UG/L	5	UG/L
2,6-DINITROTOLUENE	0.099	UG/L	0.07	UG/L
2-CHLORONAPHTHALENE	49	UG/L	10	UG/L
2-CHLOROPHENOL	3	UG/L		
2-METHYL-4,6-DINITROPHENOL	0.36	UG/L		
2-METHYLNAPHTHALENE	0.62	UG/L	4.7	UG/L
2-METHYLPHENOL	180	UG/L		
2-NITROANILINE	11	UG/L	5	UG/L
2-NITROPHENOL	0.049	UG/L		
3,3`-DICHLOROBENZIDINE	0.15	UG/L	5	UG/L
3-NITROANILINE	1.1	UG/L	5	UG/L
4-BROMOPHENYL PHENYL ETHER	0.27	UG/L		
4-CHLORO-3-METHYLPHENOL				
4-CHLOROANILINE	15	UG/L	5	UG/L
4-CHLOROPHENYL PHENYL ETHER	0.27	UG/L		
4-METHYLPHENOL	18	UG/L		
4-NITROANILINE	3.2	UG/L	5	UG/L
4-NITROPHENOL	0.049	UG/L		
ACENAPHTHENE	37	UG/L	5.3	UG/L
ACENAPHTHYLENE	37	UG/L		
ANTHRACENE	180	UG/L	3.8	UG/L
BENZ[A]ANTHRACENE	0.092	UG/L	0.03	UG/L
BENZO[A]PYRENE	0.0092	UG/L	0.0012	UG/L
BENZO[B]FLUORANTHENE	0.092	UG/L	0.002	UG/L
BENZO[GHI]PERYLENE	18	UG/L		
BENZO[K]FLUORANTHENE	0.92	UG/L	0.002	UG/L
BENZYL BUTYL PHTHALATE	730	UG/L	50	UG/L
BIS(2-CHLOROETHOXY)METHANE			5	UG/L
BIS(2-CHLOROETHYL) ETHER	0.01	UG/L	0.03	UG/L
BIS(2-ETHYLHEXYL) PHTHALATE	4.8	UG/L	0.6	UG/L
CARBAZOLE	3.4	UG/L		
DIBENZ[A,H]ANTHRACENE	0.0092	UG/L		
DIBENZOFURAN	1.2	UG/L		
DIETHYL PHTHALATE	2900	UG/L	50	UG/L
DIMETHYL PHTHALATE	36000	UG/L	50	UG/L
DI-N-BUTYL PHTHALATE	360	UG/L	50	UG/L
DI-N-OCTYL PHTHALATE	150	UG/L	50	UG/L
FLUORANTHENE	150	UG/L	50	UG/L
FLUORENE	24	UG/L	0.54	UG/L
HEXACHLORO-1,3-BUTADIENE	0.86	UG/L	0.01	UG/L
HEXACHLOROBENZENE	0.042	UG/L	0.00003	UG/L
HEXACHLOROCYCLOPENTADIENE	22	UG/L		
HEXACHLOROETHANE	3.6	UG/L	0.6	UG/L
INDENO[1,2,3-CD]PYRENE	0.092	UG/L	0.002	UG/L
ISOPHORONE	71	UG/L	50	UG/L
NAPHTHALENE	0.62	UG/L	13	UG/L
NITROBENZENE	0.34	UG/L	0.4	UG/L
N-NITROSODI-N-PROPYLAMINE	0.0096	UG/L		
N-NITROSODIPHENYLAMINE	14	UG/L	50	UG/L
PENTACHLOROPHENOL	0.56	UG/L		
PHENANTHRENE	0.62	UG/L	5	UG/L
PHENOL	1100	UG/L	1	UG/L
PYRENE	18	UG/L	4.6	UG/L

TABLE 4-2 RISK-BASED CRITERIA USED FOR EVALUATION OF WASTEWATER, SURFACE WATER, AND BEDDING MATERIAL WATER

ANALYTE	PRG TAP WATER[1]	PRG TAP WATER UNIT	NY TOG[2]	NY TOG UNIT
Pesticides /Polychlorinated Biphenyls				
4,4'-DDD	0.28	UG/L	0.0008	UG/L
4,4'-DDE	0.2	UG/L	0.000007	UG/L
4,4'-DDT	0.2	UG/L	0.00001	UG/L
ALDRIN	0.004	UG/L	5	UG/L
ALPHA-BHC	0.011	UG/L	0.002	UG/L
ALPHA-CHLORDANE	0.19	UG/L		
AROCLOR 1016	0.26	UG/L		
AROCLOR 1221	0.034	UG/L		
AROCLOR 1232	0.034	UG/L		
AROCLOR 1242	0.034	UG/L		
AROCLOR 1248	0.034	UG/L		
AROCLOR 1254	0.034	UG/L		
AROCLOR 1260	0.034	UG/L		
BETA-BHC	0.037	UG/L	0.007	UG/L
CAMPHECHLOR	0.061	UG/L	0.000006	UG/L
CHLORDANE			0.00002	UG/L
DELTA-BHC	0.011	UG/L	0.008	UG/L
DIELDRIN	0.0042	UG/L	0.0000006	UG/L
ENDOSULFAN I	22	UG/L		
ENDOSULFAN II	22	UG/L		
ENDOSULFAN SULFATE	22	UG/L		
ENDRIN	1.1	UG/L	0.002	UG/L
ENDRIN ALDEHYDE	1.1	UG/L	5	UG/L
ENDRIN KETONE	1.1	UG/L	5	UG/L
GAMMA-BHC	0.052	UG/L	0.008	UG/L
GAMMA-CHLORDANE	0.19	UG/L		
HEPTACHLOR	0.015	UG/L	0.0002	UG/L
HEPTACHLOR EPOXIDE	0.0074	UG/L	0.0003	UG/L
METHOXYCHLOR	18	UG/L	0.03	UG/L
Explosives				
1,3,5-TRINITROBENZENE	110	UG/L	5	UG/L
1,3-DINITROBENZENE	0.36	UG/L	5	UG/L
2,4,6-TRINITROTOLUENE	1.8	UG/L	5	UG/L
2,4-DINITROTOLUENE	0.099	UG/L	5	UG/L
2,6-DINITROTOLUENE	0.099	UG/L	0.07	UG/L
2-AMINO-4,6-DINITROTOLUENE	0.73	UG/L		
2-NITROTOLUENE	0.049	UG/L	5	UG/L
3-NITROTOLUENE	12	UG/L	5	UG/L
4-AMINO-2,6-DINITROTOLUENE	0.73	UG/L		
4-NITROTOLUENE	0.66	UG/L	5	UG/L
HMX	180	UG/L		
NITROBENZENE	0.34	UG/L	0.4	UG/L
RDX	0.61	UG/L		
TETRYL	36	UG/L		
Metals				
ALUMINUM	3600	UG/L	100	UG/L
ANTIMONY	1.5	UG/L	3	UG/L
ARSENIC	0.045	UG/L		
BARIUM	260	UG/L	1000	UG/L
BERYLLIUM	7.3	UG/L	3	UG/L
BORON	730	UG/L	10000	UG/L
CADMIUM	1.8	UG/L	5	UG/L
CALCIUM				
CHROMIUM	11	UG/L		
COBALT	73	UG/L	5	UG/L
COPPER	150	UG/L	200	UG/L

TABLE 4-2 RISK-BASED CRITERIA USED FOR EVALUATION OF WASTEWATER, SURFACE WATER, AND BEDDING MATERIAL WATER

ANALYTE	PRG TAP WATER[1]	PRG TAP WATER UNIT	NY TOG[2]	NY TOG UNIT
IRON	1100	UG/L	300	UG/L
LEAD	15	UG/L		
LITHIUM	73	UG/L		
MAGNESIUM			35000	UG/L
MANGANESE	88	UG/L	300	UG/L
MERCURY	1.1	UG/L		
MOLYBDENUM	18	UG/L		
NICKEL	73	UG/L		
POTASSIUM				
SELENIUM	18	UG/L		
SILVER	18	UG/L	0.1	UG/L
SODIUM				
THALLIUM	0.24	UG/L	8	UG/L
VANADIUM	3.6	UG/L	14	UG/L
ZINC	1100	UG/L		
General Chemistry				
CYANIDE	73	UG/L	5.2	UG/L

[1]U.S. EPA Region 9 PRG Tap Water, 2004. For non-carcinogens, the value shown is equal to 1/10 the tap water PRG value. For carcinogens the value shown is equal to the tap water PRG value. For trichloroethylene, the California-Modified PRG is used. For those compounds where PRGs were not available, surrogates used: aminodinitrotoluene for 2-amino-4,6-dinitrotoluene and 4-amino-2,6-dinitrotoluene, chromium IV for chromium, acenaphthene for acenaphthylene, pyrene for benzo(ghi)perylene, naphthalene for phenanthrene, and alpha-bhc for delta-bhc.
[2]New York State TOG Surface Water, 1998

TABLE 4-3 SOIL PARAMETERS USED FOR CALCULATION OF SITE-SPECIFIC SOIL SCREENING LEVELS

Parameter	Value		Units	Reference
Dilution attenuation factor	DAF =	1	unitless	Conservative Assumption, EPA 1996
Fraction of organic content in soil	foc =	0.00493	mg/mg	Site-Specific
Water-filled porosity	qw =	0.15	Lwater/Lsoil	Golder 1993
Air-filled porosity	qa =	0.25	Lair/Lsoil	Calculated (total minus water-filled)
Total soil porosity	h =	0.4	Lpore/Lsoil	Linsley 1982
Dry soil bulk density	rb =	1.4	kg/L	Dragun 1998

TABLE 4-4 SITE-SPECIFIC SOIL SCREENING LEVELS FOR EVALUATION OF IMPACT TO GROUND WATER

ANALYTE	C_w ug/L	H'	k_{oc} L/kg	k_d L/kg	SSL mg/kg
1,2-DICHLOROBENZENE	3	7.9E-02	4.4E+02	2.2E+00	6.91E+00
1,3-DICHLOROBENZENE	3	1.1E-01	4.3E+02	2.1E+00	6.80E+00
1,4-DICHLOROBENZENE	3	9.9E-02	4.3E+02	2.1E+00	6.79E+00
4-NITROTOLUENE	5	2.3E-04	3.1E+02	1.5E+00	8.15E+00
1,2,4-TRICHLOROBENZENE	5	5.8E-02	7.2E+02	3.5E+00	1.83E+01
1,1,1-TRICHLOROETHANE	5	7.1E-01	1.4E+02	6.9E-01	4.62E+00
1,1,2,2-TETRACHLOROETHANE	5	1.4E-02	7.9E+01	3.9E-01	2.49E+00
1,1,2-TRICHLOROETHANE	1	3.7E-02	7.5E+01	3.7E-01	4.83E-01
1,1-DICHLOROETHANE	5	2.3E-01	5.3E+01	2.6E-01	2.05E+00
1,1-DICHLOROETHENE	5	1.1E+00	6.5E+01	3.2E-01	3.12E+00
1,2-DICHLOROETHANE	0.6	4.0E-02	3.8E+01	1.9E-01	1.81E-01
1-METHYLNAPHTHALENE	none	0.0E+00	0.0E+00	0.0E+00	NA
2,4,6-TRINITROTOLUENE	5	1.9E-05	1.8E+03	9.0E+00	4.57E+01
2,4-DINITROTOLUENE	5	2.2E-06	3.6E+02	1.8E+00	9.50E+00
2-AMINO-4,6-DINITROTOLUENE	7.3	6.6E-09	1.0E+02	5.0E-01	4.40E+00
2-BUTANONE	50	1.1E-03	4.5E+00	2.2E-02	6.48E+00
2-CHLOROPHENOL	30	4.6E-04	4.4E+02	2.2E+00	6.87E+01
2-METHYLNAPHTHALENE	10	2.1E-02	3.0E+03	1.5E+01	1.48E+02
2-METHYLPHENOL	180	4.9E-05	4.4E+02	2.2E+00	4.12E+02
2,4-DIMETHYLPHENOL	730	3.9E-05	7.2E+02	3.5E+00	2.66E+03
4,4'-DDD	0.3	1.6E-04	4.5E+06	2.2E+04	6.61E+03
4,4'-DDE	0.2	8.6E-04	2.6E+06	1.3E+04	2.59E+03
4,4'-DDT	0.2	3.3E-04	6.5E+01	3.2E-01	8.55E-02
4-AMINO-2,6-DINITROTOLUENE	7.3	9.8E-04	6.5E+01	6.4E-01	3.12E+00
4-CHLORO-3-METHYLPHENOL	none	1.0E-04	7.2E+02	4.0E-01	NA
4-METHYL-2-PENTANONE	2000	5.3E-03	1.3E+02	6.4E-01	1.50E+03
4-METHYLPHENOL	180	2.9E-05	8.1E+01	4.0E-01	9.09E+01
ACENAPHTHENE	20	6.4E-03	4.9E+03	2.4E+01	4.85E+02
ACENAPHTHYLENE	20	4.7E-03	2.0E+03	9.9E+00	1.99E+02
ACETONE	50	1.6E-03	5.8E-01	2.9E-03	5.51E+00
ALDRIN	none	7.0E-03	2.5E+06	1.2E+04	NA
ALPHA-BHC	0.01	4.8E-03	1.2E+03	6.1E+00	6.17E-02
ALPHA-CHLORDANE	0.05	2.0E-03	1.2E+05	5.9E+02	2.96E+01
ALUMINUM	36000	0.0E+00	0.0E+00	1.5E+03	5.40E+07
ANTHRACENE	50	2.7E-03	2.4E+04	1.2E+02	5.92E+03
ANTIMONY	3	0.0E+00	0.0E+00	4.5E+01	1.35E+02
AROCLOR 1232	0.9	9.3E-03	1.0E+04	5.1E+01	4.58E+01
AROCLOR 1242	0.9	1.4E-02	4.5E+04	2.2E+02	1.99E+02
AROCLOR 1248	0.9	1.8E-02	4.4E+04	2.2E+02	1.95E+02
AROCLOR 1254	0.9	1.2E-02	7.6E+04	3.7E+02	3.35E+02
AROCLOR 1260	0.9	1.4E-02	2.1E+05	1.0E+03	9.18E+02
ARSENIC	25	0.0E+00	0.0E+00	2.0E+02	5.00E+03
BARIUM	1000	0.0E+00	0.0E+00	4.1E+01	4.11E+04
BENZ[A]ANTHRACENE	0.002	1.4E-04	4.0E+05	2.0E+03	3.92E+00
BENZENE	1	2.3E-01	6.2E+01	3.1E-01	4.54E-01
BENZO[A]PYRENE	none	4.6E-05	1.0E+06	5.0E+03	NA
BENZO[B]FLUORANTHENE	0.002	4.6E-03	1.2E+06	6.1E+03	1.21E+01
BENZO[GHI]PERYLENE	none	5.8E-06	3.9E+06	1.9E+04	NA
BENZO[K]FLUORANTHENE	0.002	3.4E-05	1.2E+06	6.1E+03	1.21E+01
BENZYL BUTYL PHTHALATE	50	5.2E-05	5.8E+04	2.8E+02	1.42E+04
BERYLLIUM	3	0.0E+00	0.0E+00	7.9E+02	2.37E+03
BETA-BHC	0.04	4.8E-03	1.3E+03	6.2E+00	2.53E-01
BIS(2-ETHYLHEXYL) PHTHALATE	5	4.2E-06	1.5E+07	7.4E+04	3.72E+05

TABLE 4-4 SITE-SPECIFIC SOIL SCREENING LEVELS FOR EVALUATION OF IMPACT TO GROUND WATER

	ANALYTE	C_w *ug/L*	H'	k_{oc} *L/kg*	k_d *L/kg*	SSL *mg/kg*
	BORON	1000	0.0E+00	0.0E+00	3.0E+00	3.11E+03
	CADMIUM	5	0.0E+00	0.0E+00	7.5E+01	3.76E+02
*	CALCIUM	none	0.0E+00	3.4E+03	0.0E+00	NA
	CARBAZOLE	3.4	6.3E-07	4.6E+01	2.3E-01	1.14E+00
	CARBON DISULFIDE	60	1.2E+00	4.6E+01	2.3E-01	3.29E+01
	CARBON TETRACHLORIDE	5	1.2E+00	1.5E+02	7.4E-01	5.30E+00
	CARBON, TOTAL ORGANIC	none	0.0E+00	0.0E+00	0.0E+00	NA
	CHLOROBENZENE	5	1.3E-01	2.7E+02	0.0E+00	7.25E+00
	CHLOROFORM	7	1.5E-01	5.3E+01	2.6E-01	2.77E+00
	CHLOROMETHANE	5	9.8E-01	3.5E+01	1.7E-01	2.27E+00
	CHROMIUM	50	0.0E+00	0.0E+00	1.8E+06	9.00E+07
	CHRYSENE	0.002	3.9E-03	4.0E+05	2.0E+03	3.94E+00
	CIS-1,2-DICHLOROETHENE	5	1.7E-01	3.6E+01	1.8E-01	1.57E+00
	COBALT	730	0.0E+00	0.0E+00	4.5E+01	3.29E+04
	COPPER	200	5.3E-03	0.0E+00	4.3E+02	8.56E+04
	CYANIDE, TOTAL	200	0.0E+00	0.0E+00	9.9E+00	2.00E+03
	DELTA-BHC	0.04	4.8E-03	1.2E+04	5.8E+01	2.32E+00
	DIBENZ[A,H]ANTHRACENE	0.0092	6.0E-07	3.8E+06	1.9E+04	1.72E+02
	DIBENZOFURAN	12	5.3E-04	7.8E+03	3.8E+01	4.63E+02
	DIELDRIN	0.004	6.2E-04	2.1E+04	1.1E+02	4.22E-01
	DI-N-BUTYL PHTHALATE	50	1.9E-05	3.4E+04	1.7E+02	8.36E+03
	DI-N-OCTYL PHTHALATE	50	1.9E-05	2.4E+03	1.2E+01	5.93E+02
	ENDOSULFAN I	220	4.6E-04	2.1E+03	1.1E+01	2.34E+03
	ENDOSULFAN II	220	4.6E-04	2.1E+03	1.1E+01	2.34E+03
	ENDOSULFAN SULFATE	220	4.6E-04	2.1E+03	1.1E+01	2.34E+03
	ENDRIN	11	3.1E-04	1.2E+04	6.1E+01	6.68E+02
	ENDRIN ALDEHYDE	5	3.1E-04	1.2E+04	6.1E+01	3.04E+02
	ENDRIN KETONE	5	3.1E-04	1.2E+04	6.1E+01	3.04E+02
	ETHYLBENZENE	5	3.2E-01	2.0E+02	9.9E-01	5.75E+00
	FLUORANTHENE	50	6.6E-04	1.1E+05	5.3E+02	2.64E+04
	FLUORENE	50	3.2E-03	7.9E+03	3.9E+01	1.95E+03
	GAMMA-BHC	0.05	4.8E-03	1.1E+03	5.3E+00	2.69E-01
	GAMMA-CHLORDANE	0.05	2.0E-03	1.2E+05	5.9E+02	2.96E+01
	HEPTACHLOR	0.04	4.5E-02	1.4E+06	6.9E+03	2.78E+02
	HEPTACHLOR EPOXIDE	0.03	3.9E-04	8.3E+04	4.1E+02	1.23E+01
	HEXACHLOROBENZENE	0.04	5.4E-02	5.5E+04	2.7E+02	1.08E+01
	HEXACHLOROBUTADIENE	0.5	3.3E-01	5.4E+04	2.6E+02	1.32E+02
	HEXACHLOROCYCLOPENTADIENE	5	1.1E+00	1.7E+03	8.2E+00	4.26E+01
	HEXACHLOROETHANE	5	1.6E-01	1.8E+03	8.8E+00	4.45E+01
	HMX (Octahydro-1,3,5,7-tetranitro-1,3,5,7	1800	3.6E-08	1.9E+03	9.1E+00	1.66E+04
	INDENO[1,2,3-CD]PYRENE	0.002	6.6E-05	3.5E+06	1.7E+04	3.42E+01
*	IRON	300	0.0E+00	0.0E+00	2.5E+01	7.53E+03
	ISOPHORONE	71	2.7E-04	5.8E+01	2.9E-01	2.80E+01
	ISOPROPYLBENZENE	5	4.7E-01	8.2E+02	4.0E+00	2.11E+01
	LEAD	25	0.0E+00	0.0E+00	9.0E+02	2.25E+04
	LITHIUM	730	0.0E+00	0.0E+00	3.0E+02	NA
*	MAGNESIUM	35000	0.0E+00	0.0E+00	4.5E+00	NA
	MANGANESE	300	0.0E+00	0.0E+00	6.5E+01	1.95E+04
	MERCURY	0.7	4.7E-01	0.0E+00	5.2E+01	3.65E+01
	METHOXYCHLOR	35	6.5E-04	9.8E+04	4.8E+02	1.69E+04
	METHYLENE CHLORIDE	5	9.0E-02	1.0E+01	4.9E-02	8.62E-01
	MOLYBDENUM	180	0.0E+00	0.0E+00	2.0E+01	3.62E+03
	NAPHTHALENE	10	2.0E-02	1.2E+03	5.9E+00	6.02E+01
	NICKEL	100	0.0E+00	1.2E+03	5.9E+00	6.02E+02

TABLE 4-4 SITE-SPECIFIC SOIL SCREENING LEVELS FOR EVALUATION OF IMPACT TO GROUND WATER

	ANALYTE	C_w *ug/L*	H'	k_{oc} *L/kg*	k_d *L/kg*	SSL *mg/kg*
	PERCENT SOLIDS	none	0.0E+00	0.0E+00	6.5E+01	NA
	NITROBENZENE	0.4	9.8E-04	1.9E+02	9.4E-01	4.19E-01
	PHENANTHRENE	50	9.6E-04	4.8E+03	2.4E+01	1.19E+03
	PHENOL	1	1.6E-05	2.9E+01	1.4E-01	2.50E-01
*	POTASSIUM	none	0.0E+00	0.0E+00	0.0E+00	NA
	PYRENE	50	4.5E-04	6.8E+04	3.4E+02	1.68E+04
	RDX	0.61	0.0E+00	0.0E+00	4.1E-02	NA
	SELENIUM	10	0.0E+00	0.0E+00	3.0E+02	3.00E+03
	SILVER	50	0.0E+00	0.0E+00	8.3E+00	4.20E+02
*	SODIUM	20000	0.0E+00	0.0E+00	1.0E+02	NA
	STYRENE	5	1.1E-01	5.2E+02	2.6E+00	1.34E+01
	TETRACHLOROETHENE	5	7.5E-01	2.7E+02	1.3E+00	7.86E+00
	TETRYL	360	0.0E+00	0.0E+00	0.0E+00	NA
	THALLIUM	0.5	0.0E+00	0.0E+00	1.5E+03	7.50E+02
	TOLUENE	5	2.7E-01	1.4E+02	6.9E-01	4.23E+00
	TRANS-1,2-DICHLOROETHENE	5	3.8E-01	3.8E+01	1.9E-01	1.81E+00
	TRICHLOROETHENE	5	4.2E-01	9.4E+01	4.6E-01	3.23E+00
	VANADIUM	36	0.0E+00	0.0E+00	1.0E+03	3.60E+04
	VINYL CHLORIDE	2	1.1E+00	1.9E+01	9.4E-02	7.94E-01
	XYLENES (TOTAL)	5	3.0E-01	2.0E+02	9.9E-01	5.73E+00
	ZINC	2000	0.0E+00	0.0E+00	6.2E+01	1.24E+05

Notes:
NA = no criterion for protection of groundwater
"non"= no criterion for ground water
C_w values are H(WS) GA values (meaning source of drinking water - ground water, in ug/L) from the
* = essential human nutrient
H' = Henry's Law Constant (Dimensionless)
K_{oc} = Soil organic carbon - water partition coefficient
K_d = Soil - water partition coefficient

TABLE 4-5 NUMBER AND FREQUENCY OF QUALITY CONTROL SAMPLES COLLECTED DURING THE UURI

Matrix	Number of Normal Samples	Field Duplicates		Requested Matrix Spikes and Matrix Spike Duplicates			Rinsate Blanks		Number of Trip Blanks
	N	Number	Frequency (%)	MS	MSD	Frequency (%)	Number	Frequency (%)	
SD	1								
SL	58	6	10.3	3	3	5.2	3	5.2	
SO	186	18	9.7	17	14	7.5	8	4.3	
SS	13	2	15.4	1	1	7.7	1	7.7	
WS	1								
WW and WB	100	10	10.0	10	8	10.0	NA		
Total	359	26		31	18		13		64

NA = not applicable
Blank cell = not collected
SD = Sediment sample
SL = Sludge sample
SO = Soil sample
SS = Surface soil sample
WS = Surface water sample
WW and WB = Wastewater and bedding material water samples

TABLE 4-6 EPA REGION 2 DATA QUALIFIERS AND DEFINITIONS

QUALIFIERS USED FOR ORGANIC AND INORGANIC DATA	
U	The compound was analyzed, but not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence or absence of the analyte cannot be verified.
QUALIFIERS USED ORGANIC DATA ONLY	
N	The analysis indicated the presence of an analyte for which there is a presumptive evidence to make a "tentative identification".
NJ	The analysis indicated the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

TABLE 4-7 SUMMARY OF ABBREVIATIONS AND DESIGNATIONS FOR NON-DETECTED CONSTITUENT SUMMARY TABLES

Field samples collected from LOOW were assigned a unique sample designation. Sample designations were comprised of an alpha-numeric code which identified each sample by the component (C7 for underground utilities), property owner (as listed below, e.g., LEW for Town of Lewiston), matrix (soil, sludge, etc.), excavation location, line type and number (e.g., UN01 is the first unknown line in that excavation), and sample end depth.

The following is an example for a soil sample collected from an unknown line type in excavation 85 on WM property. :

C7–	CWM-	SO-	X85-	UN01-	4.5
Underground utility	Property code for WM	Matrix code for soil	Code for excavation number	Code for line type and line number within excavation	Sample end depth

Codes used for identification of property owners:

CWM	WM LLC property
LEW	Town of Lewiston property
SOM	Somerset Group property
OCC	Represents various property owners along the 30-in. outfall line.

Codes used for sample matrix identification:

SL	Sludge
SO	Soil (surface or subsurface dependent upon sample end depth)
SS	Surface Soil
WW	Wastewater
WS	Suface water
SD	Sediment
WB	Bedding material water

Codes used for line type:

AW = Acid Waste
CW = Chemical Waste
DW = Drains, Pits, Sumps, and/or Vaults
SN = Sanitary Sewer
WW = Wastewater
UN = Unknown
WP = Potable Water
WC = Cooling Water
ST = Storm Sewers

Other abbreviations:

Crit 1 = Risk-Based Criteria number 1 and the primary criteria used for identificaion of COPC. For soil, sludge, and sediment this is the EPA Region 9 PRG. For wastewater and surface water this is the EPA Region 9 tap water PRG. For non-carcinogens, the value shown is equal to 1/10 the PRG value. For carcinogens the value shown is equal to the PRG value. For trichloroethylene, the California-Modified PRG is used. For those compounds where PRGs were not available, surrogates were used. For example: aminodinitrotoluene for 2-amino-4,6-dinitrotoluene and 4-amino-2,6-dinitrotoluene, chromium IV for chromium, acenaphthene for acenaphthylene, pyrene for benzo(ghi)perylene, naphthalene for phenanthrene, and alpha-bhc for delta-bhc (see Section 4).
Crit 2 = Risk-Based Criteria number 2, not typically used for identification of COPC unless a Region 9 PRG is not available (see Section 4). For soil, sludge, and sediment this is NYSDEC TAGM 4046 criteria. For wastwater and surface water, this is the NYSDEC TOG (see Section 4).
Crit 3 = For soil and sludge this is the EPA Region 9 Industrial PRG.

Shading:

For sludge and soil:

	yellow shading = reporting limit exceeds EPA Region 9 residential PRG or TAGM if no PRG
	green shading = reporting limit exceeds both EPA Region 9 residential and industrial PRGs

For wastewater, surface water, and bedding water:

	yellow shading = reporting limit exceeds EPA Region 9 Tap Water PRG
	blue shading = reporting limit exceeds NYSDEC TOG
	green shading = reporting limit exceeds both EPA Region 9 Tap Water PRG and NYSDEC TOG

For an explanation of data qualifiers see Table 4-6.

TABLE 4-8 SUMMARY OF NON-DETECTED CONSTITUENTS WITH REPORTING LIMITS ABOVE CRITERIA IN SLUDGE, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	AW	AW	AW	AW	CW	DW	DW	SN
				Excavation:	X41	X87	X94	X96	X22A	X38	X113	
				Sample Name:	C7-CWM-SL-X41-AW01-4	C7-CWM-SL-X87-AW01-15	C7-CWM-SL-X94-AW01-10	C7-CWM-SL-X96-AW01-9	C7-CWM-SL-X22A-UN01-5	C7-CWM-SL-X38-DW01-2.5	C7-CWM-SL-X113-DW01-11	C1-NH-SL-PIPE1
				Sample Depth:	4 FT	15 FT	10 FT	9 FT	5 FT	2.5 FT	11 FT	
				Sample Date:	9/6/2006	9/26/2006	9/29/2006	9/29/2006	8/29/2006	9/5/2006	10/11/2006	6/29/1998
				Parent Name:								
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**								
Volatile Organic Compounds (8260B)												
1,1,2,2-TETRACHLOROETHANE	410	35000	930	UG/KG								
1,1,2-TRICHLOROETHANE	730		1600	UG/KG								
1,2-DIBROMO-3-CHLOROPROPANE	210		1100	UG/KG								
1,2-DICHLOROETHANE	280	7700	600	UG/KG								
1,2-DICHLOROPROPANE	340		740	UG/KG								
1,4-DICHLOROBENZENE	3400		7900	UG/KG								
BENZENE	640	24000	1400	UG/KG								
BROMODICHLOROMETHANE	820		1800	UG/KG								
BROMOMETHANE	390		1300	UG/KG								
CARBON TETRACHLORIDE	220	5400	550	UG/KG								
CHLORODIBROMOMETHANE	1100		2600	UG/KG								
CHLOROETHANE	3000		6500	UG/KG								
CHLOROFORM	220	80000	470	UG/KG								**500 U**
CHLOROMETHANE	4700		16000	UG/KG								
CIS-1,2-DICHLOROETHENE	4300	80000	15000	UG/KG								
CIS-1,3-DICHLOROPROPENE	780		1800	UG/KG								
ETHYLENE DIBROMIDE	32		73	UG/KG								
METHYLENE CHLORIDE	9100	93000	21000	UG/KG								
TETRACHLOROETHENE	480	14000	1300	UG/KG								
TRANS-1,2-DICHLOROETHENE	6900	200000	23000	UG/KG								
TRICHLOROETHYLENE	2900	64000	6500	UG/KG								
VINYL CHLORIDE	79	360	750	UG/KG								**1000 U**
Semi-Volatile Organic Compounds (8151/8270C/8310)												
1,2,4-TRICHLOROBENZENE	6200		22000	UG/KG								
2,2'-OXYBIS(1-CHLOROPROPANE)	2900		7400	UG/KG								
2,4,6-TRICHLOROPHENOL	610		6200	UG/KG								
2,4-DICHLOROPHENOL	18000	20000	180000	UG/KG								
2,4-DIMETHYLPHENOL	120000		1E+06	UG/KG								
2,4-DINITROPHENOL	12000	20000	120000	UG/KG								
2-CHLOROPHENOL	6300	40000	24000	UG/KG								
2-METHYL-4,6-DINITROPHENOL	610		6200	UG/KG								
2-METHYLNAPHTHALENE	5600		19000	UG/KG								
2-METHYLPHENOL	310000		3100000	UG/KG								
2-NITROANILINE	18000		180000	UG/KG								
2-NITROPHENOL	880		2200	UG/KG								
3,3'-DICHLOROBENZIDINE	1100		3800	UG/KG								
3-NITROANILINE	1800		18000	UG/KG								
4-BROMOPHENYL PHENYL ETHER	2900		7400	UG/KG								
4-CHLOROPHENYL PHENYL ETHER	2900		7400	UG/KG								
4-METHYLPHENOL	31000	400000	310000	UG/KG								
4-NITROANILINE	18000		82000	UG/KG								
4-NITROPHENOL	880		2200	UG/KG								

TABLE 4-8 SUMMARY OF NON-DETECTED CONSTITUENTS WITH REPORTING LIMITS ABOVE CRITERIA IN SLUDGE, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	AW	AW	AW	AW	CW	DW	DW	SN
				Excavation:	X41	X87	X94	X96	X22A	X38	X113	
				Sample Name:	C7-CWM-SL-X41-AW01-4	C7-CWM-SL-X87-AW01-15	C7-CWM-SL-X94-AW01-10	C7-CWM-SL-X96-AW01-9	C7-CWM-SL-X22A-UN01-5	C7-CWM-SL-X38-DW01-2.5	C7-CWM-SL-X113-DW01-11	C1-NH-SL-PIPE1
				Sample Depth:	4 FT	15 FT	10 FT	9 FT	5 FT	2.5 FT	11 FT	
				Sample Date:	9/6/2006	9/26/2006	9/29/2006	9/29/2006	8/29/2006	9/5/2006	10/11/2006	6/29/1998
				Parent Name:								
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**								
BENZO[A]PYRENE	62	60.9	210	UG/KG				**110 U**				
BENZO[K]FLUORANTHENE	6200	224	21000	UG/KG								
BIS(2-CHLOROETHYL) ETHER	220		580	UG/KG								
DIBENZ[A,H]ANTHRACENE	62	14.3	210	UG/KG		**21 UJ**		**110 U**	**300 U**	**87 U**		**23 U**
DIBENZOFURAN	15000		160000	UG/KG								
HEXACHLORO-1,3-BUTADIENE	1800		18000	UG/KG								
HEXACHLOROBENZENE	300	410	1100	UG/KG								
HEXACHLOROCYCLOPENTADIENE	37000		370000	UG/KG								
HEXACHLOROETHANE	6100		62000	UG/KG								
N-NITROSODI-N-PROPYLAMINE	69		250	UG/KG					**300 U**			
PENTACHLOROPHENOL	3000	200000	9000	UG/KG								
Pesticides (8081)/Polychlorinated Biphenyls(8082)												
ALDRIN	29	41	100	UG/KG	**730 UJ**						**220 UJ**	
ALPHA-BHC	90	111	360	UG/KG	**730 UJ**						**220 UJ**	**220 U**
AROCLOR 1016	390	1000	3700	UG/KG	**180000 UJ**							**16000 U**
AROCLOR 1221	110	1000	740	UG/KG	**180000 UJ**							**12000 U**
AROCLOR 1232	110	1000	740	UG/KG	**180000 UJ**							**17000 U**
AROCLOR 1242	110	1000	740	UG/KG	**180000 UJ**							**7800 U**
AROCLOR 1248	110	1000	740	UG/KG	**180000 UJ**							**14000 U**
AROCLOR 1254	110	1000	740	UG/KG	**180000 UJ**							**5000 U**
AROCLOR 1260	110	1000	740	UG/KG								**13000 U**
CAMPHECHLOR	440		1600	UG/KG	**15000 UJ**						**4300 UJ**	**23000 U**
CHLORDANE		500		UG/KG	**15000 UJ**						**4300 UJ**	
DELTA-BHC	90		360	UG/KG	**730 UJ**							
DIELDRIN	30	44	110	UG/KG							**220 UJ**	
GAMMA-CHLORDANE	1600	500	6500	UG/KG	**730 UJ**							
HEPTACHLOR	110	160	380	UG/KG	**730 UJ**						**220 UJ**	**180 U**
HEPTACHLOR EPOXIDE	53	77	190	UG/KG	**730 UJ**							
Metals (6010B/6020/7841/7470A/7471A)												
ARSENIC	0.39		1.6	MG/KG			**3 U**					
THALLIUM	0.52		6.7	MG/KG								
VANADIUM	7.8		100	MG/KG								

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004
Crit3: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Blank cells: result was either not detected with a reporting limit below the screening criteria or detected with a reporting limit below the screening criteria
In samples with elevated Aroclor reporting limits, those Aroclors are potentially present at concentrations below the reporting limit but could not be quantified due to interference from other Aroclor concentrations that were elevated.

TABLE 4-8 SUMMARY OF NON-DETECTED CONSTITUENTS WITH REPORTING LIMITS ABOVE CRITERIA IN SLUDGE, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	SN	SN	SN	SN	SN
				Excavation:	X05	X06	X14	X32	X39	X41	X53	X55
				Sample Name:	C7-CWM-SL-X05-SN01-4	C7-CWM-SL-X06-SN01-3.5	C7-CWM-SL-X14-SN01-8	C7-CWM-SL-X32-SN01-3	C7-CWM-SL-DUP4	C7-CWM-SL-X41-SN01-6	C7-CWM-SL-DUP3	C7-CWM-SL-X55-SN01-7
				Sample Depth:	4 FT	3.5 FT	8 FT	3 FT	5 FT	6 FT	7 FT	7 FT
				Sample Date:	8/22/2006	8/22/2006	8/24/2006	8/31/2006	9/5/2006	9/6/2006	9/11/2006	9/11/2006
				Parent Name:					C7-CWM-SL-X39-SN01-5		C7-CWM-SL-X53-SN01-7	
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**								
Volatile Organic Compounds (8260B)												
1,1,2,2-TETRACHLOROETHANE	410	35000	930	UG/KG								
1,1,2-TRICHLOROETHANE	730		1600	UG/KG								
1,2-DIBROMO-3-CHLOROPROPANE	210		1100	UG/KG								
1,2-DICHLOROETHANE	280	7700	600	UG/KG								
1,2-DICHLOROPROPANE	340		740	UG/KG								
1,4-DICHLOROBENZENE	3400		7900	UG/KG								
BENZENE	640	24000	1400	UG/KG								
BROMODICHLOROMETHANE	820		1800	UG/KG								
BROMOMETHANE	390		1300	UG/KG								
CARBON TETRACHLORIDE	220	5400	550	UG/KG								
CHLORODIBROMOMETHANE	1100		2600	UG/KG								
CHLOROETHANE	3000		6500	UG/KG								
CHLOROFORM	220	80000	470	UG/KG								
CHLOROMETHANE	4700		16000	UG/KG								
CIS-1,2-DICHLOROETHENE	4300	80000	15000	UG/KG								
CIS-1,3-DICHLOROPROPENE	780		1800	UG/KG								
ETHYLENE DIBROMIDE	32		73	UG/KG								
METHYLENE CHLORIDE	9100	93000	21000	UG/KG								
TETRACHLOROETHENE	480	14000	1300	UG/KG								
TRANS-1,2-DICHLOROETHENE	6900	200000	23000	UG/KG								
TRICHLOROETHYLENE	2900	64000	6500	UG/KG								
VINYL CHLORIDE	79	360	750	UG/KG								
Semi-Volatile Organic Compounds (8151/8270C/8310)												
1,2,4-TRICHLOROBENZENE	6200		22000	UG/KG								
2,2'-OXYBIS(1-CHLOROPROPANE)	2900		7400	UG/KG								
2,4,6-TRICHLOROPHENOL	610		6200	UG/KG								
2,4-DICHLOROPHENOL	18000	20000	180000	UG/KG								
2,4-DIMETHYLPHENOL	120000		1E+06	UG/KG								
2,4-DINITROPHENOL	12000	20000	120000	UG/KG								
2-CHLOROPHENOL	6300	40000	24000	UG/KG								
2-METHYL-4,6-DINITROPHENOL	610		6200	UG/KG								
2-METHYLNAPHTHALENE	5600		19000	UG/KG								
2-METHYLPHENOL	310000		3100000	UG/KG								
2-NITROANILINE	18000		180000	UG/KG								
2-NITROPHENOL	880		2200	UG/KG								
3,3`-DICHLOROBENZIDINE	1100		3800	UG/KG								
3-NITROANILINE	1800		18000	UG/KG								
4-BROMOPHENYL PHENYL ETHER	2900		7400	UG/KG								
4-CHLOROPHENYL PHENYL ETHER	2900		7400	UG/KG								
4-METHYLPHENOL	31000	400000	310000	UG/KG								
4-NITROANILINE	18000		82000	UG/KG								
4-NITROPHENOL	880		2200	UG/KG								

TABLE 4-8 SUMMARY OF NON-DETECTED CONSTITUENTS WITH REPORTING LIMITS ABOVE CRITERIA IN SLUDGE, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	SN	SN	SN	SN	SN
				Excavation:	X05	X06	X14	X32	X39	X41	X53	X55
				Sample Name:	C7-CWM-SL-X05-SN01-4	C7-CWM-SL-X06-SN01-3.5	C7-CWM-SL-X14-SN01-8	C7-CWM-SL-X32-SN01-3	C7-CWM-SL-DUP4	C7-CWM-SL-X41-SN01-6	C7-CWM-SL-DUP3	C7-CWM-SL-X55-SN01-7
				Sample Depth:	4 FT	3.5 FT	8 FT	3 FT	5 FT	6 FT	7 FT	7 FT
				Sample Date:	8/22/2006	8/22/2006	8/24/2006	8/31/2006	9/5/2006	9/6/2006	9/11/2006	9/11/2006
				Parent Name:					C7-CWM-SL-X39-SN01-5		C7-CWM-SL-X53-SN01-7	
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**								
BENZO[A]PYRENE	62	60.9	210	UG/KG								
BENZO[K]FLUORANTHENE	6200	224	21000	UG/KG								
BIS(2-CHLOROETHYL) ETHER	220		580	UG/KG								
DIBENZ[A,H]ANTHRACENE	62	14.3	210	UG/KG		39 U	65 U	400 U	49 U		100 U	280 UJ
DIBENZOFURAN	15000		160000	UG/KG								
HEXACHLORO-1,3-BUTADIENE	1800		18000	UG/KG								
HEXACHLOROBENZENE	300	410	1100	UG/KG								
HEXACHLOROCYCLOPENTADIENE	37000		370000	UG/KG								
HEXACHLOROETHANE	6100		62000	UG/KG								
N-NITROSODI-N-PROPYLAMINE	69		250	UG/KG				400 U				280 UJ
PENTACHLOROPHENOL	3000	200000	9000	UG/KG								
Pesticides (8081)/Polychlorinated Biphenyls(8082)												
ALDRIN	29	41	100	UG/KG						900 UJ		
ALPHA-BHC	90	111	360	UG/KG						900 UJ		
AROCLOR 1016	390	1000	3700	UG/KG	1700 UJ							
AROCLOR 1221	110	1000	740	UG/KG	1700 UJ							
AROCLOR 1232	110	1000	740	UG/KG	1700 UJ							
AROCLOR 1242	110	1000	740	UG/KG								
AROCLOR 1248	110	1000	740	UG/KG	1700 UJ							
AROCLOR 1254	110	1000	740	UG/KG	1700 UJ							
AROCLOR 1260	110	1000	740	UG/KG	1700 UJ							
CAMPHECHLOR	440		1600	UG/KG						18000 UJ		
CHLORDANE		500		UG/KG						18000 UJ		
DELTA-BHC	90		360	UG/KG						900 UJ		
DIELDRIN	30	44	110	UG/KG								
GAMMA-CHLORDANE	1600	500	6500	UG/KG						900 UJ		
HEPTACHLOR	110	160	380	UG/KG						900 UJ		
HEPTACHLOR EPOXIDE	53	77	190	UG/KG						900 UJ		
Metals (6010B/6020/7841/7470A/7471A)												
ARSENIC	0.39		1.6	MG/KG								
THALLIUM	0.52		6.7	MG/KG								
VANADIUM	7.8		100	MG/KG								

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004
Crit3: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Blank cells: result was either not detected with a reporting limit below the screening criteria or detected with a reporting limit below the screening criteria
In samples with elevated Aroclor reporting limits, those Aroclors are potentially present at concentrations below the reporting limit but could not be quantified due to interference from other Aroclor concentrations that were elevated.

TABLE 4-8 SUMMARY OF NON-DETECTED CONSTITUENTS WITH REPORTING LIMITS ABOVE CRITERIA IN SLUDGE, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	UN	UN	UN	UN	WW	WW
				Excavation:	X97	X106	X11	X47	X85	X118	X07	X15
				Sample Name:	C7-CWM-SL-X97-SN01-11	C7-CWM-SL-X106-SN01-16	C7-CWM-SL-X11-WW01-3	C7-CWM-SL-X47-UN02-1	C7-CWM-SL-X85-UN01-6	C7-CWM-SL-X118-UN01-5	C7-CWM-SL-X07-WW01-7	C7-CWM-SL-X15-WW01-3
				Sample Depth:	14 FT	16 FT	3 FT	1 FT	6 FT	5 FT	7 FT	3 FT
				Sample Date:	10/2/2006	9/29/2006	8/23/2006	9/7/2006	9/22/2006	10/11/2006	8/22/2006	8/24/2006
				Parent Name:								
Analyte	Crit1	Crit2	Crit3	Unit								
Volatile Organic Compounds (8260B)												
1,1,2,2-TETRACHLOROETHANE	410	35000	930	UG/KG								
1,1,2-TRICHLOROETHANE	730		1600	UG/KG								
1,2-DIBROMO-3-CHLOROPROPANE	210		1100	UG/KG								
1,2-DICHLOROETHANE	280	7700	600	UG/KG								
1,2-DICHLOROPROPANE	340		740	UG/KG								
1,4-DICHLOROBENZENE	3400		7900	UG/KG								
BENZENE	640	24000	1400	UG/KG								
BROMODICHLOROMETHANE	820		1800	UG/KG								
BROMOMETHANE	390		1300	UG/KG								
CARBON TETRACHLORIDE	220	5400	550	UG/KG								
CHLORODIBROMOMETHANE	1100		2600	UG/KG								
CHLOROETHANE	3000		6500	UG/KG								
CHLOROFORM	220	80000	470	UG/KG								
CHLOROMETHANE	4700		16000	UG/KG								
CIS-1,2-DICHLOROETHENE	4300	80000	15000	UG/KG								
CIS-1,3-DICHLOROPROPENE	780		1800	UG/KG								
ETHYLENE DIBROMIDE	32		73	UG/KG								
METHYLENE CHLORIDE	9100	93000	21000	UG/KG								
TETRACHLOROETHENE	480	14000	1300	UG/KG								
TRANS-1,2-DICHLOROETHENE	6900	200000	23000	UG/KG								
TRICHLOROETHYLENE	2900	64000	6500	UG/KG								
VINYL CHLORIDE	79	360	750	UG/KG								
Semi-Volatile Organic Compounds (8151/8270C/8310)												
1,2,4-TRICHLOROBENZENE	6200		22000	UG/KG								
2,2'-OXYBIS(1-CHLOROPROPANE)	2900		7400	UG/KG								
2,4,6-TRICHLOROPHENOL	610		6200	UG/KG							20000 U	
2,4-DICHLOROPHENOL	18000	20000	180000	UG/KG							20000 U	
2,4-DIMETHYLPHENOL	120000		1E+06	UG/KG								
2,4-DINITROPHENOL	12000	20000	120000	UG/KG							51000 U	
2-CHLOROPHENOL	6300	40000	24000	UG/KG								
2-METHYL-4,6-DINITROPHENOL	610		6200	UG/KG							51000 UJ	
2-METHYLNAPHTHALENE	5600		19000	UG/KG								
2-METHYLPHENOL	310000		3100000	UG/KG								
2-NITROANILINE	18000		180000	UG/KG								
2-NITROPHENOL	880		2200	UG/KG							20000 U	
3,3'-DICHLOROBENZIDINE	1100		3800	UG/KG							4100 U	
3-NITROANILINE	1800		18000	UG/KG								
4-BROMOPHENYL PHENYL ETHER	2900		7400	UG/KG								
4-CHLOROPHENYL PHENYL ETHER	2900		7400	UG/KG								
4-METHYLPHENOL	31000	400000	310000	UG/KG								
4-NITROANILINE	18000		82000	UG/KG								
4-NITROPHENOL	880		2200	UG/KG							20000 U	

TABLE 4-8 SUMMARY OF NON-DETECTED CONSTITUENTS WITH REPORTING LIMITS ABOVE CRITERIA IN SLUDGE, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	UN	UN	UN	UN	WW	WW
				Excavation:	X97	X106	X11	X47	X85	X118	X07	X15
				Sample Name:	C7-CWM-SL-X97-SN01-11	C7-CWM-SL-X106-SN01-16	C7-CWM-SL-X11-WW01-3	C7-CWM-SL-X47-UN02-1	C7-CWM-SL-X85-UN01-6	C7-CWM-SL-X118-UN01-5	C7-CWM-SL-X07-WW01-7	C7-CWM-SL-X15-WW01-3
				Sample Depth:	14 FT	16 FT	3 FT	1 FT	6 FT	5 FT	7 FT	3 FT
				Sample Date:	10/2/2006	9/29/2006	8/23/2006	9/7/2006	9/22/2006	10/11/2006	8/22/2006	8/24/2006
				Parent Name:								
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**								
BENZO[A]PYRENE	62	60.9	210	UG/KG	**170 UJ**	**150 UJ**						
BENZO[K]FLUORANTHENE	6200	224	21000	UG/KG								
BIS(2-CHLOROETHYL) ETHER	220		580	UG/KG							**4100 U**	
DIBENZ[A,H]ANTHRACENE	62	14.3	210	UG/KG	**170 UJ**	**150 UJ**	**160 UJ**	**84 U**		**17 UJ**		**82 U**
DIBENZOFURAN	15000		160000	UG/KG								
HEXACHLORO-1,3-BUTADIENE	1800		18000	UG/KG								
HEXACHLOROBENZENE	300	410	1100	UG/KG							**4100 U**	
HEXACHLOROCYCLOPENTADIENE	37000		370000	UG/KG								
HEXACHLOROETHANE	6100		62000	UG/KG								
N-NITROSODI-N-PROPYLAMINE	69		250	UG/KG							**4100 U**	
PENTACHLOROPHENOL	3000	200000	9000	UG/KG							**51000 U**	
Pesticides (8081)/Polychlorinated Biphenyls(8082)												
ALDRIN	29	41	100	UG/KG								
ALPHA-BHC	90	111	360	UG/KG								
AROCLOR 1016	390	1000	3700	UG/KG					**1600 U**			
AROCLOR 1221	110	1000	740	UG/KG					**1600 U**			
AROCLOR 1232	110	1000	740	UG/KG					**1600 U**			
AROCLOR 1242	110	1000	740	UG/KG					**1600 U**			
AROCLOR 1248	110	1000	740	UG/KG					**1600 U**			
AROCLOR 1254	110	1000	740	UG/KG					**1600 U**			
AROCLOR 1260	110	1000	740	UG/KG								
CAMPHECHLOR	440		1600	UG/KG								
CHLORDANE		500		UG/KG								
DELTA-BHC	90		360	UG/KG								
DIELDRIN	30	44	110	UG/KG								
GAMMA-CHLORDANE	1600	500	6500	UG/KG								
HEPTACHLOR	110	160	380	UG/KG								
HEPTACHLOR EPOXIDE	53	77	190	UG/KG								
Metals (6010B/6020/7841/7470A/7471A)												
ARSENIC	0.39		1.6	MG/KG								
THALLIUM	0.52		6.7	MG/KG								
VANADIUM	7.8		100	MG/KG								

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004
Crit3: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Blank cells: result was either not detected with a reporting limit below the screening criteria or detected with a reporting limit below the screening criteria
In samples with elevated Aroclor reporting limits, those Aroclors are potentially present at concentrations below the reporting limit but could not be quantified due to interference from other Aroclor concentrations that were elevated.

TABLE 4-8 SUMMARY OF NON-DETECTED CONSTITUENTS WITH REPORTING LIMITS ABOVE CRITERIA IN SLUDGE, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW	WW	AW	AW	DW	DW	DW	SN
				Excavation:	X17	X18	X07	X11	X00	X00	X00	X03
				Sample Name:	C7-CWM-SL-X17-WW01-3	C7-CWM-SL-X18-WW01-5	C7-LEW-SL-X07-AW01-4	C7-LEW-SL-X11-AW01-4.5	C7-LEW-SL-X00-DW02-6	C7-LEW-SL-X00-DW03-16	C7-CWM-SL-X00-DW05-1.5	C7-LEW-SL-X03-SN01-5.5
				Sample Depth:	3 FT	5 FT	3.5 FT	4.5 FT	6 FT	16 FT	15 FT	5.5 FT
				Sample Date:	8/25/2006	8/25/2006	8/17/2006	8/17/2006	8/22/2006	8/22/2006	9/7/2006	8/15/2006
				Parent Name:								
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**								
Volatile Organic Compounds (8260B)												
1,1,2,2-TETRACHLOROETHANE	410	35000	930	UG/KG							7300 UJ	
1,1,2-TRICHLOROETHANE	730		1600	UG/KG						3200 UJ	7300 UJ	
1,2-DIBROMO-3-CHLOROPROPANE	210		1100	UG/KG						3200 UJ		
1,2-DICHLOROETHANE	280	7700	600	UG/KG						3200 UJ	7300 UJ	
1,2-DICHLOROPROPANE	340		740	UG/KG						3200 UJ	7300 UJ	
1,4-DICHLOROBENZENE	3400		7900	UG/KG							7300 UJ	
BENZENE	640	24000	1400	UG/KG						3200 UJ	7300 UJ	
BROMODICHLOROMETHANE	820		1800	UG/KG						3200 UJ	7300 UJ	
BROMOMETHANE	390		1300	UG/KG								
CARBON TETRACHLORIDE	220	5400	550	UG/KG						3200 UJ	7300 UJ	
CHLORODIBROMOMETHANE	1100		2600	UG/KG						3200 UJ	7300 UJ	
CHLOROETHANE	3000		6500	UG/KG						6500 UJ	15000 UJ	
CHLOROFORM	220	80000	470	UG/KG								
CHLOROMETHANE	4700		16000	UG/KG						6500 UJ	15000 UJ	
CIS-1,2-DICHLOROETHENE	4300	80000	15000	UG/KG							7300 UJ	
CIS-1,3-DICHLOROPROPENE	780		1800	UG/KG						3200 UJ	7300 UJ	
ETHYLENE DIBROMIDE	32		73	UG/KG						3200 UJ	7300 UJ	
METHYLENE CHLORIDE	9100	93000	21000	UG/KG							15000 UJ	
TETRACHLOROETHENE	480	14000	1300	UG/KG						3200 UJ	7300 UJ	
TRANS-1,2-DICHLOROETHENE	6900	200000	23000	UG/KG							7300 UJ	
TRICHLOROETHYLENE	2900	64000	6500	UG/KG						3200 UJ	7300 UJ	
VINYL CHLORIDE	79	360	750	UG/KG						6500 UJ	15000 UJ	
Semi-Volatile Organic Compounds (8151/8270C/8310)												
1,2,4-TRICHLOROBENZENE	6200		22000	UG/KG				75000 UJ				
2,2'-OXYBIS(1-CHLOROPROPANE)	2900		7400	UG/KG				75000 UJ				
2,4,6-TRICHLOROPHENOL	610		6200	UG/KG			1100 UJ	370000 UJ	1600 UJ	8600 UJ	1900 UJ	
2,4-DICHLOROPHENOL	18000	20000	180000	UG/KG				370000 UJ				
2,4-DIMETHYLPHENOL	120000		1E+06	UG/KG				370000 UJ				
2,4-DINITROPHENOL	12000	20000	120000	UG/KG				940000 UJ		22000 UJ		
2-CHLOROPHENOL	6300	40000	24000	UG/KG				370000 UJ		8600 UJ		
2-METHYL-4,6-DINITROPHENOL	610		6200	UG/KG			2800 UJ	940000 UJ	3900 UJ	22000 UJ	4900 UJ	640 U
2-METHYLNAPHTHALENE	5600		19000	UG/KG				75000 UJ				
2-METHYLPHENOL	310000		3100000	UG/KG				370000 UJ				
2-NITROANILINE	18000		180000	UG/KG				75000 UJ				
2-NITROPHENOL	880		2200	UG/KG			1100 UJ	370000 UJ	1600 UJ	8600 UJ	1900 UJ	
3,3`-DICHLOROBENZIDINE	1100		3800	UG/KG				75000 UJ		1700 UJ		
3-NITROANILINE	1800		18000	UG/KG				79000 UJ		2000 UJ		
4-BROMOPHENYL PHENYL ETHER	2900		7400	UG/KG				75000 UJ				
4-CHLOROPHENYL PHENYL ETHER	2900		7400	UG/KG				75000 UJ				
4-METHYLPHENOL	31000	400000	310000	UG/KG				370000 UJ				
4-NITROANILINE	18000		82000	UG/KG				86000 UJ				
4-NITROPHENOL	880		2200	UG/KG			1100 UJ	370000 UJ	1600 UJ	8600 UJ	1900 UJ	

TABLE 4-8 SUMMARY OF NON-DETECTED CONSTITUENTS WITH REPORTING LIMITS ABOVE CRITERIA IN SLUDGE, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW	WW	AW	AW	DW	DW	DW	SN
				Excavation:	X17	X18	X07	X11	X00	X00	X00	X03
				Sample Name:	C7-CWM-SL-X17-WW01-3	C7-CWM-SL-X18-WW01-5	C7-LEW-SL-X07-AW01-4	C7-LEW-SL-X11-AW01-4.5	C7-LEW-SL-X00-DW02-6	C7-LEW-SL-X00-DW03-16	C7-CWM-SL-X00-DW05-1.5	C7-LEW-SL-X03-SN01-5.5
				Sample Depth:	3 FT	5 FT	3.5 FT	4.5 FT	6 FT	16 FT	15 FT	5.5 FT
				Sample Date:	8/25/2006	8/25/2006	8/17/2006	8/17/2006	8/22/2006	8/22/2006	9/7/2006	8/15/2006
				Parent Name:								
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**								
BENZO[A]PYRENE	62	60.9	210	UG/KG	**90 U**		**220 UJ**					
BENZO[K]FLUORANTHENE	6200	224	21000	UG/KG						**1700 UJ**		
BIS(2-CHLOROETHYL) ETHER	220		580	UG/KG			**220 UJ**	**75000 UJ**	**320 UJ**	**1700 UJ**	**390 UJ**	
DIBENZ[A,H]ANTHRACENE	62	14.3	210	UG/KG	**90 U**	**420 U**	**220 UJ**					**51 U**
DIBENZOFURAN	15000		160000	UG/KG				**75000 UJ**				
HEXACHLORO-1,3-BUTADIENE	1800		18000	UG/KG				**75000 UJ**				
HEXACHLOROBENZENE	300	410	1100	UG/KG		**420 U**		**75000 UJ**	**320 UJ**	**1700 UJ**	**390 UJ**	
HEXACHLOROCYCLOPENTADIENE	37000		370000	UG/KG				**75000 UJ**				
HEXACHLOROETHANE	6100		62000	UG/KG				**75000 UJ**				
N-NITROSODI-N-PROPYLAMINE	69		250	UG/KG		**420 UJ**	**220 UJ**	**75000 UJ**	**320 UJ**	**1700 UJ**	**390 UJ**	
PENTACHLOROPHENOL	3000	200000	9000	UG/KG				**380000 UJ**		**22000 UJ**	**4900 UJ**	
Pesticides (8081)/Polychlorinated Biphenyls(8082)												
ALDRIN	29	41	100	UG/KG			**110 UJ**			**43 UJ**		
ALPHA-BHC	90	111	360	UG/KG			**110 UJ**					
AROCLOR 1016	390	1000	3700	UG/KG			**5500 UJ**					
AROCLOR 1221	110	1000	740	UG/KG			**5500 UJ**					
AROCLOR 1232	110	1000	740	UG/KG			**5500 UJ**					
AROCLOR 1242	110	1000	740	UG/KG			**5500 UJ**					
AROCLOR 1248	110	1000	740	UG/KG			**5500 UJ**					
AROCLOR 1254	110	1000	740	UG/KG								
AROCLOR 1260	110	1000	740	UG/KG								
CAMPHECHLOR	440		1600	UG/KG			**2200 UJ**			**860 UJ**		
CHLORDANE		500		UG/KG			**2200 UJ**			**860 UJ**		
DELTA-BHC	90		360	UG/KG			**110 UJ**					
DIELDRIN	30	44	110	UG/KG						**43 UJ**		
GAMMA-CHLORDANE	1600	500	6500	UG/KG								
HEPTACHLOR	110	160	380	UG/KG			**110 UJ**					
HEPTACHLOR EPOXIDE	53	77	190	UG/KG			**110 UJ**					
Metals (6010B/6020/7841/7470A/7471A)												
ARSENIC	0.39		1.6	MG/KG								
THALLIUM	0.52		6.7	MG/KG							**0.6 UJ**	
VANADIUM	7.8		100	MG/KG								

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004
Crit3: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Blank cells: result was either not detected with a reporting limit below the screening criteria or detected with a reporting limit below the screening criteria
In samples with elevated Aroclor reporting limits, those Aroclors are potentially present at concentrations below the reporting limit but could not be quantified due to interference from other Aroclor concentrations that were elevated.

TABLE 4-8 SUMMARY OF NON-DETECTED CONSTITUENTS WITH REPORTING LIMITS ABOVE CRITERIA IN SLUDGE, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	UN	DW	UN	WW
				Excavation:	X11	X26	X00	X07	X28
				Sample Name:	C7-OCC-SL-X11-MH01-5	C7-OCC-SL-X26-UN01-5.5	C7-SOM-SL-XOO-DW16-3	C7-SOM-SL-X07-UN01-7	C7-SOM-SL-X28-WW01-4.5
				Sample Depth:	5 FT	5.5 FT	3 FT	7 FT	4.5 FT
				Sample Date:	8/9/2006	8/14/2006	7/13/2006	7/12/2006	7/21/2006
				Parent Name:					
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**					
Volatile Organic Compounds (8260B)									
1,1,2,2-TETRACHLOROETHANE	410	35000	930	UG/KG					
1,1,2-TRICHLOROETHANE	730		1600	UG/KG					
1,2-DIBROMO-3-CHLOROPROPANE	210		1100	UG/KG					
1,2-DICHLOROETHANE	280	7700	600	UG/KG					
1,2-DICHLOROPROPANE	340		740	UG/KG					
1,4-DICHLOROBENZENE	3400		7900	UG/KG					
BENZENE	640	24000	1400	UG/KG					
BROMODICHLOROMETHANE	820		1800	UG/KG					
BROMOMETHANE	390		1300	UG/KG					
CARBON TETRACHLORIDE	220	5400	550	UG/KG					
CHLORODIBROMOMETHANE	1100		2600	UG/KG					
CHLOROETHANE	3000		6500	UG/KG					
CHLOROFORM	220	80000	470	UG/KG					
CHLOROMETHANE	4700		16000	UG/KG					
CIS-1,2-DICHLOROETHENE	4300	80000	15000	UG/KG					
CIS-1,3-DICHLOROPROPENE	780		1800	UG/KG					
ETHYLENE DIBROMIDE	32		73	UG/KG	**32 UJ**			**93 UJ**	**50 UJ**
METHYLENE CHLORIDE	9100	93000	21000	UG/KG					
TETRACHLOROETHENE	480	14000	1300	UG/KG					
TRANS-1,2-DICHLOROETHENE	6900	200000	23000	UG/KG					
TRICHLOROETHYLENE	2900	64000	6500	UG/KG					
VINYL CHLORIDE	79	360	750	UG/KG				**190 UJ**	**100 UJ**
Semi-Volatile Organic Compounds (8151/8270C/8310)									
1,2,4-TRICHLOROBENZENE	6200		22000	UG/KG					
2,2'-OXYBIS(1-CHLOROPROPANE)	2900		7400	UG/KG					
2,4,6-TRICHLOROPHENOL	610		6200	UG/KG					
2,4-DICHLOROPHENOL	18000	20000	180000	UG/KG					
2,4-DIMETHYLPHENOL	120000		1E+06	UG/KG					
2,4-DINITROPHENOL	12000	20000	120000	UG/KG					
2-CHLOROPHENOL	6300	40000	24000	UG/KG					
2-METHYL-4,6-DINITROPHENOL	610		6200	UG/KG		**1100 UJ**		**730 UJ**	
2-METHYLNAPHTHALENE	5600		19000	UG/KG					
2-METHYLPHENOL	310000		3100000	UG/KG					
2-NITROANILINE	18000		180000	UG/KG					
2-NITROPHENOL	880		2200	UG/KG					
3,3'-DICHLOROBENZIDINE	1100		3800	UG/KG					
3-NITROANILINE	1800		18000	UG/KG					
4-BROMOPHENYL PHENYL ETHER	2900		7400	UG/KG					
4-CHLOROPHENYL PHENYL ETHER	2900		7400	UG/KG					
4-METHYLPHENOL	31000	400000	310000	UG/KG					
4-NITROANILINE	18000		82000	UG/KG					
4-NITROPHENOL	880		2200	UG/KG					

TABLE 4-8 SUMMARY OF NON-DETECTED CONSTITUENTS WITH REPORTING LIMITS ABOVE CRITERIA IN SLUDGE, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	UN	DW	UN	WW
				Excavation:	X11	X26	X00	X07	X28
				Sample Name:	C7-OCC-SL-X11-MH01-5	C7-OCC-SL-X26-UN01-5.5	C7-SOM-SL-XOO-DW16-3	C7-SOM-SL-X07-UN01-7	C7-SOM-SL-X28-WW01-4.5
				Sample Depth:	5 FT	5.5 FT	3 FT	7 FT	4.5 FT
				Sample Date:	8/9/2006	8/14/2006	7/13/2006	7/12/2006	7/21/2006
				Parent Name:					
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**					
BENZO[A]PYRENE	62	60.9	210	UG/KG					
BENZO[K]FLUORANTHENE	6200	224	21000	UG/KG					
BIS(2-CHLOROETHYL) ETHER	220		580	UG/KG					
DIBENZ[A,H]ANTHRACENE	62	14.3	210	UG/KG		**84 UJ**		**58 UJ**	**30 UJ**
DIBENZOFURAN	15000		160000	UG/KG					
HEXACHLORO-1,3-BUTADIENE	1800		18000	UG/KG					
HEXACHLOROBENZENE	300	410	1100	UG/KG					
HEXACHLOROCYCLOPENTADIENE	37000		370000	UG/KG					
HEXACHLOROETHANE	6100		62000	UG/KG					
N-NITROSODI-N-PROPYLAMINE	69		250	UG/KG		**84 UJ**			
PENTACHLOROPHENOL	3000	200000	9000	UG/KG					
Pesticides (8081)/Polychlorinated Biphenyls(8082)									
ALDRIN	29	41	100	UG/KG					
ALPHA-BHC	90	111	360	UG/KG					
AROCLOR 1016	390	1000	3700	UG/KG					
AROCLOR 1221	110	1000	740	UG/KG	**110 UJ**		**120 U**	**150 UJ**	
AROCLOR 1232	110	1000	740	UG/KG	**110 UJ**		**120 U**	**150 UJ**	
AROCLOR 1242	110	1000	740	UG/KG	**110 UJ**		**120 U**	**150 UJ**	
AROCLOR 1248	110	1000	740	UG/KG	**110 UJ**		**120 U**	**150 UJ**	
AROCLOR 1254	110	1000	740	UG/KG	**110 UJ**			**150 UJ**	
AROCLOR 1260	110	1000	740	UG/KG	**110 UJ**		**120 U**	**150 UJ**	
CAMPHECHLOR	440		1600	UG/KG					
CHLORDANE		500		UG/KG					
DELTA-BHC	90		360	UG/KG					
DIELDRIN	30	44	110	UG/KG					
GAMMA-CHLORDANE	1600	500	6500	UG/KG					
HEPTACHLOR	110	160	380	UG/KG					
HEPTACHLOR EPOXIDE	53	77	190	UG/KG					
Metals (6010B/6020/7841/7470A/7471A)									
ARSENIC	0.39		1.6	MG/KG					
THALLIUM	0.52		6.7	MG/KG	**0.59 UJ**			**12.2 UJ**	**0.55 UJ**
VANADIUM	7.8		100	MG/KG	**8.6 UJ**				

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004
Crit3: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Blank cells: result was either not detected with a reporting limit below the screening criteria or detected with a reporting limit below the screening criteria
In samples with elevated Aroclor reporting limits, those Aroclors are potentially present at concentrations below the reporting limit but could not be quantified due to interference from other Aroclor concentrations that were elevated.

TABLE 4-9 SUMMARY OF NON-DETECTED CONSTITUENTS WITH REPORTING LIMITS ABOVE CRITERIA IN WASTEWATER, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	AW	DW	SN	SN
			Excavation:	X12	X13	X14	X15	X00	X26	X27
			Sample Name:	C7-OCC-WW-X12-SN01-5	C7-OCC-WW-X13-SN01-5	C7-OCC-WW-X14-SN01-5	C7-SOM-WW-X15-UN01-6.5	C7-SOM-WW-XOODW02-7	C7-SOM-WW-X26-SN01-3	C7-SOM-WW-X27-SN01-5
			Sample Depth:	5 FT	5 FT	5 FT	6.5 FT	7 FT	3 FT	5 FT
			Sample Date:	8/10/2006	8/10/2006	8/10/2006	7/17/2006	8/7/2006	7/20/2006	7/21/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
Volatile Organic Compounds (8260B)										
1,1,2,2-TETRACHLOROETHANE	0.055	0.2	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-TRICHLOROETHANE	0.2	1	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHYLENE		0.7	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DIBROMO-3-CHLOROPROPANE	0.035	0.04	UG/L	2 U	2 U	2 U		2 U		
1,2-DICHLOROETHANE	0.12	0.6	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROPROPANE	0.16	1	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BENZENE	0.35	10	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMODICHLOROMETHANE	0.18	5	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CARBON TETRACHLORIDE	0.17	0.4	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLORODIBROMOMETHANE	0.13	50	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CIS-1,3-DICHLOROPROPENE	0.4		UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLENE DIBROMIDE	0.0056	0.0006	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TETRACHLOROETHENE	0.1	1	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
VINYL CHLORIDE	0.02	0.3	UG/L	1 U	1 U	1 U	1 UJ	1 U	1 U	1 UJ
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2-BENZPHENANTHRACENE	9.2	0.002	UG/L	0.24 U	0.22 U	0.22 U	0.56 U	0.22 U	0.2 U	0.53 U
1,4-DICHLOROBENZENE	0.5	5	UG/L				0.56 U			0.53 U
2,2'-OXYBIS(1-CHLOROPROPANE)	0.27	5	UG/L				0.56 U			0.53 U
2,4,6-TRICHLOROPHENOL	0.36		UG/L	1.2 U	1.1 U	1.1 U	0.56 U	1.1 U	1 U	1.1 U
2,4-DICHLOROPHENOL	11	0.3	UG/L	1.2 U	1.1 U	1.1 U	0.56 U	1.1 U	1 U	1.1 U
2,4-DINITROTOLUENE	0.099	5	UG/L							
2-METHYL-4,6-DINITROPHENOL	0.36		UG/L	3 UJ	2.8 UJ	2.7 UJ	1.1 U	1.1 U	2.5 U	1.1 U
2-NITROPHENOL	0.049		UG/L	3 U	2.8 U	2.7 U	0.56 U	1.1 U	1 U	1.1 U
3,3`-DICHLOROBENZIDINE	0.15	5	UG/L	0.24 U	0.22 U	0.22 U	1.1 U	0.22 U	0.2 U	1.1 UJ
4-BROMOPHENYL PHENYL ETHER	0.27		UG/L				0.56 U			0.53 U
4-CHLOROPHENYL PHENYL ETHER	0.27		UG/L				0.56 U			0.53 U
4-NITROPHENOL	0.049		UG/L	1.2 U	1.1 U	1.1 U	1.1 U	1.1 U		1.1 UJ
BENZ[A]ANTHRACENE	0.092	0.03	UG/L	0.24 U	0.22 U	0.22 U	0.56 U	0.22 U	0.2 U	0.53 U
BENZO[A]PYRENE	0.0092	0.0012	UG/L	0.24 U	0.22 U	0.22 U	0.56 U	0.22 U	0.2 U	0.53 U
BENZO[B]FLUORANTHENE	0.092	0.002	UG/L	0.24 U	0.22 U	0.22 U	0.56 U	0.22 U	0.2 U	0.53 U
BENZO[K]FLUORANTHENE	0.92	0.002	UG/L	0.24 U	0.22 U	0.22 U	0.56 U	0.22 U	0.2 U	0.53 UJ
BIS(2-CHLOROETHYL) ETHER	0.01	0.03	UG/L	0.24 U	0.22 U	0.22 U	0.56 U	0.22 U	0.2 U	0.53 U
BIS(2-ETHYLHEXYL) PHTHALATE	4.8	0.6	UG/L	2.3 U	2.9 U	1.2 U				
DIBENZ[A,H]ANTHRACENE	0.0092		UG/L	0.24 U	0.22 U	0.22 U	0.56 U	0.22 U	0.2 U	0.53 U

TABLE 4-9 SUMMARY OF NON-DETECTED CONSTITUENTS WITH REPORTING LIMITS ABOVE CRITERIA IN WASTEWATER, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	AW	DW	SN	SN
			Excavation:	X12	X13	X14	X15	X00	X26	X27
			Sample Name:	C7-OCC-WW-X12-SN01-5	C7-OCC-WW-X13-SN01-5	C7-OCC-WW-X14-SN01-5	C7-SOM-WW-X15-UN01-6.5	C7-SOM-WW-XOO DW02-7	C7-SOM-WW-X26-SN01-3	C7-SOM-WW-X27-SN01-5
			Sample Depth:	5 FT	5 FT	5 FT	6.5 FT	7 FT	3 FT	5 FT
			Sample Date:	8/10/2006	8/10/2006	8/10/2006	7/17/2006	8/7/2006	7/20/2006	7/21/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
FLUORENE	24	0.54	UG/L				**0.56 U**			
HEXACHLORO-1,3-BUTADIENE	0.86	0.01	UG/L	**0.24 U**	**0.22 U**	**0.22 U**		**0.22 U**	**0.2 U**	**0.53 U**
HEXACHLOROBENZENE	0.042	0.00003	UG/L	**0.24 U**	**0.22 U**	**0.22 U**	**0.56 U**	**0.22 U**	**0.2 U**	**0.53 U**
INDENO[1,2,3-CD]PYRENE	0.092	0.002	UG/L	**0.24 U**	**0.22 U**	**0.22 U**	**0.56 U**	**0.22 U**	**0.2 U**	**0.53 U**
N-NITROSODI-N-PROPYLAMINE	0.0096		UG/L	**0.24 UJ**	**0.22 UJ**	**0.22 UJ**	**0.56 U**	**0.22 U**		**0.53 U**
PENTACHLOROPHENOL	0.56		UG/L	**1.2 UJ**	**1.1 UJ**	**1.1 UJ**	**1.1 U**	**2.8 U**		**1.1 U**
PHENOL	1100	1	UG/L	**1.2 U**	**1.1 U**	**1.1 U**		**1.1 U**	**1 U**	**1.1 U**
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	0.28	0.0008	UG/L	**0.058 UJ**	**0.058 U**	**0.054 U**	**0.056 UJ**	**0.052 UJ**	**0.05 U**	**0.053 UJ**
4,4'-DDE	0.2	0.000007	UG/L	**0.058 UJ**	**0.058 UJ**	**0.054 UJ**	**0.056 UJ**	**0.052 UJ**	**0.05 U**	**0.053 UJ**
4,4'-DDT	0.2	0.00001	UG/L	**0.058 U**	**0.058 UJ**	**0.054 UJ**	**0.056 U**	**0.052 U**	**0.05 UJ**	**0.053 UJ**
ALDRIN	0.004	5	UG/L	**0.058 U**	**0.058 U**		**0.056 UJ**	**0.052 U**	**0.05 U**	**0.053 U**
ALPHA-BHC	0.011	0.002	UG/L	**0.058 U**	**0.058 U**	**0.054 U**	**0.056 UJ**	**0.052 U**	**0.05 U**	**0.053 UJ**
AROCLOR 1016	0.26		UG/L	**0.58 U**	**0.58 U**	**0.54 U**	**0.56 U**	**0.52 U**	**0.5 U**	**0.53 U**
AROCLOR 1221	0.034		UG/L	**0.58 U**	**0.58 U**	**0.54 U**	**0.56 U**	**0.52 U**	**0.5 U**	**0.53 U**
AROCLOR 1232	0.034		UG/L	**0.58 U**	**0.58 U**	**0.54 U**	**0.56 U**	**0.52 U**	**0.5 U**	**0.53 U**
AROCLOR 1242	0.034		UG/L	**0.58 U**	**0.58 U**	**0.54 U**	**0.56 U**	**0.52 U**	**0.5 U**	**0.53 U**
AROCLOR 1248	0.034		UG/L	**0.58 U**	**0.58 U**	**0.54 U**	**0.56 U**	**0.52 U**	**0.5 U**	**0.53 U**
AROCLOR 1254	0.034		UG/L	**0.58 U**	**0.58 U**	**0.54 U**	**0.56 U**	**0.52 U**	**0.5 U**	**0.53 U**
AROCLOR 1260	0.034		UG/L	**0.58 U**	**0.58 U**	**0.54 U**	**0.56 U**	**0.52 U**	**0.5 U**	**0.53 U**
BETA-BHC	0.037	0.007	UG/L	**0.058 U**	**0.058 U**	**0.054 U**	**0.056 U**	**0.052 U**	**0.05 U**	**0.053 U**
CAMPHECHLOR	0.061	0.000006	UG/L	**1.2 U**	**1.2 U**	**1.1 U**	**1.1 U**	**1 U**	**1 U**	**1.1 U**
CHLORDANE		0.00002	UG/L	**1.2 U**	**1.2 U**	**1.1 U**	**1.1 U**	**1 U**	**1 U**	**1.1 U**
DELTA-BHC	0.011	0.008	UG/L	**0.058 U**	**0.058 U**	**0.054 U**	**0.056 U**	**0.052 U**	**0.05 U**	**0.053 U**
DIELDRIN	0.0042	.000000	UG/L	**0.058 U**	**0.058 U**	**0.054 U**	**0.056 UJ**	**0.052 U**	**0.05 U**	**0.053 UJ**
ENDRIN	1.1	0.002	UG/L	**0.058 U**	**0.058 U**	**0.054 U**	**0.056 UJ**	**0.052 U**	**0.05 UJ**	**0.053 UJ**
GAMMA-BHC	0.052	0.008	UG/L	**0.058 U**	**0.058 U**	**0.054 U**	**0.056 U**	**0.052 U**	**0.05 U**	**0.053 U**
HEPTACHLOR	0.015	0.0002	UG/L	**0.058 U**	**0.058 U**	**0.054 U**	**0.056 U**	**0.052 U**	**0.05 U**	**0.053 U**
HEPTACHLOR EPOXIDE	0.0074	0.0003	UG/L	**0.098 U**	**0.058 U**	**0.054 U**	**0.056 U**		**0.05 U**	**0.053 U**
METHOXYCHLOR	18	0.03	UG/L	**0.058 U**	**0.058 UJ**	**0.054 UJ**	**0.056 U**	**0.052 U**	**0.05 UJ**	**0.053 UJ**
Explosives (8330)										
2,4-DINITROTOLUENE	0.099	5	UG/L	**0.23 U**	**0.22 U**	**0.24 U**	**0.22 UJ**	**0.26 U**		**0.21 U**
2,6-DINITROTOLUENE	0.099	0.07	UG/L	**0.23 U**	**0.22 U**	**0.24 U**	**0.22 UJ**	**0.26 U**	**0.21 U**	**0.21 U**
2-NITROTOLUENE	0.049	5	UG/L	**0.45 U**	**0.44 U**	**0.47 U**	**0.44 U**	**0.52 U**	**0.42 U**	**0.42 U**
Metals (6010B/6020/7841/7470A/7471A)										

TABLE 4-9 SUMMARY OF NON-DETECTED CONSTITUENTS WITH REPORTING LIMITS ABOVE CRITERIA IN WASTEWATER,
UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	AW	DW	SN	SN
			Excavation:	X12	X13	X14	X15	X00	X26	X27
			Sample Name:	C7-OCC-WW-X12-SN01-5	C7-OCC-WW-X13-SN01-5	C7-OCC-WW-X14-SN01-5	C7-SOM-WW-X15-UN01-6.5	C7-SOM-WW-XOODW02-7	C7-SOM-WW-X26-SN01-3	C7-SOM-WW-X27-SN01-5
			Sample Depth:	5 FT	5 FT	5 FT	6.5 FT	7 FT	3 FT	5 FT
			Sample Date:	8/10/2006	8/10/2006	8/10/2006	7/17/2006	8/7/2006	7/20/2006	7/21/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
ARSENIC	0.045		UG/L			**1 U**		**1 U**	**1 U**	
SILVER	18	0.1	UG/L							
THALLIUM	0.24	8	UG/L		**0.28 U**			**0.37 U**		
VANADIUM	3.6	14	UG/L							

Crit1: U.S. EPA Region 9 PRG Tap Water, 2004
Crit2: New York State TOG Surface Water, 1998
Blank Cell = Not Analyzed
See Table 4-7 for complete footnotes.

TABLE 4-9 SUMMARY OF NON-DETECTED CONSTITUENTS WITH REPORTING LIMITS ABOVE CRITERIA IN WASTEWATER, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	SN	SN	SN	UN
			Excavation:	X28	X28	X30	X32	X33	X33	X02
			Sample Name:	C7-SOM-WW-X28-SN01-7	C7-SOM-WW-DUP1	C7-SOM-WW-X30-SN01-7.5	C7-SOM-WW-X32-SN01-4	C7-SOM-WW-X33-SN01-4	C7-SOM-WW-DUP2	C7-SOM-WW-X02-UN02-4
			Sample Depth:	7 FT	7 FT	7.5 FT	4 FT	4 FT	4 FT	4 FT
			Sample Date:	7/21/2006	7/21/2006	7/24/2006	7/25/2006	7/25/2006	7/25/2006	7/10/2006
			Parent Name:		C7-SOM-WW-X28-SN01-7				C7-SOM-WW-X33-SN01-4	
Analyte	**Crit1**	**Crit2**	**Unit**							
Volatile Organic Compounds (8260B)										
1,1,2,2-TETRACHLOROETHANE	0.055	0.2	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-TRICHLOROETHANE	0.2	1	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHYLENE		0.7	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DIBROMO-3-CHLOROPROPANE	0.035	0.04	UG/L				2 U	2 U	2 U	2 U
1,2-DICHLOROETHANE	0.12	0.6	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROPROPANE	0.16	1	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BENZENE	0.35	10	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	
BROMODICHLOROMETHANE	0.18	5	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CARBON TETRACHLORIDE	0.17	0.4	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLORODIBROMOMETHANE	0.13	50	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CIS-1,3-DICHLOROPROPENE	0.4		UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLENE DIBROMIDE	0.0056	0.0006	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TETRACHLOROETHENE	0.1	1	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
VINYL CHLORIDE	0.02	0.3	UG/L				1 U	1 U	1 U	1 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2-BENZPHENANTHRACENE	9.2	0.002	UG/L	0.53 U	0.53 U		0.22 U		0.22 U	0.56 U
1,4-DICHLOROBENZENE	0.5	5	UG/L							0.56 U
2,2'-OXYBIS(1-CHLOROPROPANE)	0.27	5	UG/L	0.53 U	0.53 U					0.56 U
2,4,6-TRICHLOROPHENOL	0.36		UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1 U	1.1 U	0.56 U
2,4-DICHLOROPHENOL	11	0.3	UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1 U	1.1 U	0.56 U
2,4-DINITROTOLUENE	0.099	5	UG/L			0.22 U	0.22 U	0.2 U	0.22 U	
2-METHYL-4,6-DINITROPHENOL	0.36		UG/L	1.1 U	1.1 U	2.8 UJ	2.8 UJ	2.5 UJ	2.8 UJ	1.1 U
2-NITROPHENOL	0.049		UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1 U	1.1 U	0.56 U
3,3`-DICHLOROBENZIDINE	0.15	5	UG/L	1.1 UJ	1.1 UJ	0.22 U	0.22 U	0.2 U	0.22 U	1.1 U
4-BROMOPHENYL PHENYL ETHER	0.27		UG/L	0.53 U	0.53 U					0.56 U
4-CHLOROPHENYL PHENYL ETHER	0.27		UG/L	0.53 U	0.53 U					0.56 U
4-NITROPHENOL	0.049		UG/L	1.1 UJ	1.1 UJ	1.1 U	1.1 UJ	1 U	1.1 U	1.1 U
BENZ[A]ANTHRACENE	0.092	0.03	UG/L	0.53 U	0.53 U		0.22 U		0.22 U	0.56 U
BENZO[A]PYRENE	0.0092	0.0012	UG/L	0.53 U	0.53 U		0.22 U	0.2 U	0.22 U	0.56 U
BENZO[B]FLUORANTHENE	0.092	0.002	UG/L	0.53 U	0.53 U		0.22 U	0.2 U	0.22 U	0.56 U
BENZO[K]FLUORANTHENE	0.92	0.002	UG/L	0.53 UJ	0.53 UJ		0.22 U	0.2 U	0.22 U	0.56 U
BIS(2-CHLOROETHYL) ETHER	0.01	0.03	UG/L	0.53 U	0.53 U	0.22 U	0.22 U	0.2 U	0.22 U	0.56 U
BIS(2-ETHYLHEXYL) PHTHALATE	4.8	0.6	UG/L							
DIBENZ[A,H]ANTHRACENE	0.0092		UG/L	0.53 U	0.53 U	0.22 U	0.22 U	0.2 U	0.22 U	0.56 U

TABLE 4-9 SUMMARY OF NON-DETECTED CONSTITUENTS WITH REPORTING LIMITS ABOVE CRITERIA IN WASTEWATER, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	SN	SN	SN	UN
			Excavation:	X28	X28	X30	X32	X33	X33	X02
			Sample Name:	C7-SOM-WW-X28-SN01-7	C7-SOM-WW-DUP1	C7-SOM-WW-X30-SN01-7.5	C7-SOM-WW-X32-SN01-4	C7-SOM-WW-X33-SN01-4	C7-SOM-WW-DUP2	C7-SOM-WW-X02-UN02-4
			Sample Depth:	7 FT	7 FT	7.5 FT	4 FT	4 FT	4 FT	4 FT
			Sample Date:	7/21/2006	7/21/2006	7/24/2006	7/25/2006	7/25/2006	7/25/2006	7/10/2006
			Parent Name:		C7-SOM-WW-X28-SN01-7				C7-SOM-WW-X33-SN01-4	
Analyte	**Crit1**	**Crit2**	**Unit**							
FLUORENE	24	0.54	UG/L							
HEXACHLORO-1,3-BUTADIENE	0.86	0.01	UG/L	**0.53 U**	**0.53 U**	**0.22 U**	**0.22 U**	**0.2 U**	**0.22 U**	**0.56 U**
HEXACHLOROBENZENE	0.042	0.00003	UG/L	**0.53 U**	**0.53 U**	**0.22 U**	**0.22 U**	**0.2 U**	**0.22 U**	**0.56 U**
INDENO[1,2,3-CD]PYRENE	0.092	0.002	UG/L	**0.53 U**	**0.53 U**		**0.22 U**	**0.2 U**	**0.22 U**	**0.56 U**
N-NITROSODI-N-PROPYLAMINE	0.0096		UG/L	**0.53 U**	**0.53 U**		**0.22 UJ**	**0.2 UJ**	**0.22 UJ**	**0.56 U**
PENTACHLOROPHENOL	0.56		UG/L					**2.5 UJ**	**2.8 UJ**	**1.1 U**
PHENOL	1100	1	UG/L	**1.1 U**	**1.1 U**	**1.1 U**	**1.1 UJ**	**1 U**	**1.1 U**	
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	0.28	0.0008	UG/L	**0.053 UJ**	**0.053 UJ**		**0.05 UJ**	**0.024 U**	**0.056 UJ**	**0.056 UJ**
4,4'-DDE	0.2	0.000007	UG/L	**0.053 UJ**	**0.053 UJ**		**0.05 UJ**		**0.056 UJ**	**0.056 UJ**
4,4'-DDT	0.2	0.00001	UG/L	**0.053 UJ**	**0.053 UJ**		**0.05 U**		**0.056 U**	**0.056 UJ**
ALDRIN	0.004	5	UG/L	**0.053 U**	**0.053 U**	**0.056 U**	**0.05 U**	**0.053 U**	**0.056 U**	**0.056 U**
ALPHA-BHC	0.011	0.002	UG/L	**0.053 UJ**	**0.053 UJ**	**0.056 U**	**0.05 U**	**0.053 U**	**0.056 U**	**0.056 UJ**
AROCLOR 1016	0.26		UG/L	**0.53 UJ**	**0.53 UJ**	**0.56 U**	**0.56 U**	**0.53 U**	**0.56 U**	**0.56 U**
AROCLOR 1221	0.034		UG/L	**0.53 U**	**0.53 U**	**0.56 U**	**0.56 U**	**0.53 U**	**0.56 U**	**0.56 U**
AROCLOR 1232	0.034		UG/L	**0.53 U**	**0.53 U**	**0.56 U**	**0.56 U**	**0.53 U**	**0.56 U**	**0.56 U**
AROCLOR 1242	0.034		UG/L	**0.53 U**	**0.53 U**	**0.56 U**	**0.56 U**	**0.53 U**	**0.56 U**	**0.56 U**
AROCLOR 1248	0.034		UG/L	**0.53 U**	**0.53 U**	**0.56 U**	**0.56 U**	**0.53 U**	**0.56 U**	**0.56 U**
AROCLOR 1254	0.034		UG/L	**0.53 U**	**0.53 U**	**0.56 U**	**0.56 U**	**0.53 U**	**0.56 U**	**0.56 U**
AROCLOR 1260	0.034		UG/L	**0.53 U**	**0.53 U**	**0.56 U**	**0.56 U**	**0.53 U**	**0.56 U**	**0.56 U**
BETA-BHC	0.037	0.007	UG/L	**0.053 U**	**0.053 U**	**0.056 U**	**0.05 U**	**0.053 U**	**0.056 U**	**0.056 U**
CAMPHECHLOR	0.061	0.000006	UG/L	**1.1 U**	**1.1 U**	**1.1 U**	**1 U**	**1.1 U**	**1.1 U**	**1.1 U**
CHLORDANE		0.00002	UG/L	**1.1 U**	**1.1 U**	**1.1 U**	**1 U**	**1.1 U**	**1.1 U**	**1.1 U**
DELTA-BHC	0.011	0.008	UG/L	**0.053 U**	**0.053 U**	**0.056 U**	**0.05 U**	**0.053 U**	**0.056 U**	**0.056 UJ**
DIELDRIN	0.0042	.000000	UG/L	**0.053 UJ**	**0.053 UJ**	**0.056 U**	**0.05 U**	**0.053 U**	**0.056 U**	**0.056 U**
ENDRIN	1.1	0.002	UG/L	**0.053 UJ**	**0.053 UJ**	**0.056 UJ**	**0.05 UJ**	**0.053 UJ**	**0.056 U**	**0.056 UJ**
GAMMA-BHC	0.052	0.008	UG/L	**0.053 U**	**0.053 U**	**0.056 U**	**0.05 U**	**0.053 U**	**0.056 U**	**0.056 U**
HEPTACHLOR	0.015	0.0002	UG/L	**0.053 U**	**0.053 U**	**0.056 U**	**0.05 U**	**0.053 U**	**0.056 U**	**0.056 U**
HEPTACHLOR EPOXIDE	0.0074	0.0003	UG/L	**0.053 U**	**0.053 U**	**0.056 U**	**0.05 U**	**0.053 U**	**0.056 U**	
METHOXYCHLOR	18	0.03	UG/L	**0.053 UJ**	**0.053 UJ**	**0.056 U**	**0.05 U**	**0.053 U**	**0.056 U**	**0.056 U**
Explosives (8330)										
2,4-DINITROTOLUENE	0.099	5	UG/L	**0.21 U**	**0.22 U**					**0.26 U**
2,6-DINITROTOLUENE	0.099	0.07	UG/L	**0.21 U**	**0.22 U**	**0.22 U**	**0.26 U**	**0.26 U**	**0.26 U**	**0.26 U**
2-NITROTOLUENE	0.049	5	UG/L	**0.42 U**	**0.44 U**	**0.44 U**	**0.52 U**	**0.52 U**	**0.52 U**	**0.52 U**
Metals (6010B/6020/7841/7470A/7471A)										

TABLE 4-9 SUMMARY OF NON-DETECTED CONSTITUENT_ _ITH REPORTING LIMITS ABOVE CRITERIA IN WASTEWATER, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	SN	SN	SN	UN
			Excavation:	X28	X28	X30	X32	X33	X33	X02
			Sample Name:	C7-SOM-WW-X28-SN01-7	C7-SOM-WW-DUP1	C7-SOM-WW-X30-SN01-7.5	C7-SOM-WW-X32-SN01-4	C7-SOM-WW-X33-SN01-4	C7-SOM-WW-DUP2	C7-SOM-WW-X02-UN02-4
			Sample Depth:	7 FT	7 FT	7.5 FT	4 FT	4 FT	4 FT	4 FT
			Sample Date:	7/21/2006	7/21/2006	7/24/2006	7/25/2006	7/25/2006	7/25/2006	7/10/2006
			Parent Name:		C7-SOM-WW-X28-SN01-7				C7-SOM-WW-X33-SN01-4	
Analyte	**Crit1**	**Crit2**	**Unit**							
ARSENIC	0.045		UG/L	**1 U**	**1 U**					
SILVER	18	0.1	UG/L							
THALLIUM	0.24	8	UG/L					**0.49 U**	**0.65 U**	
VANADIUM	3.6	14	UG/L							

Crit1: U.S. EPA Region 9 PRG Tap Water, 2004
Crit2: New York State TOG Surface Water, 1998
Blank Cell = Not Analyzed
See Table 4-7 for complete footnotes.

TABLE 4-9 SUMMARY OF NON-DETECTED CONSTITUENTS WITH REPORTING LIMITS ABOVE CRITERIA IN WASTEWATER, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	UN	UN	UN	WP	WW	WW
			Excavation:	X07	X19	X35	X14	X00	X29
			Sample Name:	C7-SOM-WW-X07-UN01-3	C7-SOM-WW-X19-UN01-6	C7-SOM-WW-X35-UN01-6	C7-SOM-WW-X14-UN01-6	C7-SOM-WW-X00-WW3-6	C7-SOM-WW-X29-WW01-4.5
			Sample Depth:	3 FT	6 FT	6 FT	6 FT	6 FT	4.5 FT
			Sample Date:	7/12/2006	7/18/2006	7/25/2006	7/17/2006	7/17/2006	7/24/2006
			Parent Name:						
Analyte	**Crit1**	**Crit2**	**Unit**						
Volatile Organic Compounds (8260B)									
1,1,2,2-TETRACHLOROETHANE	0.055	0.2	UG/L	1 U	1 UJ	1 U	1 U	1 UJ	1 U
1,1,2-TRICHLOROETHANE	0.2	1	UG/L	1 U	1 UJ	1 U	1 U	1 UJ	1 U
1,1-DICHLOROETHYLENE		0.7	UG/L	1 U	1 UJ	1 U	1 U	1 UJ	1 U
1,2-DIBROMO-3-CHLOROPROPANE	0.035	0.04	UG/L	2 U		2 U			2 U
1,2-DICHLOROETHANE	0.12	0.6	UG/L	1 U	1 UJ	1 U	1 U	1 UJ	1 U
1,2-DICHLOROPROPANE	0.16	1	UG/L	1 U	1 UJ	1 U	1 U	1 UJ	1 U
BENZENE	0.35	10	UG/L	1 U	1 UJ	1 U		1 UJ	1 U
BROMODICHLOROMETHANE	0.18	5	UG/L	1 U	1 UJ	1 U	1 U	1 UJ	1 U
CARBON TETRACHLORIDE	0.17	0.4	UG/L	1 U	1 UJ	1 U	1 U	1 UJ	1 U
CHLORODIBROMOMETHANE	0.13	50	UG/L	1 U	1 UJ	1 U	1 U	1 UJ	1 U
CIS-1,3-DICHLOROPROPENE	0.4		UG/L	1 U	1 UJ	1 U	1 U	1 UJ	1 U
ETHYLENE DIBROMIDE	0.0056	0.0006	UG/L	1 U	1 UJ	1 U	1 U	1 UJ	1 U
TETRACHLOROETHENE	0.1	1	UG/L	1 U	1 UJ	1 U	1 U	1 UJ	1 U
VINYL CHLORIDE	0.02	0.3	UG/L	1 U		1 U	1 UJ	1 UJ	
Semi-Volatile Organic Compounds (8151/8270C/8310)									
1,2-BENZPHENANTHRACENE	9.2	0.002	UG/L	0.21 U				0.58 U	0.22 U
1,4-DICHLOROBENZENE	0.5	5	UG/L				0.52 U	0.58 U	
2,2'-OXYBIS(1-CHLOROPROPANE)	0.27	5	UG/L				0.52 U	0.58 U	
2,4,6-TRICHLOROPHENOL	0.36		UG/L	1 U		1.1 U	0.52 U	0.58 U	1.1 U
2,4-DICHLOROPHENOL	11	0.3	UG/L	1 U		1.1 UJ	0.52 U	0.58 U	1.1 U
2,4-DINITROTOLUENE	0.099	5	UG/L	0.21 U		0.22 U			0.22 U
2-METHYL-4,6-DINITROPHENOL	0.36		UG/L	2.6 U		2.8 UJ	1 U	1.1 U	2.8 UJ
2-NITROPHENOL	0.049		UG/L	1 U		1.1 UJ	0.52 U	0.58 U	1.1 U
3,3`-DICHLOROBENZIDINE	0.15	5	UG/L	0.21 U	0.22 U	0.22 U	1 U	1.1 U	0.22 U
4-BROMOPHENYL PHENYL ETHER	0.27		UG/L				0.52 U	0.58 U	
4-CHLOROPHENYL PHENYL ETHER	0.27		UG/L				0.52 U	0.58 U	
4-NITROPHENOL	0.049		UG/L	1 U		1.1 U	1 U	1.1 U	1.1 U
BENZ[A]ANTHRACENE	0.092	0.03	UG/L	0.21 U				0.58 U	0.22 U
BENZO[A]PYRENE	0.0092	0.0012	UG/L	0.21 U	0.22 U	0.22 U		0.58 U	0.22 U
BENZO[B]FLUORANTHENE	0.092	0.002	UG/L	0.21 U	0.22 U	0.22 U		0.58 U	0.22 U
BENZO[K]FLUORANTHENE	0.92	0.002	UG/L	0.21 U	0.22 U	0.22 U		0.58 U	0.22 U
BIS(2-CHLOROETHYL) ETHER	0.01	0.03	UG/L	0.21 U	0.22 U	0.22 U	0.52 U	0.58 U	0.22 U
BIS(2-ETHYLHEXYL) PHTHALATE	4.8	0.6	UG/L						
DIBENZ[A,H]ANTHRACENE	0.0092		UG/L	0.21 U	0.22 U	0.22 U	0.52 U	0.58 U	0.22 U

TABLE 4-9 SUMMARY OF NON-DETECTED CONSTITUENTS WITH REPORTING LIMITS ABOVE CRITERIA IN WASTEWATER, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	UN	UN	UN	WP	WW	WW
			Excavation:	X07	X19	X35	X14	X00	X29
			Sample Name:	C7-SOM-WW-X07-UN01-3	C7-SOM-WW-X19-UN01-6	C7-SOM-WW-X35-UN01-6	C7-SOM-WW-X14-UN01-6	C7-SOM-WW-X00-WW3-6	C7-SOM-WW-X29-WW01-4.5
			Sample Depth:	3 FT	6 FT	6 FT	6 FT	6 FT	4.5 FT
			Sample Date:	7/12/2006	7/18/2006	7/25/2006	7/17/2006	7/17/2006	7/24/2006
			Parent Name:						
Analyte	**Crit1**	**Crit2**	**Unit**						
FLUORENE	24	0.54	UG/L					**0.58 U**	
HEXACHLORO-1,3-BUTADIENE	0.86	0.01	UG/L	**0.21 UJ**	**0.22 U**	**0.22 UJ**	**0.52 U**	**0.58 U**	**0.22 U**
HEXACHLOROBENZENE	0.042	0.00003	UG/L	**0.21 U**	**0.22 U**	**0.22 U**	**0.52 U**	**0.58 U**	**0.22 U**
INDENO[1,2,3-CD]PYRENE	0.092	0.002	UG/L	**0.21 U**	**0.22 U**	**0.22 U**		**0.58 U**	**0.22 U**
N-NITROSODI-N-PROPYLAMINE	0.0096		UG/L	**0.21 U**	**0.22 U**	**0.22 UJ**	**0.52 U**	**0.58 U**	
PENTACHLOROPHENOL	0.56		UG/L	**1 U**		**2.8 UJ**	**1 U**	**1.2 U**	
PHENOL	1100	1	UG/L	**1 U**		**1.1 U**			**1.1 U**
Pesticides (8081)/Polychlorinated Biphenyls(8082)									
4,4'-DDD	0.28	0.0008	UG/L	**0.052 UJ**	**0.057 U**		**0.051 UJ**	**0.06 UJ**	**0.056 UJ**
4,4'-DDE	0.2	0.000007	UG/L	**0.052 UJ**	**0.057 U**	**0.056 UJ**	**0.051 UJ**	**0.06 UJ**	**0.056 UJ**
4,4'-DDT	0.2	0.00001	UG/L	**0.052 UJ**	**0.057 UJ**		**0.051 U**	**0.06 U**	**0.056 U**
ALDRIN	0.004	5	UG/L	**0.052 U**	**0.057 U**	**0.056 U**	**0.051 UJ**	**0.06 UJ**	**0.056 U**
ALPHA-BHC	0.011	0.002	UG/L	**0.052 UJ**	**0.057 U**	**0.056 U**	**0.051 UJ**	**0.06 UJ**	**0.056 U**
AROCLOR 1016	0.26		UG/L	**0.52 U**	**0.57 U**	**0.56 U**	**0.51 U**	**0.6 U**	**0.56 U**
AROCLOR 1221	0.034		UG/L	**0.52 U**	**0.57 U**	**0.56 U**	**0.51 U**	**0.6 U**	**0.56 U**
AROCLOR 1232	0.034		UG/L	**0.52 U**	**0.57 U**	**0.56 U**	**0.51 U**	**0.6 U**	**0.56 U**
AROCLOR 1242	0.034		UG/L	**0.52 U**	**0.57 U**	**0.56 U**	**0.51 U**	**0.6 U**	**0.56 U**
AROCLOR 1248	0.034		UG/L	**0.52 U**	**0.57 U**	**0.56 U**	**0.51 U**	**0.6 U**	**0.56 U**
AROCLOR 1254	0.034		UG/L	**0.52 U**	**0.57 U**	**0.56 U**	**0.51 U**	**0.6 U**	**0.56 U**
AROCLOR 1260	0.034		UG/L	**0.52 U**	**0.57 U**	**0.56 U**	**0.51 U**	**0.6 U**	**0.56 U**
BETA-BHC	0.037	0.007	UG/L	**0.052 U**	**0.057 U**	**0.056 U**	**0.051 U**	**0.06 U**	**0.056 U**
CAMPHECHLOR	0.061	0.000006	UG/L	**1 U**	**1.1 U**	**1.1 U**	**1 U**	**1.2 U**	**1.1 U**
CHLORDANE		0.00002	UG/L	**1 U**	**1.1 U**	**1.1 U**	**1 U**	**1.2 U**	**1.1 U**
DELTA-BHC	0.011	0.008	UG/L	**0.052 UJ**	**0.057 U**	**0.056 U**	**0.051 U**	**0.06 U**	**0.056 U**
DIELDRIN	0.0042	.000000	UG/L	**0.052 U**	**0.057 U**	**0.056 U**	**0.051 UJ**	**0.06 UJ**	**0.056 U**
ENDRIN	1.1	0.002	UG/L	**0.052 UJ**	**0.057 UJ**	**0.056 UJ**	**0.051 UJ**	**0.06 UJ**	**0.056 UJ**
GAMMA-BHC	0.052	0.008	UG/L	**0.052 U**	**0.057 U**	**0.056 U**	**0.051 U**	**0.06 U**	**0.056 U**
HEPTACHLOR	0.015	0.0002	UG/L	**0.052 U**	**0.057 U**		**0.051 U**	**0.06 U**	**0.056 U**
HEPTACHLOR EPOXIDE	0.0074	0.0003	UG/L	**0.052 U**	**0.057 U**	**0.056 U**	**0.051 U**	**0.06 U**	**0.056 U**
METHOXYCHLOR	18	0.03	UG/L	**0.052 U**	**0.057 UJ**	**0.056 U**	**0.051 U**	**0.06 U**	**0.056 U**
Explosives (8330)									
2,4-DINITROTOLUENE	0.099	5	UG/L		**0.26 U**		**0.26 UJ**	**0.26 UJ**	
2,6-DINITROTOLUENE	0.099	0.07	UG/L	**0.26 UJ**	**0.26 U**	**0.26 U**	**0.26 UJ**	**0.26 UJ**	**0.24 U**
2-NITROTOLUENE	0.049	5	UG/L	**0.52 U**	**0.52 U**	**0.52 U**	**0.52 U**	**0.52 U**	**0.47 U**
Metals (6010B/6020/7841/7470A/7471A)									

TABLE 4-9 SUMMARY OF NON-DETECTED CONSTITUENTS WITH REPORTING LIMITS ABOVE CRITERIA IN WASTEWATER, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	UN	UN	UN	WP	WW	WW
			Excavation:	X07	X19	X35	X14	X00	X29
			Sample Name:	C7-SOM-WW-X07-UN01-3	C7-SOM-WW-X19-UN01-6	C7-SOM-WW-X35-UN01-6	C7-SOM-WW-X14-UN01-6	C7-SOM-WW-X00-WW3-6	C7-SOM-WW-X29-WW01-4.5
			Sample Depth:	3 FT	6 FT	6 FT	6 FT	6 FT	4.5 FT
			Sample Date:	7/12/2006	7/18/2006	7/25/2006	7/17/2006	7/17/2006	7/24/2006
			Parent Name:						
Analyte	**Crit1**	**Crit2**	**Unit**						
ARSENIC	0.045		UG/L	**1 U**			**1 U**	**1 U**	**1 U**
SILVER	18	0.1	UG/L	**0.3 U**					
THALLIUM	0.24	8	UG/L	**2 U**		**0.48 U**			**0.24 U**
VANADIUM	3.6	14	UG/L	**10 U**					

Crit1: U.S. EPA Region 9 PRG Tap Water, 2004
Crit2: New York State TOG Surface Water, 1998
Blank Cell = Not Analyzed
See Table 4-7 for complete footnotes.

TABLE 4-10 SUMMARY OF NON-DETECTED CONSTITUENTS [illegible]H REPORTING LIMITS ABOVE CRITERIA IN SUBSURFACE SOIL, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	AW	AW	AW	AW	AW	AW
				Excavation:	X41	X89	X90	X91	X94	X96
				Sample Name:	C7-CWM-SO-X41-AW01-4.5	C7-CWM-SO-X89-AW01-17	C7-CWM-SO-X90-AW01-16	C7-CWM-SO-X91-AW01-18	C7-CWM-SO-X94-AW01-10	C7-CWM-SO-X96-AW01-10
				Sample Depth:	4.5 FT	17 FT	17 FT	18 FT	10 FT	10 FT
				Sample Date:	9/6/2006	9/26/2006	9/26/2006	9/27/2006	9/29/2006	9/29/2006
				Parent Name:						
Analyte	**Crit1**	**Crit3**	**Crit2**	**Unit**						
Volatile Organic Compounds (8260B)										
1,2-DIBROMO-3-CHLOROPROPANE	210	1100		UG/KG						
1,2-DICHLOROETHANE	280	600	7700	UG/KG						
1,2-DICHLOROPROPANE	340	740		UG/KG						
CARBON TETRACHLORIDE	220	550	5400	UG/KG						
ETHYLENE DIBROMIDE	32	73		UG/KG						
VINYL CHLORIDE	79	750	360	UG/KG						
Semi-Volatile Organic Compounds (8151/8270C/8310)										
2-METHYL-4,6-DINITROPHENOL	610	6200		UG/KG						
2-NITROPHENOL	880	2200		UG/KG						
4-NITROPHENOL	880	2200		UG/KG						
BENZO[A]PYRENE	62	210	60.9	UG/KG						**110 U**
DIBENZ[A,H]ANTHRACENE	62	210	14.3	UG/KG						**110 U**
HEXACHLOROBENZENE	300	1100	410	UG/KG						
N-NITROSODI-N-PROPYLAMINE	69	250		UG/KG						
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
ALDRIN	29	100	41	UG/KG						
ALPHA-BHC	90	360	111	UG/KG						
AROCLOR 1016	390	3700	1000	UG/KG	**1000 U**					
AROCLOR 1221	110	740	1000	UG/KG	**1000 U**					
AROCLOR 1232	110	740	1000	UG/KG	**1000 U**					
AROCLOR 1242	110	740	1000	UG/KG	**1000 U**					
AROCLOR 1248	110	740	1000	UG/KG	**1000 U**					
AROCLOR 1254	110	740	1000	UG/KG	**1000 U**					
AROCLOR 1260	110	740	1000	UG/KG						
CAMPHECHLOR	440	1600		UG/KG						
CHLORDANE			500	UG/KG						
DELTA-BHC	90	360		UG/KG						
DIELDRIN	30	110	44	UG/KG						
GAMMA-CHLORDANE	1600	6500	500	UG/KG						
HEPTACHLOR	110	380	160	UG/KG						
HEPTACHLOR EPOXIDE	53	190	77	UG/KG						
Metals (6010B/6020/7841/7470A/7471A)										
ARSENIC	0.39	1.6		MG/KG		**2.6 UJ**	**3.6 UJ**	**3.1 U**	**3.7 U**	
THALLIUM	0.52	6.7		MG/KG						

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004

Crit3: U.S. EPA Region 9 PRG Industrial Soil, 2004

Crit2: New York State TAGM 4046 Soil, 1999

Blank cells: result was either not detected with a reporting limit below the screening criteria or detected with a reporting limit below the screening criteria. See Table 4-7 for key to shading.

TABLE 4-10 SUMMARY OF NON-DETECTED CONSTITUENTS WITH REPORTING LIMITS ABOVE CRITERIA IN SUBSURFACE SOIL, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	CW	CW	DW	SN	SN	SN
				Excavation:	X22A	X42	X38	X27	X42	X106
				Sample Name:	C7-CWM-SO-X22A UN01-5.5	C7-CWM-SO-X42-CW01-3	C7-CWM-SO-X38-DW01-3	C7-CWM-SO-X27-SN01-7.5	C7-CWM-SO-X42-SN01-3	C7-CWM-SO-X106-SN01-14
				Sample Depth:	5.5 FT	3 FT	3 FT	7.5 FT	3 FT	14 FT
				Sample Date:	8/29/2006	9/6/2006	9/5/2006	8/30/2006	9/6/2006	9/29/2006
				Parent Name:						
Analyte	**Crit1**	**Crit3**	**Crit2**	**Unit**						
Volatile Organic Compounds (8260B)										
1,2-DIBROMO-3-CHLOROPROPANE	210	1100		UG/KG						
1,2-DICHLOROETHANE	280	600	7700	UG/KG						
1,2-DICHLOROPROPANE	340	740		UG/KG						
CARBON TETRACHLORIDE	220	550	5400	UG/KG						
ETHYLENE DIBROMIDE	32	73		UG/KG						
VINYL CHLORIDE	79	750	360	UG/KG						
Semi-Volatile Organic Compounds (8151/8270C/8310)										
2-METHYL-4,6-DINITROPHENOL	610	6200		UG/KG	**6900 U**					
2-NITROPHENOL	880	2200		UG/KG	**2800 UJ**					
4-NITROPHENOL	880	2200		UG/KG	**2800 UJ**					
BENZO[A]PYRENE	62	210	60.9	UG/KG	**550 U**					
DIBENZ[A,H]ANTHRACENE	62	210	14.3	UG/KG	**550 U**					
HEXACHLOROBENZENE	300	1100	410	UG/KG	**550 U**					
N-NITROSODI-N-PROPYLAMINE	69	250		UG/KG	**550 U**					
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
ALDRIN	29	100	41	UG/KG						
ALPHA-BHC	90	360	111	UG/KG						
AROCLOR 1016	390	3700	1000	UG/KG						
AROCLOR 1221	110	740	1000	UG/KG						
AROCLOR 1232	110	740	1000	UG/KG						
AROCLOR 1242	110	740	1000	UG/KG						
AROCLOR 1248	110	740	1000	UG/KG						
AROCLOR 1254	110	740	1000	UG/KG						
AROCLOR 1260	110	740	1000	UG/KG						
CAMPHECHLOR	440	1600		UG/KG						
CHLORDANE			500	UG/KG			**770 U**		**750 U**	
DELTA-BHC	90	360		UG/KG						
DIELDRIN	30	110	44	UG/KG		**95 U**			**320 U**	
GAMMA-CHLORDANE	1600	6500	500	UG/KG						
HEPTACHLOR	110	380	160	UG/KG						
HEPTACHLOR EPOXIDE	53	190	77	UG/KG						
Metals (6010B/6020/7841/7470A/7471A)										
ARSENIC	0.39	1.6		MG/KG				**3.9 U**		**4.4 U**
THALLIUM	0.52	6.7		MG/KG						

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004

Crit3: U.S. EPA Region 9 PRG Industrial Soil, 2004

Crit2: New York State TAGM 4046 Soil, 1999

Blank cells: result was either not detected with a reporting limit below the s ing criteria or detected with a reporting limit below the scre criteria. See Table 4-7 for key to shading.

TABLE 4-10 SUMMARY OF NON-DETECTED CONSTITUENTS . .H REPORTING LIMITS ABOVE CRITERIA IN SUBSURFACE SOIL, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	WW	WW	WW
				Excavation:	X28	X28	X85	X29	X37	X41
				Sample Name:	C7-CWM-SO-X28-UN01-2.5	C7-CWM-SO-X28-WW01-3	C7-CWM-SO-X85-UN01-6.5	C7-CWM-SO-X29-WW01-4.5	C7-CWM-SO-X37-WW01-6.5	C7-CWM-SO-X41-WW01-6
				Sample Depth:	2.5 FT	3 FT	6.5 FT	4.5 FT	6.5 FT	6 FT
				Sample Date:	8/31/2006	8/30/2006	9/22/2006	8/30/2006	9/5/2006	9/6/2006
				Parent Name:						
Analyte	**Crit1**	**Crit3**	**Crit2**	**Unit**						
Volatile Organic Compounds (8260B)										
1,2-DIBROMO-3-CHLOROPROPANE	210	1100		UG/KG		**1200 U**				
1,2-DICHLOROETHANE	280	600	7700	UG/KG		**1200 U**				
1,2-DICHLOROPROPANE	340	740		UG/KG		**1200 U**				
CARBON TETRACHLORIDE	220	550	5400	UG/KG		**1200 U**				
ETHYLENE DIBROMIDE	32	73		UG/KG		**1200 U**				
VINYL CHLORIDE	79	750	360	UG/KG		**2500 U**				
Semi-Volatile Organic Compounds (8151/8270C/8310)										
2-METHYL-4,6-DINITROPHENOL	610	6200		UG/KG						
2-NITROPHENOL	880	2200		UG/KG						
4-NITROPHENOL	880	2200		UG/KG						
BENZO[A]PYRENE	62	210	60.9	UG/KG						
DIBENZ[A,H]ANTHRACENE	62	210	14.3	UG/KG		**440 U**	**40 U**	**38 U**		
HEXACHLOROBENZENE	300	1100	410	UG/KG		**440 U**				
N-NITROSODI-N-PROPYLAMINE	69	250		UG/KG		**440 U**				
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
ALDRIN	29	100	41	UG/KG		**44 UJ**			**880 U**	
ALPHA-BHC	90	360	111	UG/KG					**880 UJ**	
AROCLOR 1016	390	3700	1000	UG/KG	**1900 U**	**11000 U**		**9500 U**	**110000 U**	**1000 U**
AROCLOR 1221	110	740	1000	UG/KG	**1900 U**	**11000 U**		**9500 U**	**110000 U**	**1000 U**
AROCLOR 1232	110	740	1000	UG/KG					**110000 U**	**1000 U**
AROCLOR 1242	110	740	1000	UG/KG	**1900 U**	**11000 U**		**9500 U**	**110000 U**	**1000 U**
AROCLOR 1248	110	740	1000	UG/KG	**1900 U**	**11000 U**		**9500 U**	**110000 U**	**1000 U**
AROCLOR 1254	110	740	1000	UG/KG	**1900 U**	**11000 U**		**9500 U**		**1000 U**
AROCLOR 1260	110	740	1000	UG/KG	**1900 U**	**11000 U**		**9500 U**	**110000 U**	
CAMPHECHLOR	440	1600		UG/KG					**18000 U**	
CHLORDANE			500	UG/KG		**870 U**			**18000 U**	
DELTA-BHC	90	360		UG/KG					**880 UJ**	
DIELDRIN	30	110	44	UG/KG					**880 U**	
GAMMA-CHLORDANE	1600	6500	500	UG/KG					**880 U**	
HEPTACHLOR	110	380	160	UG/KG					**880 U**	
HEPTACHLOR EPOXIDE	53	190	77	UG/KG					**880 U**	
Metals (6010B/6020/7841/7470A/7471A)										
ARSENIC	0.39	1.6		MG/KG						
THALLIUM	0.52	6.7		MG/KG						

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004

Crit3: U.S. EPA Region 9 PRG Industrial Soil, 2004

Crit2: New York State TAGM 4046 Soil, 1999

Blank cells: result was either not detected with a reporting limit below the screening criteria or detected with a reporting limit below the screening criteria. See Table 4-7 for key to shading.

TABLE 4-10 SUMMARY OF NON-DETECTED CONSTITUENTS WITH REPORTING LIMITS ABOVE CRITERIA IN SUBSURFACE SOIL, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW	UN	UN	UN	UN	UN
				Excavation:	X42	X26	X01	X02	X02	X07
				Sample Name:	C7-CWM-SO-X42-WW01-6	C7-OCC-SO-X26-SN01-6	C7-SOM-SO-X01-UN01-1	C7-SOM-SO-X02-UN01-1	C7-SOM-SO-X02-UN02-4	C7-SOM-SO-X07-UN01-9
				Sample Depth:	5.5 FT	6 FT	1 FT	1 FT	4 FT	9 FT
				Sample Date:	9/6/2006	8/14/2006	7/10/2006	7/10/2006	7/10/2006	7/12/2006
				Parent Name:						
Analyte	**Crit1**	**Crit3**	**Crit2**	**Unit**						
Volatile Organic Compounds (8260B)										
1,2-DIBROMO-3-CHLOROPROPANE	210	1100		UG/KG						
1,2-DICHLOROETHANE	280	600	7700	UG/KG						
1,2-DICHLOROPROPANE	340	740		UG/KG						
CARBON TETRACHLORIDE	220	550	5400	UG/KG						
ETHYLENE DIBROMIDE	32	73		UG/KG						
VINYL CHLORIDE	79	750	360	UG/KG						
Semi-Volatile Organic Compounds (8151/8270C/8310)										
2-METHYL-4,6-DINITROPHENOL	610	6200		UG/KG		**1100 U**				
2-NITROPHENOL	880	2200		UG/KG						
4-NITROPHENOL	880	2200		UG/KG						
BENZO[A]PYRENE	62	210	60.9	UG/KG						
DIBENZ[A,H]ANTHRACENE	62	210	14.3	UG/KG		**86 U**				
HEXACHLOROBENZENE	300	1100	410	UG/KG						
N-NITROSODI-N-PROPYLAMINE	69	250		UG/KG		**86 U**				
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
ALDRIN	29	100	41	UG/KG						
ALPHA-BHC	90	360	111	UG/KG						
AROCLOR 1016	390	3700	1000	UG/KG						
AROCLOR 1221	110	740	1000	UG/KG						
AROCLOR 1232	110	740	1000	UG/KG						
AROCLOR 1242	110	740	1000	UG/KG						
AROCLOR 1248	110	740	1000	UG/KG						
AROCLOR 1254	110	740	1000	UG/KG						
AROCLOR 1260	110	740	1000	UG/KG						
CAMPHECHLOR	440	1600		UG/KG						
CHLORDANE			500	UG/KG	**760 U**					
DELTA-BHC	90	360		UG/KG						
DIELDRIN	30	110	44	UG/KG						
GAMMA-CHLORDANE	1600	6500	500	UG/KG						
HEPTACHLOR	110	380	160	UG/KG						
HEPTACHLOR EPOXIDE	53	190	77	UG/KG						
Metals (6010B/6020/7841/7470A/7471A)										
ARSENIC	0.39	1.6		MG/KG						
THALLIUM	0.52	6.7		MG/KG			**1.7 U**	**1.6 U**	**1.6 U**	**1.5 U**

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004

Crit3: U.S. EPA Region 9 PRG Industrial Soil, 2004

Crit2: New York State TAGM 4046 Soil, 1999

Blank cells: result was either not detected with a reporting limit below the s[illegible]ng criteria or detected with a reporting limit below the scre[illegible] criteria. See Table 4-7 for key to shading.

TABLE 4-11 SUMMARY OF NON-DETECTED CONSTITUENTS WITH REPORTING LIMITS ABOVE CRITERIA IN BEDDING MATERIAL WATER, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	CW	WW	WW	WW	WW
			Excavation:	X62	X37	X37	X41	X56
			Sample Name:	C7-CWM-WW-X62-WG01-5	C7-CWM-WW-X37-WG01-6	C7-CWM-WW-DUP5	C7-CWM-WW-X41-WG01-6	C7-CWM-WW-X56-WG01-7
			Sample Depth:	5 FT	6 FT	6 FT	6 FT	7 FT
			Sample Date:	9/13/2006	9/5/2006	9/5/2006	9/6/2006	9/12/2006
			Parent Name:			C7-CWM-WW-X37-WG01-6		
Analyte	**Crit1**	**Crit2**	**Unit**					
Volatile Organic Compounds (8260B)								
1,1,2,2-TETRACHLOROETHANE	0.055	0.2	UG/L	**1 U**	**1 UJ**	**1 UJ**	**1 UJ**	**1 U**
1,1,2-TRICHLOROETHANE	0.2	1	UG/L	**1 U**	**1 U**	**1 U**		**1 U**
1,1-DICHLOROETHYLENE		0.7	UG/L	**1 U**	**1 U**	**1 U**		**1 U**
1,2-DIBROMO-3-CHLOROPROPANE	0.035	0.04	UG/L	**2 UJ**				
1,2-DICHLOROETHANE	0.12	0.6	UG/L	**1 U**	**1 U**	**1 U**	**1 U**	**1 U**
1,2-DICHLOROPROPANE	0.16	1	UG/L	**1 U**	**1 U**	**1 U**	**1 U**	**1 U**
BENZENE	0.35	10	UG/L	**1 U**	**1 U**	**1 U**	**1 U**	**1 U**
BROMODICHLOROMETHANE	0.18	5	UG/L	**1 U**	**1 U**	**1 U**	**1 U**	**1 U**
CARBON TETRACHLORIDE	0.17	0.4	UG/L	**1 U**	**1 U**	**1 U**	**1 U**	**1 U**
CHLORODIBROMOMETHANE	0.13	50	UG/L	**1 U**	**1 U**	**1 U**	**1 U**	**1 U**
CIS-1,3-DICHLOROPROPENE	0.4		UG/L	**1 U**	**1 U**	**1 U**	**1 U**	**1 U**
ETHYLENE DIBROMIDE	0.0056	0.0006	UG/L	**1 U**	**1 U**	**1 U**	**1 U**	**1 U**
TETRACHLOROETHENE	0.1	1	UG/L				**1 U**	**1 U**
VINYL CHLORIDE	0.02	0.3	UG/L	**1 U**			**1 U**	**1 U**
Semi-Volatile Organic Compounds (8151/8270C/8310)								
1,2-BENZPHENANTHRACENE	9.2	0.002	UG/L	**0.23 U**	**0.22 U**	**0.22 U**	**0.21 U**	**0.2 U**
2,4,6-TRICHLOROPHENOL	0.36		UG/L	**1.2 U**			**1.1 U**	**1 U**
2,4-DICHLOROPHENOL	11	0.3	UG/L	**1.2 U**			**1.1 U**	**1 U**
2-METHYL-4,6-DINITROPHENOL	0.36		UG/L	**2.9 UJ**	**2.8 U**	**2.8 U**	**2.7 U**	**2.6 U**
2-NITROPHENOL	0.049		UG/L	**1.2 U**	**1.1 U**	**1.1 U**	**1.1 U**	**1 U**
3,3`-DICHLOROBENZIDINE	0.15	5	UG/L	**0.23 UJ**	**0.22 U**	**0.22 U**	**0.21 U**	**0.2 U**
4-NITROPHENOL	0.049		UG/L	**1.2 UJ**	**1.1 U**	**1.1 U**	**1.1 U**	**1 UJ**
BENZ[A]ANTHRACENE	0.092	0.03	UG/L	**0.23 U**	**0.22 U**	**0.22 U**	**0.21 U**	**0.2 U**
BENZO[A]PYRENE	0.0092	0.0012	UG/L	**0.23 U**	**0.22 U**	**0.22 U**	**0.21 U**	**0.2 U**
BENZO[B]FLUORANTHENE	0.092	0.002	UG/L	**0.23 U**	**0.22 U**	**0.22 U**	**0.21 U**	**0.2 U**
BENZO[K]FLUORANTHENE	0.92	0.002	UG/L	**0.23 UJ**	**0.22 U**	**0.22 U**	**0.21 U**	**0.2 UJ**
BIS(2-CHLOROETHYL) ETHER	0.01	0.03	UG/L	**0.23 U**	**0.22 U**	**0.22 U**	**0.21 U**	**0.2 U**
DIBENZ[A,H]ANTHRACENE	0.0092		UG/L	**0.23 U**	**0.22 U**	**0.22 U**	**0.21 U**	**0.2 U**
HEXACHLORO-1,3-BUTADIENE	0.86	0.01	UG/L	**0.23 U**	**0.22 U**	**0.22 U**	**0.21 U**	**0.2 U**
HEXACHLOROBENZENE	0.042	0.00003	UG/L	**0.23 U**			**0.21 U**	**0.2 U**
INDENO[1,2,3-CD]PYRENE	0.092	0.002	UG/L	**0.23 U**	**0.22 U**	**0.22 U**	**0.21 U**	**0.2 U**
N-NITROSODI-N-PROPYLAMINE	0.0096		UG/L	**0.23 U**	**0.22 U**	**0.22 U**	**0.21 U**	**0.2 U**
PENTACHLOROPHENOL	0.56		UG/L	**2.9 U**	**2.8 UJ**	**2.8 UJ**	**2.7 UJ**	**2.6 U**
PHENOL	1100	1	UG/L	**1.2 U**			**1.1 U**	**1 U**

TABLE 4-11 SUMMARY OF NON-DETECTED CONSTITUENTS WITH REPORTING LIMITS ABOVE CRITERIA IN BEDDING MATERIAL WATER, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	CW	WW	WW	WW	WW
			Excavation:	X62	X37	X37	X41	X56
			Sample Name:	C7-CWM-WW-X62-WG01-5	C7-CWM-WW-X37-WG01-6	C7-CWM-WW-DUP5	C7-CWM-WW-X41-WG01-6	C7-CWM-WW-X56-WG01-7
			Sample Depth:	5 FT	6 FT	6 FT	6 FT	7 FT
			Sample Date:	9/13/2006	9/5/2006	9/5/2006	9/6/2006	9/12/2006
			Parent Name:			C7-CWM-WW-X37-WG01-6		
Analyte	**Crit1**	**Crit2**	**Unit**					
Pesticides (8081)/Polychlorinated Biphenyls(8082)								
4,4'-DDD	0.28	0.0008	UG/L	**0.054 U**	**0.052 U**	**0.053 U**	**0.056 U**	**0.26 U**
4,4'-DDE	0.2	0.000007	UG/L	**0.054 U**	**0.052 U**	**0.053 U**	**0.056 U**	**0.26 uj**
4,4'-DDT	0.2	0.00001	UG/L	**0.054 U**	**0.052 U**	**0.053 U**	**0.056 U**	**0.26 U**
ALDRIN	0.004	5	UG/L	**0.054 U**	**0.052 U**	**0.053 U**	**0.056 U**	**0.26 U**
ALPHA-BHC	0.011	0.002	UG/L	**0.054 U**	**0.052 U**	**0.053 U**	**0.056 U**	**0.26 U**
ALPHA-CHLORDANE	0.19		UG/L					**0.26 U**
AROCLOR 1016	0.26		UG/L	**0.54 U**	**5.2 U**	**2.6 U**	**0.56 U**	**52 U**
AROCLOR 1221	0.034		UG/L	**0.54 U**	**5.2 U**	**2.6 U**	**0.56 U**	**52 U**
AROCLOR 1232	0.034		UG/L	**0.54 U**	**5.2 U**	**2.6 U**	**0.56 U**	**52 U**
AROCLOR 1242	0.034		UG/L	**0.54 U**	**5.2 U**	**2.6 U**	**0.56 U**	**52 U**
AROCLOR 1248	0.034		UG/L	**0.54 U**	**5.2 U**	**2.6 U**	**0.56 U**	**52 U**
AROCLOR 1254	0.034		UG/L	**0.54 U**			**0.56 U**	**52 U**
AROCLOR 1260	0.034		UG/L	**0.54 U**	**5.2 U**	**2.6 U**	**0.56 U**	
BETA-BHC	0.037	0.007	UG/L	**0.054 U**	**0.052 U**	**0.053 U**	**0.056 U**	**0.26 U**
CAMPHECHLOR	0.061	0.000006	UG/L	**1.1 U**	**1 U**	**1.1 U**	**1.1 U**	**5.2 U**
CHLORDANE		0.00002	UG/L	**1.1 U**	**1 U**	**1.1 U**	**1.1 U**	**5.2 U**
DELTA-BHC	0.011	0.008	UG/L	**0.054 U**	**0.052 U**	**0.053 U**	**0.056 U**	**0.26 U**
DIELDRIN	0.0042	.000000	UG/L	**0.054 U**	**0.052 U**	**0.053 U**	**0.056 U**	
ENDRIN	1.1	0.002	UG/L	**0.054 UJ**	**0.052 U**	**0.053 U**	**0.056 U**	**0.26 UJ**
GAMMA-BHC	0.052	0.008	UG/L	**0.054 U**	**0.052 U**	**0.053 U**	**0.056 U**	**0.26 U**
GAMMA-CHLORDANE	0.19		UG/L					**0.26 U**
HEPTACHLOR	0.015	0.0002	UG/L	**0.054 U**	**0.052 UJ**	**0.053 UJ**	**0.056 UJ**	**0.26 U**
HEPTACHLOR EPOXIDE	0.0074	0.0003	UG/L	**0.054 U**	**0.052 U**	**0.053 U**	**0.056 U**	**0.26 U**
METHOXYCHLOR	18	0.03	UG/L	**0.054 U**	**0.052 U**	**0.053 U**	**0.056 U**	**0.26 UJ**
Explosives (8330)								
2,4-DINITROTOLUENE	0.099	5	UG/L	**0.23 U**	**0.21 U**	**0.21 U**	**0.21 U**	**0.2 U**
2,6-DINITROTOLUENE	0.099	0.07	UG/L	**0.23 U**	**0.21 U**	**0.21 U**	**0.21 U**	**0.2 U**
2-NITROTOLUENE	0.049	5	UG/L	**0.45 U**	**0.43 U**	**0.42 U**	**0.42 U**	**0.41 U**
Metals (6010B/6020/7841/7470A/7471A)								
ARSENIC	0.045		UG/L		**1 U**	**1 U**	**1 U**	
THALLIUM	0.24	8	UG/L		**0.5 U**	**0.38 U**	**0.39 U**	

Crit1: U.S. EPA Region 9 PRG Tap Water, 2004

Crit2: New York State TOG Surface Water, 1998

Blank cells: result was either not detected with a reporting limit below the screening criteria or detected with a reporting limit below the screening criteria.

See Table 4-7 for key to shading.

TABLE 4-12 SUMMARY OF NON-DETECTED CONSTITUENTS WITH REPORTING LIMITS ABOVE CRITERIA IN SURFACE SOIL, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	WW	WW	WW	WW	WW	WW	SN
				Excavation:	OF08	OF07	OF09	OF11	OF12	OF14	OF15	OF01
				Sample Name:	C7-CWM-SS-OF08-SN01-0.5	C7-CWM-SS-OF07-WW01-0.5	C7-CWM-SS-OF09-UN01-0.5	C7-CWM-SS-OF11-WW01-0.5	C7-CWM-SS-OF12-WW02-0.5	C7-CWM-SS-DUP2	C7-CWM-SS-OF15-WW01-0.5	C7-SOM-SS-OF01-SN01-0.5
				Sample Depth:	0.5 FT	0.5 FT	0.5 FT	0.5 FT	0.5 FT	0.5 FT	0.5 FT	0.5 FT
				Sample Date:	10/18/2006	10/18/2006	10/18/2006	10/18/2006	10/18/2006	10/18/2006	10/18/2006	8/3/2006
				Parent Name:						C7-CWM-SS-OF14-WW02-0.5		
Analyte	**Crit1**	**Crit3**	**Crit2**	**Unit**								
Semi-Volatile Organic Compounds (8151/8270C/8310)												
BENZO[A]PYRENE	62	210	60.9	UG/KG							**110 U**	**84 U**
DIBENZ[A,H]ANTHRACENE	62	210	14.3	UG/KG						**95 U**	**110 U**	**84 U**
N-NITROSODI-N-PROPYLAMINE	69	250		UG/KG								**84 U**
Metals (6010B/6020/7841/7470A/7471A)												
ARSENIC	0.39	1.6		MG/KG	**4.7 U**	**4 U**	**4.3 U**	**4 U**	**8.9 U**			

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004

Crit2: New York State TAGM 4046 Soil, 1999

Crit3: U.S. EPA Region 9 PRG Industrial Soil, 2004

Blank cells: result was either not detected with a reporting limit below the screening criteria or detected with a reporting limit below the screening criteria.

See Table 4-7 for a key to the table shading.

TABLE 4-13 SUMMARY OF NON-DETECTED CONSTITUENTS WITH REPORTING LIMITS ABOVE CRITERIA IN SURFACE WATER, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN
			Excavation:	X00
			Sample Name:	C7-OCC-SW-X00-SN01-1
			Sample Depth:	1 FT
			Sample Date:	8/7/2006
			Parent Name:	
Analyte	**Crit1**	**Crit2**	**Unit**	
Explosives				
2,4-DINITROTOLUENE	0.099	5	UG/L	**0.26 U**
2,6-DINITROTOLUENE	0.099	0.07	UG/L	**0.26 U**
2-NITROTOLUENE	0.049	5	UG/L	**0.52 U**

Crit1: U.S. EPA Region 9 PRG Tap Water, 2004

Crit2: New York State TOG Surface Water, 1998

Blank cells: result was either not detected with a reporting limit below the screening criteria or detected with a reporting limit below the screening criteria

See table 4-7 for a key ot the table shading.

CHAPTER 5

5. SITE CHARACTERIZATION RESULTS

Results of the non-intrusive investigation (camera and geophysical survey) were utilized in developing the sampling plan for the intrusive portion of the UURI and are presented in detail in Appendix B. Sample naming conventions for samples discussed in this chapter are presented in Section 2.2.2.1. Additional information on line direction, flow direction and final potential fate of contaminants from physical transport is presented in Chapter 6.

5.1 CONSTRUCTION OF UNDERGROUND LINES

The lines ranged in depth from 2 ft bgs to 17 ft bgs. The shallowest lines were located in the existing Nitration House area and within AFP-68 process areas. The deepest lines encountered were the acid waste sewer and sanitary sewer lines as they approached the WWTP, as well as some of the lines traversing between structures at the WWTP.

5.2 BEDDING MATERIAL OF UNDERGROUND LINES

During excavations, the material beneath underground lines was visually inspected to determine if non-native material, such as sand or gravel, was utilized as bedding material and to assess whether this bedding material was porous and could potentially act as a preferential pathway for migration of constituents. Bedding material was not encountered beneath the majority of the lines. Table 5-1 lists each of the excavations performed, whether bedding material was encountered, and if so, the type of material.

5.2.1 Acid Waste Lines

Of the 15 lines identified as acid waste sewer lines, 2 (approximately 13%) were underlain with bedding material consisting of limestone. Both of these lines (SOM-X15, SOM-X23) were located on the Somerset Group property and were associated with the AFP-68 acid waste sewer line. The line encountered in SOM-X23 is undergoing an IRA. An AFP-68 acid waste sewer line was encountered in CWM-X27, but did not have bedding material. Other acid waste sewer lines were associated with LOOW and were not underlain with bedding material. The main trunk acid waste sewer line from AFP-68 was the only acid waste sewer line encountered that was underlain by bedding material.

5.2.2 Chemical Waste Lines

Of the 15 lines identified as chemical waste sewer lines, 9 (approximately 60%) were underlain with bedding material. The majority of the bedding material was limestone screening. However, brown sand was encountered in one excavation (CWM-X42). Each of the chemical waste sewer lines was associated with the former AFP-68, and the lines were secondary lines to the main chemical waste sewer line that is currently undergoing remedial action. Bedding material was encountered only in excavations where several other lines were encountered. In those excavations where only chemical waste sewer lines, or limited other line types, were found there was no bedding beneath the chemical waste sewer lines (e.g., excavations CWM-X59, CWM-X60, CWM-X61, and CWM-X62).

5.2.3 Wastewater and Stormwater Lines

Of the 34 lines identified as either wastewater or stormwater lines, 17 (approximately 50%) were underlain with bedding material. Each of the wastewater lines was associated with the former AFP-68, with the exception of the line on the Town of Lewiston property (LEW-X10). The material ranged from pea gravel to #1 and #2 limestone. Limestone bedding material was present under each of the eight wastewater lines encountered on Somerset Group property. On CWM property, generally, the main trunk lines of the wastewater lines did not have bedding material (e.g., excavations CWM-X18, CWM-X21, CWM-X24) but the secondary lines did have bedding material (e.g., CWM-X17, CWM-X29, CWM-X37, CWM-X41, CWM-X49). The combined wastewater and stormwater lines located in the northwest portion of AFP-68 and WM property (e.g., CWM-X03, CWM-X04, CWM-X05, and CWM-X07) were not underlain by bedding material.

5.2.4 Sanitary Sewer Lines

Of the 47 lines identified as sanitary sewer lines, 7 (approximately 15%) were underlain with bedding material. These seven lines were located on WM property. The bedding ranged from sand to limestone gravel. Bedding material consisting of sand was associated with three LOOW sanitary sewer lines, near the point at which AFP-68 tied into the lines (e.g., CWM-X39, CWM-X40, and CWM-X42). One line, encountered in excavation CWM-X01) was embedded in a drain field associated with a temporary septic tank (CWM-X1). The others appeared to be secondary lines in close proximity to buildings (CWM-X39, CWM-X40, and CWM-X48). Generally, the main trunk lines of the sanitary sewer were in native soil and not underlain by bedding material.

5.2.5 Drains, Pits, Sumps

The lines encountered during the UURI that were associated with drains, pits, and sumps were not underlain by bedding material (e.g., SOM-X10, CWM-X35, and CWM-X38)

5.2.6 Unknown Line Type

Of the 45 unidentified lines encountered during the UURI, 9 (approximately 20%) were underlain with bedding material. Five of these were on Somerset Group property. The remainder was located on WM property.

5.2.7 Water Lines

Although not specifically targeted for assessment of possible COPCs, water lines were included in the UURI for assessment of bedding material. Waterlines were found in excavations conducted at the Somerset Group property, the Town of Lewiston property, and the CWM property. No waterlines were discovered in association with the intrusive activities along the Occidental 30-inch outfall line. Of the 46 lines that were identified as water lines, 11 (approximately 24%) were underlain with bedding material. The large, 42-in. diameter water supply line that traverses from the LOOW fresh water treatment plant (located on NFSS) was not underlain by bedding material.

5.2.8 Summary

Field observations made during the UURI indicated that many lines were underlain by bedding material and some of the bedding material has the potential to act as a pathway for contaminant migration. There was no definitive trend in the location of bedding material with respect to line type; although where multiple lines were present bedding material was often observed under some or all of the lines. This material may not be continuous along the line. Generally, the main trunk lines of the sanitary sewer and wastewater lines were not underlain by bedding, but many of the secondary lines were. The main trunk of the AFP-68 acid waste sewer line originating on Somerset Group property was underlain by bedding. The remaining acid waste sewer lines did not have bedding material. The LOOW acid waste sewer lines within the existing Nitration House area and south of M Street were encased in concrete. AFP-68 chemical waste sewer lines appeared to be underlain by bedding only when they were adjacent to multiple lines.

No real trends between bedding material and water lines were discernible. Of particular interest were the LOOW water mains that traverse north from M Street on WM property into Somerset Group property, which did not have bedding material. These traverse through an area of known contamination within AFP-68 Area 2 (see excavations CWM-X34 and CWM-X66). The 42-in. supply line originating within NFSS property and traversing north to Area 22 of the former AFP-68 was also evaluated for the presence of bedding material due to concern from the public. Results indicate that the line was not underlain by bedding material.

In seventeen of the excavations, the bedding material was identified as wet, indicating there was liquid within the bedding material. In each of the four bedding material samples that were collected, reported constituents exceeded the U.S. EPA Region 9 PRGs for tap water (see Chapter 4). Three of these samples were associated with bedding material beneath wastewater lines and one was associated with bedding beneath a chemical waste sewer line.

5.3 RESULTS OF UNDERGROUND LINE SAMPLING

The following sections summarize the results from the samples collected during the UURI, with particular emphasis on those results that exceed the U.S. EPA Region 9 PRG criteria, as these criteria will be used to identify the COPCs for the risk assessment, which is discussed under separate cover. Each line type is discussed individually, and within the each line type section, sample results are discussed in subsections specific to the property from which they were collected. The final subsection for each line type includes a summary of the results for the entire line, regardless of property owner, and discusses constituent concentration trends within the line while considering potential migration paths and impedances to migration (e.g., points at which lines were sealed).

Figures 5-1 through 5-9 present the excavation locations and designations. A different aerial extent of the project site is included in each figure. For example:

- Figure 5-1 illustrates the excavations placed along the 30-in. outfall line originating at the LOOW WWTP and traversing west to the SWDD.
- Figure 5-2 illustrates the excavations placed at the LOOW WWTP on Town of Lewiston property.
- Figure 5-3 illustrates the excavations targeting LOOW underground lines south of M Street on WM property.
- Figure 5-4 illustrates the excavations targeting LOOW and AFP-68 lines north of M Street in the vicinity of the LOOW Nitration House area on WM property.
- Figure 5-5 illustrates the excavations targeting underground lines associated with the southern process areas of the AFP-68 on WM property.
- Figure 5-6 illustrates the excavations targeting underground lines associated with AFP-68 Process Areas 29, 25, and 39 in the northwestern portion of WM property.
- Figure 5-7 illustrates the excavations targeting underground lines associated with the northern process areas of AFP-68 on Somerset Group property.

- Figure 5-8 illustrates the excavations targeting unknown line types mirroring a ground scar on a historical aerial photo in the central portion of the former NIKE Base on WM property.
- Figure 5-9 illustrates the excavations targeting underground lines in the Control Portion of the former NIKE Base on WM property.

These figures are located at the end of Chapter 5.

Also associated with each discussion are a set of tables and figures which summarize the reported results and indicate concentrations exceeding the U.S. EPA Region 9 PRG and matrix-appropriate NYSDEC screening values (e.g., TAGM 4046 screening values for solid matrices [in the absence of a PRG] or TOG screening values for liquid matrices, see Chapter 4) where appropriate. The tables represent constituents reported within each matrix for samples collected on a particular property, and are organized by line type as identified by the line type abbreviation (e.g., "AW", "SN", etc.) that appears in the first row of each table. The tables are also located at the back of Chapter 5. A summary of the tables is as follows:

- Table 5-2 – a summary of the abbreviations and designations used on the data tables.
- Tables 5-3 through 5-6 – reported results for sludge samples collected from the 30-in. outfall, Town of Lewiston property, WM property and Somerset Group property, respectively.
- Tables 5-7 through 5-10 – reported results of wastewater samples collected from the 30- in. outfall, Town of Lewiston property, WM property and Somerset Group property, respectively.
- Tables 5-11 through 5-14 – reported results of subsurface soil samples collected from the 30- in. outfall, Town of Lewiston property, WM property and Somerset Group property, respectively.
- Tables 5-15 – reported results of bedding material water collected from WM property.
- Tables 5-16 and 5-17 – reported results of surface soil samples collected from beneath outfalls on WM property and Somerset Group property, respectively.
- Tables 5-18 and 5-19 – reported results for the co-located surface water and sediment sample collected from the SWDD.
- Tables 5-20 through 5-29 – summary of the results of the statistical evaluation of soil concentrations for inorganic constituents against background. Each table presents the evaluation for an individual line type.

- Tables 5-30 through 5-33 – summary of the subsurface soil results that exceed SSLs for each property.

Additional figures (5-10 through 5-25) illustrate the reported constituents for all matrices (sludge, wastewater, subsurface soil, surface soil, sediment, and surface water), in specific areas of the project site, for specific line types. For example:

- Figure 5-10 – a single figure to illustrate results of sludge, wastewater, soil, surface water and sediment sampling results along the 30-in. outfall line.
- Figures 5-11 and 5-12 – one figure illustrating sampling results associated with sanitary sewer and wastewater lines, and a second figure illustrating sampling results from acid waste sewer lines and drains, pits, and sumps at the LOOW WWTP on the Town of Lewiston property
- Figure 5-13 – a single figure illustrating the sampling results associated with the LOOW lines (a sanitary sewer and acid waste sewer line) South of M Street on WM property.
- Figures 5-14 through 5-18 – a series of figures illustrating sampling results associated with the various line types encountered in the LOOW Nitration Houses area and the southern process areas of AFP-68 on WM property.
- Figures 5-19 through 5-23 – a series of figures illustrating sampling results associated with the various line types encountered n the northern process areas of AFP-68 in the northwest portion of WM and on Somerset Group properties.
- Figures 5-24 and 5-25 – two figures illustrating sampling results for the central and control areas of the former NIKE Base on WM property, respectively.

Due to the amount of data included on these figures, the figures have been produced as large-sized figures and are included in Volume 2 to this report.

5.3.1 Acid Waste Lines

A total of 36 samples were collected from within or below acid waste sewer lines for laboratory analyses as described in Section 2.2.3 of this UURI. The samples collected are located on the Somerset Group property, the Waste Management property, and the Town of Lewiston property, and are summarized below. Information on the direction of flow is included in each of the subsections below. Additional information on line direction, flow direction and final potential fate of contaminants from physical transport is presented in Chapter 6.

5.3.1.1 Acid Waste Line Results - Somerset Group Property

A total of three samples were collected from within (wastewater) or below (subsurface soil) acid waste sewer lines located on the Somerset Group property. The acid waste sewer lines were observed to be approximately 5 to 6 ft bgs on the Somerset Group property. Secondary lines generally traverse from east to west, to the confluence with a south trending main. Figure 5-7 presents an overview of the excavation location, and Figure 5-19 illustrates the sample locations, sample matrices collected from each location, and summary of results exceeding screening values for samples collected from the acid waste sewer lines on the Somerset Group property. The following summarizes the number of samples collected for each matrix:

- One wastewater sample collected from excavation SOM-X15 located in AFP-68 Process Area 6.
- Two subsurface soil samples collected from excavations SOM-X15 located in AFP-68 Process Area 6, and SOM-X23 located in Process Area 3.

The acid waste sewer line flows west and south from Process Area 6 (up gradient) towards the CWM property (down gradient). Excavation SOM-X15 was located at the up gradient end of the AFP-68 acid waste sewer line where it exits Process Area 6. This portion of the acid waste sewer line was not included in the ongoing IRA of the main trunk lines of the AFP-68 acid and chemical waste sewer lines. Excavation SOM-23 encountered a portion of the acid waste sewer line that is included in the IRA. As part of the IRA, the line was cleaned and sealed. Therefore, interior samples were not collected during the UURI. However, a subsurface soil sample was collected from this location to evaluate possible impacts from the line.

Results of VOC Analysis

Acetone was reported above the TOG criterion in the one wastewater sample C7-SOM-WW-X15-UN01-6.5. This sample was collected from within a 4-in. terracotta pipe, on the southern area of the excavation. The concentrations of remaining VOC constituents reported in the wastewater sample did not exceed the respective PRG and/or TOG criteria. Note that the line type code in the sample designation is incorrect. The line type was misinterpreted at the time of sampling and was later determined based on historical documentation. However, the original sample name is used in this report in order to maintain the integrity of the legal chain-of-custody. The correct line type code is presented in the header of the analytical summary table.

No VOCs were reported above their respective PRG criteria in the two subsurface soil samples collected from beneath the acid waste sewer lines on the Somerset Group property.

Results of SVOCs and PAHs

Hexachloro-1,3-butadiene was the only SVOCs reported at a concentration exceeding the PRG and TOG criteria in the wastewater sample C7-SOM-WW-X15-UN01-6.5. The remaining SVOC constituents reported in the wastewater sample were not reported above their respective PRG and/or TOG.

No SVOCs or PAHs were reported above their respective PRG criteria in the two subsurface soil samples collected from beneath the acid waste sewer lines on the Somerset Group property. However, hexachloro-1,3-butadiene was also reported in the subsurface soil sample from beneath the line at SOM-X15.

Results of Pesticides

No pesticides were reported above their respective PRG, or TOG in the one wastewater sample and two subsurface soil samples collected from within and beneath the acid waste sewer lines on the Somerset Group property.

Results of PCBs

No s were reported above their respective PRG or TOG in the one wastewater sample and two subsurface soil samples collected from within and beneath the acid waste sewer lines on the Somerset Group property.

Results of Explosives

No explosives were reported above their respective PRG or TOG criteria in the one wastewater sample and two subsurface soil samples collected from within and beneath the acid waste sewer lines on the Somerset Group property.

Results of Metals

Metals were reported in the one wastewater sample at concentrations exceeding their PRG and/or TOG. This sample is:

- Sample C7-SOM-WW-X15-UN01-6.5 →aluminum, arsenic, chromium, cobalt, iron, lead, lithium, magnesium, manganese, silver, and vanadium concentrations were reported above their PRG and/or TOG.

Metals that were reported in concentrations exceeding their PRG in the two subsurface soil samples collected from beneath the acid waste sewer lines are listed below. Metals reported in subsurface soil associated with acid waste sewer lines that were statistically greater in concentration than background concentrations are signified by bold text (Table 5-20). These metals may represent a potential concern for subsurface soil beneath acid waste sewer lines.

- Sample C7-SOM-SO-X15-UN01-6.5 →**aluminum**, arsenic, iron, **manganese**, and **vanadium** concentrations were reported above their PRG. This sample was collected from the same location as the wastewater sample discussed above.
- Sample C7-SOM-SO-X23-AW01-8→**aluminum**, arsenic, **chromium**, iron, **manganese**, and **vanadium** concentrations were reported above their PRG. This sample was collected from beneath an 8-in. diameter terracotta pipe, trending north-south.

Additional metals were reported in the subsurface soil samples in concentrations that did not exceed the PRG. The highest concentrations of metals exceeding both the PRG and background were reported in the subsurface soil sample collected from SOM-X23.

5.3.1.2 Acid Waste Sewer Line Results - Waste Management Property

A total of 26 samples were collected from within or below acid waste sewer lines located on the WM property. Figures 5-3 through 5-6 present a general overview of the excavation locations in the vicinity of acid waste sewer lines on WM property. Figures 5-13 and 5-14 illustrate the sample locations, sample matrices collected from each location, and summary of results exceeding comparison criteria for samples collected from the acid waste sewer lines on the WM property.

The acid waste sewer lines were observed to be approximately 5 to 17 ft bgs on the WM property and are associated with the former AFP-68 and the former LOOW. Excavation CWM-X27 encountered a secondary acid waste sewer line associated with the AFP-68 acid waste sewer. Other excavations (CWM-X41, CWM-X92, CWM-91, CWM-90, CWM-89, CWM-88, CWM-94 through CWM-96), were associated with the LOOW acid waste sewer line. Excavation CWM-X41 was the most up gradient excavation on WM property associated with the LOOW acid waste sewer lines and was in the vicinity of the sixth production line of the TNT plant. From this point, assuming no impedance to flow, material would have traveled east to the confluence with a south trending main that accepted acid waste from the fifth production line (the area of the existing nitration houses) and terminated in a manhole formerly located just south of M Street. This manhole accepted flow from the main westward traversing acid waste sewer lines that originated in the area of the fifth production line of the TNT plant, near the existing nitration houses, as well as from production lines one through four of the former TNT plant. From this manhole (near CWM-X93), the acid waste sewer line traversed southwest (excavations CWM-X92 and CWM-X91) to a manhole just west of Campbell Street. From there, the acid line traverses west (excavations CWM-X89 through X87 and LEW-X09) to the WWTP. A southwest branch (excavations CMW-X96 through X94) from the acid concentration area on NFSS property joins the main line at this manhole west of Campbell. Note that the acid waste sewer line in the vicinity and up gradient of M Street has been sealed and/or removed in several locations (see Figure 1-6). Furthermore, the line entering WM property from the NFSS property was sealed during the UURI.

The following summarizes the number of samples collected in each excavation for each matrix.

- One sludge sample was collected from within the acid waste sewer line encountered in each of the following four excavations: CWM-X41 located in AFP-68 Process Area 20, and CWM-X87, CWM-X94, and CWM-X96, which are located south of M Street.
- One wastewater sample was collected from each of the acid waste sewer lines encountered in these 11 excavations: CWM-X27 located in AFP-68 Process Area 22, CWM-X41 located in Process Area 20, and CWM-X87 through CWM-X92 and CWM-X94 through CWM-X96, which are located south of M Street.
- One subsurface soil sample was collected from each of the acid waste sewer lines encountered in these 11 excavations: CWM-X27 located in AFP-68 Process Area 22,

CWM-X41 located in Process Area 20, and CWM-X87 through CWM-X92, CWM-X94 through CWM-X96, which are located south of M Street.

Results of VOC Analysis

No VOCs were reported above their respective PRG criteria in the four sludge samples and 11 subsurface soil samples.

Constituents reported in 8 of the 11 wastewater samples exceeded their respective PRG criteria for VOCs. These eight samples are as follows:

Sample C7-CWM-WW-X27-CW01-6 → benzene and vinyl chloride concentrations were reported above their PRG criteria. This sample was collected from the interior of a 4-in. diameter steel pipe, trending northeast by southwest, exiting south from Building 22-01. The line was associated with the AFP-68 acid waste sewer system. Note that the line type code in the sample designation is incorrect. The line type was misinterpreted at the time of sampling and was later determined based on historical documentation. However, the original sample name is used in this report in order to maintain the integrity of the legal chain-of-custody. The correct line type code is presented in the header of the analytical summary table.

The following samples were collected from acid waste sewer lines associated with the former LOOW.

- Sample C7-CWM-WW-X41-AW01-3.5 → TCE concentration was reported above the PRG criteria. This sample was collected from the interior of an 18-in. diameter terracotta pipe, trending east-west, encased in a concrete foundation and is the most up gradient sample location associated with the LOOW acid waste sewer line. Additional VOCs were reported in concentrations that exceeded the TOG. Each of the VOCs reported in this wastewater sample were also reported in the sludge sample collected from this location.
- Sample C7-CWM-WW-X88-AW01-16 → PCE concentration was reported above the PRG criteria. This, as well as the next three samples, was collected from the interior of the 36-in. diameter acid waste sewer line, trending west to eventual termination at the WWTP. Location CWM-X88 represents the most down gradient sampling

location of the LOOW acid waste sewer line on WM property. The line is encased in a concrete foundation.

- Sample C7-CWM-WW-X89-AW01-16 → PCE concentration was reported above the PRG criteria.
- Sample C7-CWM-WW-X90-AW01-17 → PCE concentration was reported above the PRG criteria.
- Sample C7-CWM-WW-X92-AW01-12 → 13 VOCs was reported at concentrations above their PRG criteria. This sample was collected from the interior of the acid waste sewer line trending southwest from the LOOW nitration area north of M Street. It is also encased in a concrete foundation. Generally, the wastewater sample collected from this location had the highest concentration of VOCs.
- Sample C7-CWM-WW-X95-AW01-10 → PCE concentration was reported above the PRG criteria. This sample was collected from the acid waste sewer manhole (UAL-1) that was positioned to the northwest of the excavation. This excavation (CMW-X95) as well as CWM-X96 (discussed below) is located on the northwest trending branch of the acid waste sewer line originating within the LOOW acid concentration area within NFSS property.
- Sample C7-CWM-WW-X96-AW01-9 → PCE concentration was reported above the PRG criteria. This sample was collected from acid waste sewer manhole (UAL-2) that was positioned to the southeast of the excavation.

The remaining constituent concentrations reported in wastewater samples did not exceed their respective PRG criteria. However, some reported VOC concentrations exceeded the TOG as illustrated in Figures 5-13 and 5-14.

Although VOCs exceeded their respective PRG criteria in wastewater samples collected from the acid waste sewer lines, these constituents were not reported in the subsurface soil samples (where collected) from beneath the same acid waste sewer line.

Results of SVOCs and PAHs

The laboratory analysis reported that SVOCs and PAHs exceeded the PRG in one of the four sludge samples:

- Sample C7-CWM-SL-X41-AW01-4 → 1,2,4-trichlorobenzene and hexachlorobenzene concentrations were reported above their PRG criteria. These constituents were also reported in the wastewater sample collected from this location.

The constituent concentrations reported in the remaining sludge samples did not exceed their PRG criteria.

The reported SVOC and PAH concentrations exceed their respective PRG in 6 of the 11 wastewater samples. These samples are as follows:

- Sample C7-CWM-WW-X27-CW01-6 → 13 SVOCs and PAHs were reported at concentrations above their PRG criteria. Generally, the highest concentration of SVOCs and PAHs reported in wastewater samples collected from acid waste sewer lines was reported in this sample, with the exception of the di- and tri-chlorobenzene isomers, and 2,4-dichlorophenol. Note that the line type code in the sample designation is incorrect. The line type was misinterpreted at the time of sampling and was later determined based on historical documentation. However, the original sample name is used in order to maintain the integrity of the legal chain-of-custody. The correct line type is presented in the header of the analytical summary table.

- Sample C7-CWM-WW-X41-AW01-3.5 → reported concentrations of 1,2,4-trichlorobenzene, 1,4-dichlorobenzene, and hexachlorobenzene exceeded their PRG criteria. These constituents were reported in the sludge sample collected from this location.
- Sample C7-CWM-WW-X87-AW01-15 → bis(2-ethylhexyl)phthalate concentration was reported above the PRG criteria.
- Sample C7-CWM-WW-X92-AW01-12 → 1,2,4-trichlorobenzene, 1,2-dichlorobenzene, 1,4-dichlorobenzene, and naphthalene concentrations were reported above their PRG criteria. The highest concentrations of dichlorobenzene isomers were reported in this wastewater sample. Concentrations of these constituents were not reported in subsurface soil samples collected from this location.
- Sample C7-CWM-WW-X94-AW01-10 → bis(2-ethylhexyl)phthalate concentration was reported above the PRG criteria.

The constituents reported in the remaining wastewater samples were not reported at concentrations above their PRG. However, some reported SVOC concentrations (primarily PAHs) exceeded the TOG screening values.

No reported SVOCs or PAHs in the subsurface soil samples exceeded their respective PRG.

PAHs were reported in both the sludge sample and subsurface soil sample collected from the acid waste sewer line in CWM-X96. However, the concentrations were generally the same or higher in the subsurface soil than in the sludge. Some SVOCs (including PAHs) reported in the wastewater sample collected from CWM-X27 were also reported in the subsurface soil sample collected from that location.

Results of Pesticides

The laboratory analysis indicated that a reported pesticide in one of the four sludge samples exceeded its respective PRG. This sample is:

- Sample C7-CWM-SL-X41-AW01-4 → 4,4'-DDE concentration was reported above the PRG criterion.

Constituents reported in the remaining sludge samples did not exceed their respective PRGs.

Reported constituents in 1 of the 11 wastewater samples exceeded their respective PRG and/or TOG for pesticides. However, it is important to note that one of the duplicate samples collected also had an exceedance above the PRG and/or TOG for pesticide compounds. The parent sample did not have an exceedance above the laboratory detection limit for any pesticide compound. These samples are as follows:

- Sample C7-CWM-WW-DUP4 (parent sample name C7-CWM-WW-X27-CW01-6) → 4,4'-DDE and heptachlor epoxide were reported at concentrations above the PRG and/or TOG criteria. The parent sample concentration for 4,4'-DDE was reported to be non-detect at a RL of 0.045 µg/L, and the duplicate sample result was reported to be detect at 0.044 µg/L. Heptachlor epoxide was detected in the duplicate sample at a concentration of 0.068 µg/L and was non-detect at a RL of 0.056 µg/L in the parent sample. Although the compounds were detected in one sample but not the associated duplicate or parent, the reported concentrations and RLs are the same order of magnitude and do not represent a significant difference. However, it should be noted that the 0.056 µg/L laboratory detection limit for both compounds exceeds the respective TOG screening criteria.
- Sample C7-CWM-WW-X41-AW01-3.5 → Beta-BHC and Delta-BHC concentrations were reported above their PRG criteria. This sample was collected from the same location as the sludge sample.

The constituents reported in the remaining wastewater samples did not exceed their PRG and/or TOG for pesticides.

No pesticides were reported above their respective PRG in the 11 subsurface soil samples collected from beneath the acid waste sewer line on WM property. However, concentrations of pesticides reported in the sludge sample collected from CWM-X96 were also reported in the subsurface soil sample collected from the same location.

Results of PCBs

No PCBs were reported above their respective PRG in the four sludge samples collected from within the acid waste sewer line on WM property. However, the concentration of Aroclor 1260 reported in the sludge sample collected from CWM-X41 was rejected during data validation due to variations in the concentrations reported between differing columns. Therefore, PCBs may be present in the sludge at this location. In addition, the detection limits for the other PCB Aroclors in this sample were very high due to dilutions and interference. It is possible that additional Aroclors may be present in this sample.

In addition, Aroclor 1260 was reported at concentrations exceeding the PRG in the wastewater sample C7-CWM-WW-X41-AW01-3.5 and the subsurface soil sample C7-CWM-SO-X41-AW01-4.5. These samples were collected from within the acid waste sewer line and beneath the concrete encasement surrounding an 18-in. diameter terracotta acid waste sewer line, respectively.

The constituents reported in the remaining wastewater samples or the subsurface soil samples did not exceed their PRG and/or TOG for PCBs.

PCB Aroclor 1260 was reported in the wastewater sample and the subsurface soil sample at excavation location X41, suggesting that a release of Aroclor 1260 from the acid waste sewer line into the subsurface soil may have occurred in this area. However, the subsurface soil sample collected from beneath the acid waste sewer line had a higher reported concentration (5,600 μg/kg) of Aroclor 1260 than the wastewater sample (980 μg/L). This may indicate that PCBs in the wastewater is seeping from the line and sorbing to soil or that the sludge may be the source of PCBs.

Results of Explosives

No explosives were reported above their respective PRG criteria in the four sludge samples and the 11 subsurface soil samples.

The reported concentration of an explosive compound in 1 of the 11 wastewater samples exceeded its respective PRG. This sample is:

- Sample C7-CWM-WW-X92-AW01-12 → 4-nitrotoluene concentration was reported above the PRG criteria.

Concentrations of other explosives were reported in sludge, wastewater, and subsurface soil in concentrations that did not exceed the PRG (and/or TOG for wastewater samples).

Nitrobenzene (a potential degradation product of nitroaromatic explosive compounds) was reported in many subsurface soil samples collected from beneath the acid waste sewer lines (as well as other line types). Because reported concentrations of nitrobenzene were so ubiquitous during the UURI, the reported concentrations beneath the acid waste sewer lines may not be indicative of impact from explosive compounds. For example, nitrobenzene is a common ingredient of household products such as dyes, polishes, and synthetic rubber.

Results of Metals and Cyanide

No cyanide concentrations were reported above their PRG or TOG criteria in the four sludge samples, 11 wastewater samples, and 11 subsurface soil samples.

Metals were reported in each of the four sludge samples at concentrations exceeding their PRG. These samples are:

- Sample C7-CWM-SL-X41-AW01-4 →aluminum, arsenic, and iron concentrations were reported above their PRG.
- Sample C7-CWM-SL-X87-AW01-15→aluminum, arsenic, and iron concentrations were reported above their PRG.
- Sample C7-CWM-SL-X94-AW01-10→aluminum and iron concentrations were reported above their PRG.
- Sample C7-CWM-SL-X96-AW01-9→aluminum, arsenic, iron, lead, and manganese concentrations were reported above their PRG.

The reported metals in the remaining sludge samples did not exceed the PRG.

Twelve metals were reported in 10 of the 11 wastewater samples at concentrations exceeding their PRG and/or TOG. These metals are aluminum, arsenic, barium, boron, cadmium, chromium, copper, iron, lead, lithium, manganese, and vanadium. The reported metals in the sample C7-WW-X95-AW01-10 did not exceed the PRG; however, aluminum and iron exceed the TOG as illustrated in Figures 5-13 and 5-14.

Five metals were reported in concentrations exceeding their PRG in 10 of the 11 subsurface soil samples collected from beneath the acid waste sewer lines. These metals are aluminum, arsenic, chromium, iron, and lead. Metals reported in subsurface soil associated with acid waste sewer lines that were statistically greater in concentration than background concentrations are signified by bold text (Table 5-20). These metals may represent a potential concern for subsurface soil beneath acid waste sewer lines.

- **Aluminum** → Excavation CWM-X27, CWM-X41, CWM-X88, CWM-X90, CWM-X91, and CWM-X94 through CWM-X96
- Arsenic → Excavation CWM-X27, CWM-X41, CWM-X87, CWM-X88, CWM-X89 (DUP16), CWM-X92, CWM-X95, and CWM-X96
- **Chromium** → Excavation CWM-X91 and CWM-X96
- Iron → Excavation CWM-X27, CWM-X41, CWM-X87 through CWM-X92, and CWM-X94 through CWM-X96
- Lead → Excavation CWM-X96

Arsenic was reported at an estimated concentration in the duplicate sample (DUP16); however, arsenic was not reported at a concentration above the laboratory detection limit in the parent sample C7-CWM-SO-X89-AW01-17. Additional metals were reported, but did not exceed their respective PRG.

5.3.1.3 Acid Waste Line Results - The Town of Lewiston Property

A total of seven samples were collected from within or below the acid waste sewer lines located on the Town of Lewiston property. Figure 5-2 presents the general location of the excavations on the Town of Lewiston property. Figure 5-12 illustrates the sample locations, sample matrices collected from each location, and summary of results exceeding comparison criteria for samples collected from the acid waste sewer lines on the Town of Lewiston property.

The LOOW WWTP on the Town of Lewiston property represents the final point of disposition of acid waste from the LOOW production and acid concentration areas. The waste entered the WWTP from a main line traversing west from property currently owned by

WM (near CWM-X87) onto property currently owned by the Town (LEW-X09) and into a manhole located north of the Acid Neutralization Building's most down gradient point. Overflow from this manhole entered the Western Drainage Ditch (LEW-X10-discussed under the section presenting results for wastewater lines). Treated acid waste exited the Acid Neutralization Building (LEW-X07) to a Collection Tank, then proceeded on to (LEW-X11) the Final Mixing Tank before discharge through the 30-in. outfall line. The acid waste sewer lines were observed to be approximately 4 ft bgs on the Town of Lewiston property.

The following summarizes the number of samples collected at each excavation location associated with the acid waste sewer lines for each matrix.

- Sludge and wastewater samples were collected from each of the two excavations: LEW-X07 and LEW-X11.
- A subsurface soil sample was collected from beneath the acid waste sewer lines at each of these three excavations: LEW-X06, LEW-X07, and LEW-X09.

Results of VOC Analysis

No VOCs were reported above their respective PRG or TOG criteria in the two sludge samples, two wastewater samples, and the three subsurface soil samples collected from within or beneath the acid waste sewer lines on the Town of Lewiston property.

No VOCs were reported in subsurface soil collected from beneath the acid waste sewer lines, suggesting that there has been no impact from VOCs reported in the contents of the line.

Results of SVOCs and PAHs

The laboratory analysis reported that SVOCs (including PAHs) exceeded their respective PRG in one of the two sludge samples.

- Sample C7-LEW-SL-X11-AW01-4.5 → 13 PAHs as well as 4-chloroaniline and carbazole were reported at concentrations above their PRG criteria. This sample was collected from inside a 24-in. diameter wooden line, trending east-west, encased in concrete. These are the highest concentration of PAHs reported in sludge associated with the acid waste sewer lines on the project site, and some of the highest concentrations reported in any sludge sample collected from the project site, regardless of line type (the notable exception is the sludge sample collected from the wastewater line encountered in CWM-X07 east of Building 35-01 of the former AFP-68).

The reported constituents in the remaining sludge samples did not exceed their PRG criteria.

The laboratory analysis SVOCs and PAHs exceeded their respective PRG criteria in 1 of the 11 wastewater samples for SVOCs and PAHs.

- Sample C7-LEW-WW-X09-AW01-18 → dibenz[a,h]anthracene was reported at a concentration above the PRG. This sample was collected from the 36-in. diameter acid waste sewer line entering the Town of Lewiston property from the west.

The constituents reported in the remaining wastewater samples were not reported at concentrations above their PRG. However, some SVOCs (primarily PAHs) were reported at concentrations exceeding the TOG in samples C7-LEW-WW-X09-AW01-18 and C7-LEW-WW-X11-AW01-4.

No SVOCs or PAHs were reported above their respective PRG criteria in the three subsurface soil samples collected from beneath the acid waste sewer lines on Town of Lewiston property.

Low concentrations of PAHs and a phthalate were reported in subsurface soil samples collected from beneath the line in two locations where the line contents (sludge and wastewater) results reported the same constituents.

Results of Pesticides

The laboratory analysis indicated that a reported pesticide concentration in one of the two sludge samples exceeded the respective PRG. This sample is:

- Sample C7-LEW-SL-X07-AW01-4 → Dieldrin concentration was reported above the PRG criterion. This sample was collected from within a 24-in. diameter wood line, trending northeast-southwest, encased in concrete.

Pesticides were not reported in the sludge samples collected from LEW-X11. They were reported in the sludge sample collected from the main acid line entering the Town of Lewiston from the west (excavation CWM-X87 on WM property), but the reported concentrations did not exceed their respective PRGs. No pesticides were reported in the two wastewater samples collected from within the acid waste sewer line on the Town of Lewiston property.

No pesticides were reported in the three subsurface soil samples collected from beneath the acid waste sewer line on the Town of Lewiston property.

Results of PCBs

Two PCB Aroclors, Aroclor 1254 and 1260, were reported at concentrations exceeding the PRG from one sludge sample C7-LEW-SL-X07-AW01-4. PCBs were not reported in the sludge sample collected from LEW-X11.

No PCBs were reported above their respective PRG or TOG in the two wastewater samples collected from within the acid waste sewer lines on the Town of Lewiston property.

No PCBs were reported above their respective PRG in the three subsurface soil samples collected from beneath the acid waste sewer lines on the Town of Lewiston property.

Results of Explosives

No explosives were reported above their respective PRG or TOG criteria in the two sludge samples, two wastewater samples, or the three subsurface soil samples collected from within and beneath the acid waste sewer lines on the Town of Lewiston property.

Results of Metals

Metals were reported in each of the two sludge samples at concentrations exceeding their PRG. These samples are:

- Sample C7-LEW-SL-X07-AW01-4 →antimony, arsenic, barium, cadmium, chromium, copper, iron, manganese, and vanadium concentrations were reported above their PRG.
- Sample C7-LEW-SL-X11-AW01-4.5→aluminum, arsenic, barium, cadmium, chromium, copper, iron, manganese, mercury, and vanadium concentrations were reported above their PRG.

The reported metals in the remaining sludge samples did not exceed the PRG. Metals were reported in both wastewater samples at concentrations exceeding their PRG and/or TOG. These samples are:

- Sample C7-LEW-WW-X09-AW01-18 →aluminum, arsenic, chromium, cobalt, iron, lead, magnesium, manganese, molybdenum, silver, and vanadium concentrations were reported above their PRG and/or TOG. This sample was collected from within the main 36-in. diameter acid waste sewer line entering the property from the west. The line is encased in concrete.
- Sample C7-LEW-WW-X11-AW01-4→aluminum, arsenic, barium, cadmium, chromium, cobalt, copper, iron, lead, manganese, silver, and vanadium concentrations were reported above their PRG and/or TOG. This sample was collected from the same location as the sludge sample discussed above.

The reported metals in the remaining wastewater samples did not exceed the PRG and/or TOG.

Metals were reported in concentrations exceeding their PRG in the three subsurface soil samples collected from beneath the acid waste sewer lines, as listed below. Metals reported in subsurface soil associated with acid waste sewer lines that were statistically greater in concentration than background concentrations are signified by bold text (Table 5-20). These metals may represent a potential concern for subsurface soil beneath acid waste sewer lines.

- Sample C7-LEW-SO-X06-AW01-5.5 →**aluminum**, arsenic, iron, **manganese**, and **vanadium** concentrations were reported above their PRG. This sample was collected from beneath the concrete encasement surrounding a 24-in. diameter wood line, trending east-west, acid waste sewer line.
- Sample C7-LEW-SO-X07-AW01-4→**aluminum**, arsenic, iron, **manganese**, and **vanadium** concentrations were reported above their PRG. This sample was collected from the same location as the sludge sample discussed above.
- Sample C7-LEW-SO-X09-AW01-19→**aluminum**, arsenic, **chromium**, iron, **manganese**, and **vanadium** concentrations were reported above their PRG. This sample was collected from the same location as the wastewater sample discussed above.

The reported metals in the remaining subsurface soil samples did not exceed the PRG.

5.3.1.4 Acid Waste Sewer Line Summary of Results

The majority of the exceedances of the PRG associated with the acid waste sewer lines were reported in samples collected from the WM property. The samples collected from the Somerset Group property had the least amount of exceedances.

The following illustrates the constituents that exceeded the PRG in each matrix from each property.

SUMMARY OF ACID WASTE SEWER LINE PRG EXCEEDANCES

	Somerset Group property			WM property			Town of Lewiston property		
	SL	WW	SO	SL	WW	SO	SL	WW	SO
VOCs					✓				
SVOCs and PAHs		✓		✓	✓		✓	✓	
Pesticides				✓	✓		✓		
PCBs				*	✓	✓	✓		
Explosives					✓				
Metals		✓	✓	✓	✓	✓	✓	✓	✓

* In samples with high Aroclor RLs, those Aroclors are potentially present at concentrations below the RL but could not be quantified due to interference from other Aroclors that were present but rejected during data validation. In addition, Aroclors appear to be present in sludge at CWM-X41, but concentrations were rejected due to differing dual column results.

Acid waste lines from AFP-68 as well as the LOOW TNT plant were targeted for sample collection.

Sludge was not available or accessible for collection in excavations targeting AFP-68 acid waste sewer lines (SOM-X15, SOM-X23, and CWM-X27). Wastewater samples from acid waste sewer lines associated with AFP-68 were collected from SOM-X15 and CWM-X27. Location SOM-X15 represents the most up gradient sampling location associated with the AFP-68 acid waste sewer lines. Hexachloro-1,3-butadiene exceeded the PRG in wastewater sample from this location. This constituent was also reported in the subsurface soil sample collected from the same location, although in greater concentration than the wastewater sample, suggesting that some subsurface soil from the exterior of the pipe may have impacted the wastewater sample.

Different constituents were reported in the samples collected from CWM-X27. At this location, benzene, vinyl chloride, and several SVOCs (including PAHs) exceeded the PRG in the wastewater sample. Several of the PAHs were also reported in the subsurface soil sample as well, indicating a possible impact to the subsurface from the line contents. Metals also exceeded the PRG in the wastewater subsurface soil samples collected from the AFP-68 acid waste sewer lines. Of the reported constituents in subsurface soil exceeding the PRG, aluminum, chromium, and manganese also exceeded background.

VOCs were reported in several of the wastewater samples collected from the acid waste sewer lines associated with the former LOOW TNT plant. The most up gradient sampling location was CWM-X41. The acid waste sewer line at that location was associated with the sixth production line of the TNT plant. From the excavation location, the acid line traverse east then south to a manhole formerly located just south of M Street. The line was joined by the acid waste sewer main originating from production lines one through four (outside of the project boundary), as well as the secondary line originating from within the existing nitration houses (the fifth production line). From this manhole, the acid waste sewer line traversed southwest (CWM-X92, X91) to a manhole west of Campbell where it was joined by the branch originating within the LOOW acid concentration area on NFSS property (CWM-X96, X95, X94). From this manhole that acid waste sewer line trends west (CWM-X90, X89, X88, X87, LEW-X09) to the manhole north of the Acid Neutralization Building at the WWTP on the Town of Lewiston property. The reported concentrations of PCE exceeded the PRG in each of the five wastewater samples collected from the section originating from the NFSS property and continuing westward to the WWTP. However, the highest concentration of PCE was reported in the wastewater sample collected in the excavation south of, but closest to, M Street (CWM-X92) on the branch originating from the Nitration House area. Generally, the highest reported concentration of constituents in wastewater from the acid waste sewer lines was from this location (CWM-X92). This suggests that an area up gradient of this location may be a potential source. Reported concentrations in the acid waste sewer line originating on NFSS property may indicate a second source on NFSS, or possibly, backflow of constituents into that portion of the line during high flow. PCE was not reported in the sludge or wastewater samples collected from the acid waste sewer lines at the WWTP.

Concentrations of SVOCs, primarily PAH compounds, were reported in wastewater samples collected from each of the three properties. Two compounds, 1,2,4-trichlorobenzene and 1,4-dichlorobenzene, were reported in CWM-X41 and CWM-X92. Due to the lines having been sealed (Figure 1-6), there is no direct connection between these two locations at this time, although there was direct connection prior to sealing. These compounds were also reported in the sludge sample collected from CWM-X41, suggesting that sludge within the lines may be acting as a source. However, the concentration of the majority of VOC and SVOC constituents reported in the wastewater sample collected from CWM-X92 were higher in concentration than that of the wastewater or sludge sample collected from excavation CWM-X41 (with the notable exception of 1,2,4-trichlorobenzene), possibly suggesting an additional source of contaminants to the acid waste sewer line South of M Street. This additional source may be from the eastern portion of the acid waste sewer lines that served nitration areas one through four (and was not included in this investigation). Note that the acid waste sewer line has been sealed at several locations (Figure 1-6) and it is unlikely that the up gradient portions of the line are currently acting as a source of contaminants. These acid waste sewer lines are associated with the former AFP-68 and do not tie into the former LOOW acid waste sewer lines near the Nitration Houses or South of M Street.

Pesticides and PCB Aroclors were reported in the wastewater sample collected from location CWM-X41 on the WM property and LEW-X07 on the Town of Lewiston property. Concentrations of pesticides were reported in the sludge samples from each location as well. PCBs were reported in the sludge sample collected from LEW-X07. Concentrations of PCBs may also be present in high concentrations within the sludge sample collected from CWM-X41, but the result was rejected due to relative percent difference between columns during the analysis. As per U.S. EPA Region 2 data validation SOPs, if the percent difference between the two columns is greater than 100%, data should be rejected, even if results suggest the presence of high concentrations of Aroclors. The reported concentration in subsurface soil at this location (CMW-X41) also supports this, and suggests that a release had occurred from this acid waste sewer line at this location. The acid waste sewer line may have been a carrier of these compounds, but it is unlikely that this is currently the case due to the number of sealed points along the LOOW acid waste sewer line.

Metal concentrations exceeding the PRG were reported in sludge, wastewater and subsurface soil. However, some of the metals that exceeded the PRG in subsurface soil were not statistically significant when compared to background concentrations (Table 5-20). Metals that exceeded both the PRG and background include aluminum, chromium, manganese, and vanadium in subsurface soil samples associated with acid waste sewer lines. Because they exceeded both the PRG and background, these metals may be of concern.

Below is a summary of those constituents that have been identified as COPCs (see Chapter 4).

COPCs in Soil

Seven COPCs are identified in soil for the acid waste sewer line based on the residential soil U.S. EPA Region 9 PRG screen: aluminum, arsenic, chromium, lead, manganese, vanadium, and Aroclor 1260. Aluminum, chromium, manganese, and vanadium also exceed background concentrations.

Five COPCs are identified in soil for the acid waste sewer line based on the industrial soil U.S. EPA Region 9 PRG screen: aluminum, arsenic, chromium, lead, and Aroclor 1260. Aluminum and chromium also exceed background concentrations.

COPCs in Sludge

Thirty-two COPCs are identified in sludge for the acid waste sewer line based on the residential soil Region 9 PRG screen: aluminum, antimony, arsenic, barium, cadmium, chromium, copper, lead, manganese, mercury, vanadium, Aroclor 1254, Aroclor 1260, 4,4'-DDE, dieldrin, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, dibenz(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, pyrene, 1,2-benzphenanthracene, bis(2-ethylhexyl)phthalate, carbazole, 4-chloroaniline, hexachlorobenzene, and 1,2,4-trichlorobenzene.

Twenty-two COPCs are identified in sludge for the acid waste sewer line based on the industrial soil Region 9 PRG screen: aluminum, arsenic, chromium, lead, manganese, Aroclor 1254, Aroclor 1260, 4,4'-DDE, dieldrin, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, 1,2-benzphenanthracene, bis(2-ethylhexyl)phthalate, 4-chloroaniline, hexachlorobenzene, and 1,2,4-trichlorobenzene.

COPCs in Wastewater

Fifty COPCs are identified in wastewater for the acid waste sewer line based on comparison to the Region 9 tap water PRG screen: 2,4-dinitrotoluene, 4-nitrotoluene, aluminum, arsenic, barium, boron, cadmium, chromium, copper, lead, lithium, manganese, molybdenum, vanadium, Aroclor 1260, beta-BHC, delta-BHC, heptachlor epoxide, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, fluorene, indeno(1,2,3-cd)pyrene, 2-methylnaphthalene, naphthalene, phenanthrene, pyrene, bis(2-ethylhexyl)phthalate, carbazole, dibenzofuran, 1,2-dichlorobenzene, 1,4-dichlorobenzene, hexachloro-1,3-butadiene, hexachlorobenzene, 1,2,4-trichlorobenzene,

benzene, chlorobenzene, chloroform, 1,1-dichloroethane, 1,2-dichloroethane, cis-1,2-DCE (DCE), 1,2-dichloropropane, trans-1,3-dichloropropene, 1,1,2,2-tetrachloroethane, PCE, 1,1,2-TCA, TCE, and vinyl chloride.

5.3.2 Chemical Waste Sewer Lines

A total of 23 samples were collected from within or below chemical waste sewer lines for laboratory analyses as described in Section 2.2.3 of this UURI. The samples collected are located on the Waste Management property, and are summarized below. Chemical waste lines were associated with AFP-68. There are no known chemical waste sewer lines associated with the former LOOW TNT plant or NIKE Base. Chemical waste lines for the Navy IPPP may have existed, but would have likely been east of the project area, adjacent to M Street, in the area of the former Navy IPPP. The layout and final disposition of waste from these possible lines is unknown. Additional information on line direction, flow direction and final potential fate of contaminants from physical transport is presented in Chapter 6.

5.3.2.1 Chemical Waste Sewer Lines on Waste Management Property

A total of 23 samples were collected from within or below chemical waste sewer lines located on the WM property. Figure 5-5 presents a general overview of the excavation locations in the southern portion of the AFP-68 plant where the chemical waste sewer lines are located. Figure 5-14 illustrates the sample locations, sample matrices collected from each location, and summary of results exceeding comparison criteria for samples collected from the chemical waste sewer lines on the WM property. Tables 5-5, 5-9, 5-13, and 5-15 summarize results of samples collected from chemical waste sewer lines on WM property.

The main trunk of the chemical waste sewer line was removed as part of an ongoing IRA. This main line trended south and was located east of Wesson Street, adjacent to the main acid waste sewer line for AFP-68. A series of sumps/lift stations were associated with these lines. It is not completely clear in the historical records, but it appears as though the chemical waste sewer line tied into a separator located south of AFP-68 Process Area 22 and west of Wesson Street. The discharge line for this separator tied into the LOOW TNT waste line (which was also removed during an IRA). Lines targeted during the UURI included secondary lines originating from within process areas. The most up gradient chemical waste sewer line was encountered in CWM-X73 in the western portion of Process Area 4. Secondary lines also serviced Process Areas 7 and 11 (CWM-X59, X60, X61). A single secondary line exited Process Area 16 and traversed east (CWM-X19, X22A, X62) to the main that had been located just east of Wesson Street. Several secondary chemical waste sewer lines trended south from the area of the blast wall, foundation, and bermed tank farm within Process Area 8 (CWM-X49, X48, X47, and X45). Additional lines were encountered south and east of the bermed tank area. These were identified as chemical waste sewer lines during field inspection (CWM-X42, X43, and X44). Each of the secondary chemical waste sewer lines encountered in Process Area 8 traversed south to an additional major branch of the chemical waste sewer line that traversed west along the north side of Spruce Street. Secondary lines traversing north into the west trending main were targeted in Process Areas 2 and 20. However, the waste lines were not encountered. The chemical waste sewer lines were observed to be 2 to 7 ft bgs on the WM property.

The following summarizes the number of samples collected for each matrix.

- One sludge sample was collected from each of the following: CWM-X22A located in AFP-68 Area 22 and CWM-X48 located in Area 8.
- A total of seven wastewater samples (one from each chemical waste sewer line encountered) were collected from excavations CWM-X19 located in AFP-68 Area 16, CWM-X45 (2 samples) located in Area 8, CWM-X48 located in Area 8, CWM-X49 located in Area 8, CWM-X62 located in Area 11, and CWM-X73 located in Area 4.
- One bedding material wastewater sample was collected from excavation CWM-X62 located in AFP-68 Area 11.
- 14 subsurface soil samples were collected from beneath chemical waste sewer lines in excavations CWM-X22A located in Area 22, CWM-X32 located in Area 2, CWM-X42 through CWM-X44 located in Area 8, CWM-X47 through CWM-X49 located in Area 8, CWM-X59 through CWM-X62 located in Area 11, and CWM-X73 located in Area 4.

Results of VOC Analysis

No VOCs were reported above their respective PRG criteria from the two sludge samples and 14 subsurface soil samples.

PCE was the only VOC reported above the PRG criteria from one wastewater sample C7-CWM-WW-X62-CW01-4.5 and from the bedding material from sample C7-CWM-WW-X62-WG01-5. These samples were collected from within a 6-in. diameter terracotta pipe, trending east-west, and from the #1 limestone rock bedding material, respectively. The concentrations of VOCs were slightly higher in the bedding water sample.

The remaining VOC constituents reported in wastewater sample were not reported above their respective PRG and/or TOG criteria.

Results of SVOCs and PAHs

The laboratory analysis reported SVOCs (including PAHs) in one of the two sludge samples exceeded their respective PRG criteria. This sample is:

- Sample C7-CWM-SL-X22A-UN01-5 → Five SVOCs and PAHs were reported at concentrations above their PRG criteria. This sample was collected from inside an 8-in. diameter terracotta line, northeast to southwest angle, and appears to exit Building 16-01 at camera access point U-50 (Appendix B). This line appears to be the same line in excavation CWM-X19. Note that the line type code in the sample designation is incorrect. The line type was misinterpreted at the time of sampling and was later determined based on historical documentation. However, the original sample name is used in order to maintain the integrity of the legal chain-of-custody. The correct line type is presented in the header of the analytical summary table.

The constituent concentrations reported in the remaining sludge samples did not exceed their PRG and/or TAGM criteria.

The laboratory analysis reported that the seven wastewater samples exceeded their respective PRG and/or TOG criteria for SVOCs and PAHs. These samples are as follows:

- Sample C7-CWM-WW-X19-UN01-4 → bis(2-ethylhexyl)phthalate and hexachlorobenzene were reported at concentrations above their PRG and/or TOG criteria. This sample was collected from an 8-in. diameter terracotta pipe, trending east-west. This pipe appears to be the same pipe as excavation CWM-22A, where a sludge sample was collected. Note that the line type code in the sample designation is incorrect. The line type was misinterpreted at the time of sampling and was later determined based on historical documentation. However, the original sample name is used in order to maintain the integrity of the legal chain-of-custody. The correct line type is presented in the header of the analytical summary table.

- Sample C7-CWM-WW-X45-CW01-5 → bis(2-ethylhexyl)phthalate concentration was reported above the TOG criteria. This sample was collected from an 8-in. diameter terracotta pipe, trending north-south.
- Sample C7-CWM-WW-X45-CW02-5 → bis(2-ethylhexyl)phthalate concentration was reported above the TOG criteria. This sample was collected from another 8-in. diameter terracotta pipe, trending north-south that was in the same excavation as CWM-X45-CW01 sample.
- Sample C7-CWM-WW-X48-CW01-5 → bis(2-ethylhexyl)phthalate concentration was reported above the TOG criteria. This sample was collected from the chemical waste sewer manhole (camera access point UC-2 [Appendix B]), which was located 15 ft to the southwest of the excavation pit. A sludge sample was also collected from the manhole.
- Sample C7-CWM-WW-X49-CW01-3.5 → bis(2-ethylhexyl)phthalate concentration was reported above the TOG criteria. This sample was collected from an 8-in. diameter terracotta pipe, trending north-south.
- Sample C7-CWM-WW-X62-CW01-4.5 → bis(2-ethylhexyl)phthalate concentration was reported above the TOG criteria.
- Sample C7-CWM-WW-X73-CW01-7 → benzo[a]anthracene and benzo[b]fluoranthene concentrations were reported above the TOG criteria. This sample was collected from a 6-in. diameter steel pipe, trending east-west.

The constituents reported in the remaining wastewater samples were not reported at concentrations above their PRG and/or TOG.

No SVOCs or PAHs were reported above their respective PRG criteria from the one bedding material wastewater sample. However, bis(2-ethylhexyl)phthalate exceeded the TOG criteria in the bedding material sample (C7-CWM-WW-X62-WG01-5).

The laboratory analysis reported that a PAH exceeded the PRG in 1 of the 14 subsurface soil samples. This sample is:

- Sample C7-CWM-SO-X44-CW01-3 → benzo[a]pyrene was reported at a concentration above the PRG. This sample was collected from beneath the intersection of a 4-in. diameter steel pipe, trending east and west, and an 8-in. diameter steel pipe, trending north-south.

The remaining SVOCs and PAHs constituents reported in the subsurface soil samples were not detected above their respective PRG criteria. However, some PAHs were reported at concentrations exceeding the TAGM in samples C7-CWM-SO-X22A-UN01-5.5, which was collected from the same location as the sludge sample discussed above, and C7-CWM-SO-X44-CW01-3. Note that the line type code in the sample designation C7-CWM-SO-X22A-UN01-5.5 is incorrect. The line type was misinterpreted at the time of sampling and was later determined based on historical documentation. However, the original sample name is used in order to maintain the integrity of the legal chain-of-custody. The correct line type is presented in the header of the analytical summary table.

Several of the PAH compounds reported in the sludge sample collected from CWM-X22A were also reported in the subsurface soil sample (in lesser concentrations) collected from that location. Similarly, PAH compounds reported in the wastewater sample collected adjacent to CWM-X73 were also reported in the subsurface soil sample collected from that location. However, higher concentrations of PAHs were reported in the subsurface soil sample.

Results of Pesticides

No pesticides were reported above their respective PRG and/or TOG criteria from the two sludge samples or one bedding material wastewater sample.

Reported pesticides exceeded the PRG and/or TOG in six of the seven wastewater samples. These samples are as follows:

- Sample C7-CWM-WW-X19-UN01-4 → Heptachlor epoxide was reported at an estimated concentration above the PRG and TOG criteria. Note that the line type code in the sample designation is incorrect. The line type was misinterpreted at the time of sampling and was later determined based on historical documentation. However, the original sample name is used in order to maintain the integrity of the legal chain-of-custody. The correct line type is presented in the header of the analytical summary table.
- Sample C7-CWM-WW-X45-CW01-5 → Dieldrin concentration was reported above the PRG and TOG criteria.
- Sample C7-CWM-WW-X45-CW02-5 → 4,4'-DDT, dieldrin, and heptachlor epoxide concentrations were reported above their PRG and/or TOG criteria.
- Sample C7-CWM-WW-X48-CW01-5 → 4,4'-DDT and dieldrin concentrations were reported above their PRG and/or TOG criteria.

- Sample C7-CWM-WW-X49-CW01-3.5 → Dieldrin concentration was reported above the PRG and TOG criteria.
- Sample C7-CWM-WW-X62-CW01-4.5 → Dieldrin and methoxychlor concentrations were reported above their PRG and/or TOG criteria.

The constituents reported in the remaining wastewater samples did not exceed their PRG and/or TOG for pesticides.

No pesticides were reported above their respective PRG from the 14 subsurface soil samples collected from beneath the chemical waste sewer line on WM property.

Although below the PRG, concentrations of pesticides reported in the sludge sample collected from CWM-X22A were also reported (in lesser concentrations) in the subsurface soil sample from this location. This trend was also observed in reported PAHs and VOCs, suggesting that the contents of the line may have impacted the subsurface.

Although concentrations of pesticides exceeding the respective PRG were reported in six wastewater samples, these constituents were not detected in the subsurface soil samples from these locations.

Results of PCBs

One PCB Aroclor, Aroclor 1254, was reported at a concentration exceeding the PRG from the sludge sample C7-CWM-SL-X22A-UN01-5. Note that the line type code in the sample designation is incorrect. The line type was misinterpreted at the time of sampling and was later determined based on historical documentation. However, the original sample name is used in order to maintain the integrity of the legal chain-of-custody. The correct line type is presented in the header of the analytical summary table. PCBs were not reported in the sludge sample collected from the chemical waste sewer line in CWM-X48.

One PCB Aroclor, Aroclor 1260, was reported at concentrations exceeding the PRG from the wastewater sample C7-CWM-WW-X48-CW01-5 and wastewater sample C7-CWM-WW-X62-CW01-4.5. The constituents reported in the remaining wastewater samples did not exceed their PRG and/or TOG for PCBs.

No PCB Aroclors were reported above their respective PRG and/or TOG criteria in the one bedding material wastewater sample.

One PCB Aroclor, Aroclor 1260, was reported at concentrations exceeding the PRG from the subsurface soil sample C7-CWM-SO-X42-CW01-3 and sample C7-CWM-SO-X49-CW01-4. The constituents reported in the remaining subsurface soil samples did not exceed the PRG for PCBs.

Reported PCBs in samples associated with chemical waste sewer lines were located in the southern process areas (i.e., Area 8), with the exception of samples collected from the east-trending line exiting Building 16-01 (sludge from CWM-X22A and wastewater from CWM-X62).

Aroclor 1260 was predominant; however, Aroclor 1254 was reported in the sludge sample collected from CWMX22A.

Although PCB Aroclor 1260 was reported in the wastewater samples from excavations CWM-X48 and CWM-X62, this constituent was not detected in the subsurface soil samples, thereby suggesting that there was no release of Aroclor 1260 from the chemical waste sewer lines in this area of the property. However, Aroclor 1260 was reported in the subsurface soil samples from excavations CWM-X42, X43, and X49. Sludge and wastewater were not collected from within the chemical waste sewer lines in CWM-X42 and CWM-X43. PCBs were not reported in the wastewater sample collected from the line encountered at CWM-X49, suggesting there is another source of impact to subsurface soil other than the line, or potential source material that was within the line has been redistributed.

Results of Explosives

No explosives were reported above their respective PRG and/or TOG criteria in the two sludge samples, seven wastewater samples, one bedding material wastewater sample, and 14 subsurface soil samples. Low concentrations of nitrobenzene (up to 170 µg/kg) were reported in the majority of the subsurface soil samples. No explosives were reported in wastewater collected from chemical waste sewer lines. One reported concentration of nitrobenzene (38 µg/kg) and HMX (190 µg/kg) were reported in sludge samples collected from within chemical waste sewer lines encountered in excavations CWM-X22A and CWM-X48, respectively.

Results of Metals and Cyanide

No cyanide concentrations were reported above their PRG and/or TOG criteria from the two sludge samples, seven wastewater samples, one bedding material wastewater sample, and 14 subsurface soil samples.

Metals were reported in both sludge samples at concentrations exceeding their PRG. These samples are:

- Sample C7-CWM-SL-X22A-UN01-5 →aluminum, arsenic, chromium, copper, iron, and vanadium concentrations were reported above their PRG. Generally, the highest concentrations of metals were reported in this sample. Note that the line type code in the sample designation is incorrect. The line type was misinterpreted at the time of sampling and was later determined based on historical documentation. However, the original sample name is used in order to maintain the integrity of the legal chain-of-custody. The correct line type is presented in the header of the analytical summary table.
- Sample C7-CWM-SL-X48-CW01-5→aluminum, arsenic, and iron concentrations were reported above their PRG. This sample was collected from the same location as the wastewater sample discussed above.

Metals were reported in the seven wastewater samples at concentrations exceeding their PRG and/or TOG as listed below. Generally, the sample collected from CWM-X19 had the highest frequency of metals exceeding PRGs and the highest concentrations, with notable exceptions of chromium reported in the sample collected from CWM-X62 and zinc reported in the sample collected from CWM-X49.

- Sample C7-CWM-WW-X19-UN01-4 →aluminum, arsenic, chromium, iron, lead, lithium, manganese, molybdenum, selenium, silver, thallium, and vanadium concentrations were reported above their PRG and/or TOG. Note that the line type code in the sample designation is incorrect. The line type was misinterpreted at the time of sampling and was later determined based on historical documentation. However, the original sample name is used in order to maintain the integrity of the legal chain-of-custody. The correct line type is presented in the header of the analytical summary table.
- Sample C7-CWM-WW-X45-CW01-5→aluminum, antimony, arsenic, iron, lead, manganese, and vanadium concentrations were reported above their PRG and/or TOG.
- Sample C7-CWM-WW-X45-CW02-5→aluminum, antimony, arsenic, cadmium, iron, manganese, and vanadium concentrations were reported above their PRG and/or TOG.
- Sample C7-CWM-WW-X48-CW01-5→aluminum, arsenic, iron, manganese, and vanadium concentrations were reported above their PRG and/or TOG.

- Sample C7-CWM-WW-X49-CW01-3.5→arsenic and zinc concentrations were reported above their PRG.
- Sample C7-CWM-WW-X62-CW01-4.5→chromium, magnesium, and molybdenum concentrations were reported above their PRG and/or TOG.
- Sample C7-CWM-WW-X73-CW01-7→aluminum, antimony, iron, lead, and manganese concentrations were reported above their PRG and/or TOG.

Fourteen metals were reported at concentrations exceeding their PRG and/or TOG in the bedding material wastewater sample C7-CWM-WW-X62-WG01-5. This sample was collected in the same location as the wastewater sample. Note that the matrix type of this sample was mislabeled at the time of sampling. The original sample name is used in the report text in order to maintain the integrity of the legal chain-of-custody.

Metals were reported at concentrations exceeding their PRG in the 14 subsurface soil samples collected from beneath the chemical waste sewer lines. These metals are aluminum, arsenic, chromium, and iron. With the exception of the sludge sample collected from CWM-X22A, most of the reported metals concentrations were similar between subsurface soil samples. The highest concentration of arsenic, chromium, and iron were reported in the sample collected from CWM-X22A. The highest concentration of aluminum was reported in the sample CWM-X49.

- Aluminum → Excavation CWM-X32, CWM-X42 through CWM-X44, CWM-X47 through CWM-X49, CWM-X59 through CWM-X62, and CWM-X73
- Arsenic → Excavation CWM-X22A, CWM-X32, CWM-X42 through CWM-X44, CWM-X47 through CWM-X49, CWM-X59 through CWM-X62, and CWM-X73
- Chromium → Excavation CWM-X22A and CWM-X62
- Iron → Excavation CWM-X22A, CWM-X32, CWM-X42 through CWM-X44, CWM-X47 through CWM-X49, CWM-X59 through CWM-X62, and CWM-X73

Additional metals were reported but did not exceed their respective PRG.

Metals reported in subsurface soil were compared to background metals concentrations. Results of the statistical analysis indicated cadmium, manganese, potassium, selenium, and vanadium exceeded background metals concentrations. However, none of the reported metal concentrations that exceeded the PRG also exceeded background concentrations.

5.3.2.2 Chemical Waste Line Summary of Results

The following illustrates the constituents that exceeded the PRG in each matrix from each property. The majority of the exceedances of the PRG were reported in wastewater samples. This is not unusual, given the conservative nature of the screening criteria (risk-based criteria for drinking water) for this matrix.

SUMMARY OF CHEMICAL WASTE SEWER LINE PRG EXCEEDANCES

	WM Property			
	SL	WW	WB	SO
VOCs		✓	✓	
SVOCs and PAHs	✓	✓		✓
Pesticides		✓		
PCBs	✓	✓		✓
Explosives				
Metals	✓	✓	✓	✓

Sludge was available or accessible for collection from two of the excavations within which chemical waste sewer lines were encountered. PAHs, Aroclor 1254, and several metals (aluminum, arsenic, chromium, copper, and vanadium) exceeded the PRG in the sludge sample collected from CWM-X22A. Other than aluminum, antimony, and iron, reported constituents in the sludge sample collected from CWM-X48 did not exceed PRGs. Some of the constituents reported in sludge collected from CWM-X48 were also reported in the wastewater sample from that location (indicating that some sludge may have been suspended in the wastewater sample), but no constituents reported in the sludge or wastewater were reported in the associated subsurface soil sample from that location. Several constituents, including VOCs, PAHs, and pesticides, reported in the sludge sample collected from CWM-X22A were reported in the associated subsurface soil sample (although the subsurface soil concentrations did not exceed the PRG). This indicates that the contents of the line in this area (west of Wesson Street) may be impacting subsurface soil.

PCE and metals concentrations exceeding the PRG were reported in the wastewater sample and bedding material wastewater sample collected from excavation CWM-X62, located just east of Wesson Street and east of CWM-X22A. Generally, the concentrations of reported constituents, including PCE, were higher in the bedding water sample. Pesticides and PCBs were reported in the wastewater sample and were not reported in the bedding material sample. Constituents reported in the wastewater and bedding material water were not reported in the subsurface soil collected from that location, although the bedding material water is in contact with the soil. These results suggest separate sources for the constituents reported in the wastewater and bedding material water at this location, and further suggests that the contents from the chemical waste sewer line in this location have not impacted subsurface soil.

Metals and pesticides exceeding the PRG were reported in the other wastewater samples as well. In particular, dieldrin exceeding the PRG was reported in the wastewater from chemical waste sewer lines that traverse south out of Area 8. Dieldrin was not reported in other matrices, with the exception of one subsurface soil collected from CWM-X61 in Area 11. PCB Aroclor 1260 was also reported in the wastewater sample collected from CWM-X48.

In subsurface soil beneath the chemical waste sewer lines, the reported concentrations of Aroclor 1260 exceeded the PRG in the samples collected from CWM-X42 and CWM-X49. Metals also exceeded the PRG, but did not exceed background concentrations.

Generally, the area of underground chemical line investigated during the UURI that appears to be most impacted is that area east of Building 16-01 and west of Process Area 11, in the vicinity of CWM-X22A and CWM-X62. Furthermore, the presence of bedding material beneath the line in CWM-X62 suggests a pathway for migration of potential contaminants. No distinct contaminant trends were observed, although it appears that some subsurface soil beneath the chemical waste sewer lines may have been impacted by sludge and/or wastewater within the lines. VOCs and pesticides appear to be relatively low concentration but ubiquitous - appearing in each matrix (with the exception of pesticides in bedding material water) and at various locations. PCB concentrations were reported in relatively low concentrations in wastewater and higher concentrations in sediment and sludge. With regard to chemical waste sewer lines, the reported PCBs appeared to be relegated to Process Area 8 and the more heavily impacted area near Building 16-01 and Process Area 11.

Metals were also ubiquitous through the extent of chemical waste sewer lines. However, the subsurface and sludge sample collected from CWM-22A, the subsurface soil sample from

CWM-X61, and the wastewater sample collected from CWM-X19 exhibited impacts from metals. Metals that exceeded the PRG in subsurface soil included aluminum, arsenic, chromium, and iron. However, these metals did not exceed background.

Below is a summary of those constituents that have been identified as COPCs (see Chapter 4). Chemical waste lines are not present on properties targeted for possible residential use. Therefore, identification of COPCs associated with the chemical waste sewers were identified based on screening against industrial PRGs (and not residential PRGs).

COPCs in Soil

Five COPCs are identified in total for the chemical waste sewer lines based on the industrial soil Region 9 PRG screen: aluminum, arsenic, chromium, Aroclor 1260, and benzo(a)pyrene. There were no metals in soil that exceeded both the PRG and background.

COPCs in Sludge

Eleven COPCs are identified in sludge for the chemical waste sewer lines based on the industrial soil Region 9 PRG screen: aluminum, arsenic, chromium, copper, vanadium, Aroclor 1254, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, indeno(1,2,3-cd)pyrene, and hexachlorobenzene.

COPCs in Wastewater

Eighteen COPCs are identified in wastewater for the chemical waste sewer lines based on comparison to the Region 9 tap water PRG screen: aluminum, antimony, arsenic, cadmium, chromium, lead, lithium, manganese, molybdenum, selenium, thallium, vanadium, zinc, Aroclor 1260, dieldrin, heptachlor epoxide, hexachlorobenzene, and PCE.

5.3.3 Drains, Pits, or Sumps

A total of 18 samples were collected from within drains, pits, sumps, or and/or vaults for laboratory analyses as described in Section 2.2.3 of this UURI.

Drains, pits, sumps, and vaults refer to above ground features that may be associated with underground lines, based on site reconnaissance, but the connection to the underground line and/or which type of line the feature is associated with was unknown prior to the UURI. Through information gained during the sampling phase of the UURI, some of these features were associated with specific line types. Additional information on line direction, flow direction and final potential fate of contaminants from physical transport is presented in Chapter 6.

The samples collected were associated with drains, pits, vaults and sumps located on the Somerset Group property, the WM property, and the Town of Lewiston property, as summarized in the following sections. The features were associated with the former AFP-68, LOOW TNT plant, and NIKE Base.

5.3.3.1 Drains, Pits, and Sumps on Somerset Group Property

A total of three samples were collected from within drains, pits, or sumps located on the Somerset Group property. Figure 5-19 illustrates the sample locations, sample matrices collected from each location, and summary of results exceeding comparison criteria for samples collected from the drains, pits, or sumps on the Somerset Group property. Two features associated with the foundation of AFP-68 Building 30A-01, a dry well/sump (SOM-X00-DW16) and the underground line leading from a drain on the foundation to the sump (SOM-X10-DW01), were sampled. A pumping station for the sanitary sewer line (SOM-X00-DW02) was also sampled. Access to the drains, pits, and sumps located on the Somerset Group property is controlled by the owner and is accessible to visitors and trespassers. The following summarizes the number of samples collected for each matrix:

- One sludge sample C7-SOM-SL-X00-DW16-3 collected from a drywell/sump located in AFP-68 Area 30A.
- One wastewater sample C7-SOM-WW-X00-DW02-7 collected from a sump (sanitary sewer station) located in AFP-68 Area 30A.
- One subsurface soil sample collected from excavation C7-SOM-SO-X10-DW01-1.5 located in AFP-68 Area 30A. This excavation targeted the underground line that traversed from the floor drain in the foundation of Building 30A-1 to the sump (DW16).

Results of VOC Analysis

No VOCs were reported from the one sludge sample, one wastewater sample, or one subsurface soil sample collected from drains, pits, or sumps on the Somerset Group property.

Results of SVOCs and PAHs

SVOCs, primarily PAHs, were reported at concentrations exceeding either the PRG criteria from the sludge sample C7-SOM-SL-X00-DW16-3. This sample was collected from the drywell/sump (DW-16) located south of the Building 30A-01 foundation. Each of the PAHs reported in the subsurface soil sample collected adjacent to this location were reported in the sludge sample in greater concentrations, indicating possible impact to subsurface soil from the pipe contents.

No SVOCs or PAHs were reported above their respective PRG criteria in the one wastewater sample C7-SOM-SL-X00-DW02-7. However, bis(2-ethylhexyl)phthalate exceeded the TOG as illustrated in Figure 5-19.

No SVOCs or PAHs were reported above their respective PRG criteria from the one subsurface soil sample C7-SOM-SO-X10-DW01-1.5. This sample was collected from beneath a 4-in. diameter steel pipe, trending south from the foundation of Building 30A-01 to DW-16.

Results of Pesticides

Several pesticides were reported in concentrations that did not exceed their respective PRG in the sludge sample.

Heptachlor epoxide was the only pesticide reported in the wastewater sample from the sanitary sewer pumping station (C7-SOM-SL-X00-DW02-7) in exceedance of the PRG and TOG.

No pesticides were reported in the subsurface soil sample.

Results of PCBs

One PCB Aroclor, Aroclor 1254, was reported at a concentration exceeding the PRG and the TAGM in the sludge sample C7-SOM-SL-X00-DW16-3.

No PCBs were reported in the subsurface soil or wastewater sample.

Results of Explosives

No explosives were reported in the sludge, subsurface soil, or wastewater sample.

Results of Metals

Five metals were reported in the sludge sample collected from the dry well/sump (C7-SOM-SL-X00-DW16-3) at concentrations exceeding the PRG. These metals are aluminum, arsenic, iron, manganese, and vanadium.

One metal, lithium was reported in the wastewater sample C7-SOM-WW-X00-DW02-7 collected from the sanitary sewer pumping station at a concentration exceeding the PRG.

Six metals were reported in the one subsurface sample C7-SOM-SO-X10-DW01-1.5 at concentrations exceeding the PRG. These metals are aluminum, arsenic, chromium, iron, manganese, and vanadium. Results of the statistical background evaluation indicated that cadmium, iron, potassium, and selenium exceeded background in subsurface soil samples associated with drains, pits, sumps, and vaults. Of these metals, only iron exceeded the PRG, but is not considered a COPC because iron is an essential nutrient.

5.3.3.2 Drains, Pits, and Sumps on Waste Management Property

A total of 10 samples were collected from the drains, pits, or sumps located on the WM property. Figure 5-15 illustrates the sample locations, sample matrices collected from each location, and summary of results exceeding comparison criteria for samples collected from the drains, pits, or sumps on the WM property. Tables 5-5, 5-9, 5-13 present the reported results.

Three drains, each associated with AFP-68, were targeted for sampling on the WM property. The first was located in the earthen berm tank area in the western portion of AFP-68 Process Area 4 (CWM-X77-DW01). It is suspected that this drain may be associated with the AFP-68 wastewater or chemical waste sewer lines. The second (CWM-X35) was located on the east edge of a concrete foundation in Process Area 2. Based on the location of this drain and line, it may be associated with a wastewater line. The third (CWM-X38) was a drain located in the southwest corner of the tank containment in Process Area 20. This line may also tie into the wastewater line traversing east from the area.

Within the control area of the former NIKE Base, two features were targeted. The first (CWM-X113-DW01) was the silo-like structure located in the western portion of the area and presumably associated with waste treatment. The second (CWM-116-DW01) was a rectangular, concrete-walled pit located southwest of the Barracks Building. Access to the drains, pits, and sumps located on the WM property is controlled by the owner and is accessible to employees, visitors, and trespassers.

The following summarizes the number of samples collected for each matrix:

- A sludge sample was collected from each of the following four excavations: CWM-X38 located in AFP-68 Area 20, CWM-X77A located in Area 4, CWM-X113, and CWM-X116, which are located in the northern portion of the Control area of the NIKE Base.
- A wastewater sample was collected from each of the following two excavations: CWM-X35 located in Area 2, and CWM-X116 located on the NIKE Base.
- A subsurface soil sample was collected from each of four excavations: CWM-X35 located in Area 2, CWM-X38 located in Area 20, CWM-X77A located in Area 4, and CWM-X116 located on the NIKE Base.

Results of VOC Analysis

Low concentrations of VOCs were reported in the sludge sample collected from the silo and the subsurface soil sample collected from the concrete sump in the NIKE Base area. VOCs were also reported in the subsurface soil associated with the drain in AFP-68 Process Area 2. However, no VOCs were reported above their respective PRG criteria from the four sludge samples and four subsurface soil samples.

PCE and TCE were reported above the PRG criteria in one wastewater sample, C7-CWM-WW-X35-DW01-3, collected in Process Area 2. TCE was also reported in the subsurface soil sample collected beneath the line.

Results of SVOCs and PAHs

The laboratory analysis reported that SVOCs and PAHs exceed their respective PRG in two of the four sludge samples. These samples are:

- Sample C7-CWM-SL-X38-DW01-2.5 → One PAH, as well as a phthalate, was reported at concentrations above their PRG criteria. This sample was collected from inside a 4-in. diameter terracotta line, trending north-south, which originates from a sump/drain in the southwest corner of the tank contaminant area in Area 20. The PAHs reported in this sludge sample were also reported in the subsurface soil sample collected from this location, although in lesser concentrations.
- Sample C7-CWM-SL-X113-DW01-11 → 7 PAHs, were reported at concentrations above their PRG criteria. This sample was collected from the bottom of the liquid reservoir within the silo-like structure that is located on the southern portion of the

NIKE Base. The reported concentrations represent some of the highest PAH concentrations reported during the UURI. A subsurface soil sample was not collected from beneath the silo structure.

The SVOCs reported in the remaining sludge samples were not reported at concentrations above their PRG criteria.

No SVOCs or PAHs were reported above their respective PRG from the two wastewater samples. However, it is important to note that one of the duplicate samples collected from sample C7-CWM-WW-DUP9 had an exceedance above the PRG for dibenz[a,h]anthracene and phenanthrene. The parent sample C7-CWM-WW-X116-DW01-6 did not have an exceedance above the PRG for these two compounds. In addition, some SVOCs, primarily PAHs were reported at concentrations exceeding the TOG in both wastewater samples as illustrated on Figure 5-25.

Benzo[a]pyrene exceeded the PRG in the subsurface soil sample collected from within the concrete sump southwest of the Barracks Building (C7-CWM-SO-X116-DW01-7). Several additional PAHs were reported at this location in concentrations that did not exceed the PRG. Similar PAHs were reported in the wastewater sample collected from this location, in lesser concentrations than that reported in the subsurface soil.

Results of Pesticides

Two pesticide compounds were reported above their respective PRG criteria in one of the four sludge samples. This sample is:

- Sample C7-CWM-SL-X113-DW01-11→ Heptachlor epoxide was reported at a concentration above the PRG.

Pesticides were reported in each of the remaining sludge samples in concentrations that did not exceed the PRG. Pesticides were reported in the subsurface soil as well as the sludge sample collected from CWM-X38 (tank containment area drain in Process Area 20). The concentrations in the subsurface soil were higher in concentration than those reported in the sludge.

Reported constituents in the two wastewater samples exceeded their respective PRG and/or TOG for pesticides. These samples are as follows:

- Sample C7-CWM-WW-X35-DW01-3 → Dieldrin was reported at an estimated concentration above the PRG and TOG criteria in this sample associated with the drain on the Process Area 2 foundation.
- Sample C7-CWM-WW-X116-DW01-6 → 4,4'-DDE was reported at an estimated concentration above the TOG criteria. This sample was collected from the inside of a 6-in. diameter steel pipe that within the concrete sump southwest of the Barracks Building.

The constituents reported in the remaining wastewater samples did not exceed their PRG and/or TOG for pesticides.

One pesticide compound, dieldrin was reported at an estimated concentration exceeding the PRG in one of the four subsurface soil samples. This sample, C7-CWM-SO-X38-DW01-3, was collected from beneath the 4-in. terracotta pipe exiting the tank containment drain in Process Area 20. Additional pesticides were reported in the subsurface soil and sludge sample from that location (discussed above). However, the concentrations reported in the subsurface soil were generally higher than those reported in the sludge.

Results of PCBs

No PCB Aroclors were reported at concentrations exceeding the PRG and/or TOG from the sludge samples and wastewater samples.

One PCB Aroclor, Aroclor 1260 was reported at a concentration exceeding the PRG from the subsurface soil sample C7-CWM-SO-X38-DW01-3. PCBs were not reported in the sludge sample from this location.

Results of Explosives

No explosives were reported above their respective PRG and/or TOG criteria in the sludge samples, wastewater samples, and subsurface soil samples, although nitrobenzene was reported in three of the four subsurface soil samples in concentrations that did not exceed the PRG.

Results of Metals and Cyanide

No cyanide concentrations were reported above their PRG and/or TOG criteria from the sludge samples, wastewater samples, and subsurface soil samples collected from the drains, pits, or sumps on the WM property.

Metals were reported in the four sludge samples at concentrations exceeding their PRG. These samples are:

- Sample C7-CWM-SL-X38-DW01-2.5 →aluminum and iron concentrations were reported above their PRG in this sample collected from the corner tank containment drain in Process Area 20.
- Sample C7-CWM-SL-X77A-DW01-2.5→aluminum, arsenic, and iron concentrations were reported above their PRG. This sample was collected from inside the sump pit located in the southwest corner of the earthen bank containment area in AFP-68 Area 4.
- Sample C7-CWM-SL-X113-DW01-11→arsenic, cadmium, iron, lead, and zinc concentrations were reported above their PRG in this sample collected from the silo structure.
- Sample C7-CWM-SL-X116-DW01-3→aluminum, arsenic, and iron concentrations were reported above their PRG in the sample collected from the rectangular concrete pit in the NIKE Base.

Metals were reported in both wastewater samples at concentrations exceeding their PRG and/or TOG. These samples are:

- Sample C7-CWM-WW-X35-DW01-3 →aluminum, antimony, arsenic, cadmium, chromium, cobalt, iron, lead, manganese, and vanadium concentrations were reported above their PRG and/or TOG.
- Sample C7-CWM-WW-X116-DW01-6→aluminum, iron, and manganese concentrations were reported above their PRG and/or TOG. This sample was collected from the same location as the sludge and subsurface soil samples discussed above.

Additional metals were reported, but did not exceed their respective PRG and/or TOG.

Metals were reported at concentrations exceeding their PRG in the four subsurface soil samples, as listed below. Based on the evaluation against background, cadmium, iron, potassium and selenium exceeded background concentrations in the subsurface soil samples collected from the drains, pits, and sumps. Metals exceeding both the PRG and background are signified by bold text.

- Sample C7-CWM-SO-X35-DW01-3.5 →aluminum, arsenic, and **iron** concentrations were reported above their PRG.
- Sample C7-CWM-SO-X38-DW01-3 →aluminum, arsenic, and **iron** concentrations were reported above their PRG.
- Sample C7-CWM-SO-X77A-DW01-3 →aluminum, arsenic, and **iron** concentrations were reported above their PRG.
- Sample C7-CWM-SO-X116-DW01-7 →aluminum, arsenic, and **iron** concentrations were reported above their PRG.

Additional metals were reported but did not exceed their respective PRG. Also, because iron is an essential nutrient, it is not expected to represent a risk.

5.3.3.3 Drains, Pits, and Sumps, on the Town of Lewiston Property

A total of five samples were collected from within or below drains, pits, or sumps located in the WWTP on the Town of Lewiston property. Figure 5-12 illustrates the sample locations, sample matrices collected from each location, and summary of results exceeding comparison criteria for samples collected from the Town of Lewiston property. Tables 5-4 and 5-8 summarize the reported results. Features that were targeted for sample collection included the southern sludge bed (LEW-X00-DW04), the Imhoff tank (C7-CWM-SL-X00-DW05-15), the chorine contact tank (C7-LEW-SL-X00-DW03-16), and the collection tank (C7-LEW-WW-X00-DW01-4 and C7-LEW-SL-X00-DW02-6).

As the name suggests, the sludge bed accepted solid wastes that settle within the Imhoff tank. This waste originated from the sanitary sewer lines entering the WWTP from the east. The collection tank accepted liquid from the Imhoff tank (through the chlorine contact tank) and the Acid Neutralization Building. Waste from the collection tank was discharged to a wooden underground line that terminated at the final mixing house before discharge through the 30-in. outfall line. Access to the drains, pits, and sumps located on the Town of Lewiston property is not controlled due to a breech in the fence line, however the pits and sumps are sealed with heavy concrete covers.

The following summarizes the number of samples collected for each matrix.

- One sludge sample collected from each of the following: Collection Tank, Chlorine Tank, sludge bed, and Imhoff Tank located in the WWTP.
- One wastewater samples collected from the Collection Tank located in the WWTP.

Results of VOC Analysis

Two VOCs were reported above their respective PRG criteria from two of the four sludge samples collected from the drains, pits, and sumps on the Town of Lewiston property. These samples are:

- Sample C7-CWM-SL-X00-DW05-15→ Toluene was reported at a concentration above the PRG. This sample was collected from the bottom of the Imhoff tank at the WWTP. It is important to note that this sample was inadvertently mislabeled as WM. This sample was collected on the Town of Lewiston property and not on the WM property.
- Sample C7-LEW-SL-X00-DW03-16→ 1,1,2,2-Tetrachloroethane was reported at a concentration above the PRG. This sample was collected from the bottom of the Chlorine Tank at the WWTP.

The sample collected from chlorine contact tank (DW03) reported the greatest number of constituents including ethyl benzene, xylenes, toluene, and acetone. The sludge sample collected from the sludge bed had the lowest number of and concentration of constituents.

Acetone, in a concentration that did not exceed the PRG or TOG was reported in the wastewater sample (C7-LEW-WW-X00-DW01-4) collected from the Collection Tank at the WWTP.

Results of SVOCs and PAHs

The laboratory analysis reported that concentrations of PAHs exceeded the PRG in three of the four sludge samples:

- Sample C7-CWM-SL-X00-DW05-15 → 9 PAHs were reported at concentrations above their PRG criteria.

- Sample C7-LEW-SL-X00-DW02-6 → 5 PAHs were reported at concentrations above their PRG criteria.
- Sample C7-LEW-SL-X00-DW03-16 → 9 PAHs were reported at concentrations above their PRG criteria.

The reported constituents in the remaining sludge samples did not exceed the PRG.

No SVOCs or PAHs were reported above their respective PRG in the one wastewater sample C7-LEW-WW-X00-DW01-4. However, the concentration of bis(2-ethylhexyl)phthalate exceeded the TOG.

Results of Pesticides

No pesticides were reported above their respective PRG from the four sludge samples.

The laboratory analysis indicated that a reported pesticide in the one wastewater sample exceeded the respective PRG and TOG. This sample is:

- Sample C7-LEW-WW-X00-DW01-4 → Heptachlor epoxide concentration was reported above the PRG and TOG criteria. This sample was collected from collection tank.

Results of PCBs

No PCBs were reported in the four sludge samples and one wastewater sample collected from within the WWTP on the Town of Lewiston property.

Results of Explosives

No explosives were reported above their respective PRG or TOG criteria from the four sludge samples and one wastewater sample collected from within the WWTP on the Town of Lewiston property. Although no explosives were reported in concentrations that exceeded the PRG, 2-amino-4,6-dinitrotoluene and 4-amino-2,6-dinitrotoluene were reported in the sludge sample collected from chlorine contact tank. Nitrobenzene was reported in the sludge sample collected from the sludge bed.

Explosives were not reported in the wastewater sample collected from the collection tank.

Results of Metals

Metals were reported in each of the four sludge samples at concentrations exceeding their PRG. These samples are:

- Sample C7-CWM-SL-X00-DW05-15 →aluminum, antimony, arsenic, boron, cadmium, chromium, copper, iron, lead, manganese, mercury, silver, vanadium, and zinc concentrations were reported above their PRG.
- Sample C7-LEW-SL-X00-DW02-6→aluminum, arsenic, chromium, iron, manganese, and vanadium concentrations were reported above their PRG.
- Sample C7-LEW-SL-X00-DW03-16→aluminum, arsenic, cadmium, chromium, iron, manganese, mercury, silver, and vanadium concentrations were reported above their PRG.
- Sample C7-LEW-SL-X00-DW04-1→arsenic, chromium, iron, manganese, and vanadium concentrations were reported above their PRG.

Generally, the highest reported concentrations were from the samples collected from the Imhoff tank and the chlorine contact tank. The exceptions to this were cobalt, magnesium, and manganese, which were reported in the highest concentration in the sludge sample from the collection tank. The sludge sample from the Imhoff tank had the highest frequency of reported metals exceeding PRGs.

Metals were reported in the one wastewater sample at concentrations exceeding their PRG and/or TOG. This sample is:

- Sample C7-LEW-WW-X00-DW01-4 →aluminum, arsenic, iron, magnesium, silver, and vanadium concentrations were reported above their PRG and/or TOG. This sample was collected from the same location as the sludge sample discussed above.

The reported metals concentrations in the wastewater sample collected from the collection tank were slightly elevated over those concentrations reported in wastewater samples collected from pits, drain, sumps on WM and Somerset Group property.

5.3.3.4 Drains, Pits, Sumps Summary of Results

The majority of the exceedances of the PRG were reported in samples collected from the WM property. The following illustrates the constituents that exceeded the PRG in each matrix from each property.

SUMMARY OF DRAINS, PITS, AND SUMP PRG EXCEEDANCES

	Somerset Group property			WM property			Town of Lewiston property	
	SL	WW	SO	SL	WW	SO	SL	WW
VOCs					✓		✓	
SVOCs and PAHs	✓			✓	✓	✓	✓	
Pesticides		✓		✓	✓	✓		✓
PCBs	✓					✓		
Explosives								
Metals	✓	✓	✓	✓	✓	✓	✓	✓

The greatest reported concentrations of VOCs (1,1,2,2-tetrachloroethane and toluene) were reported in the sludge samples collected from the chlorine collection tank and Imhoff tank at the WWTP on the Town of Lewiston property. Subsurface soil samples were not collected from beneath these structures. Therefore it is difficult to predict whether subsurface soil in the area has been impacted. Reported VOCs (TCE and PCE) in wastewater collected from the drain in AFP-68 Process Area 2 also exceeded the PRG. TCE in subsurface soil were also reported at this location indicating possible impact from the contents of the line.

Each of the drains, pits, and sumps sampled were heavily impacted by PAHs in concentrations exceeding the PRG with the exception of the drain for the tank area in the western portion of Process Area 4 (CWM-X77-DW01) and the sludge bed at the WWTP (LEW-DW03). At two of the locations with reported PAHs (SOM-DW16 and CWM-X38-DW01) the subsurface soil sample associated with the location also exhibited PAH concentrations indicating a possible release to the subsurface. The highest concentrations of PAHs were generally reported in the sludge sample collected from the silo structure at the

NIKE Base. Additional SVOCs were reported in concentrations exceeding the PRG. The highest concentrations were reported in sludge samples collected from the WWTP.

Concentrations of PCBs were reported in subsurface soil samples collected from WM property (Aroclor 1260) and in the sludge sample collected from Somerset Group property (Aroclor 1254).

Although the features at the WWTP and NIKE Base appear to be most heavily impacted with generally the greatest concentration of constituents, no clear discernible trend was visible in the results for the drains, pits, sumps, and vaults.

A summary of the COPCs identified for each matrix, based on exceedance of screening values (see Chapter 4) is provided below.

COPCs in Sludge

Thirty three COPCs are identified in sludge for the drains, pits, vaults, and sumps based on the residential soil Region 9 PRG screen: aluminum, antimony, arsenic, barium, boron, cadmium, chromium, copper, lead, manganese, mercury, silver, vanadium, zinc, Aroclor 1254, 4,4'-DDD, heptachlor epoxide, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, pyrene, 1,2-benzphenanthracene, bis(2-ethylhexyl)phthalate, dibenzofuran, hexachlorobenzene, 1,1,2,2-tetrachloroethane, and toluene. PAHs and pesticides concentrations are likely from non-point sources with likely contribution from DOD and non-DOD sources.

Twenty two COPCs are identified in sludge on WM property for the drains, pits, vaults, and sumps based on the industrial soil Region 9 PRG screen: aluminum, arsenic, cadmium, chromium, lead, manganese, mercury, zinc, Aroclor 1254, heptachlor epoxide, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, 1,2-benzphenanthracene, bis(2-ethylhexyl)phthalate, 1,1,2,2-tetrachloroethane, and toluene.

COPCs in Soil

Eight COPCs are identified in soil for the drains, pits, vaults, and sumps based on the residential soil Region 9 PRG screen: aluminum, arsenic, chromium, manganese, vanadium, Aroclor 1260, dieldrin, and benzo(a)pyrene. None of the COPC metals exceed background concentrations.

Five COPCs are identified in total soil for the Dry Well, Pit, Vaults, and Sumps based on the industrial soil Region 9 PRG screen: aluminum, arsenic, Aroclor 1260, dieldrin, and benzo(a)pyrene. None of the COPC metals exceed background concentrations.

<u>COPCs in Wastewater</u>

Nineteen COPCs are identified in wastewater for the drains, pits, vaults, and sumps based on comparison to the Region 9 tap water PRG screen: aluminum, antimony, arsenic, cadmium, chromium, lead, lithium, manganese, vanadium, dieldrin, heptachlor epoxide, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, phenanthrene, PCE, and TCE.

5.3.4 Sanitary Sewer Lines

A total of 91 samples were collected for laboratory analyses as described in Section 2.2.3 of this UURI. The samples collected are located on the Somerset Group property, the Waste Management property and the Town of Lewiston property.

During construction of the TNT plant, main sanitary sewer lines and WWTP were put in place. Following the closure of LOOW, additional sewer lines were placed during the construction of AFP-68. These lines tied into the LOOW sanitary sewer lines at a point just west of the existing nitration houses. Final disposition of sanitary waste for the majority of AFP-68 was the WWTP. However, during the UURI temporary septic tanks were located in Process Areas 10, 29, and T1T2. Final disposition for sanitary waste entering these tanks was the CDD.

It appears as though the control area of the NIKE Base may have used an on-site treatment system not connected to LOOW or AFP-68 sanitary sewer lines. The silo structure located in the control area may have been used for treatment and settling of sanitary wastes.

Generally, the lines associated with AFP-68 process areas located in the northwestern portion of WM property (Process Areas 29, 35, and 39) are the most up gradient. The main line from these areas trends east across the CDD onto the Somerset Group property. These lines terminated in sewage pump station located in the southeast corner of the Somerset Group property. From there, the sanitary sewer line trended south to a manhole just south of M Street, then southwest to a manhole west of Campbell, and west to the former pump house at the WWTP.

Additional information on line direction, flow direction and final potential fate of contaminants from physical transport is presented in Chapter 6.

5.3.4.1 Sanitary Sewer Lines on Somerset Group Property

A total of 11 samples were collected from within or beneath the sanitary sewer lines located on the Somerset Group property. A surface soil sample was also collected from an outfall associated with a temporary septic tank and drain field. Figure 5-20 illustrates the sample locations, sample matrices collected from each location, and summary of results exceeding comparison criteria for samples collected from the sanitary sewer lines on the Somerset Group property. Those samples collected in the up gradient portion of the sanitary sewer line on WM property (AFP-68 Process Areas 29, 35, and 39) are also illustrated on this figure. Tables 5-6, 5-10, 5-14, and 5-17 summarize the reported results for samples collected on the Somerset Group property.

The excavation performed at the most up gradient point on the sanitary sewer line on Somerset Group property was SOM-X32. The other excavations from which samples associated with the sanitary sewer line were collected, in order from up gradient to down gradient, are: SOM-X33, X30, X15, X28, X27 and X26. Locations SOM-X33 and SOM-X27 (part 1) are secondary lines encountered adjacent to Buildings 41-01 and 5-01, respectively. The sanitary sewer lines were observed to be 4 to 8.5 ft bgs on the Somerset Group property.

The following summarizes the number of samples collected for each matrix:

- One sludge sample from excavation SOM-X28 located in AFP-68 Area 31.
- One wastewater sample from each of six locations was collected: SOM-X26 located in AFP-68 Area 3, SOM-X27 located in AFP-68 Area 5, SOM-X28 located in AFP-68 Area 31, SOM-X30 located in Area 31, and SOM-X32 and SOM X-33 located in AFP-68 Area 41.
- One surface soil sample from outfall location SOM-OF01 located in the CDD east of AFP-68 Area 29.
- Four subsurface soil samples collected from excavation SOM-X26 located in AFP-68 Area 3, SOM-X28 located in Area 31, SOM-X30 located in Area 31, and SOM-X33 located in AFP-68 Area 41.

Results of VOC Analysis

No VOCs were reported above their respective PRG criteria from the one sludge sample collected from within the sanitary sewer lines on the Somerset Group property.

Two VOCs were reported above their respective PRG and TOG from two of the six wastewater samples. These samples are:

- Sample C7-SOM-WW-X28-SN01-7 → cis-1,2-dichoroethene and vinyl chloride were reported at concentrations above the PRG and TOG. This sample was collected from within the sanitary sewer manhole (SN 5/7) located just north of excavation X28.
- Sample C7-SOM-WW-X30-SN01-7.5 → cis-1,2-dichoroethene and vinyl chloride were reported at concentrations above the PRG and TOG. This sample was collected from within the south trending sanitary sewer main. Cis-1,2-dichoroethene was also reported in the subsurface soil sample at this location.

The reported VOCs in the remaining wastewater samples did not exceed the PRG and/or TOG.

No VOCs were reported above their respective PRG criteria from the four subsurface soil samples or the one surface soil sample (C7-SOM-SS-OF01-SN01-0.5) collected from the sanitary sewer outfall located on the west bank slope of the CDD.

Results of SVOCs and PAHs

A PAH compound, benzo[a]pyrene, was reported at a concentration exceeding the PRG criteria from the sludge sample C7-SOM-SL-X28-SN01-10. This sample was collected from the same location as the wastewater sample discussed above. SVOCs and PAHs were reported above their respective PRG and/or TOG criteria from five of the six wastewater samples. These samples are:

- Sample C7-SOM-WW-X27-SN01-5 → Bis(2-ethylhexyl)phthalate was reported at a concentration above the TOG only. This sample was collected from within a 4-in. diameter terracotta pipe, trending south out of Building 5-01.
- Sample C7-SOM-WW-X28-SN01-7 → 1,4-dichlorobenzene, bis(2-ethylhexyl)phthalate, and pentachlorophenol were reported at concentrations above the PRG and/or TOG, respectively.

- Sample C7-SOM-WW-X30-SN01-7.5 → SVOCs and PAHs were reported at concentrations above the PRG and/or TOG. Of the wastewater samples collected from sanitary sewer lines on Somerset Group property, this sample was the most heavily impacted with constituents exceed the PRG.
- Sample C7-SOM-WW-X32-SN01-4 → Bis(2-ethylhexyl)phthalate and pentachlorophenol were reported at concentrations above the PRG and/or TOG.
- Sample C7-SOM-WW-X33-SN01-4 → 1,2-benzphenanthracene, benz[a]anthracene, and bis(2-ethylhexyl)phthalate were reported at concentrations above the PRG and/or TOG. This sample was collected from the water in the trench due to a crack in the pipe causing the water to spill into the trench.

No SVOCs or PAHs were reported above their respective PRG criteria from outfall surface soil sample.

A PAH compound, benzo[a]pyrene, was reported at a concentration exceeding the PRG criteria from the subsurface soil sample C7-SOM-SO-X33-SN01-4.5. This sample was collected from the same location as the wastewater sample discussed above. Generally the concentrations reported in the subsurface soil sample were greater then those reported in the wastewater sample.

Results of Pesticides

No pesticides were reported above their respective PRG from the one sludge sample.

Pesticides were reported in each of the wastewater samples. The report concentration of 4,4'-DDT exceeded the PRG from the wastewater sample C7-SOM-WW-X30-SN01-7.5. Additional pesticides (4,4'-DDD and 4.4'-DDE) were reported in concentrations exceeding the TOG in C7-SOM-WW-X30-SN01-7.5 and C7-SOM-WW-X33-SN01-4 .

No pesticides were reported at concentrations exceeding the PRG from the surface soil sample or the four subsurface soil samples.

Results of PCBs

No PCBs were reported above in the one sludge sample, six wastewater samples, or four subsurface soil samples associated with that sanitary sewer lines on Somerset Group property. Aroclor 1260 was reported in the surface soil sample collected from beneath the outfall within the CDD.

Results of Explosives

With the exception of 4-nitrotoluene reported in the subsurface soil from SOM-X26, explosive compounds were not reported in the samples associated with the sanitary sewer line on Somerset Group property.

Results of Metals

Six metals were reported in the one sludge sample C7-SOM-SL-X28-SN01-10 at concentrations exceeding the PRG.

Sixteen metals were reported in the six wastewater samples at concentrations exceeding the PRG. In addition, 11 metals were reported in the six wastewater samples at concentrations exceeding the TOG as illustrated on Figure 5-20.

Reported concentrations of antimony, arsenic, mercury, silver, sodium, and thallium in the combined surface and subsurface soil data set associated with sanitary sewer lines exceeded the background (Table 5-23). Six metals were reported in the one surface soil sample C7-SOM-SS-OF01-SN01-0.5 at concentrations exceeding the PRG. These metals are aluminum, arsenic, chromium, iron, manganese, and vanadium. Of these, manganese and vanadium were also detected above the background concentration.

Five metals were reported in the four subsurface soil samples at concentrations exceeding the PRG. These metals are aluminum, arsenic, iron, manganese, and vanadium. Of these, manganese and vanadium also exceeded the background concentration (Table 5-23).

5.3.4.2 Sanitary Sewer Lines on Waste Management Property

A total of 70 samples were collected from within, above, or below the sanitary sewer lines located on the WM property. In addition, one surface soil sample was collected from an outfall associated with a temporary septic tank. Figures 5-3 through 5-9 present an overview of the excavation locations. Figures 5-13, 5-15, 5-20, and 5-25 illustrate the sample locations, sample matrices collected from each location, and summary of results exceeding comparison criteria for samples collected from the sanitary sewer lines on the WM property. Tables 5-5, 5-7, 5-13, and 5-16 summarize the reported results.

The most up gradient portion of the sanitary sewer serviced the former AFP-68 Process Areas 29, 35, and 39 and is located in the northwestern portion of WM property (Figure 5-20) (excavations CWM-X03, X04, X05, and X06). Also in this area is a temporary septic tank and drain field (CWM-X01, X02) which discharges to an outfall in the CDD on the Somerset Group property (see Section5.3.4.1). The line traverses Somerset Group property and reenters WM property north of Process Area 4 (Figure 5-16), turns east along the south side of Pine Street (excavations CWM-X65, X64, X63), reenters Somerset Group property and terminates in a sanitary sewer pumping station in the southeast corner of Somerset Group property. From the pumping station the traverses south onto WM property (just east of Cedar Street, excavations CWM-X55) and ties into the LOOW sanitary sewer. From there the main continues south of M Street (excavations CWM-X104, X103, X100-X97) and to eventual termination at the WWTP. The sanitary sewer lines were observed to be 4 to 14 ft bgs on this portion of the WM property.

Major secondary lines enter the sanitary sewer from Process Area 7 (CWM-X58, X53), Process Area 22 (CWM-X27), Process Area 8 (CWM-X48, X42), Process Area 2 (CWM-X31, X32), Process Area 20 (CWM-X39, X40, X41), and the LOOW Nitration House area (CWM-X83, X86). The sanitary sewer lines were observed to be 3 to 7 ft bgs on this portion of the WM property.

A temporary septic tank was also encountered in Process Area 10 (CWM-X14) at approximately 5 ft bgs. This tank discharges to the CDD. A surface soil sample was collected from this outfall location (CWM-SS-OF08).

The former NIKE Base appeared to have an on-site sanitary sewer treatment facility (the silo structure) located at approximately 13.5 ft bgs, Figure 5-25. What appeared to be injector pits, associated with the NIKE Base sanitary sewer, were targeted for sampling (CWM-X114). The silo structure was also sampled, but is discussed under the drains, pits, and sumps section (see Section 5.3.3.2).

The following summarizes the number of samples collected for each matrix:

- 16 sludge samples collected from various excavations in Areas 29, 39, 35, 10, 2, 20, 8, 7, Nitration House, and south of M Street.
- 19 wastewater samples collected from various excavations in Areas 29, 10, 22, 20, 4, Nitration House, and south of M Street.
- One surface soil sample collected from the outfall location OF08 located in AFP-68 Area 10.
- 35 subsurface soil samples collected from various excavations in Areas 29, 39, 35, 10, 22, 2, 20, 8, 7, 4, Nitration House, south of M Street, and northern portion of the control area of the NIKE Base.

Results of VOC Analysis

Two VOCs (chloroform and PCE) were reported above their respective PRG criteria from 1 of the 16 sludge samples. This sample is C7-CWM-SL-X103-SN01-12 was collected from a sanitary sewer manhole located 9-ft to the southwest of the excavation X103. The remaining VOC constituents reported in the sludge samples were not reported above their respective PRG criteria.

VOCs were reported above the PRG and/or TOG criteria from 5 of the 19 wastewater samples. These samples are:

- Sample C7-CWM-WW-X41-SN01-6 → 8 VOCs was reported at concentrations above their PRG and/or TOG. This sample was collected from within a 6-in. diameter terracotta pipe, trending east-west within Process Area 20.
- Sample C7-CWM-WW-X86-SN01-6 → 12 VOCs was reported at concentrations above their PRG and/or TOG. This sample was collected from within an 8-in. diameter terracotta pipe, trending east-west, and positioned 9-ft north of the Mononitration House.
- Sample C7-CWM-WW-X101-SN01-13.5 → 10 VOCs was reported at concentrations above their PRG and/or TOG. This sample was collected from within the concrete encased line south of M Street.
- Sample C7-CWM-WW-X103-SN01-12 → 15 VOCs was reported at concentrations above their PRG and/or TOG. This sample was collected the sanitary sewer line south of M Street.
- Sample C7-CWM-WW-X104-SN01-13 → 21 VOCs was reported at concentrations above their PRG and/or TOG. This sample was collected the concrete encased sanitary sewer line south of M Street.

No VOCs were reported at concentrations above their respective from the surface soil sample C7-CWM-SS-OF08-SN01-0.5 collected from the outfall located on the east bank of the CDD.

No VOCs were reported at concentrations above their respective PRG from the 35 subsurface soil samples.

VOCs exceeded the PRG criteria in one sludge and five wastewater samples.

Results of SVOCs and PAHs

The laboratory analysis reported that 7 of the 16 sludge samples exceeded their respective PRG for SVOCs and PAHs. These samples are:

- Sample C7-CWM-SL-X03-SN01-4.5 → Benzo[a]pyrene was reported at a concentration above the PRG. This sample was collected from inside a sanitary sewer manhole located 33-ft west of the excavation X03, located in the up gradient portion of the sanitary sewer line, in Process Area 29.
- Sample C7-CWM-SL-X05-SN01-4 → Benzo[a]pyrene was reported at a concentration above the PRG. This sample was collected from inside a sanitary sewer manhole located 14-ft east of the excavation X05, located in the up gradient portion of the sanitary sewer line, in Process Area 39.
- Sample C7-CWM-SL-X032-SN01-3 → Benzo[a]pyrene was reported at a concentration above the PRG. This sample was collected from the junction of a 4-in. terracotta pipe located off the northeast corner of Building 2-01.
- Sample C7-CWM-SL-X41-SN01-6 → Hexachlorobenzene was reported at a concentration above the PRG. This location is in Process Area 20.
- Sample C7-CWM-SL-X48-SN01-2 → Benzo[a]pyrene was reported at a concentration above the PRG. This sample was collected from inside a 4-in. diameter terracotta pipe, trending east, encased in concrete, and originating from AFP-68 Building 8-01.
- Sample C7-CWM-SL-X53-SN01-7 → Benzo[a]pyrene was reported at a concentration above the PRG. This sample was collected from inside a sanitary sewer manhole (SN-16) located 5-ft west of the excavation X53, in Process Area 7.
- Sample C7-CWM-SL-X55-SN01-7 → Benzo[a]pyrene was reported at a concentration above the PRG. This sample was collected from inside a 6-in. diameter cast iron force main for the sanitary sewer, trending south.

The constituents reported in the remaining sludge samples were not reported at concentrations above their PRG. The laboratory analysis reported that 8 of the 19 wastewater samples exceeded their respective PRG criteria for SVOCs and PAHs. These samples are as follows:

- Sample C7-CWM-WW-X02-SN01-7 → 7 SVOCs and PAHs was reported concentrations above their PRG criteria. This sample was collected from within a wooden septic tank in Process Area 29. This tank is not connected to the main AFP-68 sanitary sewer.

- Sample C7-CWM-WW-X04-SN01-4 → Benz[a]anthracene and bis(2-ethylhexyl)phthalate concentrations were reported above the PRG criteria. This sample was collected from a 6-in. diameter terracotta pipe, trending north-south in Process Area 29.
- Sample C7-CWM-WW-X41-SN01-6 → 1,2,4-trichlorobenzene, bis(2-ethylhexyl)phthalate, and hexachlorobenzene concentrations were reported above their respective PRG criteria. This sample was collected from a secondary line in Area 20.
- Sample C7-CWM-WW-X66-SN01-5 → bis(2-ethylhexyl)phthalate concentration was reported above the PRG criteria. This sample was collected from inside a 4-in. diameter terracotta pipe, trending north, and located 35-ft east of the northwest corner of Building 4-01.
- Sample C7-CWM-WW-X86-SN01-6 → 1,2,4-tricholorbenzene, 1,4-dichlorobenzene, and hexachlorobenzene concentrations were reported above their respective PRG criteria. This sample was collected from a LOOW sanitary sewer line encountered in the Nitration House area (Figure 5-16).
- Sample C7-CWM-WW-X101-SN01-13.5 → 1,2,4-tricholorobenzene, 1,4-dichlorobenzene, 2-methylnaphthalene, and naphthalene concentrations were reported above their respective PRG criteria. This sample was collected from the main line South of M Street.
- Sample C7-CWM-WW-X103-SN01-12 → 1,2,4-trichlorobenzene and 1,4-dichlorobenzene concentrations were reported above the PRG criteria. This sample was collected from the same location as the sludge sample discussed above. This sample was collected from the main line South of M Street.
- Sample C7-CWM-WW-X104-SN01-12 → 10 SVOCs and PAHs concentrations were reported above the PRG criteria. This sample was collected from the main line South of M Street.

The constituents reported in the remaining wastewater samples were not reported at concentrations above their PRG. However, some SVOCs, primarily PAHs were reported at concentrations exceeding the TOG.

No SVOCs or PAHs were reported above their respective PRG criteria from the one surface soil sample collected from the outfall in Process Are 10 (C7-CWM-SS-OF08-SN01-0.5).

However, benzo[a]pyrene and dibenz[a,h]anthracene were reported above their TOG criteria Figure 5-16.

The laboratory analysis reported PAHs exceeded their respective PRG criteria in 1 of the 35 subsurface soil samples. This sample is:

- Sample C7-CWM-SO-X04-SN01-4.5 → benz[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, and dibenz[a,h]anthracene were reported at concentrations above their respective PRG. This sample was collected from beneath the 6-in. diameter terracotta pipe in the same location as the wastewater sample discussed above.

It is important to note that one of the duplicate samples collected from sample C7-CWM-SO-DUP9 had an exceedance above the PRG for benzo[a]pyrene. The parent sample C7-CWM-SO-X15-SN01-2 did not have an exceedance above the PRG for this compound.

Results of Pesticides

Pesticides were reported above their respective PRG criteria from 1 of the 16 sludge samples. These samples are:

- Sample C7-CWM-SL-X41-SN01-6 → 4,4'-DDE, 4,4'-DDT, dieldrin, and endrin aldehyde were reported at concentrations above their respective PRG. This sample was collected from the same location as the wastewater sample discussed above.

The constituents reported in the remaining sludge samples did not exceed their PRG for pesticides.

Reported pesticides in 7 of the 19 wastewater samples exceeded their respective PRG and TOG. These samples are as follows:

- Sample C7-CWM-WW-X02-SN01-7 → Heptachlor epoxide was reported at an estimated concentration above the PRG and TOG criteria. This sample was collected from the up gradient portion of the sanitary sewer in the northwest area of WM.
- Sample C7-CWM-WW-X03-SN01-4.5 → Heptachlor epoxide concentration was reported above the PRG and TOG criteria. This sample was collected from the up gradient portion of the sanitary sewer in the northwest area of WM.

- Sample C7-CWM-WW-X04-SN01-4 → Heptachlor epoxide concentration was reported above the PRG and TOG criteria. This sample was collected from the up gradient portion of the sanitary sewer in the northwest area of WM.
- Sample C7-CWM-WW-X14-SN01-8 → Heptachlor epoxide concentration was reported above the PRG and TOG criteria. This sample was collected from within the septic tank in Process Area 10.
- Sample C7-CWM-WW-X27-SN01-7 → Heptachlor epoxide concentration was reported above the PRG and TOG criteria. This sample was collected from inside a 12-in. diameter terracotta pipe exiting south from Building 22-01.
- Sample C7-CWM-WW-X65-SN01-12 → Heptachlor concentration was reported above the PRG and TOG criteria. This sample was collected from a sanitary sewer manhole (SN-7) located 5-ft west of excavation X65, north of Process Area 4.
- Sample C7-CWM-WW-X86-SN01-6 → Alpha-BHC, Delta-BHC, and Gamma-BHC concentrations were reported above the PRG and TOG criteria. This sample was collected from the LOOW sanitary sewer in the existing Nitration House area.

The constituents reported in the remaining wastewater samples did not exceed their PRG and/or TOG for pesticides.

No pesticides were reported above their respective PRG from the one surface soil sample collected from the outfall (OF08) in the CDD on the WM property.

No pesticides were reported above their respective PRG from the 35 subsurface soil samples.

Results of PCBs

Two PCB Aroclors were reported at concentrations exceeding the PRG from 2 of the 16 sludge samples. These samples are:

- C7-CWM-SL-X05-SN01-4→ Aroclor 1242 was reported at a concentration above the PRG. This sample was collected from the up gradient portion of the sanitary sewer in the northwest area of WM.
- C7-CWM-SL-X41-SN01-6→ Aroclor 1260 was reported at a concentration above the PRG. This sample was collected from a secondary line within Area 20.

The constituents reported in the remaining sludge samples did not exceed their PRGs for PCBs.

One PCB Aroclor, Aroclor 1260 was reported at concentrations exceeding the PRG from the wastewater sample C7-CWM-WW-X41-SN01-6, collected from the secondary line in Process Area 20. The constituents reported in the remaining wastewater samples did not exceed their PRG and/or TOG for PCBs.

No PCB Aroclors were reported above their respective PRG criteria in the one surface soil sample.

One PCB Aroclor, Aroclor 1260 was reported at an estimated concentration exceeding the PRG from the subsurface soil sample C7-CWM-SO-X42-SN01-3. This sample was collected from beneath a 6-in. diameter terracotta pipe, trending east-west from the bermed tank area in Process Area 8. Sludge and wastewater were not encountered at this location. Therefore it is difficult to determine if the PCBs were due to impact from pipeline contents. Aroclor 1260 was reported in three additional subsurface soil samples collected from Process Areas 8 and 20 (CWM-X39, X40, and X53). Aroclor 1260 was also reported in sludge collected from CMW-X39 and CWM-X53, indicating possible impact to the subsurface soil from the interior contents of the sanitary sewer line at these locations.

Results of Explosives

No explosives were reported above their respective PRG criteria in the 16 sludge samples.

Explosive compounds were reported at concentrations above their respective PRG and/or TOG from 2 of the 19 wastewater samples. These samples are:

- C7-CWM-WW-X101-SN01-13.5→ 4-Nitrotoluene was reported at a concentration above the PRG.
- C7-CWM-WW-X104-SN01-13→ 2,6-Dinitrotoluene was reported at a concentration above the PRG and TOG.

No explosives were reported above their respective PRG from the one surface soil sample or the 35 subsurface soil samples.

The explosive compounds exceeding the PRG reported in the two wastewater samples were not reported in the subsurface soil samples.

Results of Metals and Cyanide

No cyanide concentrations were reported above their PRG or TOG criteria from the 16 sludge samples, 19 wastewater samples, one surface soil sample, and 35 subsurface soil samples.

Metals were reported at concentrations exceeding their PRG in the 16 sludge samples. These metals are aluminum, arsenic, chromium, copper, iron, lead, manganese, mercury, and vanadium. These metals were reported in soil samples collected from the following excavations:

- Aluminum → Excavation CWM-X05, CWM-X06, CWM-X39, CWM-X41, CWM-X53, CWM-X55, CWM-X97, and CWM-X106
- Arsenic → Excavation CWM-X02, CWM-X03, CWM-X05, CWM-X06, CWM-X14, CWM-X32, CWM-X39 through CWM-X41, CWM-X48, CWM-X53, CWM-X55, CWM-X83, CWM-X97, CWM-X103, and CWM-X106
- Chromium → Excavation CWM-X03, CWM-X05, CWM-X32, CWM-X39, CWM-X41, CWM-X53, CWM-X55, and CWM-X97
- Copper → Excavation CWM-X55
- Iron → Excavation CWM-X02, CWM-X03, CWM-X05, CWM-X06, CWM-X14, CWM-X32, CWM-X39 through CWM-X41, CWM-X48, CWM-X53, CWM-X55, CWM-X83, CWM-X97, CWM-X103, and CWM-X106
- Lead → Excavation CWM-X48
- Manganese → Excavation CWM-X55
- Mercury → Excavation CWM-X32 and CWM-X48
- Vanadium → Excavation CWM-X55

The reported metals in the remaining sludge samples did not exceed the PRG.

Metals were reported in the 19 wastewater samples at concentrations exceeding their PRG. These metals are aluminum, antimony, arsenic, barium, boron, cadmium, chromium, copper, iron, lead, lithium, manganese, molybdenum, mercury, and vanadium.

Iron was the only metal that was reported at a concentration exceeding the PRG in the surface soil sample C7-CWM-SS-OF08-SN01-0.5. However, iron concentrations in the data set associated with sanitary sewer lines did not exceed background (Table 5-23). Additional metals were reported, but did not exceed their respective PRG.

Metals were reported at concentrations exceeding their PRG in the 35 subsurface soil samples. These metals are aluminum, arsenic, chromium, and iron. However, statistical background evaluation of metals concentrations reported in subsurface soil samples associated with the sanitary sewer lines indicates that the metals exceeding the PRG did not exceed background (Table 5-23). The metals reported in soil samples in concentrations exceeding the PRG were collected from the following excavations:

- Aluminum → Excavation CWM-X01 through X06, CWM-X14, CWM-X15, CWM-X27, CWM-X32, CWM-X40 through CWM-X42, CWM-X48, CWM-X53, CWM-X58, CWM-X63 through CWM-X66, CWM-X97, CWM-X100, CWM-X101, CWM-X104, CWM-X106, and CWM-X114
- Arsenic → Excavation CWM-X01 through X06, CWM-X14, CWM-X15, CWM-X31, CWM-X32, CWM-X39 through CWM-X42, CWM-X48, CWM-X53, CWM-X55, CWM-X58, CWM-X63 through CWM-X66, CWM-X83, CWM-X86, CWM-X97 through CWM-X101, CWM-X104, CWM-X105, and CWM-X114
- Chromium → Excavation CWM-X101
- Iron → Excavation CWM-X01 through X06, CWM-X14, CWM-X15, CWM-X27, CWM-X31, CWM-X32, CWM-X39 through CWM-X42, CWM-X48, CWM-X53, CWM-X55, CWM-X58, CWM-X63 through CWM-X66, CWM-X83, CWM-X86, CWM-X97 through CWM-X106, and CWM-X114

Additional metals were reported but did not exceed their respective PRG.

5.3.4.3 Sanitary Sewer Lines on the Town of Lewiston Property

A total of eight samples were collected from within or below the sanitary sewer lines located on the Town of Lewiston property. Figure 5-2 illustrates the general locations of the excavations on Town of Lewiston property. Figure 5-11illustrates the sample locations, sample matrices collected from each location, and summary of results exceeding comparison criteria for samples collected from the lines on the Town of Lewiston property. Tables 5-8 and 5-12 summarize the reported analytical results.

The LOOW WWTP is located on the property currently owned by the Town of Lewiston. The WWTP received sanitary sewage from the former LOOW TNT plant as well as AFP-68 via a main westward trending line entering the property (LEW-X01) from WM property to the east (CWM-X97). The main line terminated in the pump house, which has been destroyed. Waste entering the pump house (LEW-X02) was pumped into the Imhoff tank where it was allowed to settle. Liquid wastewater was then release to the chlorine contact tank (LEW-X04), through the collection tank (LEW-X05), to the final mixing tank prior to discharge through the 30-in. outfall line. Sludge was discharged to sludge beds located adjacent to the Imhoff tank. A secondary drain conveyed liquid from the sludge beds to the chlorine contact tank (LEW-X03). Several of these tanks as well as the sludge bed were included in the UURI as drains, pits, sumps, and vaults and are discussed in Section 5.3.3.3. The sanitary sewer lines were observed to be approximately 5.5 to 14 ft bgs on the Town of Lewiston property.

The following summarizes the number of samples collected for each matrix:

- One sludge sample collected from excavation LEW-X03.
- One wastewater sample was collected from sanitary sewer lines encountered in excavations LEW-X01 and LEW-X02.
- A subsurface soil sample was collected from each of the five excavations, LEW-X01 through LEW-X05.

Results of VOC Analysis

No VOCs were reported above their respective PRG or TOG criteria from the one sludge sample, two wastewater samples, and the five subsurface soil samples collected from within or beneath the sanitary sewer lines or collection tanks on the Town of Lewiston property. Note however, that concentrations of VOCs exceeding the PRG were reported in the sludge samples collected from within the chlorine contact tank and Imhoff tank (see Section 5.3.3.3).

Results of SVOCs and PAHs

No SVOCs or PAHs were reported above their respective PRG criteria from the one sludge sample, two wastewater samples, and the five subsurface soil samples collected from within, beneath the sanitary sewer line or collection tanks on the Town of Lewiston property. However, a PAH compound (bis[2-ethylhexyl] phthalate) was reported in the two wastewater samples at concentrations exceeding the TOG as illustrated in Figure 5-11. Note, however, that concentrations of PAHs exceeding the PRG were reported in the sludge samples collected from within the chlorine contact tank and Imhoff tank (see Section 5.3.3.3).

Results of Pesticides

No pesticides were reported above their respective PRGs from the one sludge sample collected from within a sanitary sewer line on the Town of Lewiston property.

The laboratory analysis indicated that a reported pesticide in both of the wastewater samples exceeded their respective PRG and TOG. These samples are:

- Sample C7-LEW-WW-X01-SN01-14 → Heptachlor epoxide concentration was reported above the PRG and TOG criteria. This sample was collected from within a concrete encased, 30-in. diameter terracotta sanitary sewer.
- Sample C7-LEW-WW-X02-SN01-9 → Heptachlor epoxide concentration was reported above the PRG and TOG criteria. This sample was collected from within an 8-in. diameter terracotta pipe, trending east-west.

This pesticide was not reported in the wastewater samples collected up gradient locations along the sanitary sewer main (CMW-X97 through CWM-X104). Constituents reported in the remaining wastewater samples did not exceed their respective PRGs and/or TOG.

No pesticides were reported above their respective PRG from the five subsurface soil samples collected from beneath the sanitary sewer lines on the Town of Lewiston property.

Results of PCBs

No PCBs were reported in samples associated with sanitary sewer lines on the Town of Lewiston property.

Results of Explosives

No explosives were reported above their respective PRG or TOG criteria from the one sludge sample, two wastewater samples, or the five subsurface soil samples. Nitrobenzene was reported in the sludge and soil sample collected from LEW-X03 in concentrations that did not exceed screening criteria.

Results of Metals

Metals were reported in the one sludge sample at concentrations exceeding their PRG. This sample is:

- Sample C7-LEW-SL-X03-SN01-5.5 →aluminum, arsenic, chromium, iron, manganese, and vanadium concentrations were reported above their PRG. This sample was collected from inside the 6-in. diameter terracotta pipe trending north from the sludge bed.

Metals were reported in both wastewater samples at concentrations exceeding their PRG and/or TOG. These samples are:

- Sample C7-LEW-WW-X01-SN01-14 →aluminum, arsenic, chromium, cobalt, iron, magnesium, manganese, and vanadium concentrations were reported above their PRG and/or TOG.
- Sample C7-LEW-WW-X02-SN01-9→aluminum, arsenic, iron, manganese, and vanadium concentrations were reported above their PRG and/or TOG.

Metals were reported in concentrations exceeding their PRG in the five subsurface soil samples, as listed below. Metals reported in subsurface soil associated with sanitary sewer lines that were statistically greater in concentration than background soil concentrations are signified by bold text (Table 5-23). Metals exceeding both the PRG and background may represent a concern.

- Sample C7-LEW-SO-X01-SN01-16 →aluminum, arsenic, chromium, iron, **manganese**, and **vanadium** concentrations were reported above their PRG. This sample was collected from beneath the concrete encasement in the same location as the wastewater sample discussed above.
- Sample C7-LEW-SO-X02-SN01-10→aluminum, arsenic, iron, **manganese**, and **vanadium** concentrations were reported above their PRG. This sample was collected from beneath the 8-in. diameter terracotta pipe in the same location as the wastewater sample discussed above.
- Sample C7-LEW-SO-X03-SN01-6→aluminum, arsenic, iron, **manganese**, and **vanadium** concentrations were reported above their PRG. This sample was collected

from the beneath the 6-in. diameter terracotta pipe in the same location as the sludge sample discussed above.

- Sample C7-LEW-SO-X04-SN01-4→aluminum, arsenic, iron, **manganese**, and **vanadium** concentrations were reported above their PRG. This sample was collected from the beneath the concrete foundation that encased an 18-in. diameter terracotta pipe, trending north-south.
- Sample C7-LEW-SO-X05-SN01-5→aluminum, arsenic, iron, **manganese**, and **vanadium** concentrations were reported above their PRG. This sample was collected at 5-ft below ground surface from an 18-in. diameter terracotta pipe, trending north-south, encased in concrete.

The reported metals in the remaining subsurface soil samples did not exceed the PRG.

5.3.4.4 Sanitary Sewer Line Summary of Results

The following illustrates the constituents that exceeded the PRG in each matrix from each property.

SUMMARY OF SANITARY SEWER LINE PRG EXCEEDANCES

	Somerset Group property				WM property				Town of Lewiston property		
	SL	WW	SS	SO	SL	WW	SS	SO	SL	WW	SO
VOCs		✓			✓	✓					
SVOCs and PAHs	✓	✓		✓	✓	✓		✓			
Pesticides		✓			✓	✓				✓	
PCBs					✓	✓		✓			
Explosives						✓					
Metals	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

With the exception of PAHs and metals, very few constituents reported in sludge and wastewater were also reported in associated subsurface soil samples on Somerset Group property. These reported PAHs and metals in subsurface soil were ubiquitous throughout the area and may not represent in impact from the contents of the sanitary sewer. This was unexpected, as the main south trending trunk line of the sanitary sewer on Somerset property was observed to be in disrepair. Several cracks and breaches were observed along this section of the sanitary sewer during the UURI. A similar trend was observed on WM and Town of Lewiston property with the exception of CWM-X53, X39, and X55 with the southeast area of AFP-68 on WM property where the majority of PAHs, as well as Aroclor 1260, reported in sludge or wastewater samples and associated subsurface soil samples. The sanitary sewer line in these areas was also in disrepair. The portion of the sanitary sewer line south of M Street is encased in concrete, which may explain why subsurface soil in is this portion is not heavily impacted.

Generally, those portions of sanitary sewer observed to be most highly impacted include the upper portion south of M Street in the vicinity of excavations (CMW-X104, X103), in the existing Nitration House area (as illustrated by the results from the sludge sample collected in 1998 "C1-HN-SL-PIPE 1" [see Table 5-5]), the portions within Process Areas 2, 20, and 8, and the main trunk line east of Cedar Street. Portions of the main line on Somerset Group property have also been impacted with COPCs. Those areas that are most up gradient (Process Areas 29, 35, 39, and 22) appear to have the least impact.

A summary of the COPCs identified for each matrix, based on exceedance of screening values (see Chapter 4) is provided below.

COPCs in Soil

Sixteen COPCs are identified in total soil for the sanitary sewer line based on the residential soil Region 9 PRG screen: aluminum, arsenic, chromium, manganese, vanadium, Aroclor 1260, dieldrin, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, phenanthrene, hexachlorobenzene, and carbon tetrachloride. Manganese and vanadium also exceed background concentrations.

Sixteen COPCs are identified in total soil for the sanitary sewer line based on the industrial soil Region 9 PRG screen: aluminum, arsenic, chromium, Aroclor 1260, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene. Iron also exceeded the PRG, but because it is an essential nutrient, it is not a COPC.

COPCs in Sludge

Forty four COPCs are identified in sludge for the sanitary sewer line based on the residential soil Region 9 PRG screen: aluminum, antimony, arsenic, cadmium, chromium, cobalt, copper, lead, manganese, mercury, molybdenum, nickel, thallium, vanadium, aldrin, Aroclor 1242, Aroclor 1260, delta-BHC, gamma-chlordane, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, dieldrin, endrin, endrin aldehyde, heptachlor epoxide, methyoxychlor, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, bis(2-ethylhexyl)phthalate, hexachloro-1,3-butadiene, hexachlorobenzene, hexachlorocyclopentadiene, pentachlorophenol, chloroform, 1,2-dichloroethane, 1,4-dichlorobenzene, 1,1,2,2-tetrachloroethane, PCE, 1,1,2-TCA, and vinyl chloride.

Forty four COPCs are identified in sludge for the sanitary sewer line based on the industrial soil Region 9 PRG screen: aluminum, arsenic, cadmium, chromium, copper, lead, manganese, mercury, vanadium, aldrin, Aroclor 1242, Aroclor 1260, delta-BHC, gamma-chlordane, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, dieldrin, endrin, endrin aldehyde, heptachlor epoxide, benzo(a)pyrene, hexachloro-1,3-butadiene, hexachlorobenzene, hexachlorocyclopentadiene, pentachlorophenol, chloroform, and PCE.

COPCs in Wastewater

Fifty nine COPCs are identified in wastewater for the sanitary sewer line based on comparison to the Region 9 tap water PRG screen: aluminum, antimony, arsenic, barium, boron, cadmium, chromium, copper, lead, lithium, manganese, molybdenum, thallium, vanadium, zinc, Aroclor 1260, alpha-BHC, delta-BHC, gamma-BHC, 4,4'-DDT, heptachlor, heptachlor epoxide, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, 2-methylnaphthalene, naphthalene, phenanthrene, bis(2-ethylhexyl)phthalate, 2-chlorophenol, 1,2-dichlorobenzene, 1,4-dichlorobenzene, hexachlorobenzene, 4-methylphenol, pentachlorophenol, phenol, 1,2,4-trichlorobenzene, benzene, carbon disulfide, carbon tetrachloride, chlorobenzene, chloroform, 1,1-dichloroethane, 1,2-dichloroethane, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, methylene chloride, 1,1,2,2-tetrachloroethane, PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, toluene, vinyl chloride, m&p-xylene, and o-xylene.

5.3.5 The 30-Inch Outfall Line

A total of 30 samples were collected from within or below the 30-in. outfall line. In addition, a co-located surface water and sediment sample was collected from the SWDD where the 30-in. outfall crosses. This outfall line originates at the final mixing house of the WWTP on Town of Lewiston property and trends west through numerous property parcels. Those property owners included within the UURI project boundary include the Town of Lewiston, National Grid, Occidental Chemical Corporation, and Lewiston-Porter Central School

District. Originally, the outfall line discharged to the Niagara River. However, the line is currently owned by the Town of Lewiston. The Town has diverted the outfall and currently uses the portion down gradient of the Lewiston-Porter Central School District property for stormwater management. Figure 5-1 presents a general overview of the excavation locations and designations along the 30-in. outfall line. Figure 5-10 illustrates the sample locations, sample matrices collected from each location, and summary of results exceeding comparison criteria for samples collected from the lines on the OCC property. The 30-in. outfall line was observed from approximately 4 to 6 ft bgs. Tables 5-3, 5-7, 5-11, 5-18 and 5-19 summarize the reported results.

The following summarizes the number of samples collected for each matrix:

- Two sludge samples were collected. One was collected from within a manhole near excavation OCC-X11 (C7-OCC-SL-X11-MH01-5), which is located on the Lewiston-Porter Central School District property. The second was from the eastern terminus of the 30-in. outfall (OCC-X26) where two unknown underground lines were encountered.
- One sediment sample collected from the SWDD located on the Lewiston-Porter Central School District property.
- One surface water sample collected from the SWDD located on the Lewiston-Porter Central School District property.
- Three wastewater samples collected from excavations OCC-X12 through OCC-X13 located on the OCC property.
- 25 subsurface soil samples collected from excavations OCC-X01 through OCC-X25 located throughout the 30-in. Outfall Line property; where OCC-X25 is on the Town of Lewiston property.

Please note that the sediment and surface water samples collected from the SWDD were analyzed for designated DOD marker compounds: boron, lithium, and explosives. The analytical data did not indicate any constituents exceeding the PRG or TOG criteria for the DOD marker compounds.

Results of VOC Analysis

No VOCs were reported above their respective PRG or TOG criteria from the two sludge sample, three wastewater samples, and the 25 subsurface soil samples collected from within, between, or beneath the sanitary sewer lines on the OCC property.

Results of SVOCs and PAHs

PAH compounds were reported at concentrations exceeding the PRG from the two sludge samples.

- Sample C7-OCC-SL-X11-MH01-5 → Benz[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[k[fluoranthene, dibenz[a,h]anthracene, and indeno[1,2,3-cd]pyrene concentrations were reported above the PRG and TAGM criteria. This sample was collected from within a sanitary sewer manhole located in close proximity to excavation X-11.
- Sample C7-OCC-SL-X26-UN01-5.5 → Benzo[a]pyrene concentrations were reported above the PRG and TAGM criteria. Note that the line type code in the sample designation is incorrect. The line type was misinterpreted at the time of sampling and was later determined based on historical documentation. However, the original sample name is used in order to maintain the integrity of the legal chain-of-custody. The correct line type is presented in the header of the analytical summary table.

No SVOCs or PAHs were reported above their respective PRG or TOG criteria from the three wastewater samples collected from within the sanitary sewer line on the OCC property.

One PAH, benzo[a]pyrene exceeded the PRG in the sample collected beneath the unknown lines encountered in excavation OCC-X26 (C7-SO-X26-SN01-6). No other SVOC or PAH compounds were reported at concentrations exceeding the PRGs in the remaining subsurface soil samples.

Results of Pesticides

No pesticides were reported above their respective PRG from the two sludge samples.

The laboratory analysis indicated that a reported pesticide in one of the three wastewater samples exceeded the PRG. This sample is:

- Sample C7-OCC-WW-X14-SN01-5 → Aldrin concentration was reported above the PRG criteria. This sample was collected from between the black plastic liner and the 30-in. diameter terracotta pipe, which was encased in a concrete foundation.

No pesticides were reported above their respective PRG from the 25 subsurface soil samples collected from beneath the 30-in. outfall.

Results of PCBs

No PCBs were reported in samples associated with the 30-in. outfall.

Results of Explosives

Nitrobenzene was reported in two subsurface soil samples in concentrations that did not exceed the PRG. No explosives were reported the three wastewater or two sludge samples.

Results of Metals

Three metals were reported at concentrations exceeding their PRG from the one sludge sample C7-OCC-SL-X11-MH01-5. These metals are arsenic, iron, and manganese. Metals were reported in the three wastewater samples at concentrations exceeding their PRG and/or TOG. These samples are:

- Sample C7-OCC-WW-X12-SN01-5 →aluminum, arsenic, iron, manganese, and vanadium concentrations were reported above their PRG and/or TOG. This sample was collected between the black plastic liner and the 30-in. diameter terracotta pipe, encased in a concrete foundation.
- Sample C7-OCC-WW-X13-SN01-5 →aluminum, arsenic, chromium, cobalt, iron, manganese, and vanadium concentrations were reported above their PRG and/or TOG. This sample was collected between the black plastic liner and the 30-in. diameter terracotta pipe, encased in a concrete foundation.
- Sample C7-OCC-WW-X14-SN01-5 →aluminum, cobalt, iron, manganese, and vanadium concentrations were reported above their PRG and/or TOG. This sample was collected between the black plastic liner and the 30-in. diameter terracotta pipe, encased in a concrete foundation.

Metals were reported at concentrations exceeding their PRG in the 25 subsurface soil samples, as listed below. A background evaluation of metals reported in soil samples associated with sanitary sewer lines (which includes the data set from the 30-in. outfall line) indicated the following metals exceeded background: antimony, arsenic, mercury, silver, and sodium (an essential nutrient). Those metals exceeded both the PRG and the background are indicated in bold text below.

- **Aluminum** → Excavations OCC-X01 through OCC-X14, and OCC-X16 through OCC-X25
- **Arsenic** → Excavations OCC-X01 through OCC-X25
- **Chromium** → Excavations OCC-X10, OCC-X11, OCC-X13, OCC-X16 through OCC-X18, and OCC-X20
- **Iron** → Excavations OCC-X01 through OCC-X25
- **Manganese** → Excavations OCC-X01 through OCC-X25
- **Vanadium** → Excavations OCC-X01 through OCC-X25

The reported metals in the remaining subsurface soil samples did not exceed the PRGs.

5.3.5.1 30-In. Outfall Summary of Results

The following illustrates the constituents that exceeded the PRG in each matrix sampled on along the 30-in. outfall.

SUMMARY OF 30-IN. OUTFALL LINE PRG EXCEEDANCES

	30-in. Outfall Line Samples		
	SL	WW	SO
VOCs			
SVOCs and PAHs	✓		✓
Pesticides		✓	
PCBs			
Explosives			
Metals	✓	✓	✓

Although the 30-in. outfall line received wastes from the former LOOW and AFP-68, sampling results indicate that this line is the least impacted of the lines included in the UURI. Although there were some constituents reported in concentrations exceeding the screening values, the reported concentrations were less than those reported in matrices collected from other line types.

A summary of the COPCs identified for each matrix, based on exceedance of screening values (see Chapter 4) is provided below.

<u>COPCs in Subsurface soil</u>

Six COPCs are identified in subsurface soil for the 30-inch outfall based on the residential soil Region 9 PRG screen: aluminum, arsenic, chromium, manganese, vanadium, and benzo(a)pyrene. Aluminum, arsenic, chromium, manganese, and vanadium also exceed background concentrations. Iron also exceeded the PRG and background, but is not considered a COPC because it is an essential nutrient.

Two COPCs are identified in subsurface soil for the 30-inch outfall based on the industrial soil Region 9 PRG screen and also exceed background concentrations: aluminum and arsenic.

<u>COPCs in Sludge</u>

Twelve COPCs are identified in sludge for the 30-inch outfall based on the residential soil Region 9 PRG screen: aluminum, arsenic, chromium, manganese, mercury, vanadium, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, and indeno (1,2,3-cd)pyrene.

Eight COPCs are identified in sludge for the 30-inch outfall based on the industrial soil Region 9 PRG screen: aluminum, arsenic, chromium, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno (1,2,3-cd)pyrene.

<u>COPCs in Wastewater</u>

Six COPCs are identified in wastewater for the 30-inch outfall based on comparison to the Region 9 tap water PRG screen: aluminum, arsenic, chromium, manganese, vanadium, and aldrin.

No COPCs were identified in surface water or sediment.

5.3.6 Stormwater Lines

A total of three surface soil samples were collected from outfalls from stormwater lines discharging to the CDD. One subsurface soil and one wastewater were collected from the stormwater line encountered in CWM-X5 as well. Samples were submitted for laboratory analyses as described in Section 2.2.3 of this UURI. The samples collected are located on the Somerset Group property and the Waste Management property, which are summarized below. Additional information on line direction, flow direction and final potential fate of contaminants from physical transport is presented in Chapter 6.

5.3.6.1 Stormwater Lines Somerset Group Property

A total of three samples were collected from storm sewer lines located on the Somerset Group property. Figure 5-21 illustrate the sample locations, sample matrices collected from each location, and summary of results exceeding comparison criteria for samples collected from the lines. The following summarizes the number of samples collected for each matrix:

- Three surface soil samples collected from outfalls SOM-OF02 located in AFP-68 Area 29, SOM-OF03 located in AFP-68 Area 39, and SOM-OF04 located in AFP-68 Area 35.

Results of VOC Analysis

No VOCs were reported above the PRG criteria from the surface soil samples. Therefore, a release of VOCs had not occurred from these outfall locations in this area of the property.

Results of SVOCs and PAHs

SVOCs and PAHs were reported at concentrations exceeding the PRG criteria from two of the five surface soil samples. These samples are:

- Sample C7-SOM-SS-OF02-ST03-0.5 → Benzo[a]pyrene was reported above the PRG. This sample was collected from the outfall of a 12-in. diameter corrugated stormwater drain line located directly east of Building 29-01.
- Sample C7-SOM-SS-OF04-ST01-0.5 →Benz[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, dibenz[a,h]anthracene, indeno[1,2,3-cd]pyrene, and phenanthrene concentrations were reported above their PRG. This sample was

collected from the outfall of a 12-in. diameter terracotta wastewater line located east of the southeast corner of Building 35-01.

The remaining SVOC and PAH constituents reported in the surface soil samples were not detected above their PRGs.

Results of Pesticides

Pesticides were reported in concentrations that did not exceed the PRG.

Results of PCBs

Aroclor 1254 and 1260 were reported in concentration that did not exceed the PRG.

Results of Explosives

Nitrobenzene was reported in the surface soil sample collected from OF04 at a concentration that did not exceed the PRG.

Results of Metals

Metals were reported in the three surface soil samples at concentrations exceeding their PRG, as listed below. A background evaluation of metals reported in surface and subsurface soil samples associated with stormwater lines indicated the following metals exceeded background: cadmium, calcium, chromium, lead, magnesium, selenium, and zinc were (Table 5-25). Those metals that exceeded both the PRG and background concentration are indicated by bold text.

- Sample C7-SOM-SS-OF02-ST03-0.5 →arsenic, **chromium**, iron, manganese, and vanadium concentrations were reported above their PRG.
- Sample C7-SOM-SS-OF03-ST02-0.5 →aluminum, arsenic, **chromium**, iron, manganese, and vanadium concentrations were reported above their PRG. This sample was collected from the outfall of a 12-in. diameter terracotta wastewater line located directly east of Building 39-01. The outfall discharge point is approximately 2-ft off the floor of the CDD.
- Sample C7-SOM-SS-OF04-ST01-0.5 →aluminum, arsenic, **chromium**, iron, manganese, and vanadium concentrations were reported above their PRG.

5.3.6.2 Stormwater Lines on Waste Management Property

A total of two samples were collected from within and below a storm sewer line located on the WM property approximately 3 ft bgs. Figure 5-21 illustrates the sample locations, sample matrices collected from each location, and summary of results exceeding comparison criteria for samples collected from the line on the WM property. Results are presented Tables 5-9 and 5-13. The following summarizes the number of samples collected for each matrix:

- One wastewater sample collected from excavation CWM-X05 located in Area 39.
- One subsurface soil sample collected from excavation CWM-X05 located in Area 39.

Results of VOC Analysis

M&P xylene was reported in the subsurface soil sample at a concentration that did not exceed the PRG. No other VOCs were reported in the subsurface soil or wastewater sample.

Results of SVOCs and PAHs

One PAH compound, bis(2-ethylhexyl)phthalate was reported at a concentration exceeding the PRG and TOG from the one wastewater sample C7-CWM-WW-X05-WW01-6. This sample was collected from within a 6-in. diameter terracotta pipe that is trending east-west and terminating in the CDD. Note that the line type code in the sample designation is incorrect. The line type was misinterpreted at the time of sampling and was later determined based on historical documentation. However, the original sample name is used in order to maintain the integrity of the legal chain-of-custody. The correct line type is presented in the header of the analytical summary table.

No SVOCs or PAHs were reported above their respective PRG criteria from the subsurface soil sample.

Results of Pesticides

One pesticide compound, heptachlor epoxide was reported at a concentration exceeding the PRG and TOG criteria from the one wastewater sample C7-CWM-WW-X05-WW01-6.

No pesticides were reported above their respective PRG from the subsurface soil sample.

Results of PCBs

No PCBs were reported from the one wastewater sample and the one subsurface soil sample. Aroclor 1254 and 1260 were reported in surface soil samples collected from each of the outfall locations on WM property.

Results of Explosives

No explosives were reported in the one wastewater sample and the one subsurface soil sample.

Results of Metals and Cyanide

No cyanide concentrations were reported from the one wastewater sample and one subsurface soil sample.

Ten metals were reported in the wastewater sample C7-CWM-WW-X05-WW01-6 at concentrations exceeding their PRG and/or TOG. These metals are aluminum, arsenic, barium, chromium, cobalt, iron, lead, manganese, silver, and vanadium.

Three metals were reported in concentrations exceeding their PRG in the one subsurface soil sample, as listed below. A background evaluation of metals reported in surface and subsurface soil samples associated with stormwater lines indicated the following metals exceeded background: cadmium, calcium, chromium, lead, magnesium, selenium, and zinc were (Table 5-25). None of the reported metals exceeded the background.

- C7-CWM-SO-X06-WW-01-6.5 → aluminum, arsenic, and iron were reported at concentrations exceeding the PRG. This sample was collected from beneath the stormwater line in the same location as the wastewater sample discussed above.

5.3.6.3 Stormwater Line Summary of Results

The following illustrates the constituents that exceeded the PRG in each matrix from each property.

SUMMARY OF STORMWATER LINE PRG EXCEEDANCES

	Somerset Group property	WM property	
	SS	WW	SO
VOCs			
SVOCs and PAHs	✓	✓	
Pesticides		✓	
PCBs			
Explosives			
Metals	✓	✓	✓

The outfalls as well as the line encountered in CWM-X05 may also be considered wastewater lines. Table 2-5 describes the outfall sample locations. They differ from other wastewater lines associated with AFP-68 due to the presence of stormwater grates, which were not observed in other areas of AFP-68. Based on reported concentrations of PAHs reported in the wastewater lines (see Section 5.3.7), these may be contributing to the reported PAHs in the surface soil samples collected from the outfalls. For example, benzo[a]pyrene, benz[a]anthracene, benzo[b]fluoranthene, dibenz[a,h]anthracene, indeno[1,2,3-cd]pyrene, and phenanthracene were reported in the SOM-OF04 surface soil sample as well as the sludge sample CWM-X07 from within the wastewater line on the WM property (see Section 5.3.7). In addition, although PCBs did not exceed screening values, it was reported in each of the surface soil outfall samples collected from the west bank of the CDD. PCBs were not reported in the surface soil outfall sample collected from the east bank of the ditch (see Section 5.3.7).

A summary of the COPCs identified in stormwater line samples is presented below.

<u>COPCs in Total Soil</u>

Eleven COPCs are identified in total soil for the stormwater line based on the residential soil Region 9 PRG screen: aluminum, arsenic, chromium, manganese, vanadium, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, and phenanthrene. Chromium exceeded background concentrations.

Seven COPCs are identified in total soil for the stormwater line based on the industrial soil Region 9 PRG screen: aluminum, arsenic, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

COPCs in Wastewater

Nine COPCs are identified in wastewater for the stormwater line based on comparison to the Region 9 tap water PRG screen: aluminum, arsenic, barium, chromium, lead, manganese, vanadium, heptachlor epoxide, and bis(2-ethylhexyl)phthalate.

5.3.7 Wastewater Lines

A total of 68 samples were collected from within or beneath the wastewater lines for laboratory analyses as described in Section 2.2.3 of this UURI. Wastewater lines, as defined in this UURI, were associated with former AFP-68 and were located primarily on Somerset Group and WM property. However, one overflow line from the WWTP on the Town of Lewiston was also included as a wastewater line. Additional information on line direction, flow direction and final potential fate of contaminants from physical transport is presented in Chapter 6.

5.3.7.1 Wastewater Lines on Somerset Group Property

A total of 13 samples were collected from within or beneath the wastewater lines or manholes located on the Somerset Group property. Figure 5-7 presents a general overview of the excavation locations on Somerset Group property. Figure 5-21 illustrates the sample locations, sample matrices collected from each location, and summary of results exceeding comparison criteria for samples collected from the wastewater lines on the Somerset Group property. The wastewater lines were observed to be 5 to 9 ft bgs on the Somerset Group property.

Tables 5-6, 5-10, 5-14, and 5-17 summarize the analytical results.

On Somerset Group property, the wastewater line appears to originate in Process Area 6 (excavations SOM-X29, X24, X28) and traverses west (SOM-X13, X12) to the CDD (outfall SOM-OF5-WW01). Secondary lines originate within Process Area 5 (SOM-X17, X16, X21).

The following summarizes the number of samples collected for each matrix.

- One sludge sample was collected from each of two excavations: SOM-X12 located between AFP-68 Process Areas 30 and 30A, and SOM-X28 located in north of Process Area 5.
- Two wastewater samples from excavation SOM-X29 located in AFP-68 Area 6.
- One surface soil sample from outfall location SOM-OF05 located in the east bank of the CDD west of Building foundation 30A-1 (see Table 2-5).
- Eight subsurface soil samples collected from excavation SOM-X12 located in AFP-68 Area 30, SOM-X13 located in Area 5, SOM-X14 located in AFP-68 Area 6, SOM-X16 located in Area 5, SOM-X17 located in Area 5, SOM-X21 located in Area 5, SOM-X28 located north of Area 5, SOM-X29 located in AFP-68 Area 6.

Results of VOC Analysis

No VOCs were reported above their respective PRGs from the two sludge samples.

Three VOCs were reported above their respective PRG and TOG from one of the two wastewater samples. This sample is:

- Sample C7-SOM-WW-X29-WW01-4.5 → Acetone, cis-1,2-dichoroethene, and vinyl chloride were reported at concentrations above the PRG and TOG. This sample was collected from within a 12-in. diameter concrete pipe, and trending west, and located just west of the Area 6 gas disposal area.

No VOCs were reported above their respective PRGs from the one surface soil sample C7-SOM-SS-OF05-WW01-0.5 collected from the wastewater outfall located in the CDD.

No VOCs were reported above their respective PRGs from the eight subsurface soil samples collected from above or beneath the wastewater lines on the Somerset Group property.

Although acetone, cis-1,2-dichoroethene, and vinyl chloride (VOCs) were reported at concentrations exceeding their respective PRG in one wastewater sample. These constituents were not detected in the subsurface soil samples.

Results of SVOCs and PAHs

SVOCs, mainly PAH compounds were reported at concentrations exceeding their respective PRGs from both sludge samples. These samples are:

- Sample C7-SOM-SL-X12-WW01-7 → Benzo[a]pyrene, and dibenz[a,h]anthracene were reported at concentrations above their respective PRG. This sample was collected from within a wastewater manhole (WW03) located near excavation X12.
- Sample C7-SOM-SL-X28-WW01-4.5 → Benzo[a]pyrene was reported at a concentration above the PRG. This sample was collected from within a 12-in. diameter concrete pipe, and trending north-south, north of Process Area 5. The line originates within Process Area 6.

SVOCs and PAHs were reported above their respective PRG criteria from one of the two wastewater samples. This sample is:

- Sample C7-SOM-WW-X29-WW01-4.5 → Dibenzofuran and phenanthrene were reported at concentrations above the PRG.

In addition, SVOC and PAH compounds were reported at concentrations exceeding the TOG from both wastewater samples.

No SVOCs or PAHs were reported above their respective PRGs from the surface soil sample collected from the outfall.

PAH compounds were reported at concentrations exceeding their respective PRGs from one of the eight subsurface soil samples. This sample is:

- Sample C7-SOM-SO-X12-WW01-9 → Benzo[a]pyrene and dibenz[a,h]anthracene were reported at concentrations above their respective PRGs. This sample was collected from beneath an 18-in. diameter concrete pipe that trends west. A sludge sample was collected from the nearby wastewater manhole as discussed above.

PAHs reported in the sludge samples from SOM-X12 and from the wastewater sample form SOM-X29 were also reported in the subsurface soil at those locations, suggesting possible impact to the subsurface from the contents of the pipeline.

Results of Pesticides

No pesticides were reported above their respective PRG or TOG from the two sludge samples, two wastewater samples, one surface soil sample, and the eight subsurface soil samples. Therefore, suggesting that a release of pesticides did not occur in this area of the property.

Results of PCBs

No PCBs were reported above their respective PRG or TOG from the two sludge samples, two wastewater samples, one surface soil sample, or eight subsurface soil samples. Therefore, a release of PCBs has not occurred from the wastewater lines or manholes in this area of the property.

Results of Explosives

A low concentration of nitrobenzene (18 µg/kg) was reported in the subsurface soil sample collected from SOM-X14. No explosives were reported the two sludge samples, two wastewater samples, one surface soil sample, or other subsurface soil samples.

Results of Metals

Metals were reported in both sludge samples at concentrations exceeding the PRG. These samples are:

- Sample C7-SOM-SL-X12-WW01-7 → arsenic, cadmium, chromium, iron, manganese, and vanadium were reported at concentrations above the PRG. This sample was collected from Manhole WW03.
- Sample C7-SOM-SL-X28-WW01-4.5 → arsenic, barium, iron, manganese, and vanadium were reported at concentrations above the PRG.

Metals were reported in the two wastewater samples at concentrations exceeding the PRG and TOG. These samples are:

- Sample C7-SOM-WW-X00-WW3-6→ aluminum, chromium, iron, lead, lithium, and manganese were reported at concentrations above the PRG and/or TOG. This sample was collected from within a wastewater manhole (WW3).
- Sample C7-SOM-WW-X29-WW01-4.5→ iron and manganese were reported at concentrations above the PRG and TOG.

Six metals: aluminum, arsenic, manganese, iron, chromium, and vanadium were reported in the one surface soil sample C7-SOM-SS-OF05-WW01-0.5 at concentrations exceeding the PRG. Manganese also exceeded background concentrations in this surface soil sample.

Metals were reported in the eight subsurface soil samples at concentrations exceeding the PRG, as listed below. Metals reported in subsurface soil associated with wastewater lines that were statistically greater in concentration than background concentrations are signified by bold text (Table 5-24).

- Sample C7-SOM-SO-X12-WW01-9→ aluminum, arsenic, iron, **manganese**, and vanadium were reported at concentrations above the PRG.
- Sample C7-SOM-SO-X13-WW01-7→ aluminum, arsenic, iron, **manganese**, and vanadium were reported at concentrations above the PRG. This sample was collected from beneath an 18-in. diameter concrete pipe that is trending east-west. This line connects to the west to wastewater manhole (WW03) from which a sludge sample was collected as discussed above.
- Sample C7-SOM-SO-X14-WW01-6→ arsenic, iron, **manganese**, and vanadium were reported at concentrations above the PRG. This sample was collected from beneath a 12-in. diameter steel pipe that is trending east-west.
- Sample C7-SOM-SO-X16-WW01-5.5→ aluminum, arsenic, iron, **manganese**, and vanadium were reported at concentrations above the PRG. This sample was collected from beneath an 18-in. diameter concrete pipe that is trending northwest-southeast.
- Sample C7-SOM-SO-X17-WW01-6→ aluminum, arsenic, iron, **manganese**, and vanadium were reported at concentrations above the PRG. This sample was collected from beneath an 18-in. diameter steel/concrete pipe that is trending north-south takes a 90 degree turn up to the surface at the base of a concrete foundation, continues south, and then enters below the concrete foundation.
- Sample C7-SOM-SO-X21-WW01-5.5→ aluminum, arsenic, iron, **manganese**, and vanadium were reported at concentrations above the PRG. This sample was collected from beneath an 18-in. diameter concrete pipe that is trending east-west.
- Sample C7-SOM-SO-X28-WW01-5→ aluminum, arsenic, iron, **manganese**, and vanadium were reported at concentrations above the PRG. This sample was collected from the same location as the sludge sample discussed above.
- Sample C7-SOM-SO-X29-WW01-5→ aluminum, arsenic, iron, **manganese**, and vanadium were reported at concentrations above the PRG. This sample was collected from the same location as the wastewater sample discussed above.

5.3.7.2 Wastewater Lines on Waste Management Property

A total of 50 samples were collected from within, above, or below the wastewater lines located on the WM property. Figures 5-4 through 5-7 and 5-9 illustrate the general locations of the excavations. Figures 5-17A, B, and C, and Figure 5-21 illustrate the sample locations, sample matrices collected from each location, and summary of results exceeding comparison criteria for samples collected from the lines on the WM property. The wastewater lines were observed to be 4 to 7 ft bgs on the WM property. Results are also summarized in Tables 5-5, 5-9, and 5-13.

The wastewater lines on WM property were associated with the former AFP-68. The lines discharged to the various man-made drainage ditches including B Ditch and the CDD. Wastewater lines in the northwest portion of WM property originate in Areas 29 (CWM-X4) and Area 35 (CWM- X7). The line encountered CWM-X4 may also be considered a wastewater line, but was designated a stormwater line during the UURI and is discussed in Section 5.3.6.2. These lines terminate at outfalls into the CDD. Samples were collected from each of these outfalls as well (see Section 5.3.6.1). These lines do not connect with the wastewater lines in the AFP-68 process areas on Somerset Group property (Figure 5-21) or the wastewater lines in the southern AFP-68 process areas on WM property (Figures 5-17A, B, and C).

In the southern process areas, four north trending wastewater lines were encountered west of Wesson Street. Two lines originated in Process Area 22, join, then terminated at an outfall in B Ditch (excavations CWM-X18, X09, and X21 to X24). The third and fourth lines originated in Building 16-01 and also trended north to outfalls in B Ditch (CWM-X14). Surface soil samples were collected from the outfalls associated with the lines originating from Process Area 16 (CWM-OF14-WW02 and CWM-OF15-WW01) (Table 2-5). The outfall from the line originating in Process Area 22 was under water and could not be sampled.

Two wastewater lines originating within Area 18S, trending south and terminating in B Ditch were also targeted (CWM-X16). Surface soil samples were also collected from the both outfalls (CWM-OF11-WW01 and CWM-OF12-WW02) (Table 2-5).

Within Process Area 10, a wastewater line trending west to the CDD was targeted (CWM-X15). An outfall sample was also collected (CWM-OF07-WW01) (Table 2-5).

East of Wesson Street, secondary wastewater lines trending to the east serviced AFP-68 Process Area 4 and 7 (CMW-X76, X75, X56), Process Area 8 (CWM-X49, X45, X42), and Process Areas 2 and 20 (CWM-X37, X41), and discharged to a south trending main wastewater line east of Cedar Street (CWM-X55, X78). At that point, historical drawings indicate the wastewater line tied into the LOOW acid waste sewer line, which may have been diverted to H Ditch (located south of M Street) or continued to the WWTP.

The following summarizes the number of samples collected for each matrix:

- Seven sludge samples collected from excavations CWM-X07 located in Area 35 CWM-X15 located in Area 10, CWM-X17 (2 samples) located in Area 16, CWM-X18 located in Area 16, and CWM-X21 and CWM-X24 located in Area 22.
- 13 wastewater samples collected from various excavations in Process Areas 29, 22, 14, 20, 8, 7, and 4.
- Three bedding material wastewater samples collected from excavations CWM-X37 and CWM-X41 located in Area 20, and CWM-X56 located in Area 7.
- Five surface soil samples collected from the outfall location CWM-OF07 located in AFP-68 Area 10, and CWM-OF11, CWM-OF12, CWM-OF14, and CWM-OF15 located in Area 16.
- 22 subsurface soil samples collected from various excavations in Areas 29, 35, 10, 18S, 16, 22, 14, 20, 8, 7, 4, and Nitration House.

Results of VOC Analysis

No VOCs were reported at concentrations above their respective PRG from the seven sludge samples.

VOCs were reported above their respective PRG and/or TOG criteria from 5 of the 13 wastewater samples. These samples are:

- Sample C7-CWM-WW-X29-WW01-4 → 15 VOCs were reported at concentrations above their PRG and/or TOG. This sample was collected from within a 4-in. diameter steel pipe, trending southwest originating from within the bermed tank area of Process Area 14. A former fuel oil tank had been located in this area. The tank was dismantled by CWM (predecessor of WM). With the exception of the wastewater sample collected from excavation CWM-X28 (from an unknown line type on the east side of this same bermed area), these were the highest concentrations of

VOCs reported in wastewater for any line type. The subsurface soil in this area was also impacted with VOCs indicating a release. In addition, according to historical plans, this drain terminates in the CDD, although the outfall was not located during the UURI.

- Sample C7-CWM-WW-X37-WW01-5.5 → 5 VOCs was reported at concentrations above their PRG and/or TOG. This sample was collected from within an 18-in. diameter transite pipe, trending east from Process Area 2 into Process Area 20. A bedding material water sample, also with reported VOCs exceeding the PRG, was collected from this location as well.
- Sample C7-CWM-WW-X41-WW01-6 → 9 VOCs was reported at concentrations above their PRG and/or TOG. This sample was collected from within an 18-in. diameter transite pipe, trending east. A bedding material water sample (with VOCs exceeding the PRG) was also collected from this excavation as well. This is the same wastewater line as encountered in CWM-X37.
- Sample C7-CWM-WW-X42-WW01-6 → 1,1-dichloroethane, cis-1,2-DCE, and vinyl chloride were reported at concentrations above their PRG and/or TOG. This sample was collected from within an 8-in. diameter transite pipe, trending east and located 25-ft north of Spruce Street in the eastern portion of Area 8.
- Sample C7-CWM-WW-X78-WW01-5.5 → 1,1-dichloroethane was reported at a concentration above the TOG. This sample was collected from within an 8-in. diameter transite pipe, trending northwest-southeast.

VOCs were reported at concentrations above the PRG and/or TOG in two of the three bedding material wastewater samples. These samples are:

- Sample C7-CWM-WW-X37-WG01-6 → 6 VOCs were reported at concentrations above their PRG and/or TOG. This sample was collected from the gravel bedding from the wastewater line originating in Area 2 and traversing to Area 20. A bedding material water sample was also collected in Area 20 (discussed below).
- Sample C7-CWM-WW-X41-WG01-6 → 6 VOCs were reported at concentrations above their PRG and/or TOG. This sample was collected from the bedding under laying in the wastewater line in Process Area 20.

The constituents reported in the remaining bedding material wastewater samples were not reported at concentrations above their PRG and/or TOG criteria.

No VOCs were reported at concentrations above their respective PRGs from the five surface soil samples collected from the outfall locations on the WM property.

No VOCs were reported at concentrations above their respective PRGs from the 22 subsurface soil samples.

Results of SVOCs and PAHs

The laboratory analysis reported that SVOCs and PAHs were reported in five of the seven sludge samples in concentrations that exceeded their respective PRG. These samples are:

- Sample C7-CWM-SL-X07-WW01-7 → 12 SVOCs and PAHs were reported at concentrations above the PRG. This sample was collected from within a 6-in. diameter concrete pipe that is located east of Building 35-01.
- Sample C7-CWM-SL-X15-WW01-3 → 4 SVOCs, mainly PAHs were reported at concentrations above the PRG. This sample was collected from the wastewater line in Area 10.
- Sample C7-CWM-SL-X17-WW02-3 → Benzo[a]pyrene was reported at a concentration above the PRG. This sample was collected from within a 24-in. diameter steel pipe that trends north to B Ditch in Area 16.
- Sample C7-CWM-SL-X18-WW01-5 → Benzo[a]pyrene was reported at a concentration above the PRG. This sample was collected from within a 24-in. diameter steel pipe, trending north from Building 22-01 and discharging to the B Ditch.
- Sample C7-CWM-SL-X21-WW01-5.5 → Benzo[a]pyrene and benzo[b]fluoranthene were reported at concentrations above the PRG. This sample was collected from within an 18-in. diameter steel pipe, trending north-south, and located east of Building 22.

The constituents reported in the remaining sludge samples were not reported at concentrations above their PRG

The laboratory analysis reported that SVOCs and PAHs reported 5 of the 13 wastewater samples exceeded their respective PRG criteria for SVOCs and PAHs. These samples are as follows:

- Sample C7-CWM-WW-X04-WW01-4 → 5 SVOCs and PAHs were reported concentrations above their PRG criteria. This sample was collected from within a 4-in. diameter terracotta pipe that is trending east-west.
- Sample C7-CWM-WW-X29-WW01-4 → 6 SVOCs and PAHs were reported above the PRG criteria. Although PAHs were present, they were not the prevalent SVOCs exceeding the PRG. However, with the exception of the wastewater sample collected from CWM-X28, the highest concentration of non-PAH SVOCs (from any line type) were reported in this sample.
- Sample C7-CWM-WW-X37-WW01-5.5 → Hexachlorobenzene concentration was reported above the PRG criteria.
- Sample C7-CWM-WW-X41-WW01-6 → 1,2,4-trichlorobenzene concentration was reported above the PRG criteria.
- Sample C7-CWM-WW-X55-WW01-7.5 → Bis(2-ethylhexyl)phthalate concentration was reported above the PRG criteria. This sample was collected from within the 10-in. diameter south trending main line located 30-ft east of Cedar Street.

The constituents reported in the remaining wastewater samples were not reported at concentrations above their PRG. However, some SVOCs, primarily PAHs were reported at concentrations exceeding the TOG.

SVOCs and PAHs were reported at concentration above their respective PRG criteria from one of the three bedding material wastewater samples. This sample is:

- Sample C7-CWM-WW-X37-WG01-6 → 5 SVOCs and PAHs were reported above their respective PRG criteria.

The constituents reported in the remaining bedding material wastewater samples were not reported at concentrations above their PRG. However, some SVOCs, primarily PAHs were reported at concentrations exceeding the TOG.

SVOCs and PAHs were reported above their respective PRG criteria from two of the five surface soil samples collected from wastewater line outfalls. These samples are:

- Sample C7-CWM-SS-OF11-WW01-0.5 → 5 SVOCs and PAHs were reported above their respective PRG criteria. This sample was collected from the outfall of a 4-in. steel wastewater line that originates within the bermed tank containment area of

Process Area 18S. The pipe protrudes out of the northern bank of the B Drainage Ditch.

- Sample C7-CWM-SS-OF12-WW02-0.5 → 5 SVOCs and PAHs were reported above their respective PRG criteria. This sample was collected from the outfall of a 4-in. steel wastewater line that originates within the bermed tank containment area of Process Area 18S. The pipe protrudes out of the northern bank of the B Drainage Ditch.

The constituents reported in the remaining surface soil samples were not reported at concentrations above their PRG.

The laboratory analysis reported that SVOCs and PAHs exceeded their respective PRG in 2 of the 22 subsurface soil samples:

- Sample C7-CWM-SO-X15-WW01-3.5 → Benzo[a]pyrene was reported at a concentration above the PRG. This sample was collected from beneath the 12-in. diameter steel pipe in the same location as the sludge sample discussed above.
- Sample C7-CWM-SO-X16-WW02-4.5 → Benzo[a]pyrene was reported at a concentration above the PRG. This sample was collected from beneath a 4-in. diameter pipe that appears to be constructed of tar paper material, and trends north-south.

The constituents reported in the remaining subsurface soil samples were not reported at concentrations above their respective PRGs.

Results of Pesticides

No pesticides were reported above their respective PRGs from the seven sludge samples.

Reported constituents in 7 of the 13 wastewater samples exceeded their respective PRG and/or TOG for pesticides. These samples are as follows:

- Sample C7-CWM-WW-X04-WW01-4 → Heptachlor epoxide was reported at a concentration above the PRG and TOG criteria.
- Sample C7-CWM-WW-X29-WW01-4 → 4,4'-DDE, beta BHC, and delta BHC concentrations were reported above the PRG and/or TOG criteria.
- Sample C7-CWM-WW-X37-WW01-5.5 → Heptachlor epoxide concentration was reported above the PRG and TOG criteria.

- Sample C7-CWM-WW-X42-WW01-6 → Dieldrin and methoxychlor concentration was reported above the PRG and/or TOG criteria.
- Sample C7-CWM-WW-X45-WW01-5 → Methoxychlor concentration was reported above the TOG criteria. This sample was collected from inside a 6-in. diameter transite pipe, trending south from a foundation in Process Area 8.
- Sample C7-CWM-WW-X49-WW01-5 → 4,4'-DDT and dieldrin concentrations were reported above the PRG and/or TOG criteria. This sample was collected from within an 8-in. diameter transite pipe, trending north-south.
- Sample C7-CWM-WW-X55-WW01-7.5 → 4,4'-DDE, 4,4'-DDT, dieldrin, and heptachlor epoxide concentrations were reported above the PRG and TOG criteria.

The constituents reported in the remaining wastewater samples did not exceed their PRG and/or TOG for pesticides.

No pesticides were reported above their respective PRG and/or TOG from the three bedding material wastewater samples.

No pesticides were reported above their respective PRGs from the five surface soil samples.

Pesticides were reported above their respective PRGs from the 3 of the 22 subsurface soil samples. These samples are:

- Sample C7-CWM-SO-X37-WW01-6.5 → 4,4'-DDE concentration was reported above the PRG.
- Sample C7-CWM-SO-X41-WW01-6 → Dieldrin concentration was reported above the PRG.

The constituents reported in the remaining subsurface soil samples did not exceed their respective PRG for pesticides.

Results of PCBs

PCBs were not reported in the sludge samples associated with the wastewater lines.

PCB Aroclors were reported at concentrations exceeding the PRG from 3 of the 13 wastewater samples. These samples are:

- Sample C7-CWM-WW-X29-WW01-4 → Aroclor 1016 concentration was reported above the PRG criteria. Aroclor 1232 was reported in the subsurface soil at this location.
- Sample C7-CWM-WW-X45-WW01-5 → Aroclor 1260 concentration was reported above the PRG criteria.
- Sample C7-CWM-WW-X49-WW01-5 → Aroclor 1260 concentration was reported above the PRG criteria.

PCB Aroclors were reported above their respective PRG from two of the three bedding material wastewater samples. These samples are:

- Sample C7-CWM-WW-X37-WG01-6 → Aroclor 1254 concentration was reported above the PRG criteria.
- Sample C7-CWM-WW-X56-WG01-7 → Aroclor 1260 concentration was reported above the PRG criteria.

The constituents reported in the remaining bedding material wastewater samples did not exceed their PRG and/or TOG for PCBs.

No PCB Aroclors were reported at concentrations exceeding the respective PRGs in the five surface soil samples collected from the outfall locations. However, Aroclor 1260 was reported in outfall samples collected from the two outfalls on the west bank of the CDD in the northwest portion of AFP-68.

PCB Aroclors were reported at concentrations exceeding the PRG from 4 of the 22 subsurface soil samples. These samples are:

- Sample C7-CWM-SO-X29-WW01-4.5 → Aroclor 1232 concentration was reported above the PRG.
- Sample C7-CWM-SO-X37-WW01-6.5 → Aroclor 1254 concentration was reported above the PRG.
- Sample C7-CWM-SO-X41-WW01-6 → Aroclor 1260 concentration was reported above the PRG.
- Sample C7-CWM-SO-X42-WW01-6 → Aroclor 1260 concentration was reported above the PRG.

The constituents reported in the remaining subsurface soil samples did not exceed their respective PRGs for PCBs.

Results of Explosives

No explosives were reported above their respective PRG and/or TOG criteria in the seven sludge samples, 13 wastewater samples, three bedding material wastewater samples, five surface soil samples, or the 22 subsurface soil samples.

Results of Metals and Cyanide

No cyanide concentrations were reported above their PRG and/or TOG criteria from the seven sludge samples, 13 wastewater samples, three bedding material wastewater samples, five surface soil samples, and 22 subsurface soil samples.

Metals were reported at concentrations exceeding their PRG in the seven sludge samples. These samples are:

- Sample C7-CWM-SL-X07-WW01-7 → arsenic and iron were reported at concentrations exceeding the PRG.
- Sample C7-CWM-SL-X15-WW01-3 → arsenic, chromium, iron, and manganese were reported at concentrations exceeding the PRG.
- Sample C7-CWM-SL-X17-WW01-3 → arsenic, iron, and manganese were reported at concentrations exceeding the PRG. This sample was collected from within a 2-in. diameter steel pipe, trending north-south, and discharges to B Ditch.
- Sample C7-CWM-SL-X17-WW02-3 → arsenic, chromium, iron, manganese, and vanadium were reported at concentrations exceeding the PRG.
- Sample C7-CWM-SL-X18-WW01-5 → arsenic, chromium, iron, manganese, and vanadium were reported at concentrations exceeding the PRG.
- Sample C7-CWM-SL-X21-WW01-5.5 → arsenic, chromium, iron, manganese, and vanadium were reported at concentrations exceeding the PRG.
- Sample C7-CWM-SL-X24-WW01-5.5 → arsenic and iron were reported at concentrations exceeding the PRG. This sample was collected from within an 18-in. diameter steel pipe, trending north-south and turns to the west potentially entering Building 22-01.

The reported metals in the remaining sludge samples did not exceed the PRG.

Metals were reported in the 13 wastewater samples at concentrations exceeding their PRG and/or TOG. These metals are aluminum, antimony, arsenic, barium, cadmium, chromium, cobalt, copper, iron, lead, lithium, magnesium, manganese, molybdenum, mercury, nickel, silver, and vanadium as illustrated on Figures 5-17B and 5-21.

Metals were reported in the three bedding material wastewater samples at concentrations exceeding their PRG and/or TOG. These metals are aluminum, arsenic, iron, lead, magnesium, manganese, and vanadium as illustrated on Figure 5-17A.

Metals were reported in the six surface soil samples at concentrations exceeding the PRG, as listed below. Metals reported in subsurface soil associated with acid waste sewer lines that were statistically greater in concentration than background concentrations are signified by bold text (Table 5-24). These metals may represent a potential concern for subsurface soil beneath acid waste lines.

- Sample C7-CWM-SS-OF07-WW01-0.5 → aluminum and iron were reported above the PRG criteria. This sample was collected from the outfall of a 10-in. steel wastewater line. This line is located approximately 30-ft northwest of the northwest corner of Building 10-01. The pipe protrudes out of the east bank of the CDD.
- Sample C7-CWM-SS-OF11-WW01-0.5 → iron was reported above the PRG criteria.
- Sample C7-CWM-SS-OF12-WW02-0.5 → aluminum, iron, and **manganese** were reported above their respective PRG criteria.
- Sample C7-CWM-SS-OF14-WW01-0.5 → arsenic and iron were reported above the PRG criteria. This sample was collected from the outfall of a 24-in. steel wastewater line. This line is located approximately 40-ft north of Building 16-01 and 105-ft west of Wesson Street. The pipe protrudes out of the southern bank of the B Drainage Ditch and originates in Building 16-01.
- Sample C7-CWM-SS-OF15-WW01-0.5 → aluminum, arsenic, chromium, and iron were reported above the PRG criteria. This sample was collected from the outfall of a 3-in. steel wastewater line. This line is located approximately 40-ft north of Building 16-01 and 110-ft west of Wesson Street. The pipe protrudes out of the southern bank of the B Drainage Ditch and originates in Building 16-01.
- Sample C7-CWM-SS-OF09-UN01-0.5 → aluminum and iron were reported above the PRG criteria. This sample was collected from the outfall of a 4-in. terracotta line. This line is located approximately 20-ft west of Building 10-01. The pipe protrudes out of the east bank of the CDD. Note that the line type code in the sample designation is incorrect. The line type was misinterpreted at the time of sampling and was later determined based on historical documentation. However, the original

sample name is used in order to maintain the integrity of the legal chain-of-custody. The correct line type is presented in the header of the analytical summary table.

The constituents reported in the remaining surface soil samples were not reported at concentrations above their PRG.

Metals were reported at concentrations exceeding their PRG in the 22 subsurface soil samples, as listed below. None of the metals exceeding their respective PRG exceed the respective background concentration. These metals may represent a potential concern for subsurface soil beneath acid waste sewer lines.

- Aluminum → Excavation CWM-X03, CWM-X04, CWM-X07, CWM-X12, CWM-X15 through CWM-X17, CWM-X21, CWM-X29, CWM-X37, CWM-X41, CWM-X56, CWM-X75, and CWM-X78
- Arsenic → Excavation CWM-X03, CWM-X04, CWM-X07, CWM-X12, CWM-X15 through CWM-X18, CWM-X21, CWM-X24, CWM-X29, CWM-X37, CWM-X41, CWM-X42, CWM-X55, CWM-X56, CWM-X75, CWM-X76, and CWM-X78
- Iron → Excavation CWM-X03, CWM-X04, CWM-X07, CWM-X12, CWM-X15 through CWM-X18, CWM-X21, CWM-X24, CWM-X29, CWM-X37, CWM-X41, CWM-X42, CWM-X55, CWM-X56, CWM-X75, CWM-X76, and CWM-X78

Additional metals were reported but did not exceed their respective PRG.

5.3.7.3 Wastewater Lines on the Town of Lewiston Property

A total of two samples were collected from below the wastewater line and from the outfall in the western drainage ditch located on the Town of Lewiston property. The wastewater lines were observed to be approximately 2.5 ft bgs on the Town of Lewiston property. Figure 5-2 presents a general overview of the excavation location on the Town of Lewiston property. Figure 5-11 illustrates the sample locations, sample matrices collected from each location, and summary of results exceeding comparison criteria for samples collected from the wastewater lines on the Town of Lewiston property.

Because it discharges directly to a surface water drainage ditch, the overflow line from the acid waste sewer manhole located north of the Acid Neutralization Building was designated as a wastewater line.

The following summarizes the number of samples collected for each matrix:

- One sludge sample collected from excavation LEW-X10.
- One subsurface soil sample collected from excavation LEW-X10.

Results of VOC Analysis

No VOCs were reported in the sludge or subsurface soil sample.

Results of SVOCs and PAHs

PAHs were reported in the sludge sample and a phthalate was reported in the subsurface soil sample. However, the reported concentrations did not exceed the PRG.

Results of Pesticides

Gamma chlordane was reported in the sludge sample at a concentration that did not exceed the PRG. Pesticides were not reported in the subsurface soil sample.

Results of PCBs

No PCBs were reported in the sludge or subsurface soil sample.

Results of Explosives

No explosives were reported in the sludge or subsurface soil sample.

Results of Metals

Six metals were reported in the one sludge sample at concentrations exceeding their PRG. This sample is:

- Sample C7-LEW-SL-X10-WW01-5 →aluminum, arsenic, chromium, iron, manganese, and vanadium concentrations were reported above their PRG. This sample was collected from the outfall in the western drainage ditch.

Five metals were reported in the one subsurface soil sample at concentrations exceeding their PRG, as listed below. Metals reported in subsurface soil associated with acid waste sewer lines that were statistically greater in concentration than background concentrations are signified by bold text (Table 5-24). These metals may represent a potential concern for subsurface soil beneath acid waste sewer lines.

- Sample C7-LEW-SO-X10-WW01-6 →aluminum, arsenic, iron, **manganese**, and vanadium concentrations were reported above the PRG. This sample was collected from beneath a 42-in. diameter concrete pipe that is trending northeast-southwest.

5.3.7.4 Wastewater Lines Summary of Results

The majority of the exceedances of the PRG were reported in samples collected from the WM property. The samples collected from the Town of Lewiston property had the least amount of exceedances.

The following illustrates the constituents that exceeded the PRG in each matrix from each property.

SUMMARY OF WASTEWATER LINE PRG EXCEEDANCES

	Somerset Group property				WM property					Town of Lewiston property	
	SL	WW	SS	SO	SL	WW	WB	SS	SO	SL	SO
VOCs		✓				✓	✓				
SVOCs and PAHs	✓	✓		✓	✓	✓	✓	✓	✓		
Pesticides						✓			✓		
PCBs						✓	✓		✓		
Explosives											
Metals	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Each of the wastewater lines was associated with the former AFP-68, with the exception of the line on the Town of Lewiston property (LEW-X10). The wastewater line on the Town property only had metals exceed the PRG in the samples collected (sludge and subsurface soil samples).

Generally, the wastewater lines in the northwestern AFP-68 Areas on WM property were impacted by SVOCs, primarily PAHs, and metals in sludge, wastewater, and subsurface soil. Similar trends and constituents were observed in the wastewater lines in the northern process areas on Somerset Group property. However subsurface soil concentrations did not exceed PRGs. Although PAHs were reported in subsurface soil, only two PAHs in one sample (collected adjacent to a manhole on Somerset Group property) exceeded the PRG. Sporadic concentrations of heptachlor epoxide and VOCs exceeded the PRG in wastewater as well.

With the exception of Process Area 4, the wastewater lines in the southern process areas were much more heavily impacted, particularly in the vicinity of Areas 14, 2, and 20. In Process Area 4, phthalates and metals were reported in wastewater above the PRG. Only metals were reported above the PRG in subsurface soil. However, the bedding material water sample collected from CWM-X56 had a high reported PCB concentration (790 µg/L of Aroclor 1260). This line continues to the southeast then south to the termination into the LOOW acid waste sewer line.

Wastewater lines in Areas 16 and 22 were impacted primarily with PAHs and metals reported in PAHs and metals in sludge, metals in subsurface soil, and phthalates and metals in wastewater. The one exception is the wastewater samples from CWM-X49 with reported concentrations of pesticides and PCB (Aroclor 1260) exceeding the PRG.

In Process Area 10, subsurface soil and sludge associated with wastewater lines were impacted by PAHs and metals exceeding the PRG. Wastewater samples were not collected in this area.

The wastewater line encountered in Process Area 14 was the most highly impacted. The line appears to be a drain line for the tank containment area. The second highest concentrations of non-PAH SVOCs and VOCs of the UURI were reported in the wastewater sample from this line. The highest concentrations reported during the UURI were associated with this same berm, but were reported in the wastewater sample from what was designated as an unknown line type (as discussed in Section 5.3.8.2). Subsurface soil was also impacted in this area. In addition, the line may have discharged to the CDD, although this was not confirmed during the UURI.

Subsurface soil and wastewater within Area 8 was impacted with PCBs and metals exceeding the PRG. Wastewater was also impacted with VOCs and pesticides exceeding the PRG. A sludge sample associated with the wastewater lines was not collected from this area.

Within Areas 2 and 20, the wastewater lines wastewater is impacted by VOCs, SVOCs, pesticides, and metals exceeding the PRG. Subsurface soil is impacted with pesticides, Aroclor 1260, and metals exceeding the PRG. In addition, the bedding material water in this area is highly impacted as discussed below.

Water within the bedding material of the wastewater line traversing east from Area 2 to Area 20 was impacted with VOCs, SVOCs, and metals exceeding the PRG. In addition, Aroclor 1254 was reported at a concentration exceeding the PRG in the bedding material water sample collected from the excavation closest to Process Area 2 (CWM-X37). The bedding material may be providing a migration pathway for COPCs. The subsurface in Area 2 is impacted heavily with VOCs (as reported in the Phase II RI) and may be contributing to the COPCs reported in the bedding material water. As discussed above, the bedding material water sample collected from CWM-X56 near Areas 4 and 7 also reported PCBs. However, bedding material was not reported in CWM-X55 or CWM-78, which targeted the main south trending wastewater line that ties into the LOOW acid waste sewer line (Table 5-1). It appears as though the main north-south trending wastewater lines (east of Cedar Street and west of Wesson Street) are not underlain by bedding material. The acid waste sewer line is encased in concrete and is not underlain by bedding material.

A summary of the COPCs identified for wastewater lines for each matrix, based on exceedance of screening values (see Chapter 4) is provided below.

COPCs in Soil

Twenty three COPCs are identified in total soil for the wastewater lines based on the residential soil Region 9 PRG screen: nitrobenzene, aluminum, antimony, arsenic, cadmium, chromium, copper, manganese, vanadium, Aroclor 1232, Aroclor 1254, Aroclor 1260, dieldrin, 4,4'-DDE, heptachlor epoxide, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, ideno(1,2,3-cd)pyrene, phenanthrene, hexachlorobenzene, and 1,2,4-trichlorobenzene. Iron also exceeded the PRG but was not identified as a COPC because it is an essential human nutrient. Manganese concentrations in subsurface soils exceeded the background concentrations.

Twenty three COPCs are identified in total soil for the wastewater lines based on the industrial soil Region 9 PRG screen: aluminum, arsenic, chromium, manganese, Aroclor 1232, Aroclor 1254, Aroclor 1260, dieldrin, 4,4'-DDE, heptachlor epoxide, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene, phenanthrene. Manganese concentrations in subsurface soils exceeded the background concentrations.

COPCs in Sludge

Twenty four COPCs are identified in sludge for the wastewater lines based on the residential soil Region 9 PRG screen: aluminum, antimony, arsenic, barium, cadmium, chromium, copper, manganese, nickel, vanadium, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, dibenz(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, pyrene, 1,2-benzphenanthracene, carbazole, and dibenzofuran.

Fifteen COPCs are identified in sludge for the wastewater lines based on the industrial soil Region 9 PRG screen: aluminum, arsenic, chromium, manganese, vanadium, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, 1,2-benzphenanthracene, and carbazole.

COPCs in Wastewater

Fifty seven COPCs are identified in wastewater for the wastewater lines based on comparison to the Region 9 tap water PRG screen: aluminum, antimony, arsenic, barium, cadmium, chromium, copper, lead, lithium, manganese, mercury, molybdenum, nickel, vanadium, Aroclor 1016, Aroclor 1254, Aroclor 1260, beta-BHC, delta-BHC, dieldrin, heptachlor epoxide, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, indeno(1,2,3-cd)pyrene, 2-methylnaphthalene, naphthalene, phenanthrene, bis(2-ethylhexyl)phthalate, dibenzofuran, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, hexachlorobenzene, 4-methylphenol, phenol, 1,2,4-trichlorobenzene, 2,4,6-trichlorophenol, carbon tetrachloride, chlorobenzene, chloroform, 1,1-dichloroethane, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, ethylbenzene, isopropyl benzene, methylene chloride, styrene, PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, toluene, vinyl chloride, m&p-xylene, and o-xylene.

5.3.8 Unknown Lines

A total of 81 samples were collected from within or beneath the unknown lines for laboratory analyses as described in Section 2.2.3 of this UURI. The samples collected are located on the Somerset Group property and the Waste Management property.

By the very nature of the fact that the line type could not be definitively identified, general directions, lengths, and what the line may have been used for are not easily discernible. Tables 2-1 through 2-4 indicate where the unknown lines may have been tentatively identified. However, in general, the weight of evidence was not strong enough to warrant redesignating the line type from "unknown".

5.3.8.1 Unknown Line Types On Somerset Group Property

A total of 29 samples were collected from within or beneath the unknown lines located on the Somerset Group property. The unknown lines were observed to be 1 to 6 ft bgs on the Somerset Group property. Figure 5-7 illustrates the general site layout and excavation locations on the Somerset Group Property. Figure 5-22 illustrates the sample locations, sample matrices collected from each location, and summary of results exceeding comparison criteria for samples collected from the lines on the Somerset Group property. Tables 5-6, 5-10, 5-14, and 5-17 summarize the reported analytical results.

The following summarizes the number of samples collected for each matrix:

- Five sludge samples from excavations SOM-X04 and SOM-X07 located in AFP-68 Area T1T2, and SOM-X18, SOM-X19, and SOM-X22 located in AFP-68 Area 5.
- Four wastewater samples from excavations SOM-X02 and SOM-X07 located in AFP-68 Area T1T2, SOM-X19 located in AFP-68 Area 5, and SOM-X35 located in AFP-68 Area 6.
- One surface soil sample from outfall location SOM-OF06 located in AFP-68 Area 29.
- 19 subsurface soil samples collected from various excavations located in Areas AFP-68 Area T1T2, AFP-68 Area 5, and AFP-68 Area 6.

Results of VOC Analysis

One VOC constituent, 1,4-dichlorobenzene was reported above the PRG from the sludge sample C7-SOM-SL-X04-UN06-3. The constituents reported in the remaining sludge samples were not reported at concentrations above their respective PRG.

VOCs were reported above their respective PRG and/or TOG from two of the four wastewater samples. These samples are:

- Sample C7-SOM-WW-X02-UN02-4 → Benzene was reported at a concentration above the PRG. This sample was collected from within a 3-in. diameter steel pipe, and trending north-south near the T1 foundation.
- Sample C7-SOM-WW-X19-UN01-6 → Vinyl chloride was reported at a concentration above the PRG and TOG. This sample was collected from within an 18-in. diameter concrete pipe, and trending north-south in Process Area 5.

The constituents reported in the remaining wastewater samples were not reported at concentrations above their PRG and/or TOG.

No VOCs were reported above their respective PRG from the one surface soil sample C7-SOM-SS-OF06-UN01-0.5 collected from the outfall of an unknown 3-in. steel pipe located approximately 100-ft east of the southeast corner of Building 29-01.

No VOCs were reported above their respective PRG from the 19 subsurface soil samples collected from above and beneath the unknown lines, below a sump tank and french drain on the Somerset Group property.

Results of SVOCs and PAHs

SVOCs, mainly PAH compounds were reported at concentrations exceeding their respective PRG from two of the five sludge samples. These samples are:

- Sample C7-SOM-SL-X04-UN06-3 → Benz[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, and dibenz[a,h]anthracene were reported at concentrations above their respective PRG.
- Sample C7-SOM-SL-X07-UN01-7 → Benz[a]anthracene, benzo[a]pyrene, and benzo[b]fluoranthene were reported at concentrations above the PRG. This sample was collected from within an 8-ft diameter concrete sump/tank.

The constituents reported in the remaining sludge samples were not reported at concentrations above their PRG.

SVOCs and PAHs were reported above their respective PRG criteria from the four wastewater samples. These samples are:

- Sample C7-SOM-WW-X02-UN02-4 → 2-Methylnaphthalene and bis(2-ethylhexyl)phthalate were reported at concentrations above their PRG.
- Sample C7-SOM-WW-X07-UN01-3 → Bis(2-ethylhexyl)phthalate was reported at a concentration above the PRG. This sample was collected from the same location as the sludge sample discussed above.
- Sample C7-SOM-WW-X19-UN01-6 → Benz[a]anthracene was reported at a concentration above the PRG.
- Sample C7-SOM-WW-X35-UN01-6 → 2-Methylnaphthalene, bis(2-ethylhexyl)phthalate, carbazole, and dibenzofuran were reported at concentrations above their PRG. This sample was collected from within a 6-in. diameter steel line, trending north-south, and the line appears to traverse from Cell Room A to the south.

In addition, SVOC and PAH compounds were reported at concentrations exceeding the TOG from these four wastewater samples as illustrated in Figure 5-22. The reported SVOCs and PAHs in the remaining wastewater samples did not exceed the PRG and/or TOG.

No SVOCs or PAHs were reported above their respective PRG from the one surface soil sample.

SVOCs, primarily PAH compounds were reported at concentrations exceeding the PRG from 3 of the 19 subsurface soil samples. These samples are:

- Sample C7-SOM-SO-X01-UN01-1 → Benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, and dibenz[a,h]anthracene were reported at concentrations above the PRG. This sample was collected from beneath a 4-in. diameter black fibrous pipe. This pipe exits the ground towards the east from the south-east corner of the T1 foundation.
- Sample C7-SOM-SO-X36-UN01-3.5 → Benzo[a]pyrene was reported at a concentration above the PRG. This sample was collected from beneath a 12-in. diameter concrete line.

The constituents reported in the remaining subsurface soil samples were not reported at concentrations above their respective PRG.

Results of Pesticides

No pesticides were reported at concentrations above their respective PRG from the five sludge samples.

Pesticides were reported at concentrations exceeding the PRG and/or TOG criteria from two of the four wastewater samples. These samples are:

- Sample C7-SOM-WW-X02-UN02-4 → Heptachlor epoxide was reported at a concentration above the PRG and TOG. This sample was collected from the same location as the subsurface soil sample discussed above.
- Sample C7-SOM-WW-X35-UN01-6 → 4,4'-DDD, 4,4'-DDT, gamma-chlordane, and heptachlor were reported at concentrations above the PRG and/or TOG.

The constituents reported in the remaining wastewater samples were not reported at concentrations above their PRG and/or TOG.

No pesticides were reported at concentrations exceeding the PRG from the one surface soil sample.

No pesticides were reported at concentrations exceeding the PRG from the 19 subsurface soil samples.

Results of PCBs

No PCBs were reported above their respective PRG or TOG from the four wastewater samples, and one surface soil sample

One PCB Aroclor, Aroclor 1254 was reported at a concentration exceeding the PRG from one sludge sample, C7-SOM-SL-X36-UN01-3.5, located within Process Area 5. Aroclor 1254 was also reported in concentrations that did not exceed the PRG in a sludge sample collected from SOM-X04 and a SOM-X02, both of which are near the T1T2 foundation. This suggests that a release of Aroclor 1254 had occurred from this unknown line in this area of the property.

Results of Explosives

No explosives were reported above their respective PRG or TOG criteria in the five sludge samples, four wastewater samples, one surface soil sample, or 19 subsurface soil samples.

Nitrobenzene was reported in several of the subsurface soil samples in concentrations that did not exceed the PRG.

Results of Metals

Metals were reported in the five sludge samples at concentrations exceeding the PRG. These samples are:

- Sample C7-SOM-SL-X04-UN06-3→ aluminum, antimony, arsenic, chromium, iron, manganese, and vanadium were reported at concentrations above the PRG.
- Sample C7-SOM-SL-X07-UN01-7→ aluminum, antimony, arsenic, cadmium, chromium, copper, iron, manganese, mercury, vanadium, and zinc were reported at concentrations above the PRG.
- Sample C7-SOM-SL-X18-UN01-3→ aluminum, arsenic, chromium, iron, manganese, and vanadium were reported at concentrations above the PRG. This sample was collected from within a 2-in. diameter terracotta pipe that is trending northwest-southeast.
- Sample C7-SOM-SL-X19-UN01-6→ aluminum, arsenic, chromium, iron, manganese, and vanadium were reported at concentrations above the PRG. This sample was collected from within an 18-in. diameter concrete pipe that is trending north-south.
- Sample C7-SOM-SL-X22-UN01-2.5→ aluminum, arsenic, chromium, iron, manganese, and vanadium were reported at concentrations above the PRG. This sample was collected from within a 2-in. diameter terracotta pipe that is trending northwest-southeast.

The constituents reported in the remaining sludge samples were not reported at concentrations above their PRG.

Metals were reported in three of the four wastewater samples at concentrations exceeding the PRG and/or TOG. These samples are:

- Sample C7-SOM-WW-X02-UN02-4→ aluminum, arsenic, iron, and manganese were reported at concentrations above the PRG and/or TOG.
- Sample C7-SOM-WW-X19-UN01-6→ aluminum, arsenic, barium, boron, chromium, cobalt, iron, lead, lithium, magnesium, manganese, silver, and vanadium were

reported at concentrations above the PRG and/or TOG. This sample was collected in the same location as the sludge sample discussed above.

- Sample C7-SOM-WW-X35-UN01-6→ aluminum, antimony, arsenic, barium, chromium, cobalt, copper, iron, lead, lithium, manganese, silver, and vanadium were reported at concentrations above the PRG and/or TOG.

The constituents reported in the remaining wastewater samples were not reported at concentrations above their PRG and/or TOG.

Six metals were reported in the one surface soil sample C7-SOM-SS-OF06-UN01-0.5 at concentrations exceeding the PRG. These metals are aluminum, arsenic, chromium, iron, manganese, and vanadium. Of these, aluminum, chromium, manganese, and vanadium also exceeded background concentrations.

Metals were reported in the 19 subsurface soil samples at concentrations exceeding the PRG. These metals are aluminum, arsenic, cadmium, chromium, iron, manganese, and vanadium. Metals reported in subsurface soil associated with unknown lines that were statistically greater in concentration than background concentrations are signified by bold text (Table 5-26).These metals were reported in soil samples collected from the following excavations:

- **Aluminum** → Excavations SOM-X01 through SOM-X04, SOM-X06, SOM-X07, SOM-X09, SOM-X18, SOM-X20, SOM-X22, SOM-X27, and SOM-X35 through SOM-X38
- Arsenic → Excavations SOM-X01 through SOM-X04, SOM-X06, SOM-X07, SOM-X09, SOM-X18, SOM-X20, SOM-X22, SOM-X27, and SOM-X35 through SOM-X38
- **Cadmium** → Excavation SOM-X36
- **Chromium** → Excavations SOM-X02, SOM-X04, SOM-X09, SOM-X20, and SOM-X36 through SOM-X38
- Iron → Excavations SOM-X01 through SOM-X04, SOM-X06, SOM-X07, SOM-X09, SOM-X18, SOM-X20, SOM-X22, SOM-X27, and SOM-X35 through SOM-X38
- **Manganese** → Excavations SOM-X01 through SOM-X04, SOM-X06, SOM-X07, SOM-X09, SOM-X18, SOM-X20, SOM-X22, SOM-X27, and SOM-X35 through SOM-X38

- **Vanadium** → Excavations SOM-X01 through SOM-X04, SOM-X06, SOM-X07, SOM-X09, SOM-X18, SOM-X20, SOM-X22, SOM-X27, and SOM-X35 through SOM-X38

5.3.8.2 Unknown Line Types On Waste Management Property

A total of 52 samples were collected from within, above, or below the unknown lines located on the WM property. The unknown lines were observed to be 0.5 to 7 ft bgs on the WM property. Figures 5-4 through 5-6, as well as 5-8 and 5-9 present a general overview of the locations of the excavations on WM property. Figures 5-18, 5-22, 5-24, and 5-25 illustrate the sample locations, sample matrices collected from each location, and summary of results exceeding comparison criteria for samples collected from the lines on the WM property. Tables 5-5, 5-9, 5-13 summarize the reported analytical results. The following summarizes the number of samples collected for each matrix:

- Six sludge samples collected from excavations CWM-X11 located in Area 10, CWM-X47 located in Area 8, CWM-X85 (2 samples) located in Nitration House, and CWM-X117 and CWM-X118 located in the northern portion of the Control Area of the NIKE Base.
- 19 wastewater samples collected from various excavations in Areas 10, 22, 14, 4, Nitration House, Central Area of Northern NIKE Base, Northern Portion of the Control Area of the NIKE Base, and Southern Portion of Control Area of NIKE Base.
- One surface soil sample collected from the outfall location CWM-OF09 located in AFP-68 Area 10.
- 26 subsurface soil samples collected from various excavations in Areas 10, 22, 14, 8, 4, Nitration House, Central Area of Northern NIKE Base, Northern Portion of the Control Area of the NIKE Base, and Southern Portion of the Control Area of the NIKE Base.

Results of VOC Analysis

No VOCs were reported at concentrations above the PRG from the six sludge samples.

VOCs were reported above their respective PRG and/or TOG criteria from 6 of the 19 wastewater samples. These samples are:

- Sample C7-CWM-WW-X11-WW01-3 → Benzene was reported at a concentration above the PRG. This sample was collected from within a 12-in. diameter steel pipe, trending north-south from a 4-ft diameter pit in Process Area 10. Note that the line type code in the sample designation is incorrect. The line type was misinterpreted at the time of sampling and was later determined based on historical documentation. However, the original sample name is used in this report in order to maintain the integrity of the legal chain-of-custody. The correct line type code is presented in the header of the analytical summary table.
- Sample C7-CWM-WW-X22-IN01-6.5 → Benzene was reported at a concentration above the PRG. This sample was collected from a leak in a 6-in. diameter cast iron pipe, trending north-south, and located 19-ft east of Building 22-01. Note that the sample was mislabeled at the time of sampling. The original sample name is used in this report in order to maintain the integrity of the legal chain-of-custody.
- Sample C7-CWM-WW-X27-UN01-3 → Cis-1,2-DCE and vinyl chloride were reported at concentrations above their PRG and TOG. This sample was collected from the liquid that was seeping through the #2 limestone bedding material of a French drain system located 13-ft south of Building 22-01.
- Sample C7-CWM-WW-X28-UN01-3 → 13 VOCs were reported at concentrations above their PRG and/or TOG. This excavation contained a 12-in. corrugated pipe that houses three smaller lines, which protrude to the surface. The wastewater sample was collected from within the steel stickup to the east of the excavation. The line was associated with a former above ground fuel oil storages tank associated with AFP-68 Area 14 that had been dismantled by CWM (predecessor of WM). Generally, these were the highest concentrations of VOCs reported during the UURI.
- Sample C7-CWM-WW-X85-UN01-6 → 9 VOCs were reported at concentrations above the PRG and/or TOG. This sample was collected from within a 4-in. diameter stickup located inside the fortifier building at the existing LOOW Nitration Houses.
- Sample C7-CWM-WW-X85-UN02-4 → 7 VOCs were reported at concentrations above the PRG and/or TOG. This sample was collected from within a 4-in. diameter terracotta pipe, trending northeast-southwest, and located 5-ft south of the fortifier building southeast corner.

The constituents reported in the remaining wastewater samples were not reported at concentrations above their PRG and/or TOG criteria.

No VOCs were reported at concentrations above the PRG from the one surface soil sample collected from the outfall location on the WM property.

VOCs were reported at concentrations above their respective PRG from 1 of the 26 subsurface soil samples. This sample is:

- Sample C7-CWM-SO-X28-UN01-3.5 → 7 VOCs were reported at concentrations above the PRG. This sample was collected from beneath the three pipes at the same location as the wastewater sample discussed above.

The constituents reported in the remaining subsurface soil samples were not reported at concentrations above their PRG.

VOC data suggests that a release of VOC constituents had occurred at beneath the French drain system at excavation X27 and beneath the pipes in the vicinity of CMW-X28.

Results of SVOCs and PAHs

The laboratory analysis reported that three of the six sludge samples exceeded their respective PRG for SVOCs and PAHs. These samples are:

- Sample C7-CWM-SL-X11-WW01-3 → Benz[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, and indeno[1,2,3-cd]pyrene were reported at concentrations above the PRG. This sample was collected from the same location as the wastewater sample discussed above. Note that the line type code in the sample designation is incorrect. The line type was misinterpreted at the time of sampling and was later determined based on historical documentation. However, the original sample name is used in this report in order to maintain the integrity of the legal chain-of-custody. The correct line type code is presented in the header of the analytical summary table.

- Sample C7-CWM-SL-X85-UN01-6 → 7 SVOCs, mainly PAHs were reported at concentrations above the PRG. This sample was collected from the same location as the wastewater sample discussed above.
- Sample C7-CWM-SL-X117-UN01-4 → Benz[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, dibenz[a,h]anthracene, and indeno[1,2,3-cd]pyrene Benzo[a]pyrene were reported at concentrations above the PRG. This sample was collected from within a manhole (U-30).

The constituents reported in the remaining sludge samples were not reported at concentrations above their PRG.

The laboratory analysis reported SVOCs (primarily PAHs, pentachlorophenol, and phthalates) exceeding their respective PRG and/or TOG in 19 wastewater samples.

No SVOCs and PAHs were reported above their respective PRG from the one surface soil sample.

SVOCs and PAHs were reported above their respective PRG criteria from 3 of the 26 subsurface soil samples. These samples are:

- Sample C7-CWM-SO-X115-UN01-1.5 → Benz[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, dibenz[a,h]anthracene, and indeno[1,2,3-cd]pyrene were reported at concentrations above the PRG. This sample was collected from beneath a 4-in. diameter terracotta pipe, trending northeast-southwest, and appears to originate from Building B located to the northeast.
- Sample C7-CWM-SO-X116-UN01-4.5 → Benzo[a]pyrene was reported at a concentration above the PRG. This sample was collected from beneath a 4-in. diameter steel pipe that is trending east, and originates from the sump.
- Sample C7-CWM-SO-X28-WW01-3 → Benzo[a]pyrene was reported at a concentration above the PRG. This sample was collected from beneath the three pipes in AFP-68 Area 14. Note that the line type code in the sample designation is incorrect. The line type was misinterpreted at the time of sampling and was later determined based on historical documentation. However, the original sample name is used in this report in order to maintain the integrity of the legal chain-of-custody. The correct line type code is presented in the header of the analytical summary table.

Results of Pesticides

One pesticide compound, dieldrin was reported above the PRG from the sludge sample C7-CWM-SL-X85-UN01-6. This sample was collected from the same location as the wastewater sample discussed above.

Reported constituents in 5 of the 19 wastewater samples exceeded their respective PRG and/or TOG for pesticides. These samples are as follows:

- Sample C7-CWM-WW-X11-WW01-3 → Heptachlor epoxide was reported at a concentration above the PRG and TOG criteria. This sample was collected from the same location as the sludge sample discussed above. Note that the line type code in the sample designation is incorrect. The line type was misinterpreted at the time of sampling and was later determined based on historical documentation. However, the original sample name is used in this report in order to maintain the integrity of the legal chain-of-custody. The correct line type code is presented in the header of the analytical summary table.
- Sample C7-CWM-WW-X22-UN01-6.5 → 4,4'-DDT concentration was reported at a concentration above the TOG criteria.
- Sample C7-CWM-WW-X28-UN01-3 → Beta-BHC concentration was reported at an estimated concentration above the PRG and TOG criteria. This sample was collected in the same location as the subsurface soil sample discussed above.
- Sample C7-CWM-WW-X74-UN01-4.5 → Heptachlor concentration was reported at an estimated concentration above the TOG criteria. This sample was collected from within a 4-in. diameter steel line, trending north-south, and appears to originate from a sump located on the southeast corner of the earthen berm tank containment area.
- Sample C7-CWM-WW-X118-UN01-4 → 4,4'-DDE and heptachlor concentrations were reported above the PRG and/or TOG criteria. This sample was collected from within a valve station sump.

The constituents reported in the remaining wastewater samples did not exceed their PRG and/or TOG for pesticides.

No pesticides were reported above their respective PRG from the one surface soil sample.

No pesticides were reported above their respective PRG from the 26 subsurface soil samples.

Results of PCBs

One PCB Aroclor, Aroclor 1260 was reported at an estimated concentration exceeding the PRG from the sludge sample C7-CWM-SL-X85-UN01-6 located near the fortifier building within the existing Nitration Houses area.

No PCB Aroclors were reported at concentrations exceeding the PRG and/or TOG from the 19 wastewater samples.

PCB Aroclors were reported at concentrations exceeding the PRG from 2 of the 26 subsurface soil samples. These samples are:

Sample C7-CWM-SO-X28-UN01-2.5 and C7-CWM-SO-X28-WW01-3→ Aroclor 1232 concentration was reported above the PRG. These samples were collected from beneath the pipelines in AFP-68 Area 14. Note that the line type code in the sample designation is incorrect. The line type was misinterpreted at the time of sampling and was later determined based on historical documentation. However, the original sample name is used in this report in order to maintain the integrity of the legal chain-of-custody. The correct line type code is presented in the header of the analytical summary table.

The constituents reported in the remaining subsurface soil samples did not exceed their PRGs for PCBs.

PCBs, specifically Aroclor 1232 was reported at concentrations exceeding the PRG from the subsurface soil samples, suggesting that a release of this PCB Aroclor occurred at this excavation location in this area of the property.

Results of Explosives

No explosives were reported above their respective PRG and/or TOG criteria in the six sludge samples.

Two explosive compounds were reported at concentrations exceeding the PRG and/or TOG from 2 of the 19 wastewater samples. These samples are:

- Sample C7-CWM-WW-X85-UN01-6 → 4-Nitrotoluene concentration was reported above the PRG and TOG criteria. This sample was collected from adjacent to the Fortifier Building within the LOOW Nitration House area.
- Sample C7-CWM-WW-X85-UN02-4 → 1,3-Dinitrobenzene concentration was reported above the PRG criteria.

In addition, HMX was reported in two wastewater samples collected from the control area of the NIKE Base (CWM-X116, lines UN01 and UN02) and in a subsurface soil sample collected from AFP-68 Process Area 4 (CWM-X74) in concentrations that did not exceed the PRG. Nitrobenzene was also reported in several samples in concentrations that did not exceed the PRG.

No explosive compounds were reported above their respective PRG in the 26 subsurface soil samples.

Results of Metals and Cyanide

No cyanide concentrations were reported above their PRG and/or TOG criteria from the six sludge samples, 19 wastewater samples, one surface soil sample, and 26 subsurface soil samples.

Metals were reported at concentrations exceeding their PRG in the six sludge samples. These samples are:

- Sample C7-CWM-SL-X11-WW01-3 → aluminum, arsenic, chromium, and iron were reported at concentrations exceeding the PRG. Note that the line type code in the sample designation is incorrect. The line type was misinterpreted at the time of sampling and was later determined based on historical documentation. However, the original sample name is used in this report in order to maintain the integrity of the legal chain-of-custody. The correct line type code is presented in the header of the analytical summary table.
- Sample C7-CWM-SL-X47-UN02-1 → aluminum, arsenic, and iron were reported at concentrations exceeding the PRG. This sample was collected from within an 8-in. diameter terracotta pipe, trending north-south, and originates from a concrete pad (French drain system).
- Sample C7-CWM-SL-X85-UN01-6 → arsenic, and iron were reported at concentrations exceeding the PRG.
- Sample C7-CWM-SL-X85-UN02-4 → arsenic, iron, lead, and manganese were reported at concentrations exceeding the PRG. This sample was collected from the same location as the wastewater sample discussed above.
- Sample C7-CWM-SL-X117-UN01-4 → aluminum, arsenic, and iron were reported at concentrations exceeding the PRG.
- Sample C7-CWM-SL-X118-UN01-5 → aluminum, arsenic, and iron were reported at concentrations exceeding the PRG. This sample was collected from the same location as the wastewater sample discussed above.

The reported metals in the remaining sludge samples did not exceed the PRG.

Metals were reported in the 19 wastewater samples at concentrations exceeding their PRG and/or TOG. These metals are aluminum, antimony, arsenic, barium, boron, cadmium, chromium, cobalt, copper, iron, lead, lithium, magnesium, manganese, molybdenum, mercury, nickel, selenium, silver, vanadium, and zinc.

Metals were reported at concentrations exceeding their PRG in the 26 subsurface soil samples, as listed below. These metals are aluminum, arsenic, iron, and lead. Metals reported in subsurface soil associated with unknown lines that were statistically greater in concentration than background concentrations are signified by bold text (Table 5-26). Therefore, it is unlikely that these metals present a concern for subsurface soil beneath unknown lines.

- **Aluminum** → Excavation CWM-X11, CWM-X13, CWM-X28 (both samples), CWM-X45, CWM-X47, CWM-X85 (both samples), CWM-X107 through CWM-X109, CWM-X113 (both samples), CWM-X115 through CWM-X120, and CWM-X125
- Arsenic → Excavation CWM-X11, CWM-X13, CWM-X27, CWM-X28 (both samples), CWM-X45, CWM-X47, CWM-X74, CWM-X85 (UN01 sample), CWM-X107 through CWM-X109, CWM-X113 (both samples), CWM-X115 through CWM-X121, and CWM-X125
- Iron → Excavation CWM-X11, CWM-X13, CWM-X22, CWM-X27, CWM-X28 (both samples), CWM-X45, CWM-X47, CWM-X74, CWM-X85 (both samples), CWM-X107 through CWM-X109, CWM-X113 (both samples), CWM-X115 through CWM-X121, and CWM-X125
- **Lead**→ Excavation CWM-X13

Additional metals were reported but did not exceed their respective PRG.

5.3.8.3 The 30-Inch Outfall Line

One sludge and one subsurface soil sample were collected from an unidentified line type encountered during evaluation of the 30-in. outfall line. Whether these lines tied into the 30-in.outfall line is unknown. However, due to the nature of the outfall line (being the final line to convey waste from the LOOW site), all samples associated with the line were included for discussion in a section specific to only the outfall line. Refer to Section 5.3.5 for a discussion of the sludge and subsurface soil sample results.

5.3.8.4 Unknown Lines Summary of Results

The majority of the exceedances of the PRG were collected from the WM property.

The following illustrates the constituents that exceeded the PRG in each matrix from each property.

SUMMARY OF UNKNOWN LINE PRG EXCEEDANCES

	Somerset Group property				WM property			
	SL	WW	SS	SO	SL	WW	SS	SO
VOCs	✓	✓				✓		✓
SVOCs and PAHs	✓	✓		✓	✓	✓		✓
Pesticides		✓			✓	✓		
PCBs				✓	✓			✓
Explosives						✓		
Metals	✓	✓	✓	✓	✓	✓	✓	✓

Due to the fact that these are unknown lines, final disposition of material conveyed through the lines and whether the lines tie-in to other lines is unknown. Many of these lines were discovered during the UURI and were not specifically targeted. In some cases, attempts were made to evaluate the interior of the lines and general direction and length using a push camera (see Appendix B). However, the camera evaluation typically ended at a blockage.

For these reasons, the summary discussion below is organized by area (e.g., AFP-68 process areas, LOOW nitration houses, or NIKE Base) and for the most part, does not draw broad conclusions concerning possible materials may be conveyed to.

In the northern portion of AFP-68, several unknown line types were encountered in the vicinity of the T1T2 building foundations. These buildings are believed to be general storage or administrative buildings and are located outside and north of the main process areas of AFP-68. Several of the line around T1 and T2 were thought to be drain lines, as they were constructed of perforated pipe. Also discovered during the UURI is what appeared to be a temporary septic tank or settling tank west of the T2 foundation. Several of the access points in the foundation of T2 (which may have been drains associated with a lavatory) appeared to tie into the lines encountered just north of the foundation. Generally, subsurface soils were impacted with metals only exceeding PRG. However, PAHs exceeding the PRG were reported in one location, collected beneath a perforated drain line. This drain line may have been associated with a roof drain. In which case, the PAHs may be due to runoff from asphalt shingles. PAHs and metals were also reported in exceedance of the PRG in sludge samples collected from an underground line and the septic tank. A phthalate and metals were reported in the wastewater sample collected from the septic tank at a concentration exceeding the PRG. Concentrations of Aroclor 1254 were reported in a sludge and wastewater sample as well.

Unknown line types were also encountered in other northern AFP-68 process areas, specifically, Process Areas 3, 5, 6. In these areas, metals only were reported in concentrations exceeding the PRG in sludge and subsurface soil samples. However, PAHs, a phthalate, and several pesticides were reported in concentrations exceeding the PRG in a wastewater sample collected from an unknown line north of the former lithium storage building.

In the southern process areas of AFP-68, Process Areas 10 and 14 were the most heavily impacted. In Process Area 10, wastewater collected from a pit located off of the northeast corner of Building 10 was impacted with VOCs (benzene), SVOCs (primarily PAHs), pesticides, and metals in exceedance of the PRG. Metals in particular were in very high concentration in comparison to other wastewater samples collected during the UURI. PAHs and metals in exceedance of the PRG were reported in the sludge sample from this location as well.

In Process Area 14, pipe stickups were observed in the eastern portion of the bermed tank area. The wastewater sample collected from the line exhibited the highest concentrations of VOCs and phenol reported during the UURI. Subsurface soil at this location was also impacted with VOCs and Aroclor 1232 in concentrations exceeding the PRG. Metals were also reported in the subsurface soil and wastewater sample in concentrations that exceeded the PRG.

Unknown line types in the southeastern AFP-68 process areas were not as heavily impacted. However n-nitroso-di-n-propylamine exceeded the PRG in wastewater, dieldrin exceeded in the sludge sample, and metals exceeded the PRG in subsurface soil. However, Aroclor 1260 was reported in a sludge and wastewater sample collected from two different locations within

Area 8, although the concentrations did not exceed the PRG. Subsurface soil beneath the unknown lines in these locations was not impacted by PCBs.

An unknown line was encountered in the central portion of the NIKE Base. The line corresponds to a linear ground scar observed in historical aerial photos. Two excavations were performed and a wastewater and subsurface soil sample was collected from each. PAHs and metals exceeded the PRG in each wastewater sample. Metals exceeded the PRG in subsurface soil. However the concentrations were indicative of background. Several pesticides were also reported in the subsurface soil, but did not exceed the PRG.

In the northern portion of the control area of the NIKE Base, PAHs and metals exceeded the PRG in sludge, wastewater, and subsurface soil. Metals concentrations in subsurface soils were generally indicative of background concentrations. In sludge, metals reported in the samples collected from the silo structure (CMW-X113) were higher (particularly lead) in comparison to other sludge samples. Additional SVOCs (pentachlorophenol and bis 2-ethylhexyl phthalate) were reported in wastewater in concentrations exceeding the PRG. Pesticides also exceeded the PRG in sludge and wastewater, and were reported in subsurface soil but at concentrations that did not exceed the PRG. Concentrations of explosives (HMX and nitrobenzene were reported in

In the southern portion of the control area of the NIKE Base, metals were the only COPCs (in subsurface soil and wastewater). However the concentrations in subsurface soil appeared to be indicative of background concentrations. In wastewater, the sample collected from excavation CWM-X121 appeared to be the most heavily impacted, with arsenic, chromium, cobalt, lithium, magnesium, and vanadium reported in concentrations that were higher in comparison to other wastewater samples in the area.

Generally, the silo structure and the concrete sump located southwest of the barracks building were the more highly impacted structures within the NIKE Base.

Below is a list of COPCs identified for the unknown lines based on comparison to RGC as discussed in Chapter 4.

COPCs in Soil

Twenty five COPCs are identified in soil for the unknown lines based on the residential soil Region 9 PRG screen: aluminum, arsenic, cadmium, chromium, lead, manganese, vanadium, Aroclor 1232, Aroclor 1254, beta-BHC, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, 2-methylnaphthalene, benzene, carbon tetrachloride, chloroform, 1,4-dichlorobenzene, cis-1,2-DCE, isopropyl benzene, PCE, TCE, and m&p-xylene. Iron also exceeded the PRG, but was not selected at a COPC because it is an essential human nutrient. Aluminum, cadmium, chromium, lead, manganese, and vanadium exceeded background concentrations in subsurface soil.

Twenty five COPCs are identified in soil for the unknown lines based on the industrial soil Region 9 PRG screen: aluminum, arsenic, chromium, lead, manganese, Aroclor 1232, Aroclor 1254, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, benzene, carbon tetrachloride, chloroform, 1,4-dichlorobenzene, PCE, TCE, and m&p-xylene. Aluminum, chromium, lead, and manganese exceeded background concentrations in subsurface soil.

COPCs in Sludge

Twenty two COPCs are identified in sludge for the unknown lines based on the residential soil Region 9 PRG screen: aluminum, antimony, arsenic, cadmium, chromium, copper, lead, manganese, mercury, nickel, vanadium, Aroclor 1254, Aroclor 1260, dieldrin, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, phenanthrene, and 1,4-dichlorobenzene.

Sixteen COPCs are identified in sludge for the unknown lines based on the industrial soil Region 9 PRG screen: aluminum, antimony, arsenic, chromium, lead, manganese, Aroclor 1254, Aroclor 1260, dieldrin, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, and phenanthrene.

COPCs in Wastewater

Sixty two COPCs are identified in wastewater for the unknown lines based on comparison to the Region 9 tap water PRG screen: 1,3-dinitrobenzene, 4-nitrotoluene, aluminum, antimony, arsenic, barium, boron, cadmium, chromium, cobalt, copper, lead, lithium, manganese, mercury, molybdenum, nickel, vanadium, zinc, beta-BHC, gamma-chlordane, heptachlor, heptachlor epoxide, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, 2-methylnaphthalene, naphthalene, phenanthrene, 1,2-benzphenanthracene, bis(2-ethylhexyl)phthalate, carbazole, 2-chlorophenol, dibenzofuran, 1,2-dichlorobenzene, 1,4-dichlorobenzene, 4-methylphenol, n-nitroso-di-n-propylamine, 2,2'-oxybis(1-chloropropane), pentachlorophenol, phenol, acetone, benzene, 2-butanone, chlorobenzene, chloroform, 1,1-dichloroethane, 1,2-dichloroethane, cis-1,2-DCE, ethylbenzene, isopropyl benzene, methylene chloride, PCE, 1,1,2-TCA, TCE, toluene, vinyl chloride, m&p-xylene, and o-xylene.

5.3.9 Cooling and Potable Water Lines

A total of six samples were collected from within or beneath the cooling water and/or potable water lines for laboratory analyses as described in Section 2.3.3 of this UURI. Although water lines were not specifically targeted for sample collection, these samples were collected due to field observations indicating odor and at the direction of the USACE oversight inspector.

The samples collected are located on the Somerset Group property and the Waste Management property, and are summarized below.

5.3.9.1 Cooling and Potable Water Lines on Somerset Group Property

A total of five samples were collected from within or beneath the cooling and/or potable water lines located on the Somerset Group property. The cooling and potable water lines were observed from 5.5 to 6.5 ft bgs on the Somerset Group property. Figure 5-7 presents a general overview of the excavation locations on Somerset Group property. Figure 5-23 illustrates the sample locations, sample matrices collected from each location, and summary of results exceeding comparison criteria for samples collected from the lines on the Somerset Group property. Reported analytical results are summarized in Tables 5-10 and 5-14. The following summarizes the number of samples collected for each matrix:

- One wastewater sample from excavation SOM-X14 located in AFP-68 Area 6.
- Four subsurface soil samples from excavations SOM-X14 located in AFP-68 Area 6, SOM-X16 and SOM-X17 located in AFP-68 Area 5, and SOM-X34 located in AFP-68 Area 6.

Results of VOC Analysis

One VOC constituent, benzene was reported above the PRG from the wastewater sample C7-SOM-WW-X14-UN01-6. This sample was collected from within a 6-in. diameter steel pipe that is trending east-west.

No VOCs were reported above their respective PRG from the four subsurface soil samples.

Although benzene (VOCs) was reported at a concentration exceeding the PRG in the one wastewater sample, this constituent or other VOC constituents were not detected in the subsurface soil samples; therefore, suggesting that there was no release of VOCs from this line in this area of the property.

Results of SVOCs and PAHs

11 SVOCs, mainly PAH compounds were reported at concentrations exceeding the PRG and/or TOG criteria from the wastewater sample as illustrated in Figure 5-23.

No SVOCs or PAHs were reported above their respective PRG from the four subsurface soil samples.

Results of Pesticides

No pesticides were reported at concentrations above their respective PRG or TOG from the one wastewater sample and four subsurface soil samples. Therefore, a release of pesticides did not occur from this area of the property.

Results of PCBs

No PCBs were reported in the wastewater or subsurface soil samples associated with the water lines.

Results of Explosives

No explosives were reported above their respective PRG or TOG criteria in the one wastewater sample and four subsurface soil samples. However, nitrobenzene was reported in 3 of the 4 subsurface soil samples in concentrations that did not exceed the PRG.

Results of Metals

No metals were reported in the one wastewater sample at concentrations exceeding the PRG. However, iron was reported at a concentration exceeding the TOG as illustrated in Figure 5-23.

Five metals were reported in the four subsurface soil samples at concentrations exceeding the PRG, as indicated below. However, metals reported in subsurface soils associated with water lines were not statistically higher in concentration than the metals reported in background soil samples.

- Sample C7-SOM-SO-X16-CW01-6.5→ aluminum, arsenic, iron, manganese, and vanadium were reported at concentrations above the PRG. This sample was collected from beneath a 12-in. diameter steel pipe that is trending northwest-southeast. It is important to note that this sample was inadvertently mislabeled as CW. This sample was collected from beneath a cooling water line (WC) and not from beneath a chemical waste sewer line.
- Sample C7-SOM-SO-X17-CW01-8.5→ aluminum, arsenic, iron, manganese, and vanadium were reported at concentrations above the PRG. This sample was collected from beneath a 12-in. diameter steel pipe that is trending north-south. It is important to note that this sample was inadvertently mislabeled as CW. This sample was collected from beneath a cooling water line (WC) and not from beneath a chemical waste sewer line.
- Sample C7-SOM-SO-X14-UN01-6.5→ aluminum, arsenic, iron, manganese, and vanadium were reported at concentrations above the PRG. This sample was collected from beneath the 6-in. diameter steel pipe in the same location as the wastewater sample discussed above.
- Sample C7-SOM-SO-X34-WP01-6→ aluminum, arsenic, iron, manganese, and vanadium were reported at concentrations above the PRG. This sample was collected from beneath the 6-in. diameter steel water line that is trending east-west.

5.3.9.2 Cooling and Potable Water Lines on Waste Management Property

A total of one sample was collected from within the cooling water line located on the WM property. The cooling water lines on the WM property were observed from 4 to 5.5 ft bgs. Figure 5-15 illustrates the sample location, sample matrix collected from the location, and summary of result exceeding comparison criteria for the sample collected from the line on the WM property. Table 5-9 summarizes the reported analytical results. The following is the sample and matrix:

- One wastewater sample collected from excavation CWM-X62 located in Area 11.

Results of VOC Analysis

Two VOCs, cis-1,2-DCE and vinyl chloride were reported at concentrations above the PRG and TOG from the wastewater sample C7-CWM-WW-X62-WC01-4. This sample was collected from within a 20-in. diameter steel water pipe, trending north-south, on the east side of Wesson Street within AFP-68.

Results of SVOCs and PAHs

No SVOCs or PAHs were reported at concentrations exceeding the PRG in the one wastewater sample. However, a PAH compound bis(2-ethylhexyl)phthalate was reported at a concentration exceeding the TOG as illustrated in Figure 5-9.

Results of Pesticides

No pesticides were reported above their respective PRG and/or TOG from the one wastewater sample.

Results of PCBs

No PCB Aroclors were reported in the wastewater sample.

Results of Explosives

No explosives were reported in the wastewater sample.

Results of Metals and Cyanide

No cyanide concentrations were reported above the PRG and/or TOG criteria from the one wastewater sample.

Two metals were reported at concentrations exceeding their PRG and TOG in the one wastewater sample. These metals are iron and manganese.

5.3.9.3 Cooling and Potable Water Lines Summary of Results

The following illustrates the constituents that exceeded the PRG in each matrix from each property.

SUMMARY OF COOLING AND POTABLE WATER LINE PRG EXCEEDANCES

	Somerset Group property		WM property
	WW	SO	WW
VOCs	✓		✓
SVOCs and PAHs	✓	✓	
Pesticides			
PCBs			
Explosives			
Metals		✓	✓

VOCs were reported in both wastewater samples (SOM-X14 and CWM-X62) from the AFP-68 cooling water lines and process water lines on the SOM property and WM property. Benzene exceeded the PRG in the wastewater sample SOM-X14 collected from within the process water line.

Cis-1,2-DCE and vinyl chloride exceeded the PRG in the wastewater sample CWM-X62 from within the cooling water line. A chemical waste sewer line was also present at this location; however, these VOC compounds were not reported in the wastewater sample collected from the chemical waste sewer line.

Concentrations of SVOCs and PAHs were reported in the wastewater sample SOM-X14 from the process water line on the SOM property.

Metals (aluminum, arsenic, iron, manganese, vanadium) were not reported in the wastewater sample exceeding the PRG from the process water line on the SOM property (SOM-X14).

Metals (iron and manganese) were reported in the wastewater sample CWM-X62 from the cooling water line on the WM property.

Aluminum, arsenic, manganese and vanadium were reported in subsurface soil collected from beneath cooling and potable water lines in concentrations that exceeded the PRG. However, the reported concentrations did not exceed background (Tables 5-27 and 5-28).

Sources of these reported constituents are unknown. Although bedding material water collected from this location also reported VOCs, the concentrations were lower and the reported VOCs included TCE and PCE.

5.3.10 Potential Impact To Ground Water

Although ground water was not included as a targeted matrix during the UURI, an evaluation of the possible impact to ground water was performed by calculating site-specific SSLs (see Chapter 4) and performing a comparison of subsurface soil concentrations to the SSLs. Tables 5-30 through 5-33 present the summary of sample results that exceeded the SSLs in subsurface soil for each property. The SSL for iron was exceeded at all properties, and was the sole compound that exceeded SSLs at the Somerset, Town of Lewiston, and 30-inch outfall line properties. Iron concentrations exceeded the PRG as well in many of the reported results. However, because iron is considered an essential human nutrient, it is not identified as a COPC.

The majority of the exceedances on the WM property were VOCs reported in subsurface soil collected from beneath the unknown and wastewater lines (CWM-X28 and X29) associated with the bermed tank containment structure in AFP-68 Process Area 14.

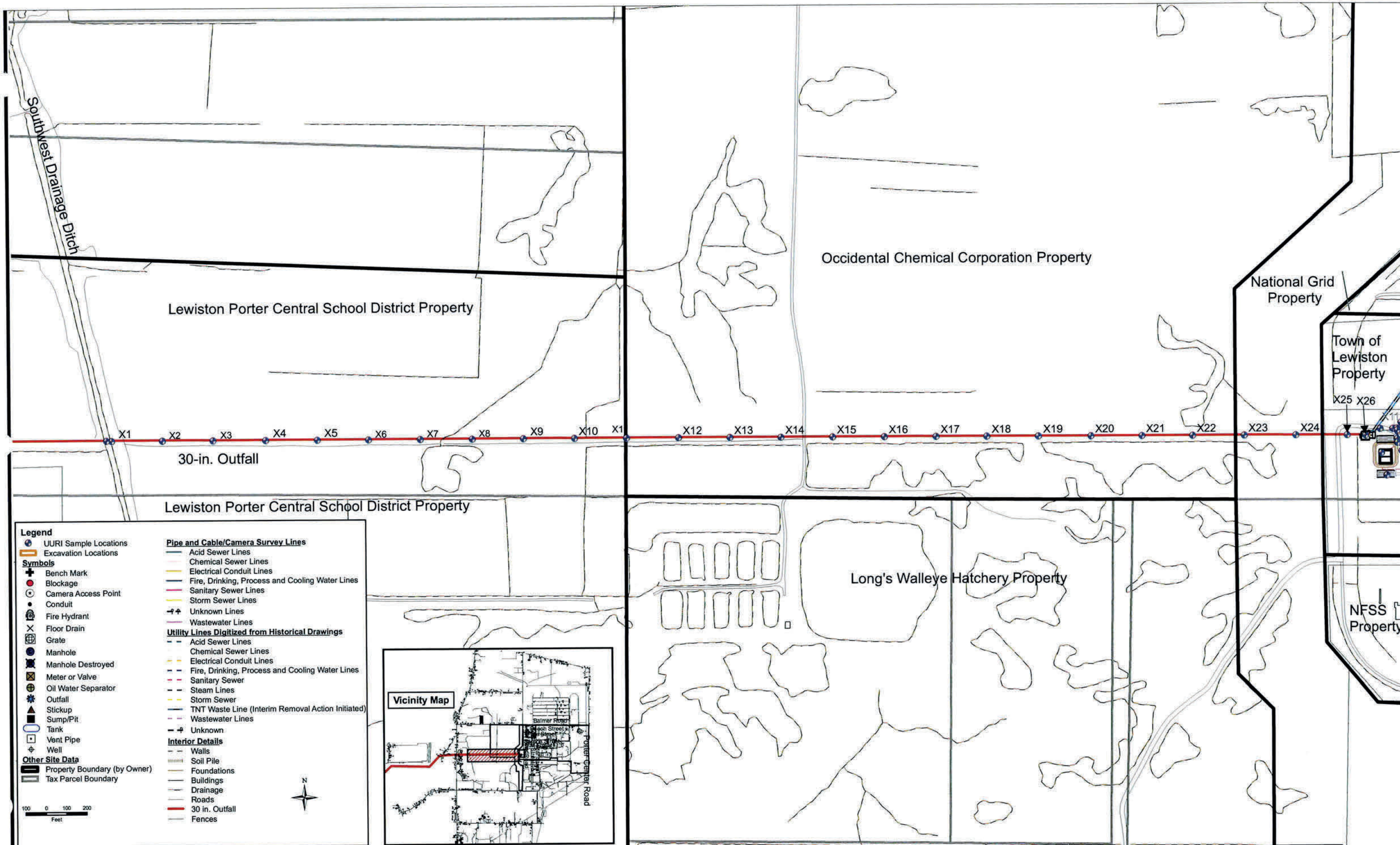
A VOC exceeded the SSL in the subsurface soil sample collected from the sanitary sewer lines in area south of M Street (CWM-X103 and CWM X104) and Process Area 2 (CWM X31). An additional VOC exceeded the SSL in the subsurface soil sample collected from the unknown line exiting the Fortifier Building in the existing Nitration House area (CWM-X85). Nitrobenzene also exceeded the SSL at this location.

One SVOC exceeded the SSL in a subsurface sample collected beneath a line located in AFP-68 Process Area 10 (CWM-X04). An additional PAH was detected exceeded the SSL in a subsurface sample collected beneath a line located at the NIKE Base (CWM-X115).

Several pesticides exceeded the SSL in subsurface soil samples collected beneath lines in AFP-68 Process Areas 20 (CWM-X41) and south of the bermed tank containment structure in Process Area 8 (CWM-X42). One PCB Aroclor exceeded the SSL in a subsurface soil sample collected beneath a line in AFP-68 Process Areas 20 (CWM X37). Underground lines within these two areas are heavily impacted with a multitude of constituents as discussed through Chapter 5. Pesticides and PCB also exceeded the SSL at the bermed tank area in Process Area 14, at CWM-X28 and CWM-X29.

During the Phase II RI (EA 2002), ground water samples were collected in close proximity (well 2—BP2, approximately 10 ft north of the excavation) to CWM-X41. Results indicated concentrations of VOCs but pesticides were not reported. Ground water samples were not collected in the vicinity of Process Area 14.

As discussed in Section 4.3.4, application of SSLs for evaluation of impact to ground water from underground line sources has several limitations resulting in uncertainty with regard to conclusions. The assumptions used are extremely conservative, resulting in exceedance of SSLs that would likely not indicate impact to ground water for all but the most extreme exceedances. In addition, the protective standard upon which the SSL is derived is for drinking water – the only samples where subsurface soil constituent concentrations exceeded the SSLs (with the exception of iron) were collected from WM property, where future use will not include ground water drinking water sources.



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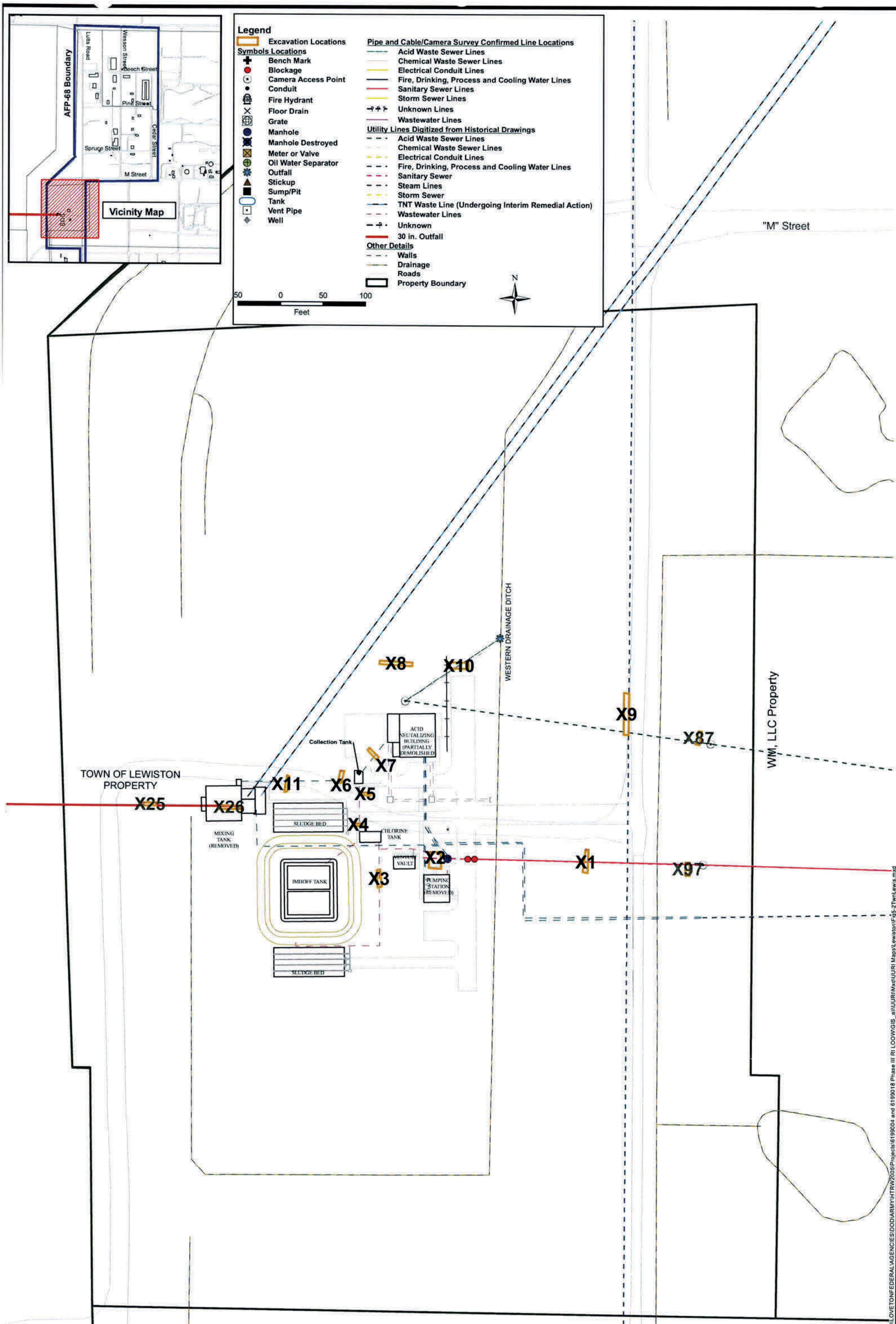
EXCAVATION LOCATIONS AND DESIGNATIONS AT THE 30-INCH OUTFALL LINE, VARIOUS PROPERTY OWNERS

FIGURE 5-1



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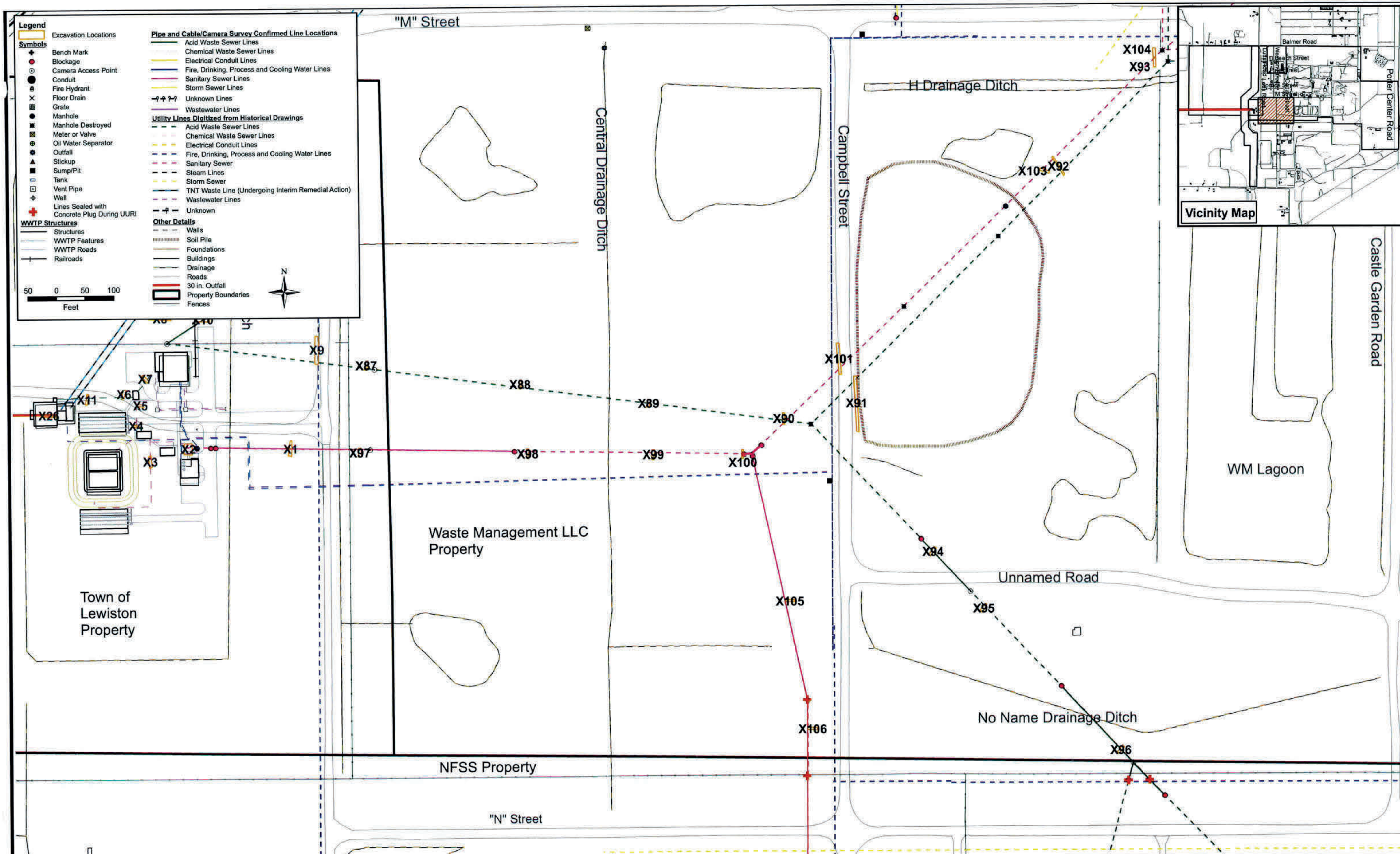
EXCAVATION LOCATIONS AND DESIGNATIONS AT THE FORMER LOOW WASTEWATER TREATMENT PLANT, TOWN OF LEWISTON

FIGURE 5-2



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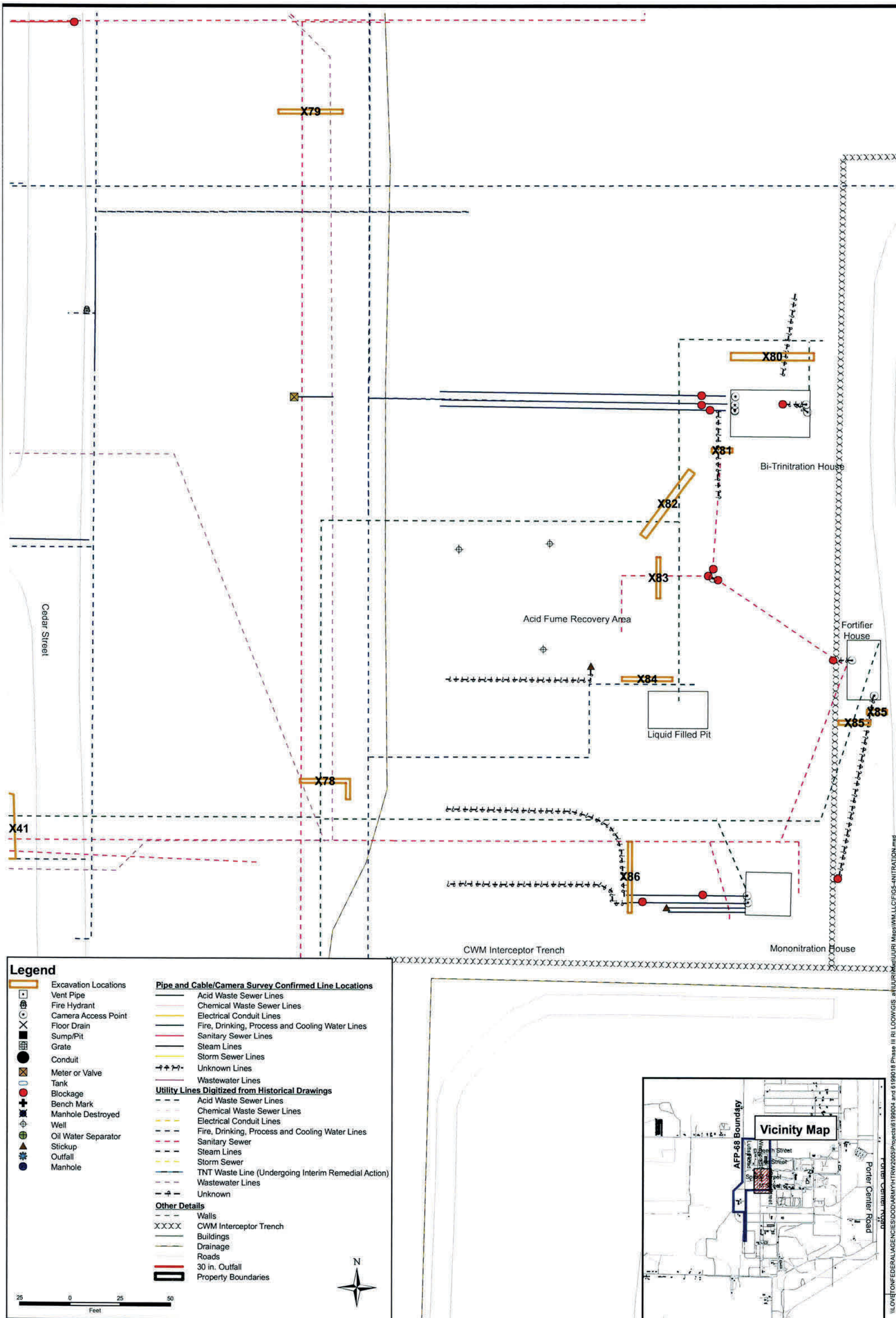
EXCAVATION LOCATIONS AND DESIGNATIONS AT THE AREA SOUTH OF M STREET, WM PROPERTY

FIGURE 5-3



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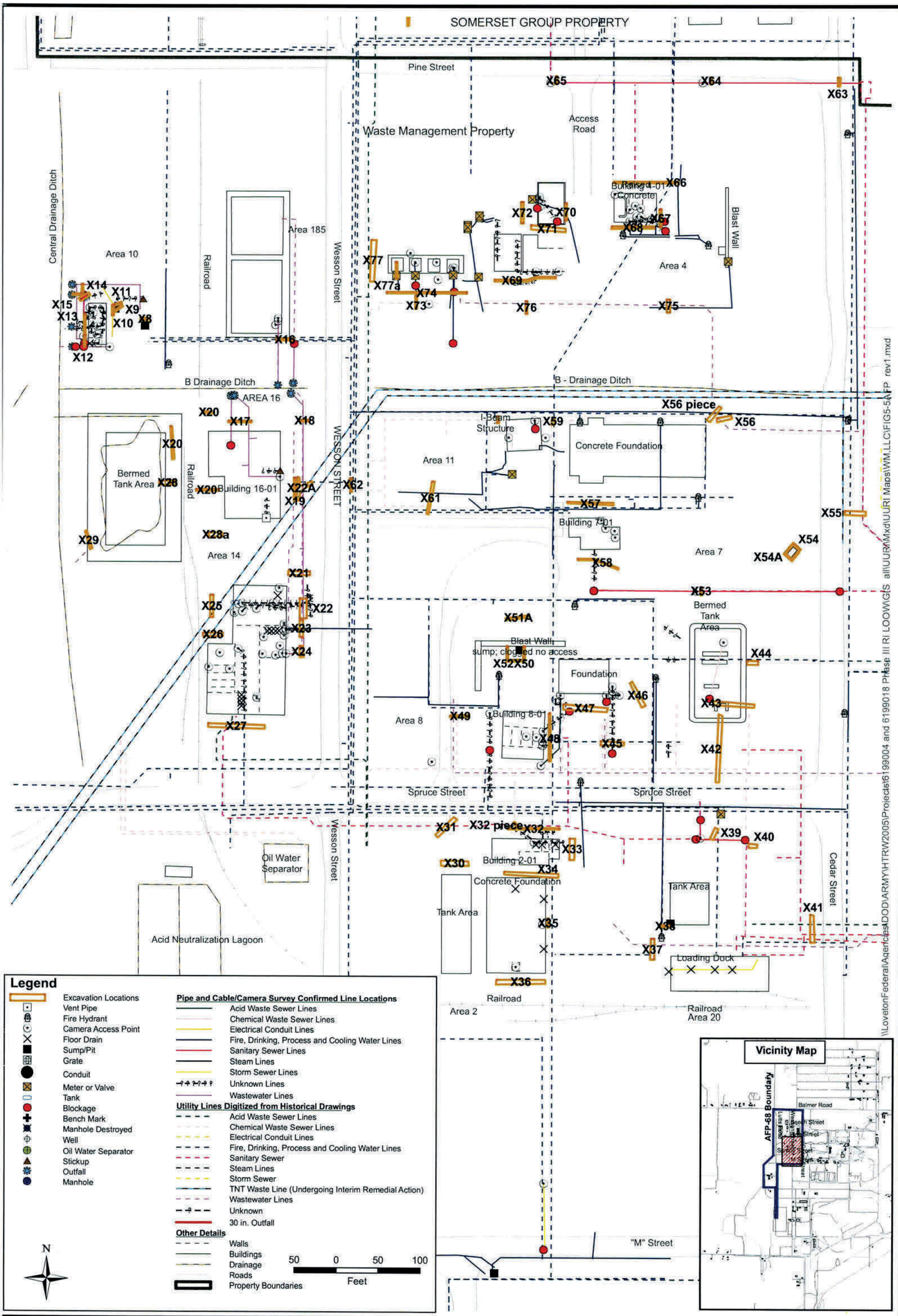
EXCAVATION LOCATIONS AND DESIGNATIONS AT THE FORMER LOOW NITRATION HOUSES, WM PROPERTY

FIGURE 5-4



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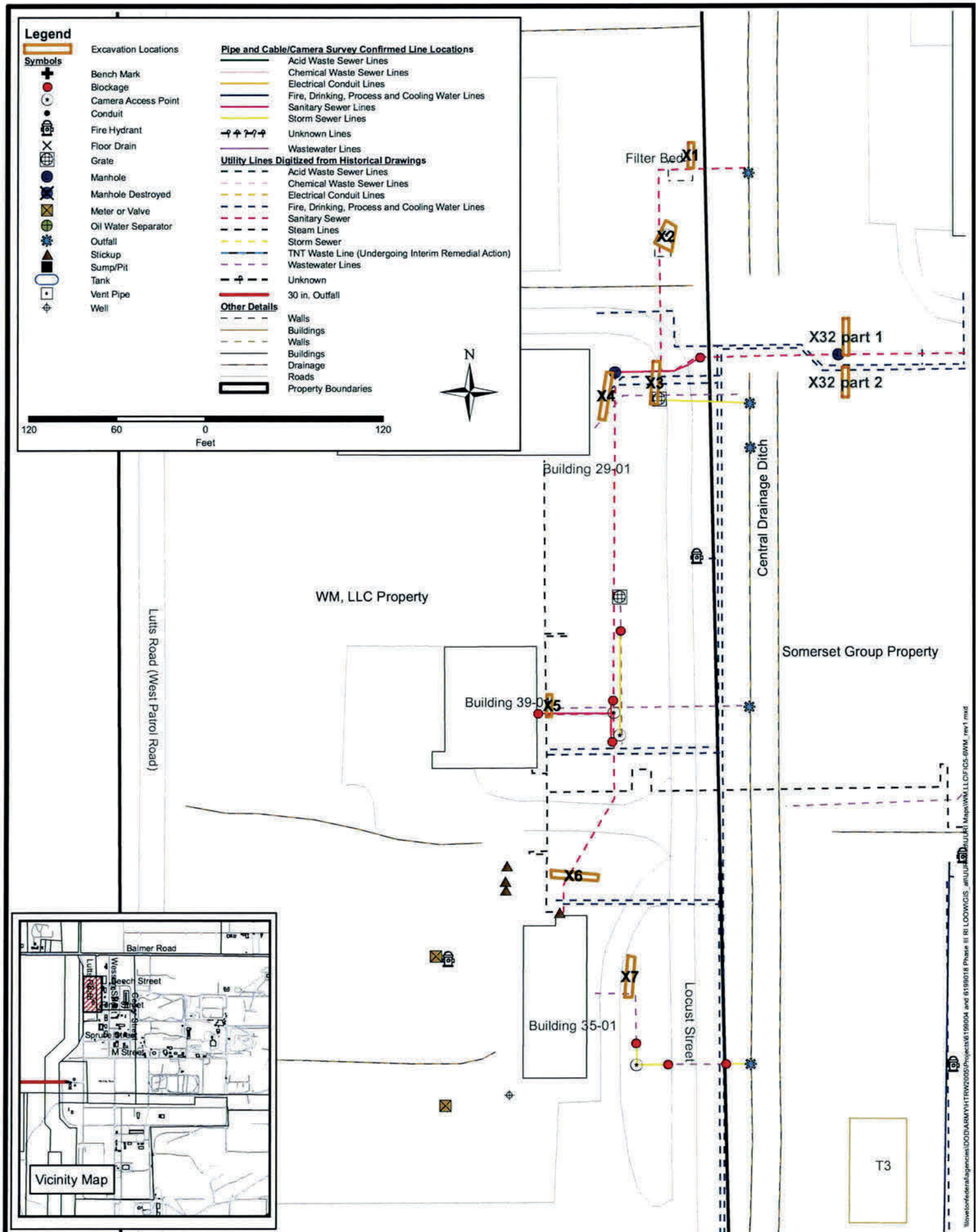
EXCAVATION LOCATIONS AND DESIGNATIONS AT THE FORMER AREA AFP-68 (SOUTHERN PROCESS AREAS), WM PROPERTY

FIGURE 5-5



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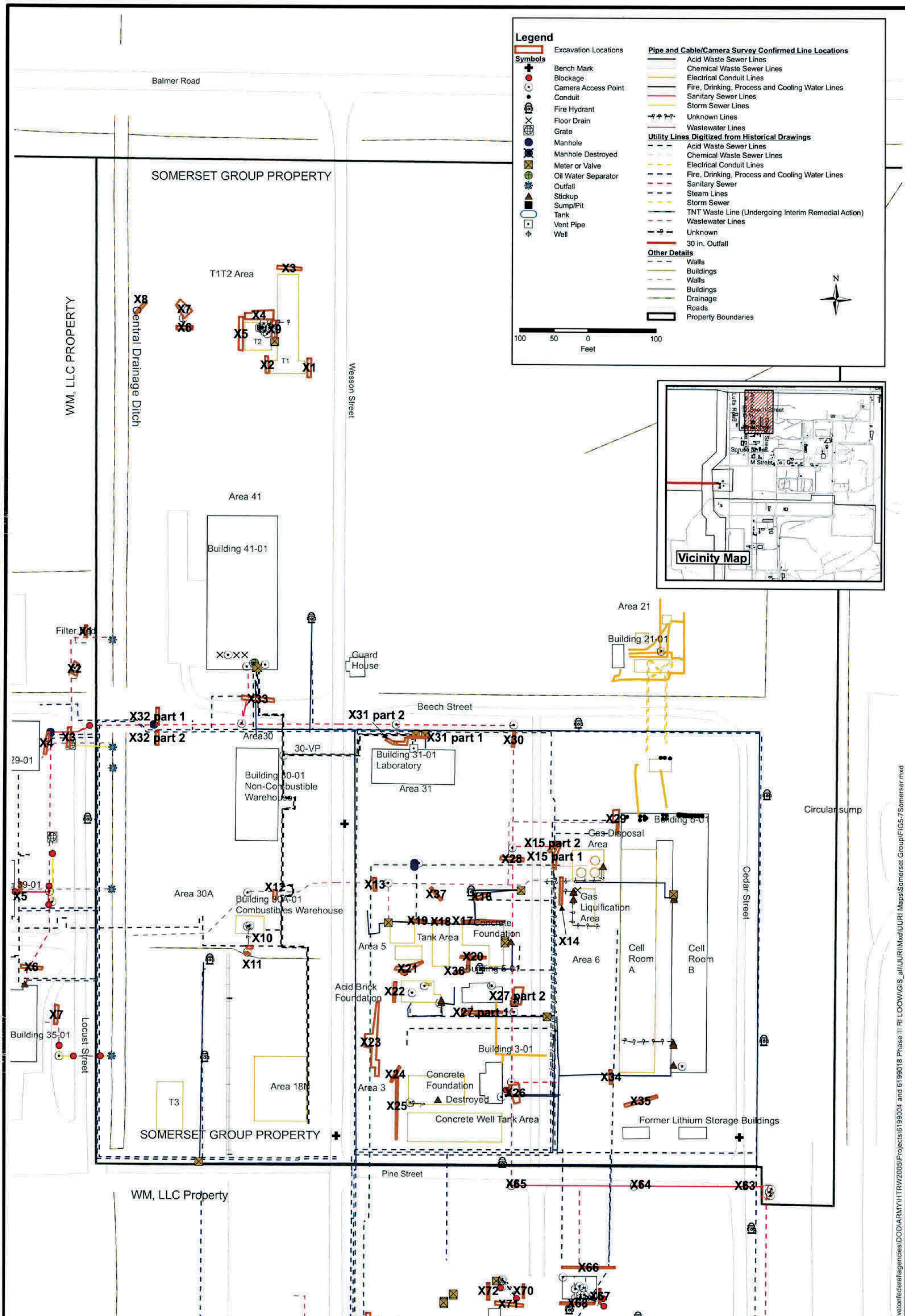
EXCAVATION LOCATIONS AND DESIGNATIONS AT THE FORMER AFP-68 PROCESS AREAS 29, 35 AND39, WM PROPERTY

FIGURE 5-6



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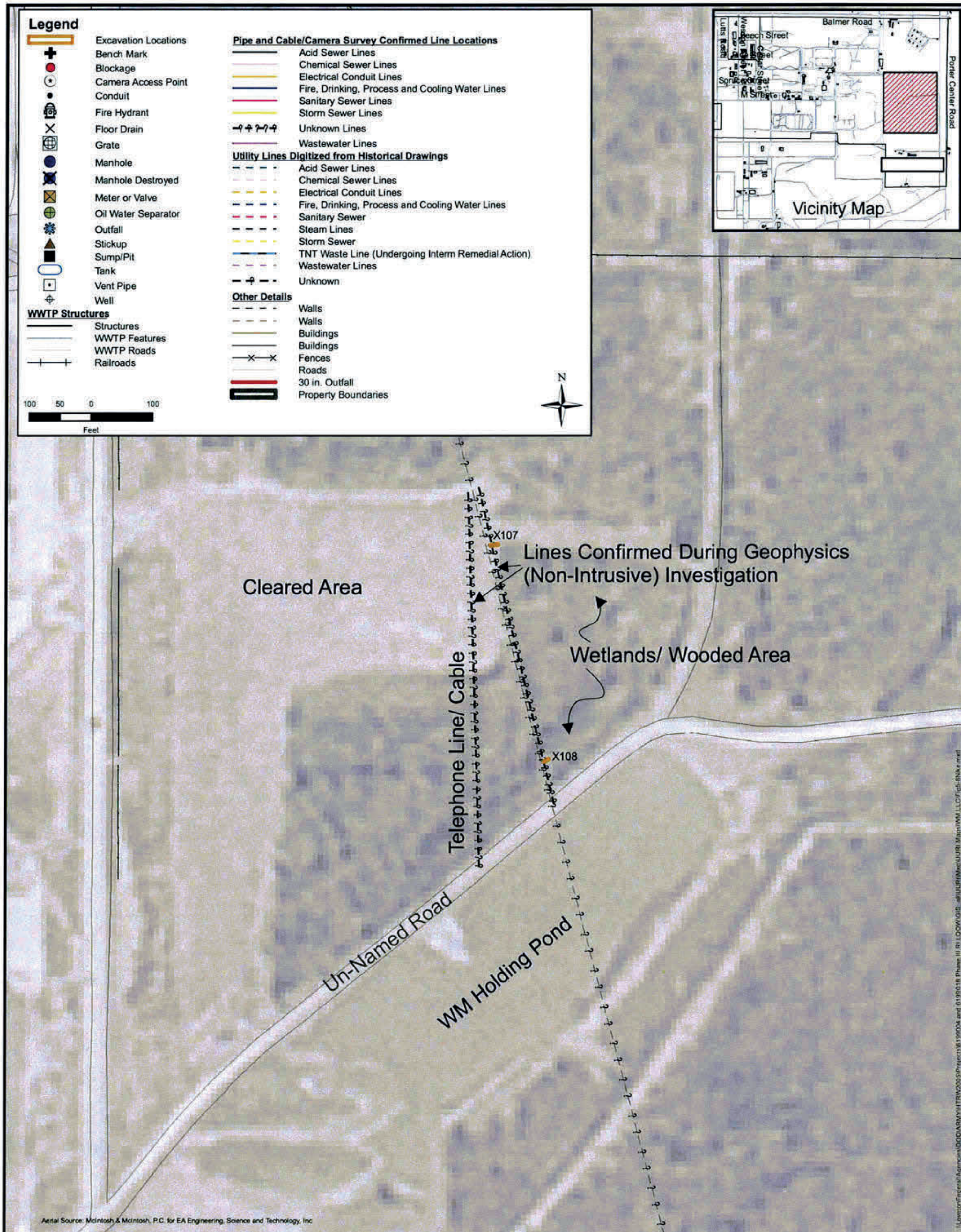
EXCAVATION LOCATIONS AND DESIGNATIONS AT THE FORMER AFP-68 (NORTHERN PROCESS AREAS), SOMERSET GROUP PROPERTY

FIGURE 5-7



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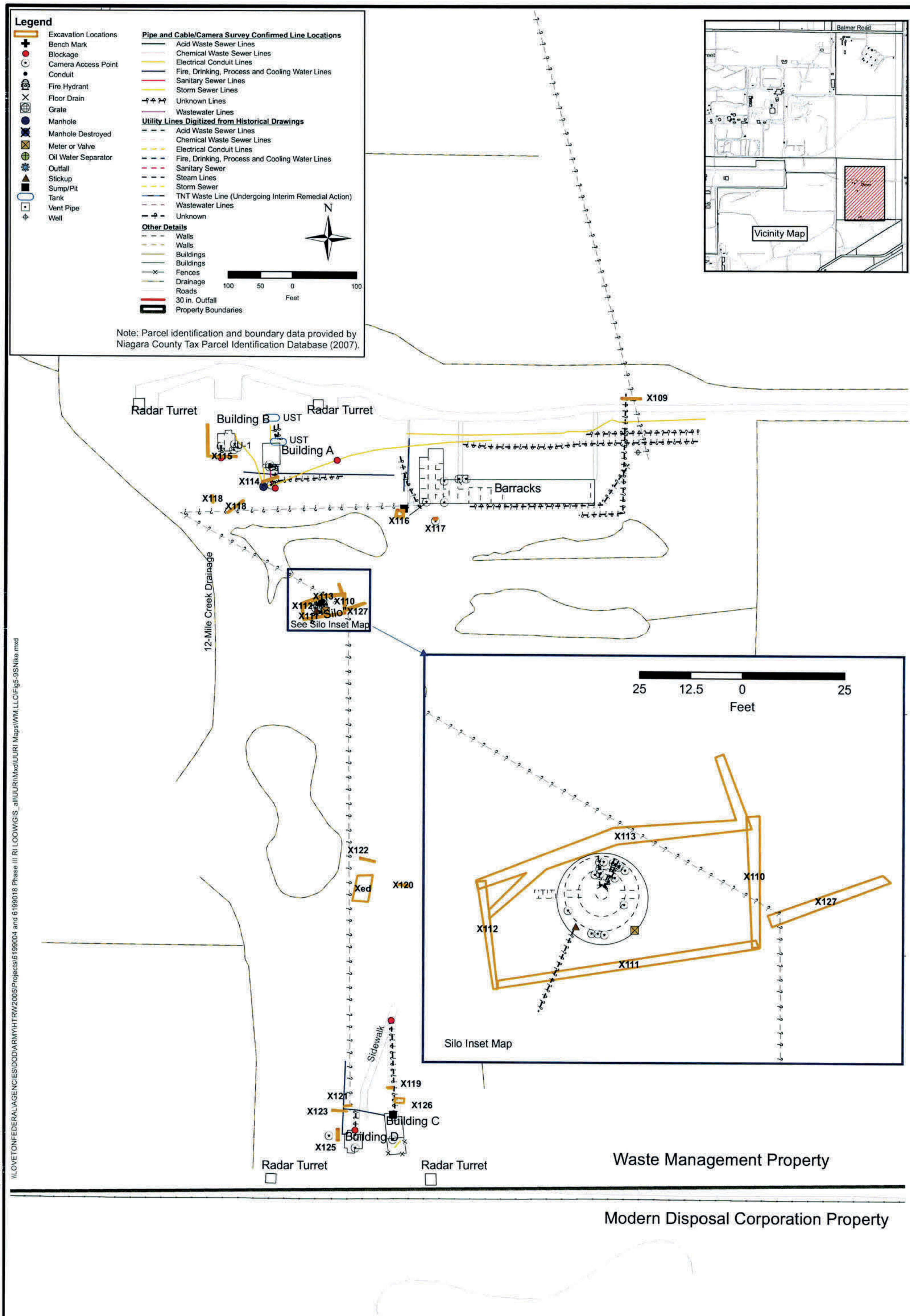
EXCAVATION LOCATIONS AND DESIGNATIONS AT THE CENTRAL PORTION OF THE FORMER NIKE BASE, WM PROPERTY

FIGURE 5-8



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EXCAVATION LOCATIONS AND DESIGNATIONS AT THE CONTROL AREA OF THE FORMER NIKE BASE, WM PROPERTY

FIGURE 5-9

TABLE 5-1 SUMMARY OF BEDDING MATERIAL BENEATH UNDERGROUND LINES

Excavation Number	LineType and Sequential Number	Bedding Material Present?	Bedding Material Description	Liquid Content of Bedding Material
Somerset Group Property				
SOM-X01	UN01		No bedding material present	NA
SOM-X02	UN01		No bedding material present	NA
SOM-X02	UN02	Yes	Course, granular black slag	Dry
SOM-X03	UN01		No bedding material present	NA
SOM-X04	UN01		No bedding material present	NA
SOM-X04	UN06		No bedding material present	NA
SOM-X06	UN01		No bedding material present	NA
SOM-X07	UN01		No bedding material present	NA
SOM-X07	UN01		No bedding material present	NA
SOM-X07	UN01		No bedding material present	NA
SOM-X09	UN01		No bedding material present	NA
SOM-X10	DW01		No bedding material present	NA
SOM-X12	WW01	Yes	Gray limestone screening	Dry
SOM-X12	WW03 manhole		No bedding material present	NA
SOM-X13	WW01	Yes	Gray limestone screening	Dry
SOM-X14	WW01	Yes	#2 crushed stone	Dry
SOM-X14	WC01	Yes	#2 crushed stone	Dry
SOM-X14	WP01	Yes	#2 crushed stone	Dry
SOM-X15	AW01	Yes	Limestone gravel	Dry
SOM-X16	WW01	Yes	Limestone gravel	Dry
SOM-X16	WC01	Yes	Limestone gravel	Moist
SOM-X17	WW01	Yes	Limestone gravel	Dry
SOM-X17	WC01	Yes	Limestone gravel	Dry
SOM-X18	UN01		No bedding material present	NA
SOM-X19	UN01		No bedding material present	NA
SOM-X20	UN01	Yes	#1 crushed limestone rock	Dry
SOM-X21	WW01	Yes	Limestone gravel	Wet
SOM-X22	UN01		No bedding material present	NA
SOM-X23	AW01	Yes	1.5 ft Limestone screening, then 1 ft crushed #1limestone rocks	Wet
SOM-X26	SN01		No bedding material present	NA
SOM-X27	SN01		No bedding material present	NA
SOM-X27	WP01		No bedding material present	NA
SOM-X27	UN01	Yes	Limestone rock drain no line	Dry
SOM-X28	WW01	Yes	Limestone gravel	Dry
SOM-X28	SN01		No bedding material present	NA
SOM-X29	WC01		No bedding material present	Dry
SOM-X29	WW01	Yes	Limestone gravel	Wet
SOM-X30	SN01		No bedding material present	NA
SOM-X32	SN01		No bedding material present	NA
SOM-X33	SN01		No bedding material present	NA
SOM-X33	W01	Yes	Black bedding material	Dry
SOM-X34	WP01		No bedding material present	NA
SOM-X35	UN01	Yes	Pea gravel	Wet

TABLE 5-1 SUMMARY OF BEDDING MATERIAL BENEATH UNDERGROUND LINES

Excavation Number	LineType and Sequential Number	Bedding Material Present?	Bedding Material Description	Liquid Content of Bedding Material
SOM-X36	UN01	Yes	Limestone gravel	Dry
SOM-X37	UN01		No bedding material present	NA
SOM-X38	UN01		No bedding material present	NA
SOM-X38	UN02		No bedding material present	NA
Waste Management Property				
CWM-X01	SN01	Yes	#2 limestone gravel filter bed	Dry
CWM-X02	SN01		No bedding material present	NA
CWM-X03	WW01		No bedding material present	NA
CWM-X03	W01	Yes	Limestone gravel	Dry
CWM-X03	W02	Yes	Limestone gravel	Dry
CWM-X03	SN01		No bedding material present	NA
CWM-X04	WW01		No bedding material present	NA
CWM-X04	SN01		No bedding material present	NA
CWM-X05	SN01		No bedding material present	NA
CWM-X05	ST01		No bedding material present	NA
CWM-X06	SN01	Yes	#1 crushed limestone rock	Dry
CWM-X07	WW01		No bedding material present	NA
CWM-X11	UN01		No bedding material present	NA
CWM-X14	SN01		No bedding material present	NA
CWM-X15	WW01		No bedding material present	NA
CWM-X15	SN01		No bedding material present	NA
CWM-X16	WW01		No bedding material present	NA
CWM-X16	WW02		No bedding material present	NA
CWM-X17	WW01	Yes	#1 crushed limestone rock	Dry
CWM-X17	WW02		No bedding material present	NA
CWM-X18	WW01		No bedding material present	NA
CWM-X19	UN01		No bedding material present	NA
CWM-X21	WW01		No bedding material present	NA
CWM-X21	WW02		No bedding material present	NA
CWM-X22	WW01		No bedding material present	NA
CWM-X22a	CW01	Yes	Chemical waste line. Dust to 1/8" limestone screening	Dry
CWM-X22a	W01		No bedding material present	NA
CWM-X22a	W02		No bedding material present	NA
CWM-X23	W02	Yes	#2 Limestone Rock	Dry
CWM-X24	WW01		No bedding material present	NA
CWM-X27	AW01		No bedding material present	NA
CWM-X27	SN01	Yes	Dust to 1/8" limestone screening	Dry
CWM-X27	UN01	Yes	#2 Limestone Rock	Wet
CWM-X27	W01	Yes	#2 Limestone Rock	Dry
CWM-X28	UN01		No bedding material present	NA
CWM-X29	WW01	Yes	#2 Limestone Rock	Dry
CWM-X31	SN01		No bedding material present	NA
CWM-X32	CW01	Yes	Dust to 1/8" limestone screening	Dry
CWM-X32	W01		No bedding material present	NA
CWM-X32	SN01		No bedding material present	NA

TABLE 5-1 SUMMARY OF BEDDING MATERIAL BENEATH UNDERGROUND LINES

Excavation Number	LineType and Sequential Number	Bedding Material Present?	Bedding Material Description	Liquid Content of Bedding Material
CWM-X33	W01		No bedding material present	NA
CWM-X34	W01		No bedding material present	NA
CWM-X34	W02		No bedding material present	NA
CWM-X34	W03		No bedding material present	NA
CWM-X35	DW01		No bedding material present	NA
CWM-X37	WW01	Yes	#2 Limestone Rock	Wet. Sheen on bedding water.
CWM-X37	W01	Yes	Not noted	Dry
CWM-X38	DW01		No bedding material present	NA
CWM-X38	W01		No bedding material present	NA
CWM-X39	SN01	Yes	Medium Sand	Dry
CWM-X40	SN01	Yes	Medium Sand	Dry
CWM-X41	SN01		No bedding material present	NA
CWM-X41	W01		No bedding material present	NA
CWM-X41	WW01	Yes	#2 limestone and pea gravel	Wet
CWM-X41	AW01		No bedding material present	NA
CWM-X42	SN01	Yes	Fine Gray Sand	Dry
CWM-X42	CW01	Yes	Medium Brown Sand	Dry
CWM-X42	WW01	Yes	Pea Gravel	Dry
CWM-X43	CW01	Yes	Dust to 1/8" limestone screening	Dry
CWM-X44	CW01		No bedding material present	NA
CWM-X45	CW01		No bedding material present	NA
CWM-X45	WW01	Yes	Pea Gravel	Wet
CWM-X45	CW02		No bedding material present	NA
CWM-X45	UN01		No bedding material present	NA
CWM-X47	CW01	Yes	Pea Gravel with fine sand	Wet
CWM-X47	UN02	Yes	Pea Gravel with fine sand	Wet
CWM-X48	CW01	Yes	Limestone dust to 1/8 in.	Dry
CWM-X48	SN01	Yes	#2 Limestone Rock	Dry
CWM-X49	CW01	Yes	Dust to 1/8" limestone screening	Wet
CWM-X49	WW01	Yes	#1 crushed limestone rock	Wet
CWM-X49	CW02	Yes	#1 crushed limestone rock	Wet
CWM-X53	SN01		No bedding material present	NA
CWM-X55	WW01		No bedding material present	NA
CWM-X55	SN01		No bedding material present	NA
CWM-X56	WW01	Yes	#1 crushed limestone rock	Wet
CWM-X58	SN01		No bedding material present	NA
CWM-X59	CW01		No bedding material present	NA
CWM-X60	CW01		No bedding material present	NA
CWM-X61	CW01		No bedding material present	NA
CWM-X61	W01		No bedding material present	NA
CWM-X61	W02		No bedding material present	NA
CWM-X62	CW01	Yes	#1 crushed limestone rock	Wet
CWM-X62	WC01		No bedding material present	NA
CWM-X63	SN01		No bedding material present	NA
CWM-X64	SN01		No bedding material present	NA
CWM-X65	SN01		No bedding material present	NA
CWM-X66	SN01		No bedding material present	NA

TABLE 5-1 SUMMARY OF BEDDING MATERIAL BENEATH UNDERGROUND LINES

Excavation Number	LineType and Sequential Number	Bedding Material Present?	Bedding Material Description	Liquid Content of Bedding Material
CWM-X66	W01		No bedding material present	NA
CWM-X66	W02		No bedding material present	NA
CWM-X68	W01		No bedding material present	NA
CWM-X69	W01		No bedding material present	NA
CWM-X69	W02		No bedding material present	NA
CWM-X69	W03		No bedding material present	NA
CWM-X72	W01		No bedding material present	NA
CWM-X72	W02		No bedding material present	NA
CWM-X72	W03		No bedding material present	NA
CWM-X74	W01		No bedding material present	NA
CWM-X74	W02		No bedding material present	NA
CWM-X74	W03		No bedding material present	NA
CWM-X74	W04		No bedding material present	NA
CWM-X74	W05		No bedding material present	NA
CWM-X75	W01		No bedding material present	NA
CWM-X75	WW01	Yes	#1 crushed limestone rock	Wet
CWM-X76	WW01	Yes	#1 crushed limestone rock	Wet
CWM-X77a	DW01		No bedding material present	NA
CWM-X78	WW01		No bedding material present	NA
CWM-X83	SN01		No bedding material present	NA
CWM-X85	UN01		No bedding material present	NA
CWM-X85	UN02		No bedding material present	NA
CWM-X86	SN01		No bedding material present	NA
CWM-X86	W01		No bedding material present	NA
CWM-X86	W02		No bedding material present	NA
CWM-X89	AW01		No bedding material present	NA
CWM-X90	AW01		No bedding material present	NA
CWM-X91	AW01		No bedding material present	NA
CWM-X92	AW01		No bedding material present	NA
CWM-X94	AW01		No bedding material present	NA
CWM-X95	AW01		No bedding material present	NA
CWM-X96	AW01		No bedding material present	NA
CWM-X97	SN01		No bedding material present	NA
CWM-X98	SN01		No bedding material present	NA
CWM-X99	SN01		No bedding material present	NA
CWM-X100	SN01		No bedding material present	NA
CWM-X101	SN01		No bedding material present	NA
CWM-X103	SN01		No bedding material present	NA
CWM-X104	SN01		No bedding material present	NA
CWM-X105	SN01		No bedding material present	NA
CWM-X106	SN01		No bedding material present	NA
CWM-X107	UN01		No bedding material present	NA
CWM-X108	UN01		No bedding material present	NA
CWM-X109	UN01		No bedding material present	NA
CWM-X113	DW01		No bedding material present	NA
CWM-X113	UN01		No bedding material present	NA
CWM-X113	UN02		No bedding material present	NA
CWM-X113	UN03		No bedding material present	NA

TABLE 5-1 SUMMARY OF BEDDING MATERIAL BENEATH UNDERGROUND LINES

Excavation Number	LineType and Sequential Number	Bedding Material Present?	Bedding Material Description	Liquid Content of Bedding Material
CWM-X114	SN01		No bedding material present	NA
CWM-X115	SN01		No bedding material present	NA
CWM-X116	DW01		No bedding material present	NA
CWM-X116	UN02		No bedding material present	NA
CWM-X116	UN01		No bedding material present	NA
CWM-X116	UN03		No bedding material present	NA
CWM-X117	UN01		No bedding material present	NA
CWM-X118	UN01	Yes	#2 Limestone Rock	Dry
CWM-X119	UN01		No bedding material present	NA
CWM-X120	UN01		No bedding material present	NA
CWM-X121	UN01		No bedding material present	NA
CWM-X121	W01		No bedding material present	NA
CWM-X125	UN02		No bedding material present	NA
Town of Lewiston Property				
LEW-X01	SN01		No bedding material present	NA
LEW-X02	SN01		No bedding material present	NA
LEW-X02	W01		#2 Limestone Rock	Dry
LEW-X02	W02		#2 Limestone Rock	Dry
LEW-X03	SN01		No bedding material present	NA
LEW-X04	SN01		No bedding material present	NA
LEW-X05	SN01		No bedding material present	NA
LEW-X06	AW01		No bedding material present	NA
LEW-X07	AW01		No bedding material present	NA
LEW-X09	AW01		No bedding material present	NA
LEW-X09	W01		No bedding material present	NA
LEW-X10	WW01		No bedding material present	NA
LEW-X11	AW01		No bedding material present	NA
30-In. Outfall (Various Property Owners)				
OCC 1 to OCC 26	SN01		No bedding material present	NA

Shading indicates liquid was present in bedding material and sample was collected.

The sample collected from CWM-X27 was from a french drain comprised of bedding material.

TABLE 5-2 KEY TO CHAPTER 5 DATA SUMMARY TABLES

Field samples collected from LOOW were assigned a unique sample designation. Sample designations were comprised of an alpha-numeric code which identified each sample by the component (C7 for underground utilities), property owner (as listed below, e.g., LEW for Town of Lewiston), matrix (soil, sludge, etc.), excavation location, line type and number (e.g., UN01 is the first unknown line in that excavation), and sample end depth.

The following is an example for a soil sample collected from an unknown line type in excavation 85 on WM property. :

C7–	CWM-	SO-	X85-	UN01-	4.5
Underground utility	Property code for WM	Matrix code for soil	Code for excavation number	Code for line type and line number within excavation	Sample end depth

Codes used for identification of property owners:

CWM	WM LLC property
LEW	Town of Lewiston property
SOM	Somerset Group property
OCC	Represents various property owners along the 30-in. outfall line.

Codes used for sample matrix identification:

SL	Sludge
SO	Soil (surface or subsurface dependent upon sample end depth)
SS	Surface Soil
WW	Wastewater
WS	Suface water
SD	Sediment
WB	Bedding material water

Codes used for line type:

AW = Acid Waste
CW = Chemical Waste
DW = Drains, Pits, Sumps, and/or Vaults
SN = Sanitary Sewer
WW = Wastewater
UN = Unknown
WP = Potable Water
WC = Cooling Water
ST = Storm Sewers

Other abbreviations:

Crit 1 = Risk-Based Criteria number 1 and the primary criteria used for identificaion of COPC. For soil, sludge, and sediment this is the EPA Region 9 PRG. For wastewater and surface water this is the EPA Region 9 tap water PRG (see Section 4).
Crit 2 = Risk-Based Criteria number 2, not used for identification of COPC unless a Region 9 PRG is not available (see Section 4). For soil, sludge, and sediment this is NYSDEC TAGM 4046 risk-based criteria. For wastwater and surface water, this is the NYSDEC TOG (see Section 4).
Crit 3 = Site Specific Soil Screening Levels (SSLs)

Shading:

For sludge:

yellow shading = analyte concentration exceeds Crit 1 (EPA Region IX PRG, or if no PRG was available, NYSDEC TAGM 4046 risk-based value).

For wastewater and bedding water:

yellow shading = analyte concentration exceeds Crit 1 (Region 9 PRG, or if no PRG was available NYSDEC TAGM 4046 risk-based value).
blue shading = analyte concentration exceeds Crit 2 (NYS TOG)
green shading - analyte concentration exceeds both Crit 1 and Crit 2

For surface soil:

yellow shading = analyte concentration exceeds Crit 1 (Region 9 PRG, or if no PRG was available NYSDEC TAGM 4046 risk-based value).
dots = analyte concentration for that line type exceeds background concentration

For subsurface soil:

yellow shading = analyte concentration exceeds Crit 1 (Region 9 PRG, or if no PRG was available NYSDEC TAGM 4046 risk-based value).
blue shading = analyte concentration exceeds Crit 3 (site-specific soil screening levels).
green shading - analyte concentration exceeds both Crit 1 and Crit 3
dots = analyte concentration for that line type exceeds background concentration

Other: Blank cells indicate constituent was not analyzed for. U indicates the constituent was not detected. See Table 4-6 for definition of other data qualifiers.

TABLE 5-3 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, 30-INCH OUTFALL LINE, VARIOUS PROPERTY OWNERS, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	30IN	UN
			Excavation:	X11	X26
			Sample Name:	C7-OCC-SL-X11-MH01-5	C7-OCC-SL-X26-UN01-5.5
			Sample Depth:	5 FT	5.5 FT
			Sample Date:	8/9/2006	8/14/2006
			Parent Name:		
Analyte	**Crit1**	**Crit2**	**Unit**		
Volatile Organic Compounds (8260B)					
2-BUTANONE	2200000	400000	UG/KG	64 U	34 J
ACETONE	1400000	800000	UG/KG	64 U	110 J
Semi-Volatile Organic Compounds (8151/8270C/8310)					
1,2-BENZPHENANTHRACENE	62000		UG/KG	14000 J	97 J
ACENAPHTHYLENE	370000		UG/KG	28 J	84 U
ANTHRACENE	2200000	2000000	UG/KG	1900 J	84 U
BENZ[A]ANTHRACENE	620	224	UG/KG	**12000 J**	100 J
BENZO[A]PYRENE	62	60.9	UG/KG	**11000 J**	**80 J**
BENZO[B]FLUORANTHENE	620	224	UG/KG	**21000 J**	84 U
BENZO[GHI]PERYLENE	230000		UG/KG	6500 J	67 J
BENZO[K]FLUORANTHENE	6200	224	UG/KG	**8900 J**	84 U
BIS(2-ETHYLHEXYL) PHTHALATE	35000	50000	UG/KG	150 J	84 U
CARBAZOLE	24000		UG/KG	200 J	63 J
DIBENZ[A,H]ANTHRACENE	62	14.3	UG/KG	**1600 J**	84 U
DIBENZOFURAN	15000		UG/KG	42 J	84 U
FLUORANTHENE	230000	300000	UG/KG	13000 J	190 J
FLUORENE	270000	300000	UG/KG	53 J	84 U
INDENO[1,2,3-CD]PYRENE	620		UG/KG	**5100 J**	59 J
PHENANTHRENE	5600		UG/KG	3400 J	110 J
PYRENE	230000	200000	UG/KG	9600 J	230 J
Metals (6010B/6020/7841/7470A/7471A)					
ALUMINUM	7600		MG/KG	1510 J	**20800 J**
ANTIMONY	3.1		MG/KG	3.5 U	0.43 J
ARSENIC	0.39		MG/KG	**4.4 J**	**17.3 J**
BARIUM	540		MG/KG	43.3 J	174 J
BERYLLIUM	15		MG/KG	.69 U	0.95 J
BORON	1600		MG/KG	69.2 U	33.1 J
CADMIUM	3.7		MG/KG	1.7 U	0.68 J
CALCIUM			MG/KG	2930 J	92700 J
CHROMIUM	22		MG/KG	3.4 J	**91.4 J**
COBALT	140		MG/KG	2 J	21.6 J
COPPER	310		MG/KG	4.6 J	60.3 J
IRON	2300		MG/KG	**40800 J**	**119000 J**
LEAD	400		MG/KG	19.7 J	261 J
LITHIUM	160		MG/KG	1.3 J	34.9 J

TABLE 5-3 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, 30-INCH OUTFALL LINE, VARIOUS PROPERTY OWNERS, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	30IN	UN
			Excavation:	X11	X26
			Sample Name:	C7-OCC-SL-X11-MH01-5	C7-OCC-SL-X26-UN01-5.5
			Sample Depth:	5 FT	5.5 FT
			Sample Date:	8/9/2006	8/14/2006
			Parent Name:		
Analyte	**Crit1**	**Crit2**	**Unit**		
MAGNESIUM			MG/KG	574 J	23000 J
MANGANESE	180		MG/KG	**303 J**	**1640 J**
MERCURY	2.3		MG/KG	0.63 J	**2.4 J**
MOLYBDENUM	39		MG/KG	17.3 U	2.1 J
NICKEL	160		MG/KG	4.3 J	40.5 J
POTASSIUM			MG/KG	309 J	3550 J
SILVER	39		MG/KG	1 U	1 J
SODIUM			MG/KG	3460 U	688 J
VANADIUM	7.8		MG/KG	34.6 U	**49.3 J**
ZINC	2300		MG/KG	34.6 U	486 J
General Chemistry					
PERCENT SOLIDS			%	16	40

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-4 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, TOWN OF LEWISTON PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	AW	AW	DW	DW	DW	DW
			Excavation:	X07	X11	X00	X00	X00	X00
			Sample Name:	C7-LEW-SL-X07-AW01-4	C7-LEW-SL-X11-AW01-4.5	C7-LEW-SL-X00-DW02-6	C7-LEW-SL-X00-DW03-16	C7-LEW-SL-X00-DW04-1	C7-CWM-SL-X00-DW05-1.5 [1]
			Sample Depth:	3.5 FT	4.5 FT	6 FT	16 FT	1 FT	15 FT
			Sample Date:	8/17/2006	8/17/2006	8/22/2006	8/22/2006	8/22/2006	9/7/2006
			Parent Name:						
Analyte	**Crit1**	**Crit2**	**Unit**						
Volatile Organic Compounds (8260B)									
1,1,2,2-TETRACHLOROETHANE	410	35000	UG/KG	24 U	13 U	24 U	**6300 J**	7.3 U	7300 U
2-BUTANONE	2200000	400000	UG/KG	49 U	26 U	66 J	6500 U	4.6 J	15000 U
ACETONE	1400000	800000	UG/KG	49 U	100 J	250 J	4400 J	30	15000 U
CHLOROFORM	220	80000	UG/KG	24 U	13 U	5.4 J	3200 U	7.3 U	7300 U
ETHYLBENZENE	40000	800000	UG/KG	24 U	13 U	24 U	1300 J	7.3 U	7300 U
ISOPROPYLBENZENE	57000		UG/KG	24 U	13 U	24 U	860 J	7.3 U	7300 U
M+P-XYLENE	27000	20000000	UG/KG	24 U	13 U	5.7 J	2800 J	2.9 J	1600 J
METHYLENE CHLORIDE	9100	93000	UG/KG	49 U	26 U	47 U	1100 J	15 U	15000 U
O-XYLENE	27000	20000000	UG/KG	24 U	13 U	24 U	1400 J	7.3 U	7300 U
TOLUENE	52000	2000000	UG/KG	24 U	13 U	24 U	660 J	7.3 U	**59000 J**
VINYL CHLORIDE	79	360	UG/KG	49 U	26 U	6.6 J	6500 U	15 U	15000 U
Semi-Volatile Organic Compounds (8151/8270C/8310)									
1,2-BENZPHENANTHRACENE	62000		UG/KG	220 U	**630000 J**	880 J	30000 J	21 J	34000 J
2-METHYLNAPHTHALENE	5600		UG/KG	220 U	75000 U	320 U	**55000 J**	7.4 U	**38000 J**
4-CHLOROANILINE	24000	30000	UG/KG	220 U	**320000 J**	320 U	1700 U	7.4 U	390 U
4-METHYLPHENOL	31000	400000	UG/KG	1100 U	370000 U	1600 U	8600 U	7.4 J	1900 U
ACENAPHTHENE	370000	500000	UG/KG	220 U	22000 J	320 U	16000 J	7.4 U	7600 J
ACENAPHTHYLENE	370000		UG/KG	220 U	41000 J	170 J	4000 J	2.2 J	390 U
ANTHRACENE	2200000	2000000	UG/KG	220 U	75000 U	95 J	10000 J	2.2 J	20000 J
BENZ[A]ANTHRACENE	620	224	UG/KG	220 U	**590000 J**	**680 J**	**22000 J**	20 J	**65000 J**
BENZO[A]PYRENE	62	60.9	UG/KG	220 U	**620000 J**	**740 J**	**27000 J**	28	**29000 J**
BENZO[B]FLUORANTHENE	620	224	UG/KG	350 J	**1000000 J**	**1600 J**	**38000 J**	42 J	**34000 J**
BENZO[GHI]PERYLENE	230000		UG/KG	230 J	**490000 J**	820 J	23000 J	34	23000 J
BENZO[K]FLUORANTHENE	6200	224	UG/KG	120 J	**310000 J**	440 J	1700 U	14	**20000 J**
BIS(2-ETHYLHEXYL) PHTHALATE	35000	50000	UG/KG	220 U	**1100000 J**	320 U	3600 J	7.4 U	5700 J
CARBAZOLE	24000		UG/KG	220 U	**67000 J**	320 U	8100 J	7.4 U	7100 J
DIBENZ[A,H]ANTHRACENE	62	14.3	UG/KG	220 U	**110000 J**	**190 J**	**4000 J**	7.4 U	**11000 J**
DIBENZOFURAN	15000		UG/KG	220 U	75000 U	320 U	**15000 J**	7.4 U	5400 J
FLUORANTHENE	230000	300000	UG/KG	380 J	**1100000 J**	1600 J	61000 J	34	130000 J
FLUORENE	270000	300000	UG/KG	220 U	75000 U	320 U	20000 J	7.4 U	390 U
HEXACHLORO-1,3-BUTADIENE	1800		UG/KG	220 U	75000 U	320 U	520 J	7.4 U	390 U
INDENO[1,2,3-CD]PYRENE	620		UG/KG	220 U	**420000 J**	**700 J**	**24000 J**	25	**23000 J**
NAPHTHALENE	5600	30000	UG/KG	220 U	**34000 J**	320 U	**120000 J**	7.4 U	**14000 J**
PHENANTHRENE	5600		UG/KG	210 J	**360000 J**	550 J	**50000 J**	11 J	**82000 J**

TABLE 5-4 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, TOWN OF LEWISTON PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	AW	AW	DW	DW	DW	DW
			Excavation:	X07	X11	X00	X00	X00	X00
			Sample Name:	C7-LEW-SL-X07-AW01-4	C7-LEW-SL-X11-AW01-4.5	C7-LEW-SL-X00-DW02-6	C7-LEW-SL-X00-DW03-16	C7-LEW-SL-X00-DW04-1	C7-CWM-SL-X00-DW05-1.5 [1]
			Sample Depth:	3.5 FT	4.5 FT	6 FT	16 FT	1 FT	15 FT
			Sample Date:	8/17/2006	8/17/2006	8/22/2006	8/22/2006	8/22/2006	9/7/2006
			Parent Name:						
Analyte	**Crit1**	**Crit2**	**Unit**						
PYRENE	230000	200000	UG/KG	310 J	**870000 J**	1200 J	46000 J	28 J	71000 J
Pesticides (8081)/Polychlorinated Biphenyls(8082)									
4,4'-DDD	2400	2900	UG/KG	110 U	4.4 U	4 J	200 J	1.9 U	9.7 U
4,4'-DDE	1700	2100	UG/KG	110 U	4.4 U	7.9 U	43 U	1.9 U	9.7 U
4,4'-DDT	1700	2100	UG/KG	110 U	4.4 U	19 J	19 J	1.9 U	9.7 U
ALPHA-BHC	90	111	UG/KG	110 U	4.4 U	7.9 U	43 U	1.9 U	9.7 U
AROCLOR 1254	110	1000	UG/KG	**60000 J**	44 U	79 U	86 U	19 U	97 U
AROCLOR 1260	110	1000	UG/KG	**5500**	44 U	79 U	86 U	19 U	97 U
BETA-BHC	320	3890	UG/KG	110 U	4.4 U	2.4 J	43 U	1.9 U	9.7 U
DIELDRIN	30	44	UG/KG	**1000 J**	4.4 U	2.6 J	43 U	1.9 U	9.7 U
ENDOSULFAN I	37000		UG/KG	1600 J	4.4 U	5.9 J	43 U	1.9 U	9.7 U
GAMMA-CHLORDANE	1600	500	UG/KG	110 U	4.4 U	7.9 U	43 U	1.9 U	9.7 U
Explosives (8330)									
2,4-DINITROTOLUENE	720		UG/KG	580	100 U	100 U	100 U	100 U	100 U
2-AMINO-4,6-DINITROTOLUENE	1200		UG/KG	99 U	100 U	100 U	240	100 U	100 U
4-AMINO-2,6-DINITROTOLUENE	1200		UG/KG	99 U	100 U	100 U	230 J	100 U	61 J
HMX	310000		UG/KG	200 U	200 U	200 U	200 U	200 U	580 J
NITROBENZENE	2000	4000	UG/KG	99 U	150 J	100 U	100 U	180	100 U
Metals (6010B/6020/7841/7470A/7471A)									
ALUMINUM	7600		MG/KG	5780 J	**16500 J**	**16600 J**	**30100 J**	4360	**20000 J**
ANTIMONY	3.1		MG/KG	**29.7 J**	0.78 J	0.73 J	2.4 J	0.16 J	**4.3 J**
ARSENIC	0.39		MG/KG	**47.2 J**	**8.9 J**	**13.5 J**	**10.7 J**	**1.9 J**	**13.3 J**
BARIUM	540		MG/KG	**1040 J**	**881 J**	363 J	388 J	190 J	293 J
BERYLLIUM	15		MG/KG	0.44 J	0.71 J	0.85 J	1 J	0.21	0.68 J
BORON	1600		MG/KG	43.7 J	83 J	217 J	540 J	16.7 U	**2370 J**
CADMIUM	3.7		MG/KG	**4.7 J**	**5.1 J**	3.5 J	**4.9 J**	0.62	**6.9 J**
CALCIUM			MG/KG	55100 J	91100 J	99200 J	148000 J	74000	55600 J
CHROMIUM	22		MG/KG	**31 J**	**147 J**	**84.1 J**	**501 J**	**34.6**	**547 J**
COBALT	140		MG/KG	23.5 J	10.8 J	12 J	10 J	3	10.1 J
COPPER	310		MG/KG	**486 J**	**311 J**	245 J	243 J	84.1	**580 J**
IRON	2300		MG/KG	**72800 J**	**61700 J**	**47800 J**	**36600 J**	**12500**	**43200 J**
LEAD	400		MG/KG	348 J	114 J	104 J	370 J	21.5	**499 J**
LITHIUM	160		MG/KG	9 J	23.1 J	20.9 J	27.1 J	9.7	21.4 J
MAGNESIUM			MG/KG	4900 J	18800 J	18900 J	15200 J	26800	9190 J

TABLE 5-4 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, TOWN OF LEWISTON PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	AW	AW	DW	DW	DW	DW
			Excavation:	X07	X11	X00	X00	X00	X00
			Sample Name:	C7-LEW-SL-X07-AW01-4	C7-LEW-SL-X11-AW01-4.5	C7-LEW-SL-X00-DW02-6	C7-LEW-SL-X00-DW03-16	C7-LEW-SL-X00-DW04-1	C7-CWM-SL-X00-DW05-1.5 [1]
			Sample Depth:	3.5 FT	4.5 FT	6 FT	16 FT	1 FT	15 FT
			Sample Date:	8/17/2006	8/17/2006	8/22/2006	8/22/2006	8/22/2006	9/7/2006
			Parent Name:						
Analyte	**Crit1**	**Crit2**	**Unit**						
MANGANESE	180		MG/KG	**21100 J**	**2170 J**	**2010 J**	**1130 J**	**468**	**799 J**
MERCURY	2.3		MG/KG	2.1 J	**2.4 J**	1.5 J	**15.5 J**	0.53	**39.6 J**
MOLYBDENUM	39		MG/KG	3.8 J	2.9 J	2.8 J	11.5 J	0.7 J	17.8 U
NICKEL	160		MG/KG	44.7 J	87.3 J	36.4 J	60.4 J	7.7	96.1 J
POTASSIUM			MG/KG	1400 J	3220 J	3950 J	8720 J	734 J	4360 J
SELENIUM	39		MG/KG	10.7 U	3.3 J	13.8 U	3.7 J	4.2 U	17.8 U
SILVER	39		MG/KG	2 J	14.5 J	6.9 J	**39.1 J**	5.8	**80.4 J**
SODIUM			MG/KG	105 J	191 J	2760 U	2840 U	837 U	3560 U
VANADIUM	7.8		MG/KG	**39.4 J**	**50.9 J**	**52.2 J**	**55.3 J**	**21.3**	**46 J**
ZINC	2300		MG/KG	1070 J	580 J	565 J	1680 J	109 J	**6580 J**
General Chemistry									
PERCENT SOLIDS			%	30	38	21	19	90	17

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.
Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.
[1] This sample was mistakenly labeled in the field. However, in order to maintain traceability to the chain-of-custody, the original sample name was not altered.

TABLE 5-4 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, TOWN OF LEWISTON PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	WW	WW
			Excavation:	X03	X10	X10
			Sample Name:	C7-LEW-SL-X03-SN01-5.5	C7-LEW-SL-X10-WW01-5	C7-LEW-SL-DUP2
			Sample Depth:	5.5 FT	5 FT	5 FT
			Sample Date:	8/15/2006	8/17/2006	8/17/2006
			Parent Name:			C7-LEW-SL-X10-WW01-5
Analyte	**Crit1**	**Crit2**	**Unit**			
Volatile Organic Compounds (8260B)						
1,1,2,2-TETRACHLOROETHANE	410	35000	UG/KG	7.7 U	6.7 U	7.9 U
2-BUTANONE	2200000	400000	UG/KG	15 U	13 U	16 U
ACETONE	1400000	800000	UG/KG	15 U	13 U	16 U
CHLOROFORM	220	80000	UG/KG	7.7 U	6.7 U	7.9 U
ETHYLBENZENE	40000	800000	UG/KG	7.7 U	6.7 U	7.9 U
ISOPROPYLBENZENE	57000		UG/KG	7.7 U	6.7 U	7.9 U
M+P-XYLENE	27000	20000000	UG/KG	7.7 U	6.7 U	7.9 U
METHYLENE CHLORIDE	9100	93000	UG/KG	15 U	13 U	16 U
O-XYLENE	27000	20000000	UG/KG	7.7 U	6.7 U	7.9 U
TOLUENE	52000	2000000	UG/KG	7.7 U	6.7 U	7.9 U
VINYL CHLORIDE	79	360	UG/KG	15 U	13 U	16 U
Semi-Volatile Organic Compounds (8151/8270C/8310)						
1,2-BENZPHENANTHRACENE	62000		UG/KG	28 J	13 J	15 J
2-METHYLNAPHTHALENE	5600		UG/KG	51 U	8.2 U	8.4 U
4-CHLOROANILINE	24000	30000	UG/KG	51 U	8.2 U	8.4 U
4-METHYLPHENOL	31000	400000	UG/KG	260 U	41 U	42 U
ACENAPHTHENE	370000	500000	UG/KG	51 U	8.2 U	8.4 U
ACENAPHTHYLENE	370000		UG/KG	51 U	8.2 U	8.4 U
ANTHRACENE	2200000	2000000	UG/KG	51 U	8.2 U	8.4 U
BENZ[A]ANTHRACENE	620	224	UG/KG	31 J	13 J	14 J
BENZO[A]PYRENE	62	60.9	UG/KG	51 U	12	15
BENZO[B]FLUORANTHENE	620	224	UG/KG	56 J	18 J	31 J
BENZO[GHI]PERYLENE	230000		UG/KG	51 U	8.2 U	12
BENZO[K]FLUORANTHENE	6200	224	UG/KG	51 U	8.6	3.8 J
BIS(2-ETHYLHEXYL) PHTHALATE	35000	50000	UG/KG	51 U	8.2 U	8.4 U
CARBAZOLE	24000		UG/KG	51 U	8.2 U	8.4 U
DIBENZ[A,H]ANTHRACENE	62	14.3	UG/KG	51 U	8.2 U	8.4 U
DIBENZOFURAN	15000		UG/KG	51 U	8.2 U	8.4 U
FLUORANTHENE	230000	300000	UG/KG	51 U	22	26
FLUORENE	270000	300000	UG/KG	51 U	8.2 U	8.4 U
HEXACHLORO-1,3-BUTADIENE	1800		UG/KG	51 U	8.2 U	8.4 U
INDENO[1,2,3-CD]PYRENE	620		UG/KG	51 U	8.2 U	8.8
NAPHTHALENE	5600	30000	UG/KG	51 U	8.2 U	8.4 U
PHENANTHRENE	5600		UG/KG	15 J	13 J	14 J

TABLE 5-4 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, TOWN OF LEWISTON PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	WW	WW
			Excavation:	X03	X10	X10
			Sample Name:	C7-LEW-SL-X03-SN01-5.5	C7-LEW-SL-X10-WW01-5	C7-LEW-SL-DUP2
			Sample Depth:	5.5 FT	5 FT	5 FT
			Sample Date:	8/15/2006	8/17/2006	8/17/2006
			Parent Name:			C7-LEW-SL-X10-WW01-5
Analyte	**Crit1**	**Crit2**	**Unit**			
PYRENE	230000	200000	UG/KG	38 J	21 J	19 J
Pesticides (8081)/Polychlorinated Biphenyls(8082)						
4,4'-DDD	2400	2900	UG/KG	2.6 U	2.1 U	2.1 U
4,4'-DDE	1700	2100	UG/KG	1.8 J	2.1 U	2.1 U
4,4'-DDT	1700	2100	UG/KG	2.6 U	2.1 U	2.1 U
ALPHA-BHC	90	111	UG/KG	0.4 J	2.1 U	2.1 U
AROCLOR 1254	110	1000	UG/KG	26 U	21 U	96 J
AROCLOR 1260	110	1000	UG/KG	26 U	21 U	21 U
BETA-BHC	320	3890	UG/KG	1.3 J	2.1 U	2.1 U
DIELDRIN	30	44	UG/KG	0.31 J	2.1 U	2.1 U
ENDOSULFAN I	37000		UG/KG	0.13 J	2.1 U	2.1 U
GAMMA-CHLORDANE	1600	500	UG/KG	0.65 NJ	0.85 J	2.1 U
Explosives (8330)						
2,4-DINITROTOLUENE	720		UG/KG	100 U	100 U	100 U
2-AMINO-4,6-DINITROTOLUENE	1200		UG/KG	100 U	100 U	100 U
4-AMINO-2,6-DINITROTOLUENE	1200		UG/KG	100 U	100 U	100 U
HMX	310000		UG/KG	200 U	200 U	200 U
NITROBENZENE	2000	4000	UG/KG	46 J	100 U	100 U
Metals (6010B/6020/7841/7470A/7471A)						
ALUMINUM	7600		MG/KG	**27000**	**15300**	**13800**
ANTIMONY	3.1		MG/KG	0.23 J	0.17 J	0.21 J
ARSENIC	0.39		MG/KG	**9.2**	**5.8**	**6.5**
BARIUM	540		MG/KG	189 J	134	134
BERYLLIUM	15		MG/KG	1.5	0.74	0.66
BORON	1600		MG/KG	30.7	23.5	20.8
CADMIUM	3.7		MG/KG	0.62	1.2	1.3
CALCIUM			MG/KG	47200	62800	57900
CHROMIUM	22		MG/KG	**44.5**	**60.6**	**67.9**
COBALT	140		MG/KG	17.2	10.5	9.9
COPPER	310		MG/KG	110	52.5	51.3
IRON	2300		MG/KG	**43100**	**26700**	**27100**
LEAD	400		MG/KG	36.2	34.9	33.6
LITHIUM	160		MG/KG	43.9	24.6	22.6
MAGNESIUM			MG/KG	15200	9750	8800

TABLE 5-4 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, TOWN OF LEWISTON PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	WW	WW
			Excavation:	X03	X10	X10
			Sample Name:	C7-LEW-SL-X03-SN01-5.5	C7-LEW-SL-X10-WW01-5	C7-LEW-SL-DUP2
			Sample Depth:	5.5 FT	5 FT	5 FT
			Sample Date:	8/15/2006	8/17/2006	8/17/2006
			Parent Name:			C7-LEW-SL-X10-WW01-5
Analyte	**Crit1**	**Crit2**	**Unit**			
MANGANESE	180		MG/KG	**1060**	**750**	**748**
MERCURY	2.3		MG/KG	.043 U	0.072	0.064
MOLYBDENUM	39		MG/KG	1.3 J	0.71 J	0.73 J
NICKEL	160		MG/KG	39.4	25.3	24
POTASSIUM			MG/KG	4900 J	3060	2690
SELENIUM	39		MG/KG	1.8 J	1.2 J	4.8 U
SILVER	39		MG/KG	0.51	0.14 J	0.14 J
SODIUM			MG/KG	172 J	198 J	185 J
VANADIUM	7.8		MG/KG	**53.2**	**30.9**	**29**
ZINC	2300		MG/KG	156 J	126	116
General Chemistry						
PERCENT SOLIDS			%	65	81	79

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.
Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.
[1] This sample was mistakenly labeled in the field. However, in order to maintain traceability to the chain-of-custody, the original sample name was not altered.

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	AW	AW	AW	AW	AW	AW	CW
			Excavation:			X41	X87	X94	X96	X22A
			Sample Name:	C7-CWM-SL-AC1	C7-CWM-SL-AC11	C7-CWM-SL-X41-AW01-4	C7-CWM-SL-X87-AW01-15	C7-CWM-SL-X94-AW01-10	C7-CWM-SL-X96-AW01-9	C7-CWM-SL-X22A-UN01-5
			Sample Depth:			4 FT	15 FT	10 FT	9 FT	5 FT
			Sample Date:	7/22/1998	7/14/1998	9/6/2006	9/26/2006	9/29/2006	9/29/2006	8/29/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	UG/KG		850 U	310 J	19 U	6.5 U	9.8 U	8.9 U
1,1,2,2-TETRACHLOROETHANE	930	35000	UG/KG		850 U	12 U	19 U	6.5 U	9.8 U	8.9 U
1,1,2-TRICHLOROETHANE	1600		UG/KG		850 U	12 U	19 U	6.5 U	9.8 U	8.9 U
1,1-DICHLOROETHANE	170000	800000	UG/KG		850 U	100 J	19 U	6.5 U	9.8 U	8.9 U
1,1-DICHLOROETHYLENE	41000	12000	UG/KG		850 U	20 J	19 U	6.5 U	9.8 U	8.9 U
1,2-DICHLOROBENZENE	60000		UG/KG			3.1 J	28 J	6.5 U	9.8 U	8.9 U
1,2-DICHLOROETHANE	600	7700	UG/KG		850 U	12 U	19 U	6.5 U	9.8 U	8.9 U
1,3-DICHLOROBENZENE	60000		UG/KG			13 J	6.7 J	6.5 U	9.8 U	8.9 U
1,4-DICHLOROBENZENE	7900		UG/KG			18 J	14 J	6.5 U	9.8 U	8.9 U
2-BUTANONE	11000000	400000	UG/KG		3400 U	24 U	38 U	13 U	20 U	18 U
4-METHYL-2-PENTANONE	4700000	400000	UG/KG		3400 U	24 U	38 U	13 U	20 U	18 U
ACETONE	5400000	800000	UG/KG		3400 U	100 J	38 U	80 J	20 U	18 U
BENZENE	1400	24000	UG/KG		850 U	12 U	19 U	6.5 U	9.8 U	8.9 U
CARBON DISULFIDE	72000	800000	UG/KG		850 U	12 U	19 U	9.7	9.8 U	8.9 U
CHLOROBENZENE	53000	200000	UG/KG		850 U	12 U	9 J	6.5 U	9.8 U	8.9 U
CHLOROFORM	470	80000	UG/KG		850 U	12 U	19 U	6.5 U	9.8 U	1.9 J
CHLOROMETHANE	16000		UG/KG		1700 U	24 U	38 U	13 U	20 U	18 U
CIS-1,2-DICHLOROETHENE	15000	80000	UG/KG			12 J	19 U	6.5 U	9.8 U	7.8 J
DICHLORODIFLUOROMETHANE	31000		UG/KG			12 U	19 U	6.5 U	9.8 U	5.4 J
ETHYLBENZENE	40000	800000	UG/KG		850 U	12 U	19 U	6.5 U	9.8 U	8.9 U
ISOPROPYLBENZENE	200000		UG/KG			12 U	14 J	6.5 U	9.8 U	8.9 U
M+P-XYLENE	42000	20000000	UG/KG			3.4 J	6.9 J	3.2 J	2.7 J	2 J
METHYLENE CHLORIDE	21000	93000	UG/KG		850 U	24 U	38 U	13 U	20 U	18 U
O-XYLENE	42000	20000000	UG/KG			3.9 J	19 U	6.5 U	9.8 U	8.9 U
TETRACHLOROETHENE	1300	14000	UG/KG		850 U	12 U	19 U	6.5 U	2.9 J	8.9 U
TOLUENE	52000	2000000	UG/KG		850 U	12 U	5.6 J	6.5 U	9.8 U	8.9 U
TRANS-1,2-DICHLOROETHENE	23000	200000	UG/KG			12 U	19 U	6.5 U	9.8 U	8.9 U
TRICHLOROETHYLENE	6500	64000	UG/KG		850 U	28 J	19 U	6.5 U	9.8 U	28
VINYL CHLORIDE	750	360	UG/KG		1700 U	24 U	38 U	13 U	20 U	18 U
XYLENES (TOTAL)	42000	20000000	UG/KG		850 U					
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		UG/KG		500 U	**4500000 J**	21 U	8.0 U	110 U	300 U
1,2-BENZPHENANTHRACENE	210000		UG/KG		72	1500 U	21 U	8.0 U	44 J	3700
1,2-DICHLOROBENZENE	60000		UG/KG		550 U					
1,3-DICHLOROBENZENE	60000		UG/KG		550 U					
1,4-DICHLOROBENZENE	7900		UG/KG		490 U					

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	AW	AW	AW	AW	AW	AW	CW
			Excavation:			X41	X87	X94	X96	X22A
			Sample Name:	C7-CWM-SL-AC1	C7-CWM-SL-AC11	C7-CWM-SL-X41-AW01-4	C7-CWM-SL-X87-AW01-15	C7-CWM-SL-X94-AW01-10	C7-CWM-SL-X96-AW01-9	C7-CWM-SL-X22A-UN01-5
			Sample Depth:			4 FT	15 FT	10 FT	9 FT	5 FT
			Sample Date:	7/22/1998	7/14/1998	9/6/2006	9/26/2006	9/29/2006	9/29/2006	8/29/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
1-METHYLNAPHTHALENE			UG/KG							
2,4-DIMETHYLPHENOL	1200000		UG/KG		460 U	7300 U	100 U	40 U	560 U	1500 U
2-CHLOROPHENOL	24000	40000	UG/KG		550 U	7300 U	100 U	40 U	560 U	1500 U
2-METHYLNAPHTHALENE	19000		UG/KG			1500 U	21 U	8.0 U	110 U	300 U
2-METHYLPHENOL	3100000		UG/KG		450 U	7300 U	100 U	40 U	560 U	1500 U
4-CHLOROANILINE	250000	30000	UG/KG		420 U	1500 U	21 U	8.0 U	110 U	300 U
4-METHYLPHENOL	310000	400000	UG/KG		8400	7300 U	100 U	40 U	560 U	1500 U
ACENAPHTHENE	2900000	500000	UG/KG		560	1500 U	21 U	8.0 U	110 U	300 U
ACENAPHTHYLENE	2900000		UG/KG		51 U	1500 U	21 U	8.0 U	110 U	520
ANTHRACENE	10000000	2000000	UG/KG		65	1500 U	21 U	8.0 U	110 U	790
BENZ[A]ANTHRACENE	2100	224	UG/KG		91	1500 U	21 U	8.0 U	50 J	**3100**
BENZO[A]PYRENE	210	60.9	UG/KG		100	1500 U	20 J	8.0 U	110 U	**2700**
BENZO[B]FLUORANTHENE	2100	224	UG/KG		140	1500 U	48 J	8.0 U	110 U	**2900**
BENZO[GHI]PERYLENE	2900000		UG/KG		79	1500 U	18 J	8.0 U	110 U	2400
BENZO[K]FLUORANTHENE	21000	224	UG/KG		64	1500 U	11 J	8.0 U	110 U	2300 J
BENZYL BUTYL PHTHALATE	10000000	20000000	UG/KG		440 U	1500 U	21 U	8.0 U	110 U	300 U
BIS(2-CHLOROETHOXY)METHANE			UG/KG		500 U	1500 U	21 U	8.0 U	110 U	300 U
BIS(2-CHLOROETHYL) ETHER	580		UG/KG		550 U	1500 U	21 U	8.0 U	110 U	300 U
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	UG/KG		470 U	1500 U	21 U	8.0 U	110 U	6400
CARBAZOLE	86000		UG/KG		550 U	1500 U	21 U	8.0 U	110 U	300 U
DIBENZ[A,H]ANTHRACENE	210	14.3	UG/KG		11	1500 U	21 U	8.0 U	110 U	300 U
DIBENZOFURAN	160000		UG/KG		640 U	1500 U	21 U	8.0 U	110 U	300 U
DIETHYL PHTHALATE	10000000	6000000	UG/KG		440 U	1500 U	21 U	8.0 U	110 U	300 U
DI-N-BUTYL PHTHALATE	6200000	800000	UG/KG		740 U	1500 U	21 U	8.0 U	110 U	300 U
FLUORANTHENE	2200000	300000	UG/KG		250	1500 U	40 J	8.0 U	89 J	8400
FLUORENE	2600000	300000	UG/KG		280	1500 U	9.3 J	8.0 U	110 U	300 U
HEXACHLORO-1,3-BUTADIENE	18000		UG/KG		550 U	1500 U	21 U	8.0 U	110 U	300 U
HEXACHLOROBENZENE	1100	410	UG/KG		550 U	**42000 J**	21 U	8.0 U	110 U	**1600**
HEXACHLOROCYCLOPENTADIENE	370000		UG/KG		470 U	1500 U	21 U	8.0 U	110 U	300 U
HEXACHLOROETHANE	62000		UG/KG		550 U	1500 U	21 U	8.0 U	110 U	300 U
INDENO[1,2,3-CD]PYRENE	2100		UG/KG		50	1500 U	14 J	8.0 U	110 U	**2100**
ISOPHORONE	510000	1707000	UG/KG		500 U	1500 U	21 U	8.0 U	110 U	450 J
NAPHTHALENE	19000	30000	UG/KG		7.3 U	1500 U	21 U	8.0 U	110 U	300 U
PENTACHLOROPHENOL	9000	200000	UG/KG		9.9 U	18000 U	260 U	100 U	1400 U	3700 U
PHENANTHRENE	19000		UG/KG		150	1500 U	27 J	8.0 U	120	550
PHENOL	10000000	5000000	UG/KG		640	7300 U	100 U	40 U	560 U	1500 U
PYRENE	2900000	200000	UG/KG		180	1500 U	42 J	8.0 U	67 J	7100

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	AW	AW	AW	AW	AW	AW	CW
			Excavation:			X41	X87	X94	X96	X22A
			Sample Name:	C7-CWM-SL-AC1	C7-CWM-SL-AC11	C7-CWM-SL-X41-AW01-4	C7-CWM-SL-X87-AW01-15	C7-CWM-SL-X94-AW01-10	C7-CWM-SL-X96-AW01-9	C7-CWM-SL-X22A-UN01-5
			Sample Depth:			4 FT	15 FT	10 FT	9 FT	5 FT
			Sample Date:	7/22/1998	7/14/1998	9/6/2006	9/26/2006	9/29/2006	9/29/2006	8/29/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	UG/KG		0.33 U	730 U	9.7 J	2.0 U	2.8 U	30
4,4'-DDE	7000	2100	UG/KG		4.3 J	**260000 J**	16 J	2.0 U	2.8 U	15 U
4,4'-DDT	7000	2100	UG/KG		1 J	730 U	36 J	2.0 U	2.8 U	130 J
ALDRIN	100	41	UG/KG		0.95	730 U	5.2 U	2.0 U	27 J	15 U
ALPHA-BHC	360	111	UG/KG		0.13 U	730 U	5.2 U	2.0 U	2.8 U	15 U
ALPHA-CHLORDANE	6500		UG/KG		13 J	730 U	5.2 U	2.0 U	2.8 U	15 U
AROCLOR 1242	740	1000	UG/KG		4.8 U	180 U	52 U	20 U	28 U	300 U
AROCLOR 1254	740	1000	UG/KG		3 U	180 U	52 U	20 U	28 U	**3100**
AROCLOR 1260	740	1000	UG/KG		200 J	180 U	52 U	20 U	28 U	300 U
BETA-BHC	1300	3890	UG/KG		0.99 J	730 U	5.2 U	2.0 U	2.8 U	15 U
DELTA-BHC	360		UG/KG		0.43 U	730 U	5.2 U	2.0 U	2.8 U	15 U
DIELDRIN	110	44	UG/KG		19	**520000 J**	7.8 J	2.0 U	2.9 J	15 U
ENDOSULFAN I	370000		UG/KG		12 J	730 U	5.2 U	2.0 U	2.8 U	15 U
ENDOSULFAN II	370000		UG/KG		12 J	730 U	5.2 U	2.0 U	2.8 U	15 U
ENDOSULFAN SULFATE	370000		UG/KG		0.36 U	730 U	5.2 U	2.0 U	2.8 U	15 U
ENDRIN	18000	20000	UG/KG		0.3 U	730 U	5.2 U	2.0 U	2.8 U	15 U
ENDRIN ALDEHYDE	18000		UG/KG		1.3 U	730 U	5.2 U	2.0 U	26 J	15 U
ENDRIN KETONE	18000		UG/KG		1.2 U	730 U	5.2 U	2.0 U	2.8 U	15 U
GAMMA-BHC	1700	2000	UG/KG		0.11 U	730 U	5.2 U	2.0 U	2.8 U	15 U
GAMMA-CHLORDANE	6500	500	UG/KG		0.15 U	730 U	5.2 U	2.0 U	2.8 U	15 U
HEPTACHLOR	380	160	UG/KG		0.11 U	730 U	5.2 U	2.0 U	2.8 U	15 U
HEPTACHLOR EPOXIDE	190	77	UG/KG		5.3 J	730 U	5.2 U	2.0 U	2.8 U	15 U
METHOXYCHLOR	310000	40000	UG/KG		1.1 U	730 U	5.2 U	2.0 U	2.8 U	15 U
Explosives (8330)										
2,6-DINITROTOLUENE	2500		UG/KG	170 U	170 U	100 U	100 U	100 U	100 U	100 U
2-AMINO-4,6-DINITROTOLUENE	12000		UG/KG	150 U	150 U	100 U	100 U	100 U	100 U	100 U
4-AMINO-2,6-DINITROTOLUENE	12000		UG/KG	120 U	120 U	100 U	100 U	100 U	100 U	100 U
HMX	3100000		UG/KG	180 U	180 U	200 U	200 U	200 U	200 U	200 U
NITROBENZENE	10000	4000	UG/KG	80 U	80 U	57 J	100 U	160 J	57 J	38 J
RDX	16000		UG/KG	130 U	130 U	200 U	200 U	200 U	200 U	200 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		MG/KG		**13800**	**29100 J**	**11900 J**	**15800**	**13900**	**12000**
ANTIMONY	41		MG/KG		1 J	0.33 J	2 U	0.89 U	0.97 U	1.8
ARSENIC	1.6		MG/KG		**4.8**	**9.1 J**	**44.7 J**	4.4 U	**6.4**	**9.9**
BARIUM	6700		MG/KG		154 J	179 J	92.4 J	119	290	112
BERYLLIUM	190		MG/KG		0.63	1.2 J	0.56 J	0.69	0.71	0.46

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

Analyte	Crit1	Crit2	Unit							
			Line Type:	AW	AW	AW	AW	AW	AW	CW
			Excavation:			X41	X87	X94	X96	X22A
			Sample Name:	C7-CWM-SL-AC1	C7-CWM-SL-AC11	C7-CWM-SL-X41-AW01-4	C7-CWM-SL-X87-AW01-15	C7-CWM-SL-X94-AW01-10	C7-CWM-SL-X96-AW01-9	C7-CWM-SL-X22A-UN01-5
			Sample Depth:			4 FT	15 FT	10 FT	9 FT	5 FT
			Sample Date:	7/22/1998	7/14/1998	9/6/2006	9/26/2006	9/29/2006	9/29/2006	8/29/2006
			Parent Name:							
BORON	10000		MG/KG	11.2	23.9	61.8 J	30 J	18 U	29.3	8.4 J
CADMIUM	45		MG/KG		0.06 U	0.87 J	0.95 J	0.13 J	1.1	13.1
CALCIUM			MG/KG		124000	32900 J	22800 J	42500	34800	82300
CHROMIUM	64		MG/KG		30.7 J	37.6 J	21.7 J	21.8	22.8	**107**
COBALT	1900		MG/KG		8.8	16.5 J	9.7 J	10.5	14.2	9.3
COPPER	4100		MG/KG		52.5	409 J	50.5 J	26.1	58.6	**6570**
IRON	10000		MG/KG		**25900**	**46500 J**	**23700 J**	**27100**	**32200**	**49700**
LEAD	800		MG/KG		352 J	211 J	77.9 J	8.3	**859**	634
LITHIUM	2000		MG/KG	13.3	23.7	49.6 J	20 J	25.4	19.6	11.8
MAGNESIUM			MG/KG		22100	8680 J	7800 J	11000	4780	15000
MANGANESE	1900		MG/KG		**2600**	530 J	639 J	645	**7440**	611
MERCURY	31		MG/KG		0.54	0.36 J	0.12 J	0.040 U	0.96	3.6
MOLYBDENUM	510		MG/KG			1.6 J	1.4 J	4.4 U	4.9 U	102
NICKEL	2000		MG/KG		22.3 J	68.9 J	22.6 J	24.9	33.4	109
POTASSIUM			MG/KG		2070	4010 J	2310 J	3280	2120	1630
SELENIUM	510		MG/KG		1.8	1.7 J	2 J	4.4 U	4.9 U	1.3 J
SILVER	510		MG/KG		0.14 J	0.14 J	0.12 J	0.04 J	0.19 J	23
SODIUM			MG/KG		387	302 J	250 J	890 U	970 U	2680
THALLIUM	6.7		MG/KG		0.1 U	0.45 J	4 U	1.8 U	1.9 U	2.2 U
VANADIUM	100		MG/KG		21.6	57 J	26 J	30.7	29.4	**145**
ZINC	10000		MG/KG		864 J	15.6 U	302 J	53.3	1300	832
General Chemistry										
CYANIDE	1200		MG/KG		0.45 J	0.36 U	0.39 U	0.17 U	0.25 U	1.7
PERCENT MOISTURE			%		56.7					
PERCENT SOLIDS			%			46	32	84	60	56
TOTAL ORGANIC CARBON			MG/KG							

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004

Crit2: New York State TAGM 4046 Soil, 1999

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	CW	DW	DW	DW	DW	DW	DW
			Excavation:	X48	X38	X77A	X77A	X113	X116	X116
			Sample Name:	C7-CWM-SL-X48-CW01-5	C7-CWM-SL-X38-DW01-2.5	C7-CWM-SL-X77A-DW01-2.5	C7-CWM-SL-DUP5	C7-CWM-SL-X113-DW01-11	C7-CWM-SL-X116-DW01-3	C7-CWM-SL-DUP6
			Sample Depth:	5 FT	2.5 FT	2.5 FT	2.5 FT	11 FT	3 FT	3 FT
			Sample Date:	9/8/2006	9/5/2006	9/19/2006	9/19/2006	10/11/2006	10/10/2006	10/10/2006
			Parent Name:				C7-CWM-SL-X77A-DW01-2.5			C7-CWM-SL-X116-DW01-3
Analyte	**Crit1**	**Crit2**	**Unit**							
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	UG/KG	8.5 U	5.6 U	8.3 U	6.9 U	16 U	6.4 U	6.5 U
1,1,2,2-TETRACHLOROETHANE	930	35000	UG/KG	8.5 U	5.6 U	8.3 U	6.9 U	16 U	6.4 U	6.5 U
1,1,2-TRICHLOROETHANE	1600		UG/KG	8.5 U	5.6 U	8.3 U	6.9 U	16 U	6.4 U	6.5 U
1,1-DICHLOROETHANE	170000	800000	UG/KG	8.5 U	5.6 U	8.3 U	6.9 U	16 U	6.4 U	6.5 U
1,1-DICHLOROETHYLENE	41000	12000	UG/KG	8.5 U	5.6 U	8.3 U	6.9 U	16 U	6.4 U	6.5 U
1,2-DICHLOROBENZENE	60000		UG/KG	8.5 U	5.6 U	8.3 U	6.9 U	16 U	6.4 U	6.5 U
1,2-DICHLOROETHANE	600	7700	UG/KG	8.5 U	5.6 U	8.3 U	6.9 U	16 U	6.4 U	6.5 U
1,3-DICHLOROBENZENE	60000		UG/KG	8.5 U	5.6 U	8.3 U	6.9 U	62 J	6.4 U	6.5 U
1,4-DICHLOROBENZENE	7900		UG/KG	8.5 U	5.6 U	8.3 U	6.9 U	66 J	6.4 U	6.5 U
2-BUTANONE	11000000	400000	UG/KG	17 U	11 U	17 U	14 U	32 U	13 U	13 U
4-METHYL-2-PENTANONE	4700000	400000	UG/KG	17 U	11 U	17 U	14 U	32 U	13 U	13 U
ACETONE	5400000	800000	UG/KG	110 J	11 U	17 U	14 U	140 J	13 U	13 U
BENZENE	1400	24000	UG/KG	8.5 U	5.6 U	8.3 U	6.9 U	16 U	6.4 U	6.5 U
CARBON DISULFIDE	72000	800000	UG/KG	8.5 U	5.6 U	8.3 U	6.9 U	10 J	6.4 U	6.5 U
CHLOROBENZENE	53000	200000	UG/KG	8.5 U	5.6 U	8.3 U	6.9 U	16 U	6.4 U	6.5 U
CHLOROFORM	470	80000	UG/KG	8.5 U	5.6 U	8.3 U	6.9 U	16 U	6.4 U	6.5 U
CHLOROMETHANE	16000		UG/KG	17 U	11 U	17 U	14 U	32 U	13 U	13 U
CIS-1,2-DICHLOROETHENE	15000	80000	UG/KG	8.5 U	5.6 U	8.3 U	6.9 U	16 U	6.4 U	6.5 U
DICHLORODIFLUOROMETHANE	31000		UG/KG	8.5 U	5.6 U	8.3 U	6.9 U	16 U	6.4 U	6.5 U
ETHYLBENZENE	40000	800000	UG/KG	8.5 U	5.6 U	8.3 U	6.9 U	16 U	6.4 U	6.5 U
ISOPROPYLBENZENE	200000		UG/KG	8.5 U	5.6 U	8.3 U	6.9 U	16 U	6.4 U	6.5 U
M+P-XYLENE	42000	20000000	UG/KG	1.9 J	5.6 U	8.3 U	6.9 U	7 J	6.4 U	6.5 U
METHYLENE CHLORIDE	21000	93000	UG/KG	17 U	11 U	17 U	14 U	32 U	13 U	13 U
O-XYLENE	42000	20000000	UG/KG	8.5 U	5.6 U	8.3 U	6.9 U	8.5 J	6.4 U	6.5 U
TETRACHLOROETHENE	1300	14000	UG/KG	8.5 U	5.6 U	8.3 U	6.9 U	16 U	6.4 U	6.5 U
TOLUENE	52000	2000000	UG/KG	150	5.6 U	8.3 U	6.9 U	16 U	6.4 U	6.5 U
TRANS-1,2-DICHLOROETHENE	23000	200000	UG/KG	8.5 U	5.6 U	8.3 U	6.9 U	16 U	6.4 U	6.5 U
TRICHLOROETHYLENE	6500	64000	UG/KG	8.5 U	5.6 U	8.3 U	6.9 U	16 U	6.4 U	6.5 U
VINYL CHLORIDE	750	360	UG/KG	17 U	11 U	17 U	14 U	32 U	13 U	13 U
XYLENES (TOTAL)	42000	20000000	UG/KG							
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		UG/KG	10 U	87 U	9.7 U	9.7 U	22 U	8.6 U	8.8 U
1,2-BENZPHENANTHRACENE	210000		UG/KG	14	660	12	19	**220000 J**	24	28
1,2-DICHLOROBENZENE	60000		UG/KG							
1,3-DICHLOROBENZENE	60000		UG/KG							
1,4-DICHLOROBENZENE	7900		UG/KG							

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	CW	DW	DW	DW	DW	DW	DW
			Excavation:	X48	X38	X77A	X77A	X113	X116	X116
			Sample Name:	C7-CWM-SL-X48-CW01-5	C7-CWM-SL-X38-DW01-2.5	C7-CWM-SL-X77A-DW01-2.5	C7-CWM-SL-DUP5	C7-CWM-SL-X113-DW01-11	C7-CWM-SL-X116-DW01-3	C7-CWM-SL-DUP6
			Sample Depth:	5 FT	2.5 FT	2.5 FT	2.5 FT	11 FT	3 FT	3 FT
			Sample Date:	9/8/2006	9/5/2006	9/19/2006	9/19/2006	10/11/2006	10/10/2006	10/10/2006
			Parent Name:				C7-CWM-SL-X77A-DW01-2.5			C7-CWM-SL-X116-DW01-3
Analyte	**Crit1**	**Crit2**	**Unit**							
1-METHYLNAPHTHALENE			UG/KG							
2,4-DIMETHYLPHENOL	1200000		UG/KG	50 U	430 U	48 U	48 U	110 U	43 U	44 U
2-CHLOROPHENOL	24000	40000	UG/KG	50 U	430 U	48 U	48 U	110 U	43 U	44 U
2-METHYLNAPHTHALENE	19000		UG/KG	10 U	48 J	9.7 U	9.7 U	120 J	8.6 U	8.8 U
2-METHYLPHENOL	3100000		UG/KG	50 U	430 U	48 U	48 U	110 U	43 U	44 U
4-CHLOROANILINE	250000	30000	UG/KG	10 U	87 U	9.7 U	9.7 U	120 J	8.6 U	8.8 U
4-METHYLPHENOL	310000	400000	UG/KG	14 J	430 U	48 U	48 U	110 U	43 U	44 U
ACENAPHTHENE	2900000	500000	UG/KG	10 U	150	9.7 U	9.7 U	13000 J	8.6 U	3.1 J
ACENAPHTHYLENE	2900000		UG/KG	10 U	26 J	9.7 U	9.7 U	22 U	8.6 U	8.8 U
ANTHRACENE	10000000	2000000	UG/KG	4 J	240	9.7 U	4.4 J	61000 J	3.4 J	5.3 J
BENZ[A]ANTHRACENE	2100	224	UG/KG	14	660	12 J	26 J	**220000 J**	18	24
BENZO[A]PYRENE	210	60.9	UG/KG	9.5 J	**520**	5.8 J	15 J	**150000 J**	20	25
BENZO[B]FLUORANTHENE	2100	224	UG/KG	20	480	7.3 J	16 J	**240000 J**	32	41
BENZO[GHI]PERYLENE	2900000		UG/KG	8.5 J	280	9.7 U	9.7 J	70000 J	11	13
BENZO[K]FLUORANTHENE	21000	224	UG/KG	8 J	770 J	14 J	17 J	**98000 J**	8.6 U	8.8 U
BENZYL BUTYL PHTHALATE	10000000	20000000	UG/KG	10 U	87 U	9.7 U	9.7 U	22 U	8.6 U	8.8 U
BIS(2-CHLOROETHOXY)METHANE			UG/KG	10 U	87 U	9.7 U	9.7 U	22 U	8.6 U	8.8 U
BIS(2-CHLOROETHYL) ETHER	580		UG/KG	10 U	87 U	9.7 U	9.7 U	22 U	8.6 U	8.8 U
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	UG/KG	10 U	**420000**	9.7 U	9.7 U	22 U	110 J	8.8 U
CARBAZOLE	86000		UG/KG	10 U	230	9.7 U	9.7 U	17000 J	8.6 U	8.8 U
DIBENZ[A,H]ANTHRACENE	210	14.3	UG/KG	10 U	87 U	9.7 U	9.7 U	**17000 J**	8.6 U	8.8 U
DIBENZOFURAN	160000		UG/KG	10 U	95	9.7 U	9.7 U	6900 J	8.6 U	8.8 U
DIETHYL PHTHALATE	10000000	6000000	UG/KG	10 U	87 U	7.7 J	9.7 U	22 U	8.6 U	8.8 U
DI-N-BUTYL PHTHALATE	6200000	800000	UG/KG	10 U	480	70	65	22 U	8.6 U	8.8 U
FLUORANTHENE	2200000	300000	UG/KG	18	1800	20 J	56 J	470000 J	44	52
FLUORENE	2600000	300000	UG/KG	10 U	180	9.7 U	9.7 U	19000 J	8.6 U	3.1 J
HEXACHLORO-1,3-BUTADIENE	18000		UG/KG	10 U	87 U	9.7 U	9.7 U	22 U	8.6 U	8.8 U
HEXACHLOROBENZENE	1100	410	UG/KG	10 U	450	9.7 U	9.7 U	22 U	8.6 U	8.8 U
HEXACHLOROCYCLOPENTADIENE	370000		UG/KG	10 U	87 U	9.7 U	9.7 U	54 U	21 U	22 U
HEXACHLOROETHANE	62000		UG/KG	10 U	87 U	9.7 U	9.7 U	22 U	8.6 U	8.8 U
INDENO[1,2,3-CD]PYRENE	2100		UG/KG	7.5 J	270	5.3 J	8.7 J	**77000 J**	9.4	12
ISOPHORONE	510000	1707000	UG/KG	10 U	87 U	9.7 U	9.7 U	22 U	8.6 U	8.8 U
NAPHTHALENE	19000	30000	UG/KG	3.5 J	78 J	9.7 U	9.7 U	570 J	8.6 U	8.8 U
PENTACHLOROPHENOL	9000	200000	UG/KG	130 U	1100 U	120 U	120 U	270 U	110 U	110 U
PHENANTHRENE	19000		UG/KG	12	1300	9.2 J	19 J	**110000 J**	33	41
PHENOL	10000000	5000000	UG/KG	50 U	430 U	48 U	48 U	110 J	43 U	44 U
PYRENE	2900000	200000	UG/KG	14	1100	12 J	33 J	420000 J	57	72

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	CW	DW	DW	DW	DW	DW	DW
			Excavation:	X48	X38	X77A	X77A	X113	X116	X116
			Sample Name:	C7-CWM-SL-X48-CW01-5	C7-CWM-SL-X38-DW01-2.5	C7-CWM-SL-X77A-DW01-2.5	C7-CWM-SL-DUP5	C7-CWM-SL-X113-DW01-11	C7-CWM-SL-X116-DW01-3	C7-CWM-SL-DUP6
			Sample Depth:	5 FT	2.5 FT	2.5 FT	2.5 FT	11 FT	3 FT	3 FT
			Sample Date:	9/8/2006	9/5/2006	9/19/2006	9/19/2006	10/11/2006	10/10/2006	10/10/2006
			Parent Name:				C7-CWM-SL-X77A-DW01-2.5			C7-CWM-SL-X116-DW01-3
Analyte	**Crit1**	**Crit2**	**Unit**							
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	UG/KG	2.5 U	2.2 U	2.4 U	2.4 U	3500 J	2.8 J	1.2 J
4,4'-DDE	7000	2100	UG/KG	2.5 U	17 J	0.59 J	0.48 J	220 U	6.4 J	6.2
4,4'-DDT	7000	2100	UG/KG	2.5 U	24 J	2.4 U	2.4 U	220 U	2.2 U	2.6
ALDRIN	100	41	UG/KG	2.5 U	2.2 U	2.4 U	2.4 U	220 U	2.2 U	2.2 U
ALPHA-BHC	360	111	UG/KG	2.5 U	2.2 U	2.4 U	2.4 U	220 U	2.2 U	2.2 U
ALPHA-CHLORDANE	6500		UG/KG	2.5 U	2.2 U	2.4 U	2.4 U	220 U	2.2 U	2.2 U
AROCLOR 1242	740	1000	UG/KG	25 U	22 U	24 U	24 U	54 U	21 U	22 U
AROCLOR 1254	740	1000	UG/KG	25 U	22 U	24 U	24 U	54 U	21 U	22 U
AROCLOR 1260	740	1000	UG/KG	25 U	22 U	24 U	24 U	54 U	21 U	22 U
BETA-BHC	1300	3890	UG/KG	2.5 U	2.2 U	2.4 U	2.4 U	220 U	2.2 U	2.2 U
DELTA-BHC	360		UG/KG	2.5 U	2.2 U	2.4 U	2.4 U	220 U	2.2 U	2.2 U
DIELDRIN	110	44	UG/KG	2.5 U	2.2 U	2.4 U	2.4 U	220 U	2.2 U	0.25 J
ENDOSULFAN I	370000		UG/KG	2.5 U	2.2 U	2.4 U	2.4 U	220 U	2.2 U	2.2 U
ENDOSULFAN II	370000		UG/KG	2.5 U	2.2 U	2.4 U	2.4 U	220 U	2.2 U	2.2 U
ENDOSULFAN SULFATE	370000		UG/KG	2.5 U	2.2 U	2.4 U	2.4 U	220 U	2.2 U	2.2 U
ENDRIN	18000	20000	UG/KG	2.5 U	2.2 U	2.4 U	2.4 U	220 U	2.2 U	2.2 U
ENDRIN ALDEHYDE	18000		UG/KG	2.5 U	2.2 U	2.4 U	2.4 U	220 U	2.2 U	2.2 U
ENDRIN KETONE	18000		UG/KG	2.5 U	2.2 U	2.4 U	2.4 U	220 U	2.2 U	2.2 U
GAMMA-BHC	1700	2000	UG/KG	2.5 U	2.2 U	2.4 U	2.4 U	220 U	2.2 U	2.2 U
GAMMA-CHLORDANE	6500	500	UG/KG	2.5 U	2.2 U	2.4 U	2.4 U	220 U	2.2 U	2.2 U
HEPTACHLOR	380	160	UG/KG	2.5 U	2.2 U	2.4 U	2.4 U	220 U	2.2 U	2.2 U
HEPTACHLOR EPOXIDE	190	77	UG/KG	2.5 U	2.2 U	2.4 U	2.4 U	**350 J**	2.2 U	2.2 U
METHOXYCHLOR	310000	40000	UG/KG	2.5 U	37 J	2.4 U	2.4 U	220 U	2.2 U	2.2 U
Explosives (8330)										
2,6-DINITROTOLUENE	2500		UG/KG	100 U	98 U	99 U	100 U	99 U	99 U	99 U
2-AMINO-4,6-DINITROTOLUENE	12000		UG/KG	100 U	98 U	99 U	100 U	99 U	99 U	99 U
4-AMINO-2,6-DINITROTOLUENE	12000		UG/KG	100 U	98 U	99 U	100 U	99 U	99 U	99 U
HMX	3100000		UG/KG	190 J	200 U	200 U	200 U	200 U	200 U	200 U
NITROBENZENE	10000	4000	UG/KG	100 U	98 U	99 U	100 U	99 U	99 U	99 U
RDX	16000		UG/KG	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		MG/KG	**13300**	**11500**	**12900**	9890	1920 J	**14900**	**14600**
ANTIMONY	41		MG/KG	2.5	3.1 J	1.2 U	0.25 J	1.5 J	0.89 U	0.94 U
ARSENIC	1.6		MG/KG	**3.9 J**	1.5 J	**2.4 J**	**2.1 J**	**10 J**	**3.1 J**	**4.1 J**
BARIUM	6700		MG/KG	111	86.2 J	99.6	83.2	3550 J	148	138
BERYLLIUM	190		MG/KG	0.6	0.48	0.58	0.37	0.15 J	0.71	0.72

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	CW	DW	DW	DW	DW	DW	DW
			Excavation:	X48	X38	X77A	X77A	X113	X116	X116
			Sample Name:	C7-CWM-SL-X48-CW01-5	C7-CWM-SL-X38-DW01-2.5	C7-CWM-SL-X77A-DW01-2.5	C7-CWM-SL-DUP5	C7-CWM-SL-X113-DW01-11	C7-CWM-SL-X116-DW01-3	C7-CWM-SL-DUP6
			Sample Depth:	5 FT	2.5 FT	2.5 FT	2.5 FT	11 FT	3 FT	3 FT
			Sample Date:	9/8/2006	9/5/2006	9/19/2006	9/19/2006	10/11/2006	10/10/2006	10/10/2006
			Parent Name:				C7-CWM-SL-X77A-DW01-2.5			C7-CWM-SL-X116-DW01-3
Analyte	**Crit1**	**Crit2**	**Unit**							
BORON	10000		MG/KG	4.9 J	20.8 U	24.4 U	22.7 U	38.4 U	5.7 J	5.1 J
CADMIUM	45		MG/KG	0.81	16.4	0.54 J	0.91	**139 J**	0.38 J	0.39 J
CALCIUM			MG/KG	36100	3660 J	44600 J	12300 J	45800 J	21100	20400
CHROMIUM	64		MG/KG	19.1	35.8	18	14.5	39.6 J	18.6	18.1
COBALT	1900		MG/KG	9	6.1	8.1	5.9	14.4 J	7.9	8.2
COPPER	4100		MG/KG	31.6	83	26	21.6	92.7 J	37.9 J	35.6 J
IRON	10000		MG/KG	**27300**	**17300**	**22800**	**16600**	**129000 J**	**17000**	**19300**
LEAD	800		MG/KG	13.1	320	11.4	13.9	**9390 J**	19.7	21.7
LITHIUM	2000		MG/KG	21	20.5	20.7	16.9	2.8 J	24.3	23.9
MAGNESIUM			MG/KG	8880	3720 J	7750 J	3970 J	2740 J	6790	6870
MANGANESE	1900		MG/KG	773	148 J	733 J	428 J	842 J	346 J	364 J
MERCURY	31		MG/KG	0.058	0.059	0.034 J	0.012 J	0.11 J	0.039	0.014 J
MOLYBDENUM	510		MG/KG	0.87 J	1 J	6.1 U	5.7 U	9.6 U	4.5 U	4.7 U
NICKEL	2000		MG/KG	23.2	21.4	18.9	13.8	33.8 J	21.2 J	21.4 J
POTASSIUM			MG/KG	2140	1760 J	2510	1450	430 J	1720	1720
SELENIUM	510		MG/KG	5.4 U	5.2 U	6.1 U	5.7 U	1.9 J	4.5 U	4.7 U
SILVER	510		MG/KG	0.051 J	0.12 J	0.033 J	0.05 J	2.6 J	0.27 U	0.28 U
SODIUM			MG/KG	113 J	1040 U	1220 U	1130 U	186 J	98.5 J	97.2 J
THALLIUM	6.7		MG/KG	2.2 U	2.1 U	2.4 U	2.3 U	0.33 J	1.8 U	1.9 U
VANADIUM	100		MG/KG	29.7	33.4	26.6	20.3	4.8 J	26.1	28.4
ZINC	10000		MG/KG	100 J	140 J	58.4 J	64.1 J	**16800 J**	66 J	83.3 J
General Chemistry										
CYANIDE	1200		MG/KG	0.22 U	0.18 U	0.19 U	0.21 U	0.44 U	0.19 U	0.19 U
PERCENT MOISTURE			%							
PERCENT SOLIDS			%	66	77			31	78	76
TOTAL ORGANIC CARBON			MG/KG							

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004

Crit2: New York State TAGM 4046 Soil, 1999

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	SN	SN	SN	SN
			Excavation:		X02	X03	X05	X06	X14	X32
			Sample Name:	C1-NH-SL-PIPE1	C7-CWM-SL-X02-SN01-9	C7-CWM-SL-X03-SN01-4.5	C7-CWM-SL-X05-SN01-4	C7-CWM-SL-X06-SN01-3.5	C7-CWM-SL-X14-SN01-8	C7-CWM-SL-X32-SN01-3
			Sample Depth:		9 FT	4.5 FT	4 FT	3.5 FT	8 FT	3 FT
			Sample Date:	6/29/1998	8/21/2006	8/21/2006	8/22/2006	8/22/2006	8/24/2006	8/31/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	UG/KG	500 U	6.7 U	11 U	12 U	4.9 U	15 U	9.7 U
1,1,2,2-TETRACHLOROETHANE	930	35000	UG/KG	500 U	6.7 U	11 U	12 U	4.9 U	15 U	9.7 U
1,1,2-TRICHLOROETHANE	1600		UG/KG	500 U	6.7 U	11 U	12 U	4.9 U	15 U	9.7 U
1,1-DICHLOROETHANE	170000	800000	UG/KG	500 U	6.7 U	11 U	12 U	4.9 U	15 U	9.7 U
1,1-DICHLOROETHYLENE	41000	12000	UG/KG	500 U	6.7 U	11 U	12 U	4.9 U	15 U	9.7 U
1,2-DICHLOROBENZENE	60000		UG/KG		6.7 U	11 U	12 U	4.9 U	15 U	9.7 U
1,2-DICHLOROETHANE	600	7700	UG/KG	500 U	6.7 U	11 U	12 U	4.9 U	15 U	9.7 U
1,3-DICHLOROBENZENE	60000		UG/KG		6.7 U	11 U	12 U	4.9 U	15 U	9.7 U
1,4-DICHLOROBENZENE	7900		UG/KG		6.7 U	11 U	12 U	4.9 U	15 U	9.7 U
2-BUTANONE	11000000	400000	UG/KG	2000 U	13 U	21 U	31 J	9.8 U	82 J	19 U
4-METHYL-2-PENTANONE	4700000	400000	UG/KG	2000 U	13 U	21 U	25 U	9.8 U	29 U	19 U
ACETONE	5400000	800000	UG/KG	2000 U	13 U	21 U	260 J	9.8 U	29 U	19 U
BENZENE	1400	24000	UG/KG	500 U	6.7 U	11 U	12 U	4.9 U	15 U	9.7 U
CARBON DISULFIDE	72000	800000	UG/KG	500 U	6.7 U	11 U	12 U	4.9 U	15 U	9.7 U
CHLOROBENZENE	53000	200000	UG/KG	500 U	6.7 U	11 U	12 U	4.9 U	15 U	9.7 U
CHLOROFORM	470	80000	UG/KG	500 U	6.7 U	11 U	12 U	4.9 U	15 U	9.7 U
CHLOROMETHANE	16000		UG/KG	1000 U	13 U	21 U	25 U	9.8 U	29 U	19 U
CIS-1,2-DICHLOROETHENE	15000	80000	UG/KG		6.7 U	11 U	12 U	4.9 U	15 U	9.7 U
DICHLORODIFLUOROMETHANE	31000		UG/KG		6.7 U	11 U	12 U	4.9 U	15 U	9.7 U
ETHYLBENZENE	40000	800000	UG/KG	500 U	6.7 U	11 U	12 U	4.9 U	15 U	9.7 U
ISOPROPYLBENZENE	200000		UG/KG		6.7 U	11 U	12 U	4.9 U	15 U	9.7 U
M+P-XYLENE	42000	20000000	UG/KG		6.7 U	11 U	5.5 J	2 J	3 J	9.7 U
METHYLENE CHLORIDE	21000	93000	UG/KG	500 U	13 U	21 U	25 U	9.8 U	29 U	19 U
O-XYLENE	42000	20000000	UG/KG		6.7 U	11 U	12 U	4.9 U	15 U	9.7 U
TETRACHLOROETHENE	1300	14000	UG/KG	500 U	6.7 U	11 U	12 U	4.9 U	15 U	9.7 U
TOLUENE	52000	2000000	UG/KG	500 U	6.7 U	11 U	12 U	4.9 U	15 U	9.7 U
TRANS-1,2-DICHLOROETHENE	23000	200000	UG/KG		6.7 U	11 U	12 U	4.9 U	15 U	9.7 U
TRICHLOROETHYLENE	6500	64000	UG/KG	500 U	1.6 J	11 U	12 U	4.9 U	15 U	9.7 U
VINYL CHLORIDE	750	360	UG/KG	1000 U	13 U	21 U	25 U	9.8 U	29 U	19 U
XYLENES (TOTAL)	42000	20000000	UG/KG	500 U						
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		UG/KG	1300 J	8.9 U	8.5 U	67 U	39 U	65 U	400 U
1,2-BENZPHENANTHRACENE	210000		UG/KG	170 J	140 J	1400 J	700 J	39 U	170	400 J
1,2-DICHLOROBENZENE	60000		UG/KG	180 U						
1,3-DICHLOROBENZENE	60000		UG/KG	180 U						
1,4-DICHLOROBENZENE	7900		UG/KG	160 U						

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	SN	SN	SN	SN
			Excavation:		X02	X03	X05	X06	X14	X32
			Sample Name:	C1-NH-SL-PIPE1	C7-CWM-SL-X02-SN01-9	C7-CWM-SL-X03-SN01-4.5	C7-CWM-SL-X05-SN01-4	C7-CWM-SL-X06-SN01-3.5	C7-CWM-SL-X14-SN01-8	C7-CWM-SL-X32-SN01-3
			Sample Depth:		9 FT	4.5 FT	4 FT	3.5 FT	8 FT	3 FT
			Sample Date:	6/29/1998	8/21/2006	8/21/2006	8/22/2006	8/22/2006	8/24/2006	8/31/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
1-METHYLNAPHTHALENE			UG/KG							
2,4-DIMETHYLPHENOL	1200000		UG/KG	150 U	44 U	43 U	330 U	200 U	330 U	2000 U
2-CHLOROPHENOL	24000	40000	UG/KG	180 U	44 U	43 U	330 U	200 U	330 U	2000 U
2-METHYLNAPHTHALENE	19000		UG/KG		17	90	67 U	39 U	65 U	400 U
2-METHYLPHENOL	3100000		UG/KG	150 U	44 U	43 U	330 U	200 U	330 U	2000 U
4-CHLOROANILINE	250000	30000	UG/KG	140 U	8.9 U	8.5 U	67 U	39 U	65 U	400 U
4-METHYLPHENOL	310000	400000	UG/KG	170 U	44 U	43 U	330 U	200 U	330 U	2000 U
ACENAPHTHENE	2900000	500000	UG/KG	180 U	62 J	520 J	37 J	39 U	65 U	400 U
ACENAPHTHYLENE	2900000		UG/KG	850 U	8.9 U	8.5 U	67 U	39 U	65 U	400 U
ANTHRACENE	10000000	2000000	UG/KG	11 U	160 J	1200 J	94 J	39 U	52 J	180 J
BENZ[A]ANTHRACENE	2100	224	UG/KG	120	170 J	1700 J	490 J	39 U	220	500
BENZO[A]PYRENE	210	60.9	UG/KG	30 U	110	**1300**	**570 J**	39 U	160	**540**
BENZO[B]FLUORANTHENE	2100	224	UG/KG	70 J	160 J	1600 J	690 J	39 U	190	420
BENZO[GHI]PERYLENE	2900000		UG/KG	99 J	55	600	720 J	39 U	100	1100
BENZO[K]FLUORANTHENE	21000	224	UG/KG	47	48	760	390 J	39 U	100 J	700 J
BENZYL BUTYL PHTHALATE	10000000	20000000	UG/KG	150 U	8.9 U	160	370 J	39 U	65 U	400 U
BIS(2-CHLOROETHOXY)METHANE			UG/KG	170 U	8.9 U	8.5 U	67	39 U	65 U	400 U
BIS(2-CHLOROETHYL) ETHER	580		UG/KG	180 U	8.9 U	8.5 U	67	39 U	65 U	400 U
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	UG/KG	68000	8.9 U	8.5 U	67 U	39 U	65 U	400 U
CARBAZOLE	86000		UG/KG	180 U	99 J	660 J	60 J	39 U	65 U	400 U
DIBENZ[A,H]ANTHRACENE	210	14.3	UG/KG	23 U	18	180	150 J	39 U	65 U	400 U
DIBENZOFURAN	160000		UG/KG	220 U	39 J	280 J	67 U	39 U	65 U	400 U
DIETHYL PHTHALATE	10000000	6000000	UG/KG	150 U	8.9 U	8.5 U	67 U	39 U	65 U	400 U
DI-N-BUTYL PHTHALATE	6200000	800000	UG/KG	250 U	8.9 U	8.5 U	40 J	39 U	65 U	400 U
FLUORANTHENE	2200000	300000	UG/KG	35	350	3800 J	870 J	39 U	320	990
FLUORENE	2600000	300000	UG/KG	33 U	57	500	67 U	39 U	65 U	400 U
HEXACHLORO-1,3-BUTADIENE	18000		UG/KG	**23000**	8.9 U	8.5 U	67 U	39 U	65 U	400 U
HEXACHLOROBENZENE	1100	410	UG/KG	**290000**	8.9 U	8.5 U	67 U	39 U	65 U	400 U
HEXACHLOROCYCLOPENTADIENE	370000		UG/KG	**470000**	8.9 U	8.5 U	170 U	98 U	160 U	1000 U
HEXACHLOROETHANE	62000		UG/KG	3600 J	8.9 U	8.5 U	67 U	39 U	65 U	400 U
INDENO[1,2,3-CD]PYRENE	2100		UG/KG	61	58	560	590 J	39 U	95	800
ISOPHORONE	510000	1707000	UG/KG	170 U	8.9 U	8.5 U	67 U	39 U	65 U	400 U
NAPHTHALENE	19000	30000	UG/KG	120 U	41 J	140 J	67 U	39 U	65 U	400 U
PENTACHLOROPHENOL	9000	200000	UG/KG	**49000 J**	44 U	43 U	840 U	490 U	820 U	5000 U
PHENANTHRENE	19000		UG/KG	11 U	410 J	3600 J	310 J	39 U	130	540
PHENOL	10000000	5000000	UG/KG	7100 J	44 U	43 U	330 U	200 U	330 U	2000 U
PYRENE	2900000	200000	UG/KG	120	310 J	2500 J	840 J	39 U	350	620

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	SN	SN	SN	SN
			Excavation:		X02	X03	X05	X06	X14	X32
			Sample Name:	C1-NH-SL-PIPE1	C7-CWM-SL-X02-SN01-9	C7-CWM-SL-X03-SN01-4.5	C7-CWM-SL-X05-SN01-4	C7-CWM-SL-X06-SN01-3.5	C7-CWM-SL-X14-SN01-8	C7-CWM-SL-X32-SN01-3
			Sample Depth:		9 FT	4.5 FT	4 FT	3.5 FT	8 FT	3 FT
			Sample Date:	6/29/1998	8/21/2006	8/21/2006	8/22/2006	8/22/2006	8/24/2006	8/31/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	UG/KG	**14000 J**	0.47 J	2.1 U	17 U	2.0 U	20 J	2.0 U
4,4'-DDE	7000	2100	UG/KG	**38000**	2.2 U	2.1 U	17 U	2.0 U	12	2.0 U
4,4'-DDT	7000	2100	UG/KG	**19000 J**	0.39 J	2.1 U	64 J	2.0 U	3.3 U	2.0 U
ALDRIN	100	41	UG/KG	**60000 J**	2.2 U	2.1 U	17 U	2.0 U	3.3 U	2.0 U
ALPHA-BHC	360	111	UG/KG	220 U	2.2 U	2.1 U	17 U	2.0 U	3.3 U	2.0 U
ALPHA-CHLORDANE	6500		UG/KG	170 U	2.2 U	2.1 U	17 U	2.0 U	3.3 U	2.0 U
AROCLOR 1242	740	1000	UG/KG	7800 U	22 U	21 U	**9000 J**	20 U	33 U	20 U
AROCLOR 1254	740	1000	UG/KG	5000 U	22 U	21 U	1700 U	20 U	33 U	20 U
AROCLOR 1260	740	1000	UG/KG	13000 U	22 U	180	1700 U	20 U	33 U	170 J
BETA-BHC	1300	3890	UG/KG	130 U	2.2 U	2.1 U	17 U	2.0 U	3.3 U	2.0 U
DELTA-BHC	360		UG/KG	**54000 J**	2.2 U	2.1 U	17 U	2.0 U	3.3 U	2.0 U
DIELDRIN	110	44	UG/KG	**7900 J**	2.2 U	0.52 J	21 J	2.0 U	3.9	2.0 U
ENDOSULFAN I	370000		UG/KG	7500 J	2.2 U	2.1 U	17 U	2.0 U	3.3 U	2.0 U
ENDOSULFAN II	370000		UG/KG	620 U	2.2 U	2.1 U	17 U	2.0 U	3.3 U	2.0 U
ENDOSULFAN SULFATE	370000		UG/KG	16000 J	2.2 U	2.1 U	17 U	2.0 U	3.3 U	2.4 J
ENDRIN	18000	20000	UG/KG	**27000 J**	2.2 U	2.1 U	17 U	2.0 U	3.3 U	2.0 U
ENDRIN ALDEHYDE	18000		UG/KG	**27000 J**	2.2 U	2.1 U	17 U	2.0 U	3.3 U	2 J
ENDRIN KETONE	18000		UG/KG	2000 U	2.2 U	2.1 U	17 U	2.0 U	3.3 U	2 J
GAMMA-BHC	1700	2000	UG/KG	180 U	2.2 U	2.1 U	17 U	2.0 U	3.3 U	2.0 U
GAMMA-CHLORDANE	6500	500	UG/KG	**35000**	2.2 U	2.1 U	17 U	2.0 U	3.3 U	2.0 U
HEPTACHLOR	380	160	UG/KG	180 U	2.2 U	2.1 U	38 J	2.0 U	3.3 U	2.0 U
HEPTACHLOR EPOXIDE	190	77	UG/KG	**7900 J**	2.2 U	2.1 U	17 U	2.0 U	3.3 U	2.0 U
METHOXYCHLOR	310000	40000	UG/KG	34000	2.2 U	2.1 U	17 U	2.0 U	3.3 U	2.0 U
Explosives (8330)										
2,6-DINITROTOLUENE	2500		UG/KG	280 U	100 U	100 U	100 U	99 U	100 U	100 U
2-AMINO-4,6-DINITROTOLUENE	12000		UG/KG	250 U	100 U	100 U	100 U	99 U	100 U	100 U
4-AMINO-2,6-DINITROTOLUENE	12000		UG/KG	200 U	100 U	100 U	100 U	99 U	100 U	100 U
HMX	3100000		UG/KG	300 U	200 U	200 U	520	200 U	200 U	200 U
NITROBENZENE	10000	4000	UG/KG	130 U	100 U	100 U	100 U	50 J	100 U	100 U
RDX	16000		UG/KG	220 U	200 U	200 U	200 U	200 U	200 U	200 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		MG/KG	**11300**	**12600**	6710	**16400 J**	**11600**	5050	9020
ANTIMONY	41		MG/KG	1.5 J	.85 U	0.31 J	0.55 J	.87 U	1.5 J	8
ARSENIC	1.6		MG/KG	**14.2**	**4.6**	**5.4**	**7.4 J**	**3.9 J**	**3 J**	**2.3 J**
BARIUM	6700		MG/KG	123	146 J	143 J	131 J	88.9 J	192 J	75.6 J
BERYLLIUM	190		MG/KG	0.42 J	0.64	0.31	0.69 J	0.55	0.2 J	0.43

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	SN	SN	SN	SN
			Excavation:		X02	X03	X05	X06	X14	X32
			Sample Name:	C1-NH-SL-PIPE1	C7-CWM-SL-X02-SN01-9	C7-CWM-SL-X03-SN01-4.5	C7-CWM-SL-X05-SN01-4	C7-CWM-SL-X06-SN01-3.5	C7-CWM-SL-X14-SN01-8	C7-CWM-SL-X32-SN01-3
			Sample Depth:		9 FT	4.5 FT	4 FT	3.5 FT	8 FT	3 FT
			Sample Date:	6/29/1998	8/21/2006	8/21/2006	8/22/2006	8/22/2006	8/24/2006	8/31/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
BORON	10000		MG/KG	21.8	16.9 U	17.6 U	25.9 U	17.4 U	29.7 U	15.7 J
CADMIUM	45		MG/KG	0.19 U	0.26 J	0.99	2.2 J	0.3 J	11	3.7
CALCIUM			MG/KG	22100	39200	12000	21900 J	30800	16500	40800 J
CHROMIUM	64		MG/KG	**68.7**	16.8 J	**105 J**	**92.3 J**	15.2	17.8	**574**
COBALT	1900		MG/KG	13.4	9	4.4	10.4 J	7.7	3	6.5
COPPER	4100		MG/KG	403	30.1	88.9	286 J	28.5	712	197
IRON	10000		MG/KG	**47400**	**21500**	**22200**	**37000 J**	**21500**	**10900**	**24200**
LEAD	800		MG/KG	26.2	10.5	76.8	152 J	8.1	261	773
LITHIUM	2000		MG/KG	20.5	20.7	9.7	27.3 J	18.9	6	14.2
MAGNESIUM			MG/KG	5940 J	8170	4730	14100 J	6710	2710	5530
MANGANESE	1900		MG/KG	**1930**	1150	789	291 J	613	156	288
MERCURY	31		MG/KG	0.13 J	0.031	1.1	2.4 J	0.044	4.6	**1280**
MOLYBDENUM	510		MG/KG		0.64 J	1.1 J	2.2 J	0.43 J	27.9	9.4
NICKEL	2000		MG/KG	36	18.6	13.6	46.5 J	16.8	29.1	29.2
POTASSIUM			MG/KG	1580	1620 J	1010 J	2060 J	1670 J	1490 U	1540 J
SELENIUM	510		MG/KG	4.5	1.2 J	1.1 J	1.5 J	4.3 U	3.5 J	4.1 J
SILVER	510		MG/KG	0.48 U	0.061 J	1.7	28.4 J	3.1	6.7	0.97
SODIUM			MG/KG	347	847 U	879 U	158 J	107 J	1490 U	136 J
THALLIUM	6.7		MG/KG	0.16 U	1.7 U	1.8 U	0.28 J	1.7 U	3 U	2.1 U
VANADIUM	100		MG/KG	21.4 J	27.6	16.8	38.7 J	25.7	14.7 J	66.8
ZINC	10000		MG/KG	269 J	59.3 J	1000 J	512 J	59.7 J	876 J	362 J
General Chemistry										
CYANIDE	1200		MG/KG	0.38 U	0.18 U	0.18 U	0.26 U	0.17 U	0.27	0.15 U
PERCENT MOISTURE			%	48.7						
PERCENT SOLIDS			%		75	29	50	85	51	83
TOTAL ORGANIC CARBON			MG/KG							

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004

Crit2: New York State TAGM 4046 Soil, 1999

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	SN	SN	SN	SN
			Excavation:	X39	X39	X40	X41	X48	X53	X53
			Sample Name:	C7-CWM-SL-X39-SN01-5	C7-CWM-SL-DUP4	C7-CWM-SL-X40-SN01-5.5	C7-CWM-SL-X41-SN01-6	C7-CWM-SL-X48-SN01-2	C7-CWM-SL-X53-SN01-7	C7-CWM-SL-DUP3
			Sample Depth:	5 FT	5 FT	5.5 FT	6 FT	2 FT	7 FT	7 FT
			Sample Date:	9/5/2006	9/5/2006	9/6/2006	9/6/2006	9/8/2006	9/11/2006	9/11/2006
			Parent Name:		C7-CWM-SL-X39-SN01-5					C7-CWM-SL-X53-SN01-7
Analyte	**Crit1**	**Crit2**	**Unit**							
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	UG/KG	110	110	83	500 J	21 U	9.3 U	7.7 U
1,1,2,2-TETRACHLOROETHANE	930	35000	UG/KG	8.3 U	8.0 U	5.2 U	13 U	21 U	9.3 U	7.7 U
1,1,2-TRICHLOROETHANE	1600		UG/KG	2.2 J	2 J	2.4 J	13 U	21 U	9.3 U	7.7 U
1,1-DICHLOROETHANE	170000	800000	UG/KG	37	39	30	120 J	21 U	9.3 U	7.7 U
1,1-DICHLOROETHYLENE	41000	12000	UG/KG	6 J	7.3 J	6.6	28 J	21 U	9.3 U	7.7 U
1,2-DICHLOROBENZENE	60000		UG/KG	8.3 U	8.0 U	5.2 U	13 U	21 U	9.3 U	7.7 U
1,2-DICHLOROETHANE	600	7700	UG/KG	8.3 U	8.0 U	5.2 U	13 U	21 U	9.3 U	7.7 U
1,3-DICHLOROBENZENE	60000		UG/KG	8.3 U	8.0 U	5.2 U	3 J	21 U	9.3 U	7.7 U
1,4-DICHLOROBENZENE	7900		UG/KG	8.3 U	8.0 U	5.2 U	13 U	21 U	9.3 U	7.7 U
2-BUTANONE	11000000	400000	UG/KG	17 U	16 U	10 U	27 U	41 U	19 U	15 U
4-METHYL-2-PENTANONE	4700000	400000	UG/KG	17 U	16 U	10 U	27 U	41 U	19 U	15 U
ACETONE	5400000	800000	UG/KG	17 U	16 U	10 U	27 U	41 U	19 U	15 U
BENZENE	1400	24000	UG/KG	8.3 U	8.0 U	5.2 U	13 U	21 U	9.3 U	7.7 U
CARBON DISULFIDE	72000	800000	UG/KG	8.3 U	8.0 U	5.2 U	13 U	21 U	9.3 U	7.7 U
CHLOROBENZENE	53000	200000	UG/KG	8.3 U	8.0 U	5.2 U	13 U	21 U	9.3 U	7.7 U
CHLOROFORM	470	80000	UG/KG	1.7 J	8.0 U	1.1 J	13 U	21 U	9.3 U	7.7 U
CHLOROMETHANE	16000		UG/KG	17 U	16 U	10 U	27 U	41 U	19 U	15 U
CIS-1,2-DICHLOROETHENE	15000	80000	UG/KG	39	41	47	60 J	21 U	9.3 U	7.7 U
DICHLORODIFLUOROMETHANE	31000		UG/KG	8.3 U	8.0 U	5.2 U	13 U	21 U	9.3 U	7.7 U
ETHYLBENZENE	40000	800000	UG/KG	8.3 U	8.0 U	5.2 U	13 U	21 U	9.3 U	7.7 U
ISOPROPYLBENZENE	200000		UG/KG	8.3 U	8.0 U	5.2 U	13 U	21 U	9.3 U	7.7 U
M+P-XYLENE	42000	20000000	UG/KG	8.3 U	8.0 U	3 J	13 U	21 U	9.3 U	7.7 U
METHYLENE CHLORIDE	21000	93000	UG/KG	17 U	16 U	10 U	27 U	41 U	19 U	15 U
O-XYLENE	42000	20000000	UG/KG	8.3 U	8.0 U	5.2 U	13 U	21 U	9.3 U	7.7 U
TETRACHLOROETHENE	1300	14000	UG/KG	8.3 U	8.0 U	5.2 U	13 U	21 U	9.3 U	7.7 U
TOLUENE	52000	2000000	UG/KG	8.3 U	8.0 U	1.1 J	13 U	21 U	9.3 U	7.7 U
TRANS-1,2-DICHLOROETHENE	23000	200000	UG/KG	8.3 U	8.0 U	5.2 U	13 U	21 U	9.3 U	7.7 U
TRICHLOROETHYLENE	6500	64000	UG/KG	33	33	28	38 J	21 U	9.3 U	7.7 U
VINYL CHLORIDE	750	360	UG/KG	17 U	16 U	10 U	27 U	41 U	19 U	15 U
XYLENES (TOTAL)	42000	20000000	UG/KG							
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		UG/KG	14	49 U	10	2300 J	18 U	110 U	100 U
1,2-BENZPHENANTHRACENE	210000		UG/KG	92 J	160 J	88	900 U	430 J	270	410
1,2-DICHLOROBENZENE	60000		UG/KG							
1,3-DICHLOROBENZENE	60000		UG/KG							
1,4-DICHLOROBENZENE	7900		UG/KG							

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	SN	SN	SN	SN
			Excavation:	X39	X39	X40	X41	X48	X53	X53
			Sample Name:	C7-CWM-SL-X39-SN01-5	C7-CWM-SL-DUP4	C7-CWM-SL-X40-SN01-5.5	C7-CWM-SL-X41-SN01-6	C7-CWM-SL-X48-SN01-2	C7-CWM-SL-X53-SN01-7	C7-CWM-SL-DUP3
			Sample Depth:	5 FT	5 FT	5.5 FT	6 FT	2 FT	7 FT	7 FT
			Sample Date:	9/5/2006	9/5/2006	9/6/2006	9/6/2006	9/8/2006	9/11/2006	9/11/2006
			Parent Name:		C7-CWM-SL-X39-SN01-5					C7-CWM-SL-X53-SN01-7
Analyte	**Crit1**	**Crit2**	**Unit**							
1-METHYLNAPHTHALENE			UG/KG							
2,4-DIMETHYLPHENOL	1200000		UG/KG	51 U	250 U	35 U	4500 U	91 U	550 U	510 U
2-CHLOROPHENOL	24000	40000	UG/KG	51 U	250 U	35 U	4500 U	91 U	550 U	510 U
2-METHYLNAPHTHALENE	19000		UG/KG	10 U	49 U	7.0 U	900 U	18 U	110 U	100 U
2-METHYLPHENOL	3100000		UG/KG	51 U	250 U	35 U	4500 U	91 U	550 U	510 U
4-CHLOROANILINE	250000	30000	UG/KG	10 U	49 U	7.0 U	900 U	18 U	110 U	100 U
4-METHYLPHENOL	310000	400000	UG/KG	51 U	250 U	35 U	4500 U	91 U	550 U	510 U
ACENAPHTHENE	2900000	500000	UG/KG	10 U	49 U	3.5 J	900 U	18 U	110 U	81 J
ACENAPHTHYLENE	2900000		UG/KG	5.1 J	49 U	7.7	900 U	34 J	110 U	100 U
ANTHRACENE	10000000	2000000	UG/KG	17	52	16	900 U	58 J	71 J	240 J
BENZ[A]ANTHRACENE	2100	224	UG/KG	100 J	210 J	98	900 U	410 J	350	510
BENZO[A]PYRENE	210	60.9	UG/KG	84 J	160 J	84	900 U	**350 J**	**430**	**510**
BENZO[B]FLUORANTHENE	2100	224	UG/KG	96 J	190 J	96	900 U	300 J	420	380
BENZO[GHI]PERYLENE	2900000		UG/KG	57 J	110 J	61	900 U	380 J	440	650
BENZO[K]FLUORANTHENE	21000	224	UG/KG	60	89 J	64 J	900 U	500 J	340 J	410 J
BENZYL BUTYL PHTHALATE	10000000	20000000	UG/KG	10 U	49 U	7.0 U	900 U	18 U	110 U	100 U
BIS(2-CHLOROETHOXY)METHANE			UG/KG	10 U	49 U	7.0 U	900 U	18 U	110 U	100 U
BIS(2-CHLOROETHYL) ETHER	580		UG/KG	10 U	49 U	7.0 U	900 U	18 U	110 U	100 U
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	UG/KG	750 J	1400 J	7.0 U	2500 J	120 J	1100	1300
CARBAZOLE	86000		UG/KG	11	49 U	9.8	900 U	57 J	110 U	140
DIBENZ[A,H]ANTHRACENE	210	14.3	UG/KG	10 U	49 U	7.0 U	900 U	110 J	120	100 U
DIBENZOFURAN	160000		UG/KG	10 U	49 U	7.0 U	900 U	18 U	110 U	41 J
DIETHYL PHTHALATE	10000000	6000000	UG/KG	10 U	49 U	7.0 U	900 U	18 U	110 U	100 U
DI-N-BUTYL PHTHALATE	6200000	800000	UG/KG	10 U	120	7.0 U	900 U	11 J	400	300
FLUORANTHENE	2200000	300000	UG/KG	250 J	470 J	220	900 U	660 J	470 J	1000 J
FLUORENE	2600000	300000	UG/KG	6.1 J	15 J	7.0 U	900 U	11 J	110 U	96 J
HEXACHLORO-1,3-BUTADIENE	18000		UG/KG	10 U	49 U	7.0 U	900 U	18 U	110 U	100 U
HEXACHLOROBENZENE	1100	410	UG/KG	110 J	250 J	60	**3000 J**	18 U	110 U	100 U
HEXACHLOROCYCLOPENTADIENE	370000		UG/KG	10 U	49 U	7.0 U	900 U	18 U	110 U	100 U
HEXACHLOROETHANE	62000		UG/KG	23 J	79 J	7.0 U	900 U	18 U	110 U	100 U
INDENO[1,2,3-CD]PYRENE	2100		UG/KG	53 J	100 J	55	900 U	310 J	300 J	340
ISOPHORONE	510000	1707000	UG/KG	10 U	49 U	7.0 U	900 U	18 U	110 U	100 U
NAPHTHALENE	19000	30000	UG/KG	10 U	49 U	7.0 U	670 J	18 U	110 U	100 U
PENTACHLOROPHENOL	9000	200000	UG/KG	130 U	620 U	88 U	11000 U	230 U	1400 U	1300 U
PHENANTHRENE	19000		UG/KG	58 J	150 J	62	900 U	160 J	190	720 J
PHENOL	10000000	5000000	UG/KG	51 U	250 U	35 U	4500 U	91 U	550 U	510 U
PYRENE	2900000	200000	UG/KG	150 J	290 J	130	900 U	460 J	280 J	680 J

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	SN	SN	SN	SN
			Excavation:	X39	X39	X40	X41	X48	X53	X53
			Sample Name:	C7-CWM-SL-X39-SN01-5	C7-CWM-SL-DUP4	C7-CWM-SL-X40-SN01-5.5	C7-CWM-SL-X41-SN01-6	C7-CWM-SL-X48-SN01-2	C7-CWM-SL-X53-SN01-7	C7-CWM-SL-DUP3
			Sample Depth:	5 FT	5 FT	5.5 FT	6 FT	2 FT	7 FT	7 FT
			Sample Date:	9/5/2006	9/5/2006	9/6/2006	9/6/2006	9/8/2006	9/11/2006	9/11/2006
			Parent Name:		C7-CWM-SL-X39-SN01-5					C7-CWM-SL-X53-SN01-7
Analyte	**Crit1**	**Crit2**	**Unit**							
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	UG/KG	2.6 U	2.5 U	0.63 J	900 U	4.6 U	9.9 J	6.5 J
4,4'-DDE	7000	2100	UG/KG	2.6 U	2.5 U	0.68 J	**11000 J**	4.6 U	2.4 J	2.5 U
4,4'-DDT	7000	2100	UG/KG	37 J	24 J	3 J	**73000 J**	4.6 U	10 J	8.4 J
ALDRIN	100	41	UG/KG	2.6 U	2.5 U	1.8 U	900 U	4.6 U	2.7 U	2.5 U
ALPHA-BHC	360	111	UG/KG	2.6 U	2.5 U	1.8 U	900 U	4.6 U	2.7 U	2.5 U
ALPHA-CHLORDANE	6500		UG/KG	2.6 U	2.5 U	1.8 U	1300 J	4.6 U	2.7 U	2.5 U
AROCLOR 1242	740	1000	UG/KG	51 U	49 U	18 U	180000 U	46 U	27 U	25 U
AROCLOR 1254	740	1000	UG/KG	51 U	49 U	18 U	180000 U	46 U	27 U	25 U
AROCLOR 1260	740	1000	UG/KG	460	330	18 U	**2200000 J**	94 J	66 J	94 J
BETA-BHC	1300	3890	UG/KG	2.6 U	2.5 U	1.8 U	900 U	4.6 U	2.7 U	2.5 U
DELTA-BHC	360		UG/KG	2.6 U	2.5 U	1.8 U	900 U	4.6 U	2.7 U	2.5 U
DIELDRIN	110	44	UG/KG	13 J	2.5 U	1.8 U	**43000 J**	4.6 U	2.7 U	2.5 U
ENDOSULFAN I	370000		UG/KG	2.6 U	2.5 U	1.8 U	900 U	4.6 U	2.7 U	2.5 U
ENDOSULFAN II	370000		UG/KG	2.6 U	2.5 U	1.8 U	900 U	4.6 U	2.7 U	2.5 U
ENDOSULFAN SULFATE	370000		UG/KG	2.6 U	2.5 U	1.8 U	900 U	4.6 U	2.2 J	1.6 J
ENDRIN	18000	20000	UG/KG	2.6 U	2.5 U	1.8 U	900 U	4.6 U	2.7 U	2.5 U
ENDRIN ALDEHYDE	18000		UG/KG	14 J	8.2 J	1.5 J	**61000 J**	4.6 U	2.7 U	2.5 U
ENDRIN KETONE	18000		UG/KG	2.6 U	2.5 U	1.8 U	900 U	4.6 U	2.7 U	2.5 U
GAMMA-BHC	1700	2000	UG/KG	2.6 U	2.5 U	1.8 U	900 U	4.6 U	2.7 U	2.5 U
GAMMA-CHLORDANE	6500	500	UG/KG	2.6 U	2.5 U	1.8 U	900 U	4.6 U	2.7 U	2.5 U
HEPTACHLOR	380	160	UG/KG	2.6 U	2.5 U	1.8 U	900 U	4.6 U	2.7 U	2.5 U
HEPTACHLOR EPOXIDE	190	77	UG/KG	2.6 U	2.5 U	1.8 U	900 U	4.6 U	2.7 U	2.5 U
METHOXYCHLOR	310000	40000	UG/KG	2.6 U	2.5 U	1.8 U	900 U	4.6 U	2.7 U	2.5 U
Explosives (8330)										
2,6-DINITROTOLUENE	2500		UG/KG	100 U	99 U	100 U	99 U	100 U	100 U	100 U
2-AMINO-4,6-DINITROTOLUENE	12000		UG/KG	100 U	99 U	100 U	120 J	100 U	100 U	100 U
4-AMINO-2,6-DINITROTOLUENE	12000		UG/KG	100 U	99 U	100 U	110 J	100 U	100 U	100 U
HMX	3100000		UG/KG	200 U	200 U	200 U	200 U	1300 J	200 U	200 U
NITROBENZENE	10000	4000	UG/KG	100 U	99 J	52 J	99 U	100 U	170	120 J
RDX	16000		UG/KG	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		MG/KG	**13400**	**13100**	9970	**32300 J**	8680 J	**11800 J**	8130 J
ANTIMONY	41		MG/KG	0.43 J	0.49 J	0.17 J	0.38 J	6.4 J	0.87 J	0.47 J
ARSENIC	1.6		MG/KG	**6.9**	**7.8**	**3 J**	**10.3 J**	**6.9 J**	**8.6**	**5.5 J**
BARIUM	6700		MG/KG	172 J	125 J	159 J	125 J	54.1 J	195 J	115 J
BERYLLIUM	190		MG/KG	0.62	0.58	0.48	1.2 J	0.52 J	0.57	0.37

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	SN	SN	SN	SN
			Excavation:	X39	X39	X40	X41	X48	X53	X53
			Sample Name:	C7-CWM-SL-X39-SN01-5	C7-CWM-SL-DUP4	C7-CWM-SL-X40-SN01-5.5	C7-CWM-SL-X41-SN01-6	C7-CWM-SL-X48-SN01-2	C7-CWM-SL-X53-SN01-7	C7-CWM-SL-DUP3
			Sample Depth:	5 FT	5 FT	5.5 FT	6 FT	2 FT	7 FT	7 FT
			Sample Date:	9/5/2006	9/5/2006	9/6/2006	9/6/2006	9/8/2006	9/11/2006	9/11/2006
			Parent Name:		C7-CWM-SL-X39-SN01-5					C7-CWM-SL-X53-SN01-7
Analyte	**Crit1**	**Crit2**	**Unit**							
BORON	10000		MG/KG	25.3 U	22.6 U	6.2 J	12.9 J	10.1 J	26.5 U	25 U
CADMIUM	45		MG/KG	3.3	2.7	0.69	3.2 J	4.5 J	3.4	1.5
CALCIUM			MG/KG	26900 J	20800 J	53100	67800 J	8570 J	51900 J	11000 J
CHROMIUM	64		MG/KG	**82.6**	**88.8**	14.7	**79.8 J**	60.8 J	**119 J**	**91 J**
COBALT	1900		MG/KG	8.8	8.4	11.7	27.3 J	4.8 J	8.4	6.2
COPPER	4100		MG/KG	211	184	23.6	83.1 J	370 J	287	168
IRON	10000		MG/KG	**23300**	**28600**	**19400**	**45700 J**	**30000 J**	**36100 J**	**21600 J**
LEAD	800		MG/KG	190 J	86.2 J	33.1	28.9 J	**868 J**	187 J	108 J
LITHIUM	2000		MG/KG	21.8	21.1	18	58.8 J	12.8 J	18.4	12.7
MAGNESIUM			MG/KG	6810 J	7370 J	22400	13900 J	3250 J	6990	5900
MANGANESE	1900		MG/KG	360 J	340 J	587	1890 J	157 J	702	283 J
MERCURY	31		MG/KG	1.5 J	4.9 J	0.46	0.61 J	**38.6 J**	11.4	10
MOLYBDENUM	510		MG/KG	7.1	5.5 J	2.8 J	3.2 J	51.2 J	6.6 U	6.2 U
NICKEL	2000		MG/KG	34.9	30.5	20.1	52.7 J	28 J	37.4	26.8
POTASSIUM			MG/KG	2290 J	2210 J	1960 J	5860 J	2340 J	1970	1360
SELENIUM	510		MG/KG	6.3 U	1.5 J	4.7 U	1.9 J	3.8 J	2.4 J	6.2 U
SILVER	510		MG/KG	1.1	0.64	0.037 J	0.12 J	2.5 J	10.7 J	6.6 J
SODIUM			MG/KG	1260 U	1130 U	124 J	320 J	181 J	1320 U	1250 U
THALLIUM	6.7		MG/KG	2.5 U	2.3 U	0.21 J	0.52 J	4.6 U	2.6 U	2.5 U
VANADIUM	100		MG/KG	32.1	35.4	21.2	68.2 J	31.6 J	37.5	25.7
ZINC	10000		MG/KG	299 J	214 J	9.4 U	17.9 U	491 J	550 J	397 J
General Chemistry										
CYANIDE	1200		MG/KG	0.19 U	0.19 U	0.18 U	0.38 U	0.45 U	0.25 U	0.20 U
PERCENT MOISTURE			%							
PERCENT SOLIDS			%	65	68	95	37	36	61	66
TOTAL ORGANIC CARBON			MG/KG							

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.
Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	SN	SN	UN	UN
			Excavation:	X55	X83	X97	X103	X106		
			Sample Name:	C7-CWM-SL-X55-SN01-7	C7-CWM-SL-X83-SN01-6	C7-CWM-SL-X97-SN01-11	C7-CWM-SL-X103-SN01-12	C7-CWM-SL-X106-SN01-16	C1-4-SD-BP4-1	C1-8-SO-BP2-2
			Sample Depth:	7 FT	6 FT	14 FT	12 FT	16 FT	1 FT	2 FT
			Sample Date:	9/11/2006	9/21/2006	10/2/2006	10/5/2006	9/29/2006	10/5/2000	9/25/2000
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	UG/KG	21 U	8.3 U	13 U	720 J	22 U	2 U	2 U
1,1,2,2-TETRACHLOROETHANE	930	35000	UG/KG	21 U	8.3 U	13 U	520 J	22 U	2 U	3 U
1,1,2-TRICHLOROETHANE	1600		UG/KG	21 U	8.3 U	13 U	1100 J	22 U	4 U	7 U
1,1-DICHLOROETHANE	170000	800000	UG/KG	21 U	8.3 U	13 U	200 J	22 U	2 U	3 U
1,1-DICHLOROETHYLENE	41000	12000	UG/KG	21 U	8.3 U	13 U	85 J	22 U	2 U	3 U
1,2-DICHLOROBENZENE	60000		UG/KG	21 U	8.3 U	13 U	10000 J	22 U		
1,2-DICHLOROETHANE	600	7700	UG/KG	21 U	8.3 U	13 U	440 J	22 U	2 U	3 U
1,3-DICHLOROBENZENE	60000		UG/KG	21 U	8.3 U	13 U	240 J	22 U		
1,4-DICHLOROBENZENE	7900		UG/KG	21 U	8.3 U	13 U	7800 J	22 U		
2-BUTANONE	11000000	400000	UG/KG	110 J	17 U	26 U	110 U	44 U	4 U	5300 J
4-METHYL-2-PENTANONE	4700000	400000	UG/KG	42 U	17 U	26 U	110 U	44 U	7 U	9600
ACETONE	5400000	800000	UG/KG	330 J	17 U	26 U	620 J	44 U	290 J	3000
BENZENE	1400	24000	UG/KG	42 J	8.3 U	13 U	160 J	22 U	2 U	3 U
CARBON DISULFIDE	72000	800000	UG/KG	28 J	8.3 U	13 U	420 J	22 U	2 U	7 J
CHLOROBENZENE	53000	200000	UG/KG	21 U	8.3 U	13 U	2000 J	22 U	2 U	3 U
CHLOROFORM	470	80000	UG/KG	21 U	8.3 U	13 U	**11000 J**	22 U	2 U	3 U
CHLOROMETHANE	16000		UG/KG	250 J	17 U	26 U	110 U	44 U	1 U	2 U
CIS-1,2-DICHLOROETHENE	15000	80000	UG/KG	21 U	8.3 U	13 U	840 J	22 U	2 U	3 U
DICHLORODIFLUOROMETHANE	31000		UG/KG	21 U	8.3 U	13 U	53 U	22 U		
ETHYLBENZENE	40000	800000	UG/KG	25 J	8.3 U	13 U	350 J	22 U	2 U	720
ISOPROPYLBENZENE	200000		UG/KG	21 U	8.3 U	13 U	170 J	22 U		
M+P-XYLENE	42000	20000000	UG/KG	120 J	8.3 U	13 U	980 J	22 U		
METHYLENE CHLORIDE	21000	93000	UG/KG	42 U	17 U	26 U	1500 J	44 J	4 U	9 J
O-XYLENE	42000	20000000	UG/KG	56 J	8.3 U	13 U	370 J	22 U		
TETRACHLOROETHENE	1300	14000	UG/KG	15 J	8.3 U	13 U	**1300 J**	22 U	2 U	3 U
TOLUENE	52000	2000000	UG/KG	120 J	8.3 U	13 U	11000 J	22 U	11 J	2700
TRANS-1,2-DICHLOROETHENE	23000	200000	UG/KG	21 U	8.3 U	13 U	56 J	22 U	2 U	2 U
TRICHLOROETHYLENE	6500	64000	UG/KG	21 U	8.3 U	13 U		22 U	1 U	2 U
VINYL CHLORIDE	750	360	UG/KG	42 U	17 U	26 U	180 J	44 U	2 U	3 U
XYLENES (TOTAL)	42000	20000000	UG/KG						10 J	15000
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		UG/KG	580 J	10 U	170 U	70 U	150 U	1500 U	120 U
1,2-BENZPHENANTHRACENE	210000		UG/KG	570 J	14	170 J	70 U	44 J	340 J	380
1,2-DICHLOROBENZENE	60000		UG/KG						1100 U	89 U
1,3-DICHLOROBENZENE	60000		UG/KG						1400 U	120 U
1,4-DICHLOROBENZENE	7900		UG/KG						1500 U	120 U

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	SN	SN	UN	UN
			Excavation:	X55	X83	X97	X103	X106		
			Sample Name:	C7-CWM-SL-X55-SN01-7	C7-CWM-SL-X83-SN01-6	C7-CWM-SL-X97-SN01-11	C7-CWM-SL-X103-SN01-12	C7-CWM-SL-X106-SN01-16	C1-4-SD-BP4-1	C1-8-SO-BP2-2
			Sample Depth:	7 FT	6 FT	14 FT	12 FT	16 FT	1 FT	2 FT
			Sample Date:	9/11/2006	9/21/2006	10/2/2006	10/5/2006	9/29/2006	10/5/2000	9/25/2000
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
1-METHYLNAPHTHALENE			UG/KG							
2,4-DIMETHYLPHENOL	1200000		UG/KG	2900 J	52 U	870 U	350 U	730 U	2600 U	210 U
2-CHLOROPHENOL	24000	40000	UG/KG	1400 U	52 U	870 U	350 U	730 U	1300 U	110 U
2-METHYLNAPHTHALENE	19000		UG/KG	1800 J	10 U	170 U	70 U	150 U	370 J	
2-METHYLPHENOL	3100000		UG/KG	8100 J	52 U	870 U	350 U	730 U	1500 U	130 U
4-CHLOROANILINE	250000	30000	UG/KG	1300 J	10 U	170 U	70 U	150 U	1400 U	110 U
4-METHYLPHENOL	310000	400000	UG/KG	6400 J	52 U	870 U	350 U	730 U	3200 U	410
ACENAPHTHENE	2900000	500000	UG/KG	280 U	10 U	170 U	70 U	150 U	650 J	24 U
ACENAPHTHYLENE	2900000		UG/KG	280 U	3.6 J	170 U	70 U	150 U	46 U	40 U
ANTHRACENE	10000000	2000000	UG/KG	280 U	4.2 J	170 U	70 U	150 U	140	41 J
BENZ[A]ANTHRACENE	2100	224	UG/KG	470 J	15	180 J	70 U	29 J	270 J	200
BENZO[A]PYRENE	210	60.9	UG/KG	**430 J**	13	170 U	70 U	150 U	**210 J**	**290**
BENZO[B]FLUORANTHENE	2100	224	UG/KG	370 J	13	170 U	70 U	44 J	290 J	390
BENZO[GHI]PERYLENE	2900000		UG/KG	670 J	12	110 J	70 U	150 U	96 J	260 J
BENZO[K]FLUORANTHENE	21000	224	UG/KG	720 J	16 J	170 U	70 U	150 U	160 J	140 J
BENZYL BUTYL PHTHALATE	10000000	20000000	UG/KG	280 U	10 U	170 U	70 U	150 U	1100 U	100 J
BIS(2-CHLOROETHOXY)METHANE			UG/KG	280 U	10 U	170 U	70 U	150 U	1400 U	110 U
BIS(2-CHLOROETHYL) ETHER	580		UG/KG	280 U	10 U	170 U	70 U	150 U	1300 U	100 U
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	UG/KG	4800 J	10 U	290 J	70 U	150 U	8000 J	1500 J
CARBAZOLE	86000		UG/KG	280 U	10 U	170 U	70 U	150 U	910 U	76 U
DIBENZ[A,H]ANTHRACENE	210	14.3	UG/KG	280 U	10 U	170 U	70 U	150 U	59 J	92 J
DIBENZOFURAN	160000		UG/KG	280 U	10 U	170 U	70 U	150 U	1500 U	120 U
DIETHYL PHTHALATE	10000000	6000000	UG/KG	280 U	10 U	170 U	70 U	150 U	930 U	77 U
DI-N-BUTYL PHTHALATE	6200000	800000	UG/KG	1300 J	10 U	170 U	70 U	150 U	910 U	76 U
FLUORANTHENE	2200000	300000	UG/KG	680 J	22	370 J	70 U	73 J	780	660
FLUORENE	2600000	300000	UG/KG	280 U	10 U	170 U	70 U	150 U	42 J	5.7 U
HEXACHLORO-1,3-BUTADIENE	18000		UG/KG	150 J	10 U	170 U	70 U	150 U	1300 U	110 U
HEXACHLOROBENZENE	1100	410	UG/KG	280 U	10 U	170 U	70 U	150 U	1200 U	97 U
HEXACHLOROCYCLOPENTADIENE	370000		UG/KG	280 U	10 U	170 U	180 U	150 U	2600 U	210 U
HEXACHLOROETHANE	62000		UG/KG	280 U	10 U	170 U	70 U	150 U	1200 U	100 U
INDENO[1,2,3-CD]PYRENE	2100		UG/KG	480 J	9.9 J	170 U	70 U	150 U	93 J	170 J
ISOPHORONE	510000	1707000	UG/KG	280 U	10 U	170 U	70 U	150 U	1600 U	130 U
NAPHTHALENE	19000	30000	UG/KG	920 J	10 U	170 U	70 U	150 U	32 U	410 J
PENTACHLOROPHENOL	9000	200000	UG/KG	3500 U	130 U	2200 U	880 U	1800 U	6200 U	510 U
PHENANTHRENE	19000		UG/KG	280 U	17	250 J	70 U	150 U	390	260
PHENOL	10000000	5000000	UG/KG	27000 J	52 U	870 U	350 U	730 U	1300 U	210
PYRENE	2900000	200000	UG/KG	1400 J	18	290 J	70 U	81 J	580	420

			Line Type:	SN	SN	SN	SN	SN	UN	UN
			Excavation:	X55	X83	X97	X103	X106		
			Sample Name:	C7-CWM-SL-X55-SN01-7	C7-CWM-SL-X83-SN01-6	C7-CWM-SL-X97-SN01-11	C7-CWM-SL-X103-SN01-12	C7-CWM-SL-X106-SN01-16	C1-4-SD-BP4-1	C1-8-SO-BP2-2
			Sample Depth:	7 FT	6 FT	14 FT	12 FT	16 FT	1 FT	2 FT
			Sample Date:	9/11/2006	9/21/2006	10/2/2006	10/5/2006	9/29/2006	10/5/2000	9/25/2000
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	UG/KG	120 J	2.6 U	38 J	18 U	7.3 U	13 J	8.2 J
4,4'-DDE	7000	2100	UG/KG	22 J	1.8 J	8.6 U	18 U	3.4 J	62 J	29
4,4'-DDT	7000	2100	UG/KG	25 J	2.6 U	120 J	18 U	9.2 J	25 J	33
ALDRIN	100	41	UG/KG	7.0 U	2.6 U	8.6 U	18 U	7.3 U	14 J	5.2 J
ALPHA-BHC	360	111	UG/KG	7.0 U	2.6 U	8.6 U	18 U	7.3 U	7.6 U	0.69 J
ALPHA-CHLORDANE	6500		UG/KG	7.0 U	2.6 U	8.6 U	18 U	7.3 U	14 U	1.2 U
AROCLOR 1242	740	1000	UG/KG	69 U	26 U	43 U	180 U	73 U	180 U	15 U
AROCLOR 1254	740	1000	UG/KG	69 U	26 U	43 U	180 U	73 U	**2900**	13 U
AROCLOR 1260	740	1000	UG/KG	69 U	26 U	43 U	180 U	73 U	98 U	8.2 U
BETA-BHC	1300	3890	UG/KG	7.0 U	2.6 U	8.6 U	18 U	7.3 U	9.8 U	0.82 U
DELTA-BHC	360		UG/KG	25 J	2.6 U	8.6 U	18 U	7.3 U	9.8 U	0.82 U
DIELDRIN	110	44	UG/KG	12 J	2.6 U	8.6 U	18 U	7.3 U	19	0.72 U
ENDOSULFAN I	370000		UG/KG	7.0 U	2.6 U	8.6 U	18 U	7.3 U	30 J	17 J
ENDOSULFAN II	370000		UG/KG	7.0 U	2.6 U	8.6 U	18 U	7.3 U	7.2 U	31 J
ENDOSULFAN SULFATE	370000		UG/KG	7.0 U	2.6 U	8.6 U	18 U	7.3 U	17 U	8 J
ENDRIN	18000	20000	UG/KG	7.0 U	2.6 U	8.6 U	18 U	7.3 U	30 U	6.3 J
ENDRIN ALDEHYDE	18000		UG/KG	6.5 J	2.6 U	4.9 J	18 U	7.3 U	19 U	1.6 U
ENDRIN KETONE	18000		UG/KG	7.0 U	2.6 U	8.6 U	18 U	7.3 U	14 U	4.9 J
GAMMA-BHC	1700	2000	UG/KG	7.0 U	2.6 U	22 J	18 U	7.3 U	9 U	10
GAMMA-CHLORDANE	6500	500	UG/KG	7.0 U	2.6 U	8.6 U	18 U	7.3 U	7 U	1.8 J
HEPTACHLOR	380	160	UG/KG	7.0 U	2.6 U	8.6 U	18 U	7.3 U	12 U	1 U
HEPTACHLOR EPOXIDE	190	77	UG/KG	15 J	2.6 U	8.6 U	18 U	7.3 U	26 J	19 J
METHOXYCHLOR	310000	40000	UG/KG	7.0 U	2.6 U	38 J	18 U	7.3 U	52 U	4.4 U
Explosives (8330)										
2,6-DINITROTOLUENE	2500		UG/KG	10 U	100 U	100 U	310	100 U	400 U	340 U
2-AMINO-4,6-DINITROTOLUENE	12000		UG/KG	10 U	100 U	100 U	100 U	100 U	280 U	240 U
4-AMINO-2,6-DINITROTOLUENE	12000		UG/KG	10 U	100 U	73 J	100 U	100 U	440 U	380 U
HMX	3100000		UG/KG	20 U	200 U	200 U	200 U	200 U	380 U	330 U
NITROBENZENE	10000	4000	UG/KG	79	100 U	100 U	100 U	38 J	220 U	190 U
RDX	16000		UG/KG	20 U	200 U	200 U	200 U	200 U	360 U	310 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		MG/KG	**14500 J**	8850	**21200 J**	8290 J	**10300 J**	6190	
ANTIMONY	41		MG/KG	24.8 J	1.2 U	0.67 J	1.4 J	1.9 J	**104 J**	
ARSENIC	1.6		MG/KG	**951 J**	**2.8 J**	**10.5 J**	**998 J**	**17 J**	**8.5**	
BARIUM	6700		MG/KG	350 J	54.2	163 J	91.7 J	131 J	65.8	
BERYLLIUM	190		MG/KG	0.92 J	0.4	0.9 J	0.44 J	0.51 J	0.46 J	

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	SN	SN	UN	UN
			Excavation:	X55	X83	X97	X103	X106		
			Sample Name:	C7-CWM-SL-X55-SN01-7	C7-CWM-SL-X83-SN01-6	C7-CWM-SL-X97-SN01-11	C7-CWM-SL-X103-SN01-12	C7-CWM-SL-X106-SN01-16	C1-4-SD-BP4-1	C1-8-SO-BP2-2
			Sample Depth:	7 FT	6 FT	14 FT	12 FT	16 FT	1 FT	2 FT
			Sample Date:	9/11/2006	9/21/2006	10/2/2006	10/5/2006	9/29/2006	10/5/2000	9/25/2000
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
BORON	10000		MG/KG	364 J	24.6 U	70.3 J	298 J	51 U	15.6 J	
CADMIUM	45		MG/KG	16 J	0.22 J	1.7 J	1.2 J	1.2 J	24.2	
CALCIUM			MG/KG	107000 J	16600	59300 J	34900 J	82000 J	23900	
CHROMIUM	64		MG/KG	**1150 J**	12.2	**186 J**	59.7 J	59 J	48.1 J	
COBALT	1900		MG/KG	292 J	5.6 J	12.6 J	12.6 J	15 J	15.5	
COPPER	4100		MG/KG	**6040 J**	42.6	158 J	107 J	207 J	63	
IRON	10000		MG/KG	**436000 J**	**16300**	**54600 J**	**59800 J**	**158000 J**	263	
LEAD	800		MG/KG	254 J	27.7	62.4 J	15.5 J	37.7 J	235	
LITHIUM	2000		MG/KG	14.4 J	13.4	30.3 J	12.2 J	16.2 J	9.5	
MAGNESIUM			MG/KG	5450 J	4350	9330 J	4570 J	7790 J	9980 J	
MANGANESE	1900		MG/KG	**2240 J**	310	791 J	375 J	1550 J	568	
MERCURY	31		MG/KG	3.7	0.075	25.9	0.25 U	0.71 J	0.13	
MOLYBDENUM	510		MG/KG	41.5 J	6.1 U	3.3 J	16.9 J	20.9 J		
NICKEL	2000		MG/KG	305 J	15.4	54.5 J	69.7 J	89.7 J	38.7	
POTASSIUM			MG/KG	1750 J	1780	4740 J	2060 J	2470 J	946 J	
SELENIUM	510		MG/KG	2.7 J	6.1 U	8.3 U	32 U	3.8 J	1.3	
SILVER	510		MG/KG	8 J	0.049 J	18.2 J	1.9 U	0.42 J	0.19 J	
SODIUM			MG/KG	393 J	1230 U	278 J	388 J	557 J	104 J	
THALLIUM	6.7		MG/KG	0.41 J	2.5 U	3.3 U	13 U	5.1 U	0.74 U	
VANADIUM	100		MG/KG	**141 J**	18.2	49.5 J	28.1 J	58.2 J	21.2	
ZINC	10000		MG/KG	830 J	73.4 J	478 J	148 J	198 J	1020 J	
General Chemistry										
CYANIDE	1200		MG/KG	0.55 U	0.20 U	0.34 U	0.0050 U	0.61 U	0.12 U	0.11 U
PERCENT MOISTURE			%							
PERCENT SOLIDS			%	24	64	38	9.5	23	52.5	
TOTAL ORGANIC CARBON			MG/KG							

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.
Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	UN	UN	UN	UN	UN	UN	UN
			Excavation:		X11	X47	X85	X85	X117	X118
			Sample Name:	C1-10-SL-BP5	C7-CWM-SL-X11-WW01-3	C7-CWM-SL-X47-UN02-1	C7-CWM-SL-X85-UN01-6	C7-CWM-SL-X85-UN02-4	C7-CWM-SL-X117-UN01-4	C7-CWM-SL-X118-UN01-5
			Sample Depth:	FT	3 FT	1 FT	6 FT	4 FT	4 FT	5 FT
			Sample Date:	7/27/2000	8/23/2006	9/7/2006	9/22/2006	9/22/2006	10/10/2006	10/11/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	UG/KG	1 U	23 U	8.5 U	9.7 U	12 U	18 U	21 U
1,1,2,2-TETRACHLOROETHANE	930	35000	UG/KG	1 U	23 U	8.5 U	9.7 U	12 U	18 U	21 U
1,1,2-TRICHLOROETHANE	1600		UG/KG	3 U	23 U	8.5 U	9.7 U	12 U	18 U	21 U
1,1-DICHLOROETHANE	170000	800000	UG/KG	1 U	23 U	8.5 U	14	4.8 J	18 U	21 U
1,1-DICHLOROETHYLENE	41000	12000	UG/KG	2 U	23 U	8.5 U	9.7 U	12 U	18 U	21 U
1,2-DICHLOROBENZENE	60000		UG/KG		23 U	8.5 U	10 J	12 U	18 U	21 U
1,2-DICHLOROETHANE	600	7700	UG/KG	2 U	23 U	8.5 U	21	12 U	18 U	21 U
1,3-DICHLOROBENZENE	60000		UG/KG		23 U	8.5 U	9.7 U	12 U	18 U	21 U
1,4-DICHLOROBENZENE	7900		UG/KG		23 U	8.5 U	9.7 U	43 J	18 U	21 U
2-BUTANONE	11000000	400000	UG/KG	3 U	47 U	17 U	62 J	24 U	36 U	43 U
4-METHYL-2-PENTANONE	4700000	400000	UG/KG	5 U	47 U	17 U	14 J	24 U	36 U	43 U
ACETONE	5400000	800000	UG/KG	200 J	47 U	17 U	530 J	24 U	36 U	96 J
BENZENE	1400	24000	UG/KG	5 J	23 U	8.5 U	140	4.9 J	18 U	21 U
CARBON DISULFIDE	72000	800000	UG/KG	2 U	23 U	8.5 U	9.7 U	31 J	18 U	21 U
CHLOROBENZENE	53000	200000	UG/KG	2 U	23 U	8.5 U	33	7.8 J	18 U	21 U
CHLOROFORM	470	80000	UG/KG	2 U	23 U	8.5 U	9.7 U	12 U	18 U	21 U
CHLOROMETHANE	16000		UG/KG	0.8 U	47 U	17 U	19 U	24 U	36 U	43 U
CIS-1,2-DICHLOROETHENE	15000	80000	UG/KG	1 U	23 U	8.5 U	9.7 U	12 U	18 U	21 U
DICHLORODIFLUOROMETHANE	31000		UG/KG		23 U	8.5 U	9.7 U	12 U	18 U	21 U
ETHYLBENZENE	40000	800000	UG/KG	1 U	23 U	8.5 U	40	12 U	18 U	21 U
ISOPROPYLBENZENE	200000		UG/KG		23 U	8.5 U	16000 J	1100 J	18 U	21 U
M+P-XYLENE	42000	20000000	UG/KG		23 U	2.4 J	110	10 J	18 U	21 U
METHYLENE CHLORIDE	21000	93000	UG/KG	3 U	47 U	17 U	19 U	24 U	36 U	43 U
O-XYLENE	42000	20000000	UG/KG		23 U	8.5 U	35	12 U	18 U	21 U
TETRACHLOROETHENE	1300	14000	UG/KG	2 U	23 U	8.5 U	9.7 U	12 U	18 U	21 U
TOLUENE	52000	2000000	UG/KG	2 U	23 U	8.5 U	590 J	4.7 J	18 U	21 U
TRANS-1,2-DICHLOROETHENE	23000	200000	UG/KG	1 U	23 U	8.5 U	9.7 U	12 U	18 U	21 U
TRICHLOROETHYLENE	6500	64000	UG/KG	1 U	23 U	8.5 U	2.5 J	12 U	18 U	21 U
VINYL CHLORIDE	750	360	UG/KG	1 U	47 U	17 U	13 J	24 U	36 U	43 U
XYLENES (TOTAL)	42000	20000000	UG/KG	2 U						
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		UG/KG	110 U	160 U	84 U	65 U	25 J	18 U	17 U
1,2-BENZPHENANTHRACENE	210000		UG/KG	33 J	4000 J	29 J	4300	46 J	4900	73 J
1,2-DICHLOROBENZENE	60000		UG/KG	82 U						
1,3-DICHLOROBENZENE	60000		UG/KG	110 U						
1,4-DICHLOROBENZENE	7900		UG/KG	110 U						

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	UN	UN	UN	UN	UN	UN	UN
			Excavation:		X11	X47	X85	X85	X117	X118
			Sample Name:	C1-10-SL-BP5	C7-CWM-SL-X11-WW01-3	C7-CWM-SL-X47-UN02-1	C7-CWM-SL-X85-UN01-6	C7-CWM-SL-X85-UN02-4	C7-CWM-SL-X117-UN01-4	C7-CWM-SL-X118-UN01-5
			Sample Depth:	FT	3 FT	1 FT	6 FT	4 FT	4 FT	5 FT
			Sample Date:	7/27/2000	8/23/2006	9/7/2006	9/22/2006	9/22/2006	10/10/2006	10/11/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
1-METHYLNAPHTHALENE			UG/KG	33 J						
2,4-DIMETHYLPHENOL	1200000		UG/KG	200 U	780 U	420 U	140 J	79 U	88 U	86 U
2-CHLOROPHENOL	24000	40000	UG/KG	97 U	780 U	420 U	420	79 U	88 U	86 U
2-METHYLNAPHTHALENE	19000		UG/KG	150 J	160 U	84 U	400	16 U	18 U	17 U
2-METHYLPHENOL	3100000		UG/KG	120 U	780 U	420 U	440	79 U	88 U	86 U
4-CHLOROANILINE	250000	30000	UG/KG	100 U	160 U	84 U	65 U	16 U	18 U	17 U
4-METHYLPHENOL	310000	400000	UG/KG	980	780 U	420 U	1600	79 U	88 U	86 U
ACENAPHTHENE	2900000	500000	UG/KG	39 J	86 J	84 U	1200	16 U	76	17 U
ACENAPHTHYLENE	2900000		UG/KG	35 U	160 U	84 U	1300	16 U	340	17 U
ANTHRACENE	10000000	2000000	UG/KG	18	610 J	84 U	17000	21 J	1800	18 J
BENZ[A]ANTHRACENE	2100	224	UG/KG	20 J	**5200 J**	29 J	**40000**	65 J	**9700**	99 J
BENZO[A]PYRENE	210	60.9	UG/KG	40	**3600 J**	25 J	**27000**	37 J	**4500**	76 J
BENZO[B]FLUORANTHENE	2100	224	UG/KG	38 J	**4700 J**	29 J	**27000**	38 J	**2200**	140 J
BENZO[GHI]PERYLENE	2900000		UG/KG	18 J	2100 J	84 U	12000	20 J	2500	51 J
BENZO[K]FLUORANTHENE	21000	224	UG/KG	15	2400 J	25 J	**22000 J**	44 J	11000	17 U
BENZYL BUTYL PHTHALATE	10000000	20000000	UG/KG	85 U	160 U	84 U	65 U	16 U	18 U	17 U
BIS(2-CHLOROETHOXY)METHANE			UG/KG	100 U	160 U	84 U	65 U	16 U	18 U	17 U
BIS(2-CHLOROETHYL) ETHER	580		UG/KG	96 U	160 U	84 U	65 U	16 U	18 U	17 U
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	UG/KG	260 J	160 U	84 U	65 U	57 J	18 U	17 U
CARBAZOLE	86000		UG/KG	70 U	340 J	84 U	15000	120 J	900	17 J
DIBENZ[A,H]ANTHRACENE	210	14.3	UG/KG	5.3 U	160 U	84 U	**3900**	10 J	**1300**	17 U
DIBENZOFURAN	160000		UG/KG	110 U	160 U	84 U	3000	16 J	41	17 U
DIETHYL PHTHALATE	10000000	6000000	UG/KG	72 U	160 U	84 U	65 U	16 U	18 U	17 U
DI-N-BUTYL PHTHALATE	6200000	800000	UG/KG	70 U	160 U	84 U	65 U	7.8 J	18 U	17 U
FLUORANTHENE	2200000	300000	UG/KG	77 J	5800 J	54 J	98000	120 J	17000	160 J
FLUORENE	2600000	300000	UG/KG	5 U	94 J	84 U	8100	36 J	320	17 U
HEXACHLORO-1,3-BUTADIENE	18000		UG/KG	100 U	160 U	84 U	65 U	16 U	18 U	17 U
HEXACHLOROBENZENE	1100	410	UG/KG	90 U	160 U	84 U	65 U	16 U	18 U	17 U
HEXACHLOROCYCLOPENTADIENE	370000		UG/KG	200 U	390 U	84 U	65 U	16 U	44 U	43 U
HEXACHLOROETHANE	62000		UG/KG	93 U	160 U	84 U	65 U	16 U	18 U	17 U
INDENO[1,2,3-CD]PYRENE	2100		UG/KG	16 J	**2100 J**	84 U	**12000**	22 J	**2800**	47 J
ISOPHORONE	510000	1707000	UG/KG	120 U	160 U	84 U	65 U	16 U	18 U	17 U
NAPHTHALENE	19000	30000	UG/KG	24 U	160 U	84 U	620	20 J	14 J	3.4 J
PENTACHLOROPHENOL	9000	200000	UG/KG	470 U	2000 U	1100 U	810 U	200 U	220 J	220 U
PHENANTHRENE	19000		UG/KG	60	1600 J	25 J	**66000**	120 J	3300	100 J
PHENOL	10000000	5000000	UG/KG	100 U	780 U	420 U	17000	79 U	88 U	86 U
PYRENE	2900000	200000	UG/KG	59	6000 J	33 J	62000	100 J	15000	150 J

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	UN	UN	UN	UN	UN	UN	UN
			Excavation:		X11	X47	X85	X85	X117	X118
			Sample Name:	C1-10-SL-BP5	C7-CWM-SL-X11-WW01-3	C7-CWM-SL-X47-UN02-1	C7-CWM-SL-X85-UN01-6	C7-CWM-SL-X85-UN02-4	C7-CWM-SL-X117-UN01-4	C7-CWM-SL-X118-UN01-5
			Sample Depth:	FT	3 FT	1 FT	6 FT	4 FT	4 FT	5 FT
			Sample Date:	7/27/2000	8/23/2006	9/7/2006	9/22/2006	9/22/2006	10/10/2006	10/11/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	UG/KG	3.4 J	7.8 U	21 U	59 J	20 U	70 J	86 J
4,4'-DDE	7000	2100	UG/KG	7.1	15 J	31 J	16 U	20 U	41 J	59 J
4,4'-DDT	7000	2100	UG/KG	5.9	10 J	21 U	16 U	20 U	220 J	86 J
ALDRIN	100	41	UG/KG	0.81 U	7.8 U	21 U	16 U	20 U	22 U	8.6 U
ALPHA-BHC	360	111	UG/KG	0.59 U	7.8 U	21 U	16 U	20 U	22 U	8.6 U
ALPHA-CHLORDANE	6500		UG/KG	1.1 U	7.8 U	21 U	16 U	20 U	22 U	8.6 U
AROCLOR 1242	740	1000	UG/KG	14 U	78 U	21 U	1600 U	39 U	44 U	43 U
AROCLOR 1254	740	1000	UG/KG	240	78 U	21 U	1600 U	39 U	44 U	43 U
AROCLOR 1260	740	1000	UG/KG	7.7 U	78 U	25	**12000 J**	39 U	44 U	43 U
BETA-BHC	1300	3890	UG/KG	0.77 U	7.8 U	21 U	16 U	20 U	22 U	8.6 U
DELTA-BHC	360		UG/KG	0.77 U	7.8 U	21 U	16 U	20 U	22 U	8.6 U
DIELDRIN	110	44	UG/KG	2.8	7.8 U	**140 NJ**	16 U	20 U	22 U	8.6 U
ENDOSULFAN I	370000		UG/KG	1.1 U	7.8 U	21 U	16 U	20 U	22 U	8.6 U
ENDOSULFAN II	370000		UG/KG	0.56 U	1.6 J	21 U	16 U	20 U	22 U	8.6 U
ENDOSULFAN SULFATE	370000		UG/KG	1.3 U	7.8 U	21 U	16 U	20 U	22 U	8.6 U
ENDRIN	18000	20000	UG/KG	2.3 U	7.8 U	21 U	16 U	20 U	22 U	8.6 U
ENDRIN ALDEHYDE	18000		UG/KG	3.8 J	7.8 U	21 U	16 U	20 U	22 U	8.6 U
ENDRIN KETONE	18000		UG/KG	2.1 J	7.8 U	21 U	16 U	20 U	22 U	8.6 U
GAMMA-BHC	1700	2000	UG/KG	0.7 U	7.8 U	21 U	16 U	20 U	22 U	8.6 U
GAMMA-CHLORDANE	6500	500	UG/KG	2.7	7.8 U	21 U	16 U	20 U	22 U	8.6 U
HEPTACHLOR	380	160	UG/KG	0.94 U	7.8 U	21 U	16 U	20 U	22 U	8.6 U
HEPTACHLOR EPOXIDE	190	77	UG/KG	1.7 J	7.8 U	21 U	16 U	20 U	22 U	8.6 U
METHOXYCHLOR	310000	40000	UG/KG	4.1 U	7.8 U	21 U	16 U	20 U	22 U	8.6 U
Explosives (8330)										
2,6-DINITROTOLUENE	2500		UG/KG	300 U	99 U	100 U	100 U	100 U	100 U	100 U
2-AMINO-4,6-DINITROTOLUENE	12000		UG/KG	210 U	99 U	100 U	100 U	100 U	100 U	100 U
4-AMINO-2,6-DINITROTOLUENE	12000		UG/KG	330 U	99 U	100 U	710 J	100 U	100 U	100 U
HMX	3100000		UG/KG	500 J	200 U	200 U	1400	280 J	200 U	200 U
NITROBENZENE	10000	4000	UG/KG	170 U	99 U	100 U	100 U	410 J	750 J	31 J
RDX	16000		UG/KG	270 U	200 U	200 U	1100 J	200 U	200 U	200 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		MG/KG	5400	**14200 J**	**11900**	1060	4740 J	**16700 J**	**15300 J**
ANTIMONY	41		MG/KG	1.4 J	1.5 J	0.25 J	0.81 J	0.3 J	0.9 J	0.33 J
ARSENIC	1.6		MG/KG	**2.8**	**26.1 J**	**4 J**	**5.2 J**	**7.1 J**	**7.7 J**	**3.8 J**
BARIUM	6700		MG/KG	49.7	166 J	99.5	42.8	104 J	153 J	162 J
BERYLLIUM	190		MG/KG	0.04 J	0.65 J	0.56	.27 U	0.24 J	0.64 J	0.77 J

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	UN	UN	UN	UN	UN	UN	UN
			Excavation:		X11	X47	X85	X85	X117	X118
			Sample Name:	C1-10-SL-BP5	C7-CWM-SL-X11-WW01-3	C7-CWM-SL-X47-UN02-1	C7-CWM-SL-X85-UN01-6	C7-CWM-SL-X85-UN02-4	C7-CWM-SL-X117-UN01-4	C7-CWM-SL-X118-UN01-5
			Sample Depth:	FT	3 FT	1 FT	6 FT	4 FT	4 FT	5 FT
			Sample Date:	7/27/2000	8/23/2006	9/7/2006	9/22/2006	9/22/2006	10/10/2006	10/11/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
BORON	10000		MG/KG	9.1 J	66.6 U	12.1 J	230	34.9 U	15.5 J	32.3 U
CADMIUM	45		MG/KG	1	4.1 J	3.1	0.8	33.1 J	1.4 J	1.4 J
CALCIUM			MG/KG	32300	47000 J	42500	13600	215000 J	6730 J	10500 J
CHROMIUM	64		MG/KG	**122**	**275 J**	16.3	21.2	8.5 J	23.9 J	23.9 J
COBALT	1900		MG/KG	4.9 J	21.4 J	7.9	4	138 J	7.5 J	10.5 J
COPPER	4100		MG/KG	31	117 J	33.3	98.5	1610 J	116 J	75.5 J
IRON	10000		MG/KG	**23000**	**186000 J**	**20600**	**333000**	**35700 J**	**80900 J**	**31400 J**
LEAD	800		MG/KG	219 J	161 J	15.7	328	**3650 J**	84.6 J	47.7 J
LITHIUM	2000		MG/KG	9.4 J	20.8 J	18.5	2.1 J	7.4 J	24.1 J	26.1 J
MAGNESIUM			MG/KG	4680 J	8220 J	8590	985	2960 J	4280 J	5790 J
MANGANESE	1900		MG/KG	542 J	1020 J	680	1480	**51400 J**	274 J	452 J
MERCURY	31		MG/KG	0.07 U	0.35 J	0.24	0.087	0.07 J	1.1 J	0.05 J
MOLYBDENUM	510		MG/KG		8 J	0.48 J	2.6 J	3.2 J	1.9 J	8.1 U
NICKEL	2000		MG/KG	12 J	80.2 J	18.3	39.6	191 J	41.1 J	27.2 J
POTASSIUM			MG/KG	569	3330 U	1840	284 J	790 J	3110 J	2470 J
SELENIUM	510		MG/KG	0.82 J	16.6 U	5.1 U	6.8 U	4 J	9.2 U	1.6 J
SILVER	510		MG/KG	0.24 U	0.22 J	0.043 J	0.066 J	0.055 J	0.37 J	0.12 J
SODIUM			MG/KG	191	3330 U	101 J	730 J	932 J	188 J	121 J
THALLIUM	6.7		MG/KG	0.18 U	6.7 U	0.21 J	2.7 U	0.3 J	0.36 J	0.27 J
VANADIUM	100		MG/KG	9.1	46.7 J	23.2	7.1 J	9 J	44.8 J	32.8 J
ZINC	10000		MG/KG	361	843 J	136	76.6	173 J	533 J	225 J
General Chemistry										
CYANIDE	1200		MG/KG	0.098 U	0.60 U	0.16 U	0.26 U	0.37 U	0.35 U	0.35 U
PERCENT MOISTURE			%							
PERCENT SOLIDS			%		21	80	51	42	38	39
TOTAL ORGANIC CARBON			MG/KG	82000 J						

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004

Crit2: New York State TAGM 4046 Soil, 1999

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	WW	WW	WW	WW	WW	WW	WW
			Excavation:	X07	X15	X17	X17	X18	X21	X24
			Sample Name:	C7-CWM-SL-X07-WW01-7	C7-CWM-SL-X15-WW01-3	C7-CWM-SL-X17-WW01-3	C7-CWM-SL-X17-WW02-3	C7-CWM-SL-X18-WW01-5	C7-CWM-SL-X21-WW01-5.5	C7-CWM-SL-X24-WW01-5.5
			Sample Depth:	7 FT	3 FT	3 FT	3 FT	5 FT	5.5 FT	5.5 FT
			Sample Date:	8/22/2006	8/24/2006	8/25/2006	8/25/2006	8/25/2006	8/28/2006	8/29/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	UG/KG	9.1 U	7.0 U	6.0 U	8.5 U	6.3 U	5.4 U	7.5 U
1,1,2,2-TETRACHLOROETHANE	930	35000	UG/KG	9.1 U	7.0 U	6.0 U	8.5 U	6.3 U	5.4 U	7.5 U
1,1,2-TRICHLOROETHANE	1600		UG/KG	9.1 U	7.0 U	6.0 U	8.5 U	6.3 U	5.4 U	7.5 U
1,1-DICHLOROETHANE	170000	800000	UG/KG	9.1 U	7.0 U	6.0 U	8.5 U	6.3 U	5.4 U	7.5 U
1,1-DICHLOROETHYLENE	41000	12000	UG/KG	9.1 U	7.0 U	6.0 U	8.5 U	6.3 U	5.4 U	7.5 U
1,2-DICHLOROBENZENE	60000		UG/KG	9.1 U	7.0 U	6.0 U	8.5 U	6.3 U	5.4 U	7.5 U
1,2-DICHLOROETHANE	600	7700	UG/KG	9.1 U	7.0 U	6.0 U	8.5 U	6.3 U	5.4 U	7.5 U
1,3-DICHLOROBENZENE	60000		UG/KG	9.1 U	7.0 U	6.0 U	8.5 U	6.3 U	5.4 U	7.5 U
1,4-DICHLOROBENZENE	7900		UG/KG	9.1 U	7.0 U	6.0 U	8.5 U	6.3 U	5.4 U	7.5 U
2-BUTANONE	11000000	400000	UG/KG	220	14 U	12 U	17 U	13 U	11 U	21 J
4-METHYL-2-PENTANONE	4700000	400000	UG/KG	18 U	14 U	12 U	17 U	13 U	11 U	15 U
ACETONE	5400000	800000	UG/KG	660 J	14 U	42 J	17 U	10 J	10 J	98 J
BENZENE	1400	24000	UG/KG	2.4 J	7.0 U	6.0 U	8.5 U	3.1 J	5.4 U	7.5 U
CARBON DISULFIDE	72000	800000	UG/KG	26	7.0 U	6.0 U	8.5 U	6.3 U	5.4 U	7.5 U
CHLOROBENZENE	53000	200000	UG/KG	9.1 U	7.0 U	6.0 U	8.5 U	6.3 U	5.4 U	7.5 U
CHLOROFORM	470	80000	UG/KG	1.8 J	7.0 U	1.3 J	1.8 J	1.5 J	5.4 U	7.5 U
CHLOROMETHANE	16000		UG/KG	18 U	14 U	8 J	17 U	13 U	12	15 U
CIS-1,2-DICHLOROETHENE	15000	80000	UG/KG	9.1 U	7.0 U	6.0 U	8.5 U	6.3 U	5.4 U	7.5 U
DICHLORODIFLUOROMETHANE	31000		UG/KG	9.1 U	7.0 U	6.0 U	8.5 U	6.3 U	5.4 U	7.5 U
ETHYLBENZENE	40000	800000	UG/KG	9.1 U	7.0 U	2.2 J	8.5 U	6.3 U	5.4 U	7.5 U
ISOPROPYLBENZENE	200000		UG/KG	9.1 U	7.0 U	6.0 U	8.5 U	6.3 U	5.4 U	7.5 U
M+P-XYLENE	42000	20000000	UG/KG	5.9 J	7.0 U	14 J	1.9 J	2.1 J	5.4 U	7.5 U
METHYLENE CHLORIDE	21000	93000	UG/KG	18 U	14 U	2.2 J	2.7 J	3 J	11 U	15 U
O-XYLENE	42000	20000000	UG/KG	9.1 U	7.0 U	3.4 J	8.5 U	6.3 U	5.4 U	7.5 U
TETRACHLOROETHENE	1300	14000	UG/KG	9.1 U	7.0 U	1.8 J	8.5 U	6.3 U	5.4 U	7.5 U
TOLUENE	52000	2000000	UG/KG	4.8 J	7.0 U	2.2 J	8.5 U	2.8 J	1.3 J	7.5 U
TRANS-1,2-DICHLOROETHENE	23000	200000	UG/KG	9.1 U	7.0 U	6.0 U	8.5 U	6.3 U	5.4 U	7.5 U
TRICHLOROETHYLENE	6500	64000	UG/KG	9.1 U	7.0 U	6.0 U	8.5 U	6.3 U	5.4 U	1.8 J
VINYL CHLORIDE	750	360	UG/KG	18 U	14 U	2.3 J	2.4 J	2.5 J	11 U	15 U
XYLENES (TOTAL)	42000	20000000	UG/KG							7.5 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		UG/KG	4100 U	82 U	90 U	7.4 U	420 U	83 U	8.2 U
1,2-BENZPHENANTHRACENE	210000		UG/KG	**1000000 J**	3000	90 U	510	290 J	1300	2.9 J
1,2-DICHLOROBENZENE	60000		UG/KG							
1,3-DICHLOROBENZENE	60000		UG/KG							
1,4-DICHLOROBENZENE	7900		UG/KG							

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	WW	WW	WW	WW	WW	WW	WW
			Excavation:	X07	X15	X17	X17	X18	X21	X24
			Sample Name:	C7-CWM-SL-X07-WW01-7	C7-CWM-SL-X15-WW01-3	C7-CWM-SL-X17-WW01-3	C7-CWM-SL-X17-WW02-3	C7-CWM-SL-X18-WW01-5	C7-CWM-SL-X21-WW01-5.5	C7-CWM-SL-X24-WW01-5.5
			Sample Depth:	7 FT	3 FT	3 FT	3 FT	5 FT	5.5 FT	5.5 FT
			Sample Date:	8/22/2006	8/24/2006	8/25/2006	8/25/2006	8/25/2006	8/28/2006	8/29/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
1-METHYLNAPHTHALENE			UG/KG							
2,4-DIMETHYLPHENOL	1200000		UG/KG	20000 U	410 U	450 U	37 U	2100 U	420 U	41 U
2-CHLOROPHENOL	24000	40000	UG/KG	20000 U	410 U	450 U	37 U	2100 U	420 U	41 U
2-METHYLNAPHTHALENE	19000		UG/KG	**38000**	82 U	90 U	7.4 U	420 U	25 J	8.2 U
2-METHYLPHENOL	3100000		UG/KG	20000 U	410 U	150 J	37 U	2100 U	420 U	41 U
4-CHLOROANILINE	250000	30000	UG/KG	4100 U	82 U	90 U	7.4 U	420 U	83 U	8.2 U
4-METHYLPHENOL	310000	400000	UG/KG	20000 U	410 U	210 J	37 U	2100 U	83 U	41 U
ACENAPHTHENE	2900000	500000	UG/KG	200000 J	230	90 U	9.2	420 U	140	8.2 U
ACENAPHTHYLENE	2900000		UG/KG	4100 U	250	90 U	9.2	420 U	83 U	8.2 U
ANTHRACENE	10000000	2000000	UG/KG	540000 J	3600	90 U	52	420 U	230	8.2 U
BENZ[A]ANTHRACENE	2100	224	UG/KG	**700000 J**	**26000**	90 U	700	290 J	1400	2.9 J
BENZO[A]PYRENE	210	60.9	UG/KG	**570000**	**3300**	90 U	**510**	**380 J**	**1100**	8.2 U
BENZO[B]FLUORANTHENE	2100	224	UG/KG	**580000 J**	**6100**	90 U	450	320 J	**2100**	8.2 U
BENZO[GHI]PERYLENE	2900000		UG/KG	300000 J	7300	90 U	360	420 J	740	8.2 U
BENZO[K]FLUORANTHENE	21000	224	UG/KG	**630000 J**	5900 J	90 U	430 J	250 J	83 U	8.2 U
BENZYL BUTYL PHTHALATE	10000000	20000000	UG/KG	4100 U	82 U	90 U	7.4 U	420 U	83 U	8.2 U
BIS(2-CHLOROETHOXY)METHANE			UG/KG	4100 U	82 U	90 U	7.4 U	420 U	83 U	8.2 U
BIS(2-CHLOROETHYL) ETHER	580		UG/KG	4100 U	82 U	90 U	7.4 U	420 U	83 U	8.2 U
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	UG/KG	4100 U	82 U	90 U	7.4 U	420 U	83 U	16
CARBAZOLE	86000		UG/KG	**310000**	1900	90 U	24	420 U	200	8.2 U
DIBENZ[A,H]ANTHRACENE	210	14.3	UG/KG	**120000 J**	82 U	90 U	120	420 U	160	8.2 U
DIBENZOFURAN	160000		UG/KG	110000	120	90 U	4.4 J	420 U	46 J	8.2 U
DIETHYL PHTHALATE	10000000	6000000	UG/KG	4100 U	82 U	90 U	7.4 U	420 U	83 U	8.2 U
DI-N-BUTYL PHTHALATE	6200000	800000	UG/KG	4100 U	82 U	90 U	7.4 U	420 U	83 U	4.1 J
FLUORANTHENE	2200000	300000	UG/KG	1500000	41000	210	430	360 J	2500	5.7 J
FLUORENE	2600000	300000	UG/KG	170000	440	90 U	12	420 U	120	8.2 U
HEXACHLORO-1,3-BUTADIENE	18000		UG/KG	4100 U	82 U	90 U	7.4 U	420 U	83 U	8.2 U
HEXACHLOROBENZENE	1100	410	UG/KG	4100 U	90	90 U	7.4 U	420 U	83 U	8.2 U
HEXACHLOROCYCLOPENTADIENE	370000		UG/KG	10000 U	200 U	220 U	18 U	1100 U	210 U	8.2 U
HEXACHLOROETHANE	62000		UG/KG	4100 U	82 U	90 U	7.4 U	420 U	83 U	8.2 U
INDENO[1,2,3-CD]PYRENE	2100		UG/KG	**320000 J**	**6900**	90 U	350	270 J	690	8.2 U
ISOPHORONE	510000	1707000	UG/KG	4100 U	82 U	90 U	7.4 U	420 U	83 U	8.2 U
NAPHTHALENE	19000	30000	UG/KG	**68000**	41 J	90 U	3.7 J	420 U	83 U	8.2 U
PENTACHLOROPHENOL	9000	200000	UG/KG	51000 U	1000 U	1100 U	92 U	5300 U	1000 U	100 U
PHENANTHRENE	19000		UG/KG	**1400000 J**	12000	90 U	160	150 J	1500	2.4 J
PHENOL	10000000	5000000	UG/KG	20000 U	410 U	1100 J	37 U	2100 U	420 U	41 U
PYRENE	2900000	200000	UG/KG	1300000 J	37000	680 J	580	400 J	2400	4.1 J

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	WW	WW	WW	WW	WW	WW	WW
			Excavation:	X07	X15	X17	X17	X18	X21	X24
			Sample Name:	C7-CWM-SL-X07-WW01-7	C7-CWM-SL-X15-WW01-3	C7-CWM-SL-X17-WW01-3	C7-CWM-SL-X17-WW02-3	C7-CWM-SL-X18-WW01-5	C7-CWM-SL-X21-WW01-5.5	C7-CWM-SL-X24-WW01-5.5
			Sample Depth:	7 FT	3 FT	3 FT	3 FT	5 FT	5.5 FT	5.5 FT
			Sample Date:	8/22/2006	8/24/2006	8/25/2006	8/25/2006	8/25/2006	8/28/2006	8/29/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	UG/KG	2.5 U	2.0 U	2.2 U	1.8 U	2.1 U	2.1 U	2.1 U
4,4'-DDE	7000	2100	UG/KG	2.5 U	2.0 U	2.2 U	0.96 J	2.1 U	2.1 J	2.1 U
4,4'-DDT	7000	2100	UG/KG	2.5 U	16 J	2.2 U	3.6 J	2.4 J	7.8 J	2.1 U
ALDRIN	100	41	UG/KG	2.5 U	2.0 U	2.2 U	1.8 U	2.1 U	2.1 U	2.1 U
ALPHA-BHC	360	111	UG/KG	2.5 U	2.0 U	2.2 U	1.8 U	2.1 U	2.1 U	2.1 U
ALPHA-CHLORDANE	6500		UG/KG	2.5 U	2.0 U	2.2 U	1.8 U	2.1 U	2.1 U	2.1 U
AROCLOR 1242	740	1000	UG/KG	25 U	20 U	22 U	18 U	21 U	21 U	20 U
AROCLOR 1254	740	1000	UG/KG	25 U	20 U	22 U	18 U	21 U	21 U	20 U
AROCLOR 1260	740	1000	UG/KG	25 U	20 U	22 U	18 U	21 U	43 J	20 U
BETA-BHC	1300	3890	UG/KG	2.5 U	2.0 U	2.2 U	1.8 U	2.1 U	2.1 U	2.1 U
DELTA-BHC	360		UG/KG	2.5 U	2.0 U	2.2 U	1.8 U	2.1 U	2.1 U	2.1 U
DIELDRIN	110	44	UG/KG	2.5 U	2.0 U	2.2 U	1.8 U	2.1 U	2.1 U	2.1 U
ENDOSULFAN I	370000		UG/KG	2.5 U	2.0 U	2.2 U	1.8 U	2.1 U	2.1 U	2.1 U
ENDOSULFAN II	370000		UG/KG	2.5 U	1.6 J	2.2 U	1.8 U	2.1 U	2.1 U	2.1 U
ENDOSULFAN SULFATE	370000		UG/KG	2.5 U	2.0 U	2.2 U	1.8 U	2.1 U	2.1 U	2.1 U
ENDRIN	18000	20000	UG/KG	2.5 U	2.0 U	2.2 U	1.8 U	2.1 U	2.1 U	2.1 U
ENDRIN ALDEHYDE	18000		UG/KG	2.5 U	28 J	2.2 U	1.8 U	2.1 U	2.1 U	2.1 U
ENDRIN KETONE	18000		UG/KG	2.5 U	2.0 U	2.2 U	1.8 U	2.1 U	7.2 J	2.1 U
GAMMA-BHC	1700	2000	UG/KG	2.5 U	2.0 U	2.2 U	1.8 U	2.1 U	2.1 U	2.1 U
GAMMA-CHLORDANE	6500	500	UG/KG	2.5 U	2.0 U	2.2 U	1.8 U	1.3 J	2.1 U	2.1 U
HEPTACHLOR	380	160	UG/KG	2.5 U	2.0 U	2.2 U	1.8 U	2.1 U	2.1 U	2.1 U
HEPTACHLOR EPOXIDE	190	77	UG/KG	2.5 U	2.5	2.2 U	1.8 U	2.1 U	2.1 U	2.1 U
METHOXYCHLOR	310000	40000	UG/KG	2.5 U	2.0 U	2.2 U	1.8 U	2.1 U	2.1 U	2.1 U
Explosives (8330)										
2,6-DINITROTOLUENE	2500		UG/KG	99 U	99 U	100 U	100 U	100 U	100 U	100 U
2-AMINO-4,6-DINITROTOLUENE	12000		UG/KG	99 U	99 U	100 U	100 U	100 U	100 U	100 U
4-AMINO-2,6-DINITROTOLUENE	12000		UG/KG	99 U	99 U	100 U	100 U	100 U	100 J	100 U
HMX	3100000		UG/KG	200 U	200 U	200 U	200 U	200 U	200 U	200 U
NITROBENZENE	10000	4000	UG/KG	99 U	99 U	100 U	100 U	39 J	100 U	100 U
RDX	16000		UG/KG	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		MG/KG	2520	2160	4360	1920	1770	1720 J	6120
ANTIMONY	41		MG/KG	0.34 J	10.3 J	3.7 J	17.6 J	4.4 J	7.5	.98 U
ARSENIC	1.6		MG/KG	**10.1**	**140**	**21.7**	**147**	**59.3**	**106**	**3.7 J**
BARIUM	6700		MG/KG	60.6 J	162 J	69.2	106	218	90.4	72.7
BERYLLIUM	190		MG/KG	0.27	0.12 J	0.29	0.11 J	0.17 J	0.12 J	0.29

TABLE 5-5 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	WW	WW	WW	WW	WW	WW	WW
			Excavation:	X07	X15	X17	X17	X18	X21	X24
			Sample Name:	C7-CWM-SL-X07-WW01-7	C7-CWM-SL-X15-WW01-3	C7-CWM-SL-X17-WW01-3	C7-CWM-SL-X17-WW02-3	C7-CWM-SL-X18-WW01-5	C7-CWM-SL-X21-WW01-5.5	C7-CWM-SL-X24-WW01-5.5
			Sample Depth:	7 FT	3 FT	3 FT	3 FT	5 FT	5.5 FT	5.5 FT
			Sample Date:	8/22/2006	8/24/2006	8/25/2006	8/25/2006	8/25/2006	8/28/2006	8/29/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
BORON	10000		MG/KG	22.1 U	18.1 U	27.8	22	19.2	21.4	2.2 J
CADMIUM	45		MG/KG	6.5	0.97	2.5	1.3	8.3	5.1	.49 U
CALCIUM			MG/KG	128000	35800	4120	64600	125000	57200	38800
CHROMIUM	64		MG/KG	14.4	**317**	62.9	**153**	**110**	**141**	8.6
COBALT	1900		MG/KG	3.7	44.1	31.6	32.6	18.5	26.8	5.8
COPPER	4100		MG/KG	25.1	781	177 J	751 J	295 J	513	21.2
IRON	10000		MG/KG	**17600**	**420000**	**444000**	**404000**	**268000**	**451000**	**15000**
LEAD	800		MG/KG	141	375	117	29.1	68	116 J	3.7
LITHIUM	2000		MG/KG	4.9	3.5	6.8	4.4	3.5	2.7	10.7
MAGNESIUM			MG/KG	74800	2580	2170	3520	2620	1800	7490
MANGANESE	1900		MG/KG	1830	**3270**	**3340**	**2160**	**5480**	**2310**	682
MERCURY	31		MG/KG	0.1	0.1	0.061	0.13	1.5	0.95 J	0.027 J
MOLYBDENUM	510		MG/KG	1.2 J	25.8	21.9	21.4	21.6	22.3	0.48 J
NICKEL	2000		MG/KG	18.4	207	88.5 J	151 J	150 J	134 J	10.8
POTASSIUM			MG/KG	732 J	906 U	1240 J	849 U	902 U	381 J	952 J
SELENIUM	510		MG/KG	1.2 J	1.1 J	1.4 J	0.91 J	1.7 J	4 U	4.9 U
SILVER	510		MG/KG	0.27 J	0.29	.25 U	0.6	.27 U	0.26	0.035 J
SODIUM			MG/KG	196 J	906 U	5270	4610	902 U	111 J	363 J
THALLIUM	6.7		MG/KG	2.2 U	1.8 U	1.7 U	1.7 U	1.8 U	1.6 U	2 U
VANADIUM	100		MG/KG	17.1	90.6	76.9	**118**	**135**	**105 J**	14.1
ZINC	10000		MG/KG	808 J	9.1 U	359 J	8.5 U	1020 J	627 J	30.6
General Chemistry										
CYANIDE	1200		MG/KG	0.20 U	0.17	0.18 U	0.16 U	0.17 U	0.17 U	0.18 U
PERCENT MOISTURE			%							
PERCENT SOLIDS			%	66	82	74	91	79	80	81
TOTAL ORGANIC CARBON			MG/KG							

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004

Crit2: New York State TAGM 4046 Soil, 1999

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-6 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	DW	SN	UN	UN	UN	UN	UN
			Excavation:	X00	X28	X04	X07	X18	X19	X19
			Sample Name:	C7-SOM-SL-XOO-DW16-3	C7-SOM-SL-X28-SN01-10	C7-SOM-SL-X04-UN06-3	C7-SOM-SL-X07-UN01-7	C7-SOM-SL-X18-UN01-3	C7-SOM-SL-X19-UN01-6	C7-SOM-SL-DUP1
			Sample Depth:	3 FT	10 FT	3 FT	7 FT	3 FT	6 FT	6 FT
			Sample Date:	7/13/2006	7/21/2006	7/11/2006	7/12/2006	7/18/2006	7/18/2006	7/18/2006
			Parent Name:							C7-SOM-SL-X19-UN01-6
Analyte	**Crit1**	**Crit2**	**Unit**							
Volatile Organic Compounds (8260B)										
1,2-DICHLOROBENZENE	60000		UG/KG	6.7 U	21 U	8.1 U	1900 J			
1,4-DICHLOROBENZENE	3400		UG/KG	6.7 U	21 U	8.1 U	**19000 J**			
ACETONE	1400000	800000	UG/KG	13 U	210 J	16 U	2800 J			
CARBON DISULFIDE	36000	800000	UG/KG	6.7 U	53 J	8.1 U	3200 J			
CHLOROBENZENE	15000	200000	UG/KG	6.7 U	21 U	8.1 U	120 J			
CIS-1,2-DICHLOROETHENE	4300	80000	UG/KG	6.7 U	31 J	8.1 U	93 U			
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	6200		UG/KG	24 U	17 U	20 U	32 J	8.4 U	9.8 U	9.6 U
1,2-BENZPHENANTHRACENE	62000		UG/KG	49000 J	150 J	750	1000 J	3.8 J	10	13
1,2-DICHLOROBENZENE	60000		UG/KG					8.4 U	9.8 U	9.6 U
1,4-DICHLOROBENZENE	3400		UG/KG					8.4 U	9.8 U	9.6 U
2,4-DIMETHYLPHENOL	120000		UG/KG	73	85 U	41 U	290 U	42 U	49 U	48 U
2-METHYLNAPHTHALENE	5600		UG/KG	2500 J	17 U	4.9	46 J	8.4 U	3.4 J	9.6 U
2-METHYLPHENOL	310000		UG/KG	60	85 U	41 U	290 U	42 U	49 U	48 U
2-NITROANILINE	18000		UG/KG	16 J	17 U	20 U	150 U	8.4 U	9.8 U	9.6 U
4-CHLOROANILINE	24000	30000	UG/KG	1800 J	17 U	20 U	58 U	8.4 U	9.8 U	9.6 U
4-METHYLPHENOL	31000	400000	UG/KG	190	85 U	41 U	290 U	8.4 U	9.8 U	9.6 U
ACENAPHTHENE	370000	500000	UG/KG	8100 J	20 J	15	130 J	8.4 U	9.8 U	9.6 U
ACENAPHTHYLENE	370000		UG/KG	100 J	17 U	28	58 U	8.4 U	9.8 U	9.6 U
ANTHRACENE	2200000	2000000	UG/KG	23000 J	30 J	110	610 J	8.4 U	9.8 U	6.3 J
BENZ[A]ANTHRACENE	620	224	UG/KG	**46000 J**	98 J	**770**	**1100 J**	5 J	16	15
BENZO[A]PYRENE	62	60.9	UG/KG	**34000 J**	**120 J**	**600**	**840 J**	4.6 J	9.8 U	19
BENZO[B]FLUORANTHENE	620	224	UG/KG	**52000 J**	230 J	**880**	**1400 J**	8.4 U	9.8 U	26 J
BENZO[GHI]PERYLENE	230000		UG/KG	24000 J	91 J	310 J	330 J	8.4 U	8.8 J	7.2 J
BENZO[K]FLUORANTHENE	6200	224	UG/KG	**16000 J**	70 J	290	480 J	8.4 U	9.8 U	7.2 J
CARBAZOLE	24000		UG/KG	18000 J	34 J	46	250 J	8.4 U	9.8 U	9.6 U
DIBENZ[A,H]ANTHRACENE	62	14.3	UG/KG	**7700 J**	23 J	**84 J**	58 U	8.4 U	9.8 U	9.6 U
DIBENZOFURAN	15000		UG/KG	6300 J	11 J	6.5 J	200 J	8.4 U	9.8 U	9.6 U
DI-N-BUTYL PHTHALATE	610000	800000	UG/KG	24 U	12 J	69 J	58 U	8.4 U	9.8 U	9.6 U
DI-N-OCTYL PHTHALATE	240000	200000	UG/KG	11 J	17 U	20 U	58 U	8.4 U	9.8 U	9.6 U
FLUORANTHENE	230000	300000	UG/KG	90000 J	280 J	780	2900 J	5.9 J	22	28
FLUORENE	270000	300000	UG/KG	9800 J	14 J	19	510 J	8.4 U	9.8 U	9.6 U
INDENO[1,2,3-CD]PYRENE	620		UG/KG	**22000 J**	85 J	290 J	330 J	8.4 U	8.8 J	9.6 U
ISOPHORONE	510000	1707000	UG/KG	24 U	17 U	20 U	180 J	8.4 U	9.8 U	9.6 U

TABLE 5-6 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	DW	SN	UN	UN	UN	UN	UN
			Excavation:	X00	X28	X04	X07	X18	X19	X19
			Sample Name:	C7-SOM-SL-XOO-DW16-3	C7-SOM-SL-X28-SN01-10	C7-SOM-SL-X04-UN06-3	C7-SOM-SL-X07-UN01-7	C7-SOM-SL-X18-UN01-3	C7-SOM-SL-X19-UN01-6	C7-SOM-SL-DUP1
			Sample Depth:	3 FT	10 FT	3 FT	7 FT	3 FT	6 FT	6 FT
			Sample Date:	7/13/2006	7/21/2006	7/11/2006	7/12/2006	7/18/2006	7/18/2006	7/18/2006
			Parent Name:							C7-SOM-SL-X19-UN01-6
Analyte	**Crit1**	**Crit2**	**Unit**							
NAPHTHALENE	5600	30000	UG/KG	4200 J	17 U	6.5	52 J	8.4 U	9.8 U	9.6 U
PENTACHLOROPHENOL	3000	200000	UG/KG	95 J	85 U	41 U	290 U	42 U	49 U	48 U
PHENANTHRENE	5600		UG/KG	**76000 J**	150	370	2400 J	5 J	13	22
PHENOL	1800000	5000000	UG/KG	71	85 U	41 U	290 U	42 U	49 U	48 U
PYRENE	230000	200000	UG/KG	88000 J	230	810	2500 J	4.6 J	16	23
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	2400	2900	UG/KG	12 U	4.3 U	2.0 U	160 J	2.1 U	1.3 J	1.1 J
4,4'-DDE	1700	2100	UG/KG	12 U	5.3 J	2 J	120 J	2.1 U	0.64 J	2.4 U
4,4'-DDT	1700	2100	UG/KG	94 J	7.7 J	2.0 U	15 U	0.93 J	2.5 U	0.39 J
AROCLOR 1254	110	1000	UG/KG	**1900 J**	43 U	39	150 U	21 U	25 U	24 U
ENDRIN	1800	20000	UG/KG	130 J	4.3 U	2.5 J	20 J	2.1 U	2.5 U	2.4 U
ENDRIN ALDEHYDE	1800		UG/KG	110 J	4.3 U	2.0 U	15 U	2.1 U	2.5 U	2.4 U
ENDRIN KETONE	1800		UG/KG	120 J	4.3 U	2.0 U	15 U	2.1 U	2.5 U	2.4 U
GAMMA-CHLORDANE	1600	500	UG/KG	52 J	4.3 U	2.0 U	15 U	2.1 U	2.5 U	2.4 U
Explosives (8330)										
NITROBENZENE	2000	4000	UG/KG	99 U	100 U	99 U	99 U	48 J	26 J	31 J
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	7600		MG/KG	**13800**	**7820 J**	**13500**	**10200 J**	**13400**	**14600**	**13200**
ANTIMONY	3.1		MG/KG	1.1 U	1.9 U	**8.8 J**	**22.9 J**	.96 U	1.1 U	1.1 U
ARSENIC	0.39		MG/KG	**5.2 J**	**8.2 J**	**8.5**	**16.7 J**	**3.2 J**	**3.7 J**	**3.4 J**
BARIUM	540		MG/KG	115	70.2 J	186 J	444 J	133 J	115 J	109 J
BERYLLIUM	15		MG/KG	0.62	0.35 J	0.68	2.2 J	0.5	0.62	0.69
BORON	1600		MG/KG	21 U	37.6 U	17.8 U	122 U	19.1 U	21.7 U	22.3 U
CADMIUM	3.7		MG/KG	1.1	1.2 J	1.2	**14.6 J**	0.14 J	0.26 J	0.29 J
CALCIUM			MG/KG	22000	14200 J	10200	32100 J	71800	24100	24000
CHROMIUM	22		MG/KG	19.2	**35.6 J**	**388**	**396 J**	**114**	**143**	**138**
COBALT	140		MG/KG	8.9	7.4 J	11.5	6.6 J	7	9.5	8.5
COPPER	310		MG/KG	40.7	38.6 J	63	**357 J**	20.4	27.7	25.2
IRON	2300		MG/KG	**25500**	**23400 J**	**27400**	**18700 J**	**19400**	**21300**	**20100**
LEAD	400		MG/KG	44.5	28.4 J	126	354 J	10	13.1	14.5
LITHIUM	160		MG/KG	20.3	18.5 J	20.6	11.9 J	24.5	26.9	23.2
MAGNESIUM			MG/KG	7910 J	4180 J	5800	7720 J	4710	6390	6000
MANGANESE	180		MG/KG	**700**	**612 J**	**1750**	**489 J**	**536**	**847**	**736**
MERCURY	2.3		MG/KG	0.04	0.097	0.32	**7.6 J**	0.032 J	0.064	0.04
MOLYBDENUM	39		MG/KG	0.59 J	3.2 J	4.4 U	30.4 U	4.8 U	5.4 U	5.6 U

TABLE 5-6 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	DW	SN	UN	UN	UN	UN	UN
			Excavation:	X00	X28	X04	X07	X18	X19	X19
			Sample Name:	C7-SOM-SL-XOO-DW16-3	C7-SOM-SL-X28-SN01-10	C7-SOM-SL-X04-UN06-3	C7-SOM-SL-X07-UN01-7	C7-SOM-SL-X18-UN01-3	C7-SOM-SL-X19-UN01-6	C7-SOM-SL-DUP1
			Sample Depth:	3 FT	10 FT	3 FT	7 FT	3 FT	6 FT	6 FT
			Sample Date:	7/13/2006	7/21/2006	7/11/2006	7/12/2006	7/18/2006	7/18/2006	7/18/2006
			Parent Name:							C7-SOM-SL-X19-UN01-6
Analyte	**Crit1**	**Crit2**	**Unit**							
NICKEL	160		MG/KG	21.2	13.6 J	23.6	54.5 J	15.2	19.3	17.1
POTASSIUM			MG/KG	1620 J	1880 U	1300 J	6090 U	1280 J	1590 J	1370 J
SELENIUM	39		MG/KG	1 J	9.4 U	1.3 J	30.4 U	1.7 J	1.9 J	1.4 J
SILVER	39		MG/KG	0.11 J	0.14 J	0.2 J	38.8 J	0.042 J	0.054 J	0.047 J
SODIUM			MG/KG	1050 U	1880 U	890 U	6090 U	957 U	1080 U	1110 U
VANADIUM	7.8		MG/KG	**28.6 J**	**21.9 J**	**28.8 J**	**19 J**	**25 J**	**30.2 J**	**26.8 J**
ZINC	2300		MG/KG	255 J	632 J	344 J	**9230 J**	44.3 J	59.7 J	54.4 J
General Chemistry										
PERCENT SOLIDS			%	70	39	82	11	79	68	69

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-6 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	UN	WW	WW
			Excavation:	X22	X12	X28
			Sample Name:	C7-SOM-SL-X22-UN01-2.5	C7-SOM-SL-X12-WW01-7	C7-SOM-SL-X28-WW01-4.5
			Sample Depth:	2.5 FT	7 FT	4.5 FT
			Sample Date:	7/19/2006	7/13/2006	7/21/2006
			Parent Name:			
Analyte	**Crit1**	**Crit2**	**Unit**			
Volatile Organic Compounds (8260B)						
1,2-DICHLOROBENZENE	60000		UG/KG	5.8 U	28 U	50 U
1,4-DICHLOROBENZENE	3400		UG/KG	5.8 U	28 U	50 U
ACETONE	1400000	800000	UG/KG	12 U	28 J	100 U
CARBON DISULFIDE	36000	800000	UG/KG	5.8 U	28 U	50 U
CHLOROBENZENE	15000	200000	UG/KG	5.8 U	28 U	50 U
CIS-1,2-DICHLOROETHENE	4300	80000	UG/KG	5.8 U	28 U	50 U
Semi-Volatile Organic Compounds (8151/8270C/8310)						
1,2,4-TRICHLOROBENZENE	6200		UG/KG	7.8 U	54 U	30 U
1,2-BENZPHENANTHRACENE	62000		UG/KG	7.8 U	450 J	80
1,2-DICHLOROBENZENE	60000		UG/KG			
1,4-DICHLOROBENZENE	3400		UG/KG			
2,4-DIMETHYLPHENOL	120000		UG/KG	39 U	54 U	150 U
2-METHYLNAPHTHALENE	5600		UG/KG	7.8 U	11 U	30 U
2-METHYLPHENOL	310000		UG/KG	39 U	54 U	150 U
2-NITROANILINE	18000		UG/KG	7.8 U	54 U	30 U
4-CHLOROANILINE	24000	30000	UG/KG	7.8 U	54 U	30 U
4-METHYLPHENOL	31000	400000	UG/KG	39 U	71 J	150 U
ACENAPHTHENE	370000	500000	UG/KG	7.8 U	39 J	19 J
ACENAPHTHYLENE	370000		UG/KG	7.8 U	11 U	30 U
ANTHRACENE	2200000	2000000	UG/KG	7.8 U	200 J	39 J
BENZ[A]ANTHRACENE	620	224	UG/KG	7.8 U	540 J	110 J
BENZO[A]PYRENE	62	60.9	UG/KG	7.8 U	**390 J**	**78 J**
BENZO[B]FLUORANTHENE	620	224	UG/KG	7.8 U	490 J	110 J
BENZO[GHI]PERYLENE	230000		UG/KG	7.8 U	370 J	48 J
BENZO[K]FLUORANTHENE	6200	224	UG/KG	7.8 U	140 J	43 J
CARBAZOLE	24000		UG/KG	7.8 U	88 J	22 J
DIBENZ[A,H]ANTHRACENE	62	14.3	UG/KG	7.8 U	**120 J**	30 U
DIBENZOFURAN	15000		UG/KG	7.8 U	21 J	30 U
DI-N-BUTYL PHTHALATE	610000	800000	UG/KG	7.8 U	54 U	18 J
DI-N-OCTYL PHTHALATE	240000	200000	UG/KG	7.8 U	54 U	30 U
FLUORANTHENE	230000	300000	UG/KG	7.8 U	1200 J	270 J
FLUORENE	270000	300000	UG/KG	7.8 U	51 J	13 J
INDENO[1,2,3-CD]PYRENE	620		UG/KG	7.8 U	350 J	45 J
ISOPHORONE	510000	1707000	UG/KG	7.8 U	54 U	30 U

TABLE 5-6 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	UN	WW	WW
			Excavation:	X22	X12	X28
			Sample Name:	C7-SOM-SL-X22-UN01-2.5	C7-SOM-SL-X12-WW01-7	C7-SOM-SL-X28-WW01-4.5
			Sample Depth:	2.5 FT	7 FT	4.5 FT
			Sample Date:	7/19/2006	7/13/2006	7/21/2006
			Parent Name:			
Analyte	**Crit1**	**Crit2**	**Unit**			
NAPHTHALENE	5600	30000	UG/KG	7.8 U	11 U	30 U
PENTACHLOROPHENOL	3000	200000	UG/KG	39 U	270 U	150 U
PHENANTHRENE	5600		UG/KG	7.8 U	620 J	150 J
PHENOL	1800000	5000000	UG/KG	39 U	54 U	150 U
PYRENE	230000	200000	UG/KG	7.8 U	1200 J	150 J
Pesticides (8081)/Polychlorinated Biphenyls(8082)						
4,4'-DDD	2400	2900	UG/KG	1.9 U	5.4 U	7.5 U
4,4'-DDE	1700	2100	UG/KG	1.9 U	5.4 U	7.5 U
4,4'-DDT	1700	2100	UG/KG	1.9 U	5.4 U	3 J
AROCLOR 1254	110	1000	UG/KG	19 U	54 U	75 U
ENDRIN	1800	20000	UG/KG	1.9 U	5.4 U	7.5 U
ENDRIN ALDEHYDE	1800		UG/KG	1.9 U	5.4 U	7.5 U
ENDRIN KETONE	1800		UG/KG	1.9 U	5.4 U	7.5 U
GAMMA-CHLORDANE	1600	500	UG/KG	1.9 U	5.4 U	7.5 U
Explosives (8330)						
NITROBENZENE	2000	4000	UG/KG	35 J	100 U	100 U
Metals (6010B/6020/7841/7470A/7471A)						
ALUMINUM	7600		MG/KG	**13400**	4040	4420 J
ANTIMONY	3.1		MG/KG	.94 U	2.4 U	1.2 J
ARSENIC	0.39		MG/KG	**3 J**	**2.8 J**	**52.4 J**
BARIUM	540		MG/KG	117	88.8 J	**2050 J**
BERYLLIUM	15		MG/KG	0.55	0.15 J	0.37 J
BORON	1600		MG/KG	3.7 J	48 U	64.3 U
CADMIUM	3.7		MG/KG	0.25 J	**4.9 J**	2.5 J
CALCIUM			MG/KG	9250	36800 J	51800 J
CHROMIUM	22		MG/KG	**46.2**	**23.1 J**	18.5 J
COBALT	140		MG/KG	7.5	5.9 J	38.1 J
COPPER	310		MG/KG	19	85.7 J	23.6 J
IRON	2300		MG/KG	**19300**	**15200 J**	**87900 J**
LEAD	400		MG/KG	8.2	35.3 J	7.4 J
LITHIUM	160		MG/KG	25.8	6.4 J	8.9 J
MAGNESIUM			MG/KG	3180	3230 J	5790 J
MANGANESE	180		MG/KG	**628**	**524 J**	**154000 J**
MERCURY	2.3		MG/KG	0.037	0.25	0.076 J
MOLYBDENUM	39		MG/KG	1.3 J	1.3 J	23.6 J

TABLE 5-6 SUMMARY OF REPORTED CONCENTRATIONS IN SLUDGE, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	UN	WW	WW
			Excavation:	X22	X12	X28
			Sample Name:	C7-SOM-SL-X22-UN01-2.5	C7-SOM-SL-X12-WW01-7	C7-SOM-SL-X28-WW01-4.5
			Sample Depth:	2.5 FT	7 FT	4.5 FT
			Sample Date:	7/19/2006	7/13/2006	7/21/2006
			Parent Name:			
Analyte	**Crit1**	**Crit2**	**Unit**			
NICKEL	160		MG/KG	14.6 J	11.3 J	56 J
POTASSIUM			MG/KG	1310 J	2400 U	3220 U
SELENIUM	39		MG/KG	0.95 J	3.8 J	16.1 U
SILVER	39		MG/KG	0.061 J	0.15 J	.97 U
SODIUM			MG/KG	80.2 J	2400 U	3220 U
VANADIUM	7.8		MG/KG	**27.5**	**8.9 J**	**30.9 J**
ZINC	2300		MG/KG	55 J	364 J	477 J
General Chemistry						
PERCENT SOLIDS			%		31	22

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-7 SUMMARY OF REPORTED CONCEN. .TIONS IN WASTEWATER, 30-INCH OUTFALL LINE, VARIOUS PROPERTY OWNERS, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	30IN	30IN	30IN
			Excavation:	X12	X13	X14
			Sample Name:	C7-OCC-WW-X12-SN01-5	C7-OCC-WW-X13-SN01-5	C7-OCC-WW-X14-SN01-5
			Sample Depth:	5 FT	5 FT	5 FT
			Sample Date:	8/10/2006	8/10/2006	8/10/2006
			Parent Name:			
Analyte	**Crit1**	**Crit2**	**Unit**			
Semi-Volatile Organic Compounds (8151/8270C/8310)						
ISOPHORONE	71	50	UG/L	0.24 U	0.22 U	0.25
Pesticides (8081)/Polychlorinated Biphenyls(8082)						
ALDRIN	0.004	5	UG/L	0.058 U	0.058 U	**0.034 J**
GAMMA-CHLORDANE	0.19		UG/L	0.058 U	0.058 U	0.028 NJ
Metals (6010B/6020/7841/7470A/7471A)						
ALUMINUM	3600	100	UG/L	**3590**	**16700**	**1580**
ANTIMONY	1.5	3	UG/L	1 U	0.27 J	1 U
ARSENIC	0.045		UG/L	**2 J**	**3.9 J**	5 U
BARIUM	260	1000	UG/L	90.6	188	131
BERYLLIUM	7.3	3	UG/L	0.13 J	0.6	0.052 J
BORON	730	10000	UG/L	75.9	68.5	83.6
CADMIUM	1.8	5	UG/L	.5 U	0.22 J	.5 U
CALCIUM			UG/L	75300	148000	166000
CHROMIUM	11		UG/L	4.7	**18.6**	2.3
COBALT	73	5	UG/L	2.8	**7.2**	**5.5**
COPPER	150	200	UG/L	10	29.5	6.4
IRON	1100	300	UG/L	**9740**	**25500**	**5910**
LEAD	15		UG/L	3.2	14.1	1.7 J
LITHIUM	73		UG/L	9.1	33.5	9.5
MAGNESIUM		35000	UG/L	12300	24700	34000
MANGANESE	88	300	UG/L	**422**	**617**	**3010**
MOLYBDENUM	18		UG/L	0.88 J	1.4 J	0.77 J
NICKEL	73		UG/L	7.3	20.2	7.1
POTASSIUM			UG/L	2800	6240	4380
SELENIUM	18		UG/L	5 U	1.1 J	5 U
SILVER	18	0.1	UG/L	0.037 J	0.066 J	.3 U
SODIUM			UG/L	3070	5610	6010
VANADIUM	3.6	14	UG/L	**8.1 J**	**28.3**	**4.3 J**
ZINC	1100		UG/L	20.1	67	21.6

Crit1: U.S. EPA Region 9 PRG Tap Water, 2004

Crit2: New York State TOG Surface Water, 1998

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-8 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, TOWN OF LEWISTON PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	AW	AW	AW	DW	SN	SN	SN
			Excavation:		X09	X11	X00		X01	X02
			Sample Name:	C7-LEW-WW-AC1	C7-LEW-WW-X09-AW01-18	C7-LEW-WW-X11-AW01-4	C7-LEW-WW-X00-DW01-4	C7-LEW-WW-SS1	C7-LEW-WW-X01-SN01-14	C7-LEW-WW-X02-SN01-9
			Sample Depth:		18 FT	4 FT	4 FT		14 FT	9 FT
			Sample Date:	7/22/1998	8/18/2006	8/17/2006	8/16/2006	7/22/1998	8/15/2006	8/15/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
Volatile Organic Compounds (8260B)										
ACETONE	550	50	UG/L		5.0 U	5.0 U	3.3 J		5.0 U	5.0 U
CIS-1,2-DICHLOROETHENE	6.1	5	UG/L		0.67 J	1.0 U	1.0 U		1.0 U	1.0 U
TRICHLOROETHYLENE	1.4	40	UG/L		0.44 J	1.0 U	1.0 U		1.0 U	1.0 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2-BENZPHENANTHRACENE	9.2	0.002	UG/L		**0.078 J**	0.23 U	0.22 U		0.22 U	0.21 U
BENZ[A]ANTHRACENE	0.092	0.03	UG/L		**0.089 J**	0.23 U	0.22 U		0.22 U	0.21 U
BENZO[B]FLUORANTHENE	0.092	0.002	UG/L		**0.089 J**	**0.091 J**	0.22 U		0.22 U	0.21 U
BENZO[GHI]PERYLENE	18		UG/L		0.078 J	0.23 U	0.22 U		0.22 U	0.21 U
BIS(2-ETHYLHEXYL) PHTHALATE	4.8	0.6	UG/L		**1.4**	**2.2**	**1.4**		**0.79**	**0.98**
DIBENZ[A,H]ANTHRACENE	0.0092		UG/L		**0.056 J**	0.23 U	0.22 U		0.22 U	0.21 U
DIETHYL PHTHALATE	2900	50	UG/L		0.18 J	0.23 U	0.28		0.22 U	0.21 U
DI-N-BUTYL PHTHALATE	360	50	UG/L		0.42 J	0.15 J	0.29 J		0.12 J	0.33
FLUORANTHENE	150	50	UG/L		0.11 J	0.08 J	0.22 U		0.18 J	0.21 U
INDENO[1,2,3-CD]PYRENE	0.092	0.002	UG/L		**0.067 J**	0.23 U	0.22 U		0.22 U	0.21 U
PYRENE	18	4.6	UG/L		0.1 J	0.1 J	0.22 U		0.22 U	0.21 U
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
HEPTACHLOR EPOXIDE	0.0074	0.0003	UG/L		0.060 U	0.053 U	**0.25 J**		**0.22**	**0.078 J**
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	3600	100	UG/L		**12600**	**13500**	**1350**		**9000**	**2740**
ANTIMONY	1.5	3	UG/L		0.54 J	0.74 J	0.26 J		1 U	1 U
ARSENIC	0.045		UG/L		**21.1**	**6.1**	**2.3 J**		**3.9 J**	**1.8 J**
BARIUM	260	1000	UG/L		187	**765**	121		154	98
BERYLLIUM	7.3	3	UG/L		0.55	0.64	0.056 J		0.35	0.094 J
BORON	730	10000	UG/L	150	189	159	259	**1010**	282	503
CADMIUM	1.8	5	UG/L		0.7	**2.6**	0.26 J		.5 U	0.17 J
CALCIUM			UG/L		214000	147000	105000		145000	106000
CHROMIUM	11		UG/L		**67.6**	**91.4**	8.2		**12**	3.7
COBALT	73	5	UG/L		**17**	**8.5**	1.6		**5.4**	2.1
COPPER	150	200	UG/L		66	**195**	22.9 J		17.8	14.5 J
IRON	1100	300	UG/L		**25000**	**47400**	**5460**		**16600**	**5090 J**
LEAD	15		UG/L		**38.8**	**92.7**	9.5		5	3.1 J
LITHIUM	73		UG/L	4.8 J	49.6	24.4	7.3 J	6.3 J	34.5	10
MAGNESIUM		35000	UG/L		**137000**	32600	20200		**78000**	24300
MANGANESE	88	300	UG/L		**1790**	**2030**	**519**		**743**	**550**

TABLE 5-8 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, TOWN OF LEWISTON PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	AW	AW	AW	DW	SN	SN	SN
			Excavation:		X09	X11	X00		X01	X02
			Sample Name:	C7-LEW-WW-AC1	C7-LEW-WW-X09-AW01-18	C7-LEW-WW-X11-AW01-4	C7-LEW-WW-X00-DW01-4	C7-LEW-WW-SS1	C7-LEW-WW-X01-SN01-14	C7-LEW-WW-X02-SN01-9
			Sample Depth:		18 FT	4 FT	4 FT		14 FT	9 FT
			Sample Date:	7/22/1998	8/18/2006	8/17/2006	8/16/2006	7/22/1998	8/15/2006	8/15/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
MERCURY	1.1		UG/L		.2 U	.2 U	.2 U		0.072 J	.2 U
MOLYBDENUM	18		UG/L		**26.7**	5 U	5 U		0.82 J	1.7 J
NICKEL	73		UG/L		51.3	39.7	6.6		12.2	5
POTASSIUM			UG/L		8870	9660	8700		7080	4940
SELENIUM	18		UG/L		5 U	5 U	0.86 J		0.78 J	5 U
SILVER	18	0.1	UG/L		**0.11 J**	**8.1**	**0.57**		0.057 J	0.034 J
SODIUM			UG/L		54600	7420	7220		24900	7150
VANADIUM	3.6	14	UG/L		**26.2**	**41.8**	**6.1 J**		**20.7**	**7.7 J**
ZINC	1100		UG/L		80.4	374	51.9		34.5	33.1

Crit1: U.S. EPA Region 9 PRG Tap Water, 2004
Crit2: New York State TOG Surface Water, 1998
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-8 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, TOWN OF LEWISTON PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN
			Excavation:	X02
			Sample Name:	C7-LEW-WW-DUP3
			Sample Depth:	9 FT
			Sample Date:	8/15/2006
			Parent Name:	C7-LEW-WW-X02-SN01-9
Analyte	**Crit1**	**Crit2**	**Unit**	
Volatile Organic Compounds (8260B)				
ACETONE	550	50	UG/L	5.0 U
CIS-1,2-DICHLOROETHENE	6.1	5	UG/L	1.0 U
TRICHLOROETHYLENE	1.4	40	UG/L	1.0 U
Semi-Volatile Organic Compounds (8151/8270C/8310)				
1,2-BENZPHENANTHRACENE	9.2	0.002	UG/L	0.22 U
BENZ[A]ANTHRACENE	0.092	0.03	UG/L	0.22 U
BENZO[B]FLUORANTHENE	0.092	0.002	UG/L	0.22 U
BENZO[GHI]PERYLENE	18		UG/L	0.22 U
BIS(2-ETHYLHEXYL) PHTHALATE	4.8	0.6	UG/L	**1.6**
DIBENZ[A,H]ANTHRACENE	0.0092		UG/L	0.22 U
DIETHYL PHTHALATE	2900	50	UG/L	0.12 J
DI-N-BUTYL PHTHALATE	360	50	UG/L	0.24 J
FLUORANTHENE	150	50	UG/L	0.22 U
INDENO[1,2,3-CD]PYRENE	0.092	0.002	UG/L	0.22 U
PYRENE	18	4.6	UG/L	0.22 U
Pesticides (8081)/Polychlorinated Biphenyls(8082)				
HEPTACHLOR EPOXIDE	0.0074	0.0003	UG/L	**0.18 J**
Metals (6010B/6020/7841/7470A/7471A)				
ALUMINUM	3600	100	UG/L	**2320**
ANTIMONY	1.5	3	UG/L	0.18 J
ARSENIC	0.045		UG/L	**1.8 J**
BARIUM	260	1000	UG/L	95.5
BERYLLIUM	7.3	3	UG/L	0.1 J
BORON	730	10000	UG/L	507
CADMIUM	1.8	5	UG/L	.5 U
CALCIUM			UG/L	110000
CHROMIUM	11		UG/L	3.2
COBALT	73	5	UG/L	1.8
COPPER	150	200	UG/L	11.2 J
IRON	1100	300	UG/L	**4100 J**
LEAD	15		UG/L	2.2 J
LITHIUM	73		UG/L	9.3
MAGNESIUM		35000	UG/L	24500
MANGANESE	88	300	UG/L	**580**

TABLE 5-8 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, TOWN OF LEWISTON PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN
			Excavation:	X02
			Sample Name:	C7-LEW-WW-DUP3
			Sample Depth:	9 FT
			Sample Date:	8/15/2006
			Parent Name:	C7-LEW-WW-X02-SN01-9
Analyte	**Crit1**	**Crit2**	**Unit**	
MERCURY	1.1		UG/L	0.053 J
MOLYBDENUM	18		UG/L	1.5 J
NICKEL	73		UG/L	4.4
POTASSIUM			UG/L	4930
SELENIUM	18		UG/L	5 U
SILVER	18	0.1	UG/L	.3 U
SODIUM			UG/L	7200
VANADIUM	3.6	14	UG/L	**5.6 J**
ZINC	1100		UG/L	29.2

Crit1: U.S. EPA Region 9 PRG Tap Water, 2004
Crit2: New York State TOG Surface Water, 1998
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	AW	AW	AW	AW	AW	AW	AW
			Excavation Number:		X27	X27	X41	X87	X88	X89
			Sample Name:	C7-CWM-WW-AC11	C7-CWM-WW-X27-CW01-6	C7-CWM-WW-DUP4	C7-CWM-WW-X41-AW01-3.5	C7-CWM-WW-X87-AW01-15	C7-CWM-WW-X88-AW01-16	C7-CWM-WW-X89-AW01-16
			Sample Depth:		6 FT	6 FT	3.5 FT	15 FT	16 FT	16 FT
			Sample Date:	7/14/1998	8/30/2006	8/30/2006	9/6/2006	9/25/2006	9/26/2006	9/26/2006
			Parent Name:			C7-CWM-WW-X27-CW01-6				
Analyte	**Crit1**	**Crit2**	**Unit**							
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	320	5	UG/L	0.3 U	1.0 U	1.0 U	**28**	1.0 U	1.0 U	1.0 U
1,1,2,2-TETRACHLOROETHANE	0.055	0.2	UG/L	0.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	0.2	1	UG/L	0.4 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHANE	81	5	UG/L	1	2.2	2.4	**31**	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHYLENE	34	0.7	UG/L	0.6 U	1.0 U	1.0 U	**1.9**	1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	0.12	0.6	UG/L	0.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROPROPANE	0.16	1	UG/L	0.4 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-BUTANONE	700	50	UG/L	2 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-METHYL-2-PENTANONE	200		UG/L	1 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
ACETONE	550	50	UG/L	4	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
BENZENE	0.35	10	UG/L	0.3 U	**1.3**	**1.5**	1.0 U	1.0 U	1.0 U	1.0 U
CARBON DISULFIDE	100	60	UG/L	0.4 U	1.0 U	1.8	1.0 U	1.0 U	1.0 U	1.0 U
CARBON TETRACHLORIDE	0.17	0.4	UG/L	0.4 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROBENZENE	11	400	UG/L	0.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROFORM	0.017	7	UG/L	0.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,2-DICHLOROETHENE	6.1	5	UG/L		2	2.3	4.8	1.0 U	1.3	0.89 J
DICHLORODIFLUOROMETHANE	39	5	UG/L		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ETHYLBENZENE	130	17	UG/L	0.3 U	0.99 J	1.2	1.0 U	1.0 U	1.0 U	1.0 U
ISOPROPYLBENZENE	66	2.6	UG/L		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
M+P-XYLENE	21		UG/L		1.0 U	0.64 J	1.0 U	1.0 U	1.0 U	1.0 U
METHYLENE CHLORIDE	4.3	200	UG/L	0.5 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U
O-XYLENE	21	65	UG/L	0.9 U	1.0 U	0.53 J	1.0 U	1.0 U	1.0 U	1.0 U
STYRENE	160	5	UG/L	0.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TETRACHLOROETHENE	0.1	1	UG/L	**0.7**	1.0 U	1.0 U	1.0 U	**1 U**	**0.36 J**	**0.43 J**
TOLUENE	72	100	UG/L	0.5 U	0.91 J	0.82 J	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,2-DICHLOROETHENE	12	5	UG/L		1.0 U	0.48 J	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,3-DICHLOROPROPENE			UG/L	0.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROETHYLENE	1.4	40	UG/L	0.3 J	1.1	1.3	**2.6**	1 U	0.82 J	0.32 J
VINYL CHLORIDE	0.02	0.3	UG/L	0.6 U	**1.1 J**	**1.1 J**	1.0 U	1.0 U	1.0 U	1.0 U
XYLENES (TOTAL)	21		UG/L							
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	0.72	5	UG/L	3 U	**4.1 J**	**4.2 J**	**1400**	0.22 U	0.24 U	0.21 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	AW	AW	AW	AW	AW	AW	AW
			Excavation Number:		X27	X27	X41	X87	X88	X89
			Sample Name:	C7-CWM-WW-AC11	C7-CWM-WW-X27-CW01-6	C7-CWM-WW-DUP4	C7-CWM-WW-X41-AW01-3.5	C7-CWM-WW-X87-AW01-15	C7-CWM-WW-X88-AW01-16	C7-CWM-WW-X89-AW01-16
			Sample Depth:		6 FT	6 FT	3.5 FT	15 FT	16 FT	16 FT
			Sample Date:	7/14/1998	8/30/2006	8/30/2006	9/6/2006	9/25/2006	9/26/2006	9/26/2006
			Parent Name:			C7-CWM-WW-X27-CW01-6				
Analyte	**Crit1**	**Crit2**	**Unit**							
1,2-BENZPHENANTHRACENE	9.2	0.002	UG/L	0.01 U	**1.2**	**1.5**	0.32 U	0.22 U	0.24 U	0.21 U
1,2-DICHLOROBENZENE	37	5	UG/L	2 U	0.6	0.72	0.32 U	0.22 U	0.24 U	0.21 U
1,3-DICHLOROBENZENE	18	5	UG/L	3 U	1.4	1.5	0.7	0.22 U	0.24 U	0.21 U
1,4-DICHLOROBENZENE	0.5	5	UG/L	3 U	0.19 J	0.22 J	**0.97**	0.22 U	0.24 U	0.21 U
2,2'-OXYBIS(1-CHLOROPROPANE)	0.27	5	UG/L	4 U	0.23 U	0.24 U	0.32 U	0.22 U	0.24 U	0.21 U
2,4,5-TRICHLOROPHENOL	360		UG/L	3 U	1.1 U	1.2 U	2.4	1.1 U	1.2 U	1.1 U
2,4-DICHLOROPHENOL	11	0.3	UG/L	3 U	1.1 U	1.2 U	**2**	1.1 U	1.2 U	1.1 U
2,4-DIMETHYLPHENOL	73	1000	UG/L	3 U	1.1 U	0.71 J	1.6 U	1.1 U	1.2 U	1.1 U
2-CHLOROPHENOL	3		UG/L	3 U	1.1 U	1.2 U	1.6 U	1.1 U	1.2 U	1.1 U
2-METHYLNAPHTHALENE	0.62	4.7	UG/L		**3.7**	**4.1**	0.32 U	0.22 U	0.24 U	0.21 U
2-METHYLPHENOL	180		UG/L	4 U	1.1 U	1.2 U	1.6 U	3.6	1.2 U	1.1 U
4-CHLORO-3-METHYLPHENOL			UG/L	4 U	1.1 U	1.2 U	1.6 U	1.1 U	1.2 U	1.1 U
4-METHYLPHENOL	18		UG/L	4 U	1.6	1.8 J	2.6	9.8	1.2 U	1.1 U
ACENAPHTHENE	37	5.3	UG/L	0.08 U	**21 J**	**24 J**	0.32 U	0.22 U	0.24 U	0.21 U
ACENAPHTHYLENE	37		UG/L	0.53 U	0.71	0.84	0.32 U	0.22 U	0.24 U	0.21 U
ANTHRACENE	180	3.8	UG/L	0.02 U	**16**	**16**	0.32 U	0.22 U	0.24 U	0.21 U
BENZ[A]ANTHRACENE	0.092	0.03	UG/L	0.02 U	**4**	**4.8**	0.32 U	0.22 U	0.24 U	0.21 U
BENZO[A]PYRENE	0.0092	0.0012	UG/L	0.02 U	**0.9**	**0.92 J**	0.32 U	0.22 U	0.24 U	0.21 U
BENZO[B]FLUORANTHENE	0.092	0.002	UG/L	0.03 U	**1.3 J**	**0.93 J**	0.32 U	0.22 U	0.24 U	0.21 U
BENZO[GHI]PERYLENE	18		UG/L	0.03 U	0.31	0.34 J	0.32 U	0.22 U	0.24 U	0.21 U
BENZO[K]FLUORANTHENE	0.92	0.002	UG/L	**0.01**	**1 J**	**1.4 J**	0.32 U	0.22 U	0.24 U	0.21 U
BENZYL BUTYL PHTHALATE	730	50	UG/L	4 U	0.23 U	0.24 U	0.32 U	0.22 U	0.24 U	0.21 U
BIS(2-ETHYLHEXYL) PHTHALATE	4.8	0.6	UG/L	7 U	**4 J**	**1.8 J**	0.32 U	**5**	**4**	**2.9**
CARBAZOLE	3.4		UG/L	5 U	**87**	**99**	0.32 U	0.22 U	0.24 U	0.21 U
DIBENZ[A,H]ANTHRACENE	0.0092		UG/L	0.02 U	0.23 U	0.24 U	0.32 U	0.22 U	0.24 U	0.21 U
DIBENZOFURAN	1.2		UG/L	4 U	**17**	**18**	0.32 U	0.22 U	0.24 U	0.21 U
DIETHYL PHTHALATE	2900	50	UG/L	3 U	0.23 U	0.24 U	0.32 U	0.22 U	0.19 J	0.13 J
DI-N-BUTYL PHTHALATE	360	50	UG/L	4 U	0.31	0.24 U	0.32 U	0.16 J	0.36 J	0.26
DI-N-OCTYL PHTHALATE	150	50	UG/L	4 U	0.23 U	0.24 U	0.32 U	0.22 U	0.24 U	0.21 U
FLUORANTHENE	150	50	UG/L	0.05 U	38	45	0.32 U	0.22 U	0.24 U	0.21 U
FLUORENE	24	0.54	UG/L	0.04 U	**46**	**47**	0.32 U	0.22 U	0.24 U	0.21 U
HEXACHLORO-1,3-BUTADIENE	0.86	0.01	UG/L	4 U	0.23 U	0.24 U	0.32 U	0.22 U	0.24 U	0.21 U
HEXACHLOROBENZENE	0.042	0.00003	UG/L	6 U	0.23 U	0.24 U	**6.9**	0.22 U	0.24 U	0.21 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	AW	AW	AW	AW	AW	AW	AW
			Excavation Number:		X27	X27	X41	X87	X88	X89
			Sample Name:	C7-CWM-WW-AC11	C7-CWM-WW-X27-CW01-6	C7-CWM-WW-DUP4	C7-CWM-WW-X41-AW01-3.5	C7-CWM-WW-X87-AW01-15	C7-CWM-WW-X88-AW01-16	C7-CWM-WW-X89-AW01-16
			Sample Depth:		6 FT	6 FT	3.5 FT	15 FT	16 FT	16 FT
			Sample Date:	7/14/1998	8/30/2006	8/30/2006	9/6/2006	9/25/2006	9/26/2006	9/26/2006
			Parent Name:			C7-CWM-WW-X27-CW01-6				
Analyte	**Crit1**	**Crit2**	**Unit**							
HEXACHLOROCYCLOPENTADIENE	22		UG/L	2 U	0.23 U	0.24 U	0.32 U	0.22 U	0.24 U	0.21 U
HEXACHLOROETHANE	3.6	0.6	UG/L	3 U	0.23 U	0.24 U	0.32 U	0.22 U	0.24 U	0.21 U
INDENO[1,2,3-CD]PYRENE	0.092	0.002	UG/L	0.04 U	**0.31**	**0.34 J**	0.32 U	0.22 U	0.24 U	0.21 U
ISOPHORONE	71	50	UG/L	4 U	0.23 U	0.24 U	0.32 U	0.22 U	0.24 U	0.21 U
NAPHTHALENE	0.62	13	UG/L	0.15 U	**6.4**	**7.3**	0.24 J	0.22 U	0.24 U	0.21 U
N-NITROSODI-N-PROPYLAMINE	0.0096		UG/L	4 U	0.23 U	0.24 U	0.32 U	0.22 U	0.24 U	0.21 U
N-NITROSODIPHENYLAMINE	14	50	UG/L	4 U	0.23 U	0.24 U	0.32 U	0.22 U	0.24 U	0.21 U
PENTACHLOROPHENOL	0.56		UG/L	0.5 U	2.8 U	3.0 U	4.0 U	2.7 U	3.0 U	2.7 U
PHENANTHRENE	0.62	5	UG/L	0.01 U	**130**	**130**	0.32 U	0.22 U	0.24 U	0.21 U
PHENOL	1100	1	UG/L	4 U	1.1 U	1.2 U	**2.2 J**	**7.8 J**	1.2 U	1.1 U
PYRENE	18	4.6	UG/L	0.02	**37**	**38**	0.32 U	0.22 U	0.24 U	0.21 U
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDE	0.2	0.000007	UG/L	0.021 U	0.056 U	**0.044 J**	0.060 U	0.058 U	0.059 U	0.055 U
4,4'-DDT	0.2	0.00001	UG/L	0.013 U	0.056 U	0.060 U	0.060 U	0.058 U	0.059 U	0.055 U
ALPHA-BHC	0.011	0.002	UG/L	0.006 U	0.056 U	0.060 U	0.060 U	0.058 U	0.059 U	0.055 U
ALPHA-CHLORDANE	0.19		UG/L	0.016 U	0.056 U	0.060 U	0.060 U	0.058 U	0.059 U	0.055 U
AROCLOR 1016	0.26		UG/L	0.62 U	0.56 U	0.60 U	600 U	0.58 U	0.59 U	0.55 U
AROCLOR 1260	0.034		UG/L	0.14 U	0.56 U	0.60 U	**980**	0.58 U	0.59 U	0.55 U
BETA-BHC	0.037	0.007	UG/L	0.008 U	0.056 U	0.060 U	**0.3**	0.058 U	0.059 U	0.055 U
DELTA-BHC	0.011	0.008	UG/L	0.006 U	0.056 U	0.060 U	**0.67 J**	0.058 U	0.059 U	0.055 U
DIELDRIN	0.0042	0.0000006	UG/L	0.015 U	**0.056 U**	0.060 U	0.060 U	0.058 U	0.059 U	0.055 U
ENDOSULFAN I	22		UG/L	0.005 U	0.056 U	0.060 U	0.060 U	0.058 U	0.059 U	0.055 U
ENDOSULFAN II	22		UG/L	0.021 U	0.056 U	0.060 U	0.060 U	0.058 U	0.059 U	0.055 U
ENDOSULFAN SULFATE	22		UG/L	0.019 U	0.056 U	0.060 U	0.060 U	0.058 U	0.059 U	0.055 U
ENDRIN ALDEHYDE	1.1	5	UG/L	0.028 U	0.056 U	0.060 U	0.060 U	0.058 U	0.059 U	0.055 U
GAMMA-BHC	0.052	0.008	UG/L	0.004 U	0.056 U	0.060 U	0.060 U	0.058 U	0.059 U	0.055 U
GAMMA-CHLORDANE	0.19		UG/L	0.013 U	0.056 U	0.060 U	0.060 U	0.058 U	0.059 U	0.055 U
HEPTACHLOR	0.015	0.0002	UG/L	0.03 U	0.056 U	0.060 U	0.060 U	0.058 U	0.059 U	0.055 U
HEPTACHLOR EPOXIDE	0.0074	0.0003	UG/L	0.006 U	0.056 U	**0.068**	0.060 U	0.058 U	0.059 U	0.055 U
METHOXYCHLOR	18	0.03	UG/L	0.046 U	0.056 U	0.060 U	0.060 U	0.058 U	0.059 U	0.055 U
Explosives (8330)										
1,3-DINITROBENZENE	0.36	5	UG/L	0.17 U	0.22 U	0.21 U	0.22 U	0.20 U	0.21 U	0.21 U
2,4-DINITROTOLUENE	0.099	5	UG/L	**0.26**	0.22 U	0.21 U	0.22 U	0.20 U	0.21 U	0.21 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	AW	AW	AW	AW	AW	AW	AW
			Excavation Number:		X27	X27	X41	X87	X88	X89
			Sample Name:	C7-CWM-WW-AC11	C7-CWM-WW-X27-CW01-6	C7-CWM-WW-DUP4	C7-CWM-WW-X41-AW01-3.5	C7-CWM-WW-X87-AW01-15	C7-CWM-WW-X88-AW01-16	C7-CWM-WW-X89-AW01-16
			Sample Depth:		6 FT	6 FT	3.5 FT	15 FT	16 FT	16 FT
			Sample Date:	7/14/1998	8/30/2006	8/30/2006	9/6/2006	9/25/2006	9/26/2006	9/26/2006
			Parent Name:			C7-CWM-WW-X27-CW01-6				
Analyte	**Crit1**	**Crit2**	**Unit**							
2,6-DINITROTOLUENE	0.099	0.07	UG/L	0.14 U	0.22 U	0.21 U	0.22 U	0.20 U	0.21 U	0.21 U
2-AMINO-4,6-DINITROTOLUENE	0.73		UG/L	0.14 U	0.22 U	0.21 U	0.22 U	0.20 U	0.21 U	0.21 U
4-AMINO-2,6-DINITROTOLUENE	0.73		UG/L	0.2 U	0.22 U	0.21 U	0.22 U	0.20 U	0.21 U	0.21 U
4-NITROTOLUENE	0.66	5	UG/L	0.16 U	0.44 U	0.42 U	0.44 U	0.16 J	0.42 U	0.41 U
HMX	180		UG/L	0.09 U	0.44 U	0.42 U	0.44 U	0.40 U	3.2 J	0.41 U
RDX	0.61		UG/L	0.22 U	0.44 U	0.42 U	0.44 U	0.40 U	0.42 U	0.41 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	3600	100	UG/L	**5920**	100 U	100 U	**30200**	**200**	**517**	**7670**
ANTIMONY	1.5	3	UG/L	1.1 J	0.78 J	0.18 J	1.2 J	1.0 U	1.0 U	0.16 J
ARSENIC	0.045		UG/L	**4.1 J**	**10.3 J**	**2 J**	**14.2 J**	**13.9**	**2.6 J**	**4.5 J**
BARIUM	260	1000	UG/L	151 J	5.0 U	5.0 U	**355**	82.8	87.5	160
BERYLLIUM	7.3	3	UG/L	0.2 U	0.20 U	0.20 U	2	0.20 U	0.20 U	0.26
BORON	730	10000	UG/L	436	437 J	439 J	214 J	194 J	215	347
CADMIUM	1.8	5	UG/L	0.6 U	0.50 U	0.50 U	**3.4**	0.50 U	0.50 U	0.22 J
CALCIUM			UG/L	130000	1000 U	1000 U	525000	154000	147000	153000
CHROMIUM	11		UG/L	6.5 J	2.0 U	2.0 U	**50.7**	2	2.8	**12.8**
COBALT	73	5	UG/L	7 U	1.0 U	1.0 U	**17.4**	0.33 J	2.3	**5.2**
COPPER	150	200	UG/L	10.3	2.0 U	2.0 U	**1030**	2.1	8.1	27.4
IRON	1100	300	UG/L	**5930**	50 U	50 U	**37800**	**645**	**1520**	**12500**
LEAD	15		UG/L	**55.2 J**	2.0 U	2.0 U	**234**	1.2 J	0.55 J	6.1
LITHIUM	73		UG/L	42.5	2.0 U	2.0 U	54.6	26	20.1	31.4
MAGNESIUM		35000	UG/L	**112000**	100 U	100 U	**59400**	**108000**	**88900**	**84100**
MANGANESE	88	300	UG/L	**1700**	2.0 U	2.0 U	**1440**	**1470**	**1580**	**1120**
MERCURY	1.1		UG/L	0.15 J	0.077 J	0.20 U	0.2 U	0.20 U	0.20 U	0.20 U
MOLYBDENUM	18		UG/L		6.2	6.2	25 U	0.2 J	0.39 J	1.5 J
NICKEL	73		UG/L	5 U	1.0 U	1.0 U	66.1	1.9	5.2	13.7
POTASSIUM			UG/L	5800	9670 J	6780 J	26800	7530	5670	5240
SELENIUM	18		UG/L	3.8 J	5.0 U	5.0 U	10.5 J	5.0 U	5.0 U	1.1 J
SILVER	18	0.1	UG/L	**1.3 J**	**0.2 J**	0.30 U	1.5 U	0.30 U	0.30 U	0.30 U
SODIUM			UG/L	49100	167000	178000	79000	48800	34300	30300
THALLIUM	0.24	8	UG/L	1 U	**2 U**	2 U	10 U	2.0 U	2.0 U	2 U
VANADIUM	3.6	14	UG/L	**7.4 J**	10 U	10 U	**80.8**	10 U	10 U	**14.8**
ZINC	1100		UG/L	150	10 U	10 U	504	6.2 J	6.1 J	47.6 N

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	AW	AW	AW	AW	AW	AW	AW
			Excavation Number:		X27	X27	X41	X87	X88	X89
			Sample Name:	C7-CWM-WW-AC11	C7-CWM-WW-X27-CW01-6	C7-CWM-WW-DUP4	C7-CWM-WW-X41-AW01-3.5	C7-CWM-WW-X87-AW01-15	C7-CWM-WW-X88-AW01-16	C7-CWM-WW-X89-AW01-16
			Sample Depth:		6 FT	6 FT	3.5 FT	15 FT	16 FT	16 FT
			Sample Date:	7/14/1998	8/30/2006	8/30/2006	9/6/2006	9/25/2006	9/26/2006	9/26/2006
			Parent Name:			C7-CWM-WW-X27-CW01-6				
Analyte	**Crit1**	**Crit2**	**Unit**							
General Chemistry										
CYANIDE	73	5.2	UG/L	7 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Crit1: U.S. EPA Region 9 PRG Tap Water, 2004

Crit2: New York State TOG Surface Water, 1998

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	AW	AW	AW	AW	AW	AW	CW
			Excavation Number:	X90	X91	X92	X94	X95	X96	X19
			Sample Name:	C7-CWM-WW-X90-AW01-17	C7-CWM-WW-X91-AW01-16	C7-CWM-WW-X92-AW01-12	C7-CWM-WW-X94-AW01-10	C7-CWM-WW-X95-AW01-10	C7-CWM-WW-X96-AW01-9	C7-CWM-WW-X19-UN01-4
			Sample Depth:	16 FT	16 FT	12 FT	10 FT	10 FT	9 FT	4 FT
			Sample Date:	9/26/2006	9/27/2006	10/5/2006	9/29/2006	9/29/2006	9/29/2006	8/25/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	320	5	UG/L	1.0 U	1.0 U	**26**	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-TETRACHLOROETHANE	0.055	0.2	UG/L	1.0 U	1.0 U	**5.3**	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	0.2	1	UG/L	1.0 U	1.0 U	**14**	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHANE	81	5	UG/L	1.0 U	1.0 U	**98**	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHYLENE	34	0.7	UG/L	1.0 U	1.0 U	**11**	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	0.12	0.6	UG/L	1.0 U	1.0 U	**52**	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROPROPANE	0.16	1	UG/L	1.0 U	1.0 U	**72**	1.0 U	1.0 U	1.0 U	1.0 U
2-BUTANONE	700	50	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-METHYL-2-PENTANONE	200		UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
ACETONE	550	50	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
BENZENE	0.35	10	UG/L	1.0 U	1.0 U	**11**	1.0 U	1.0 U	1.0 U	1.0 U
CARBON DISULFIDE	100	60	UG/L	1.0 U	1.0 U	9.8 J	1.0 U	1.0 U	1.0 U	1.0 U
CARBON TETRACHLORIDE	0.17	0.4	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROBENZENE	11	400	UG/L	1.0 U	1.0 U	**140**	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROFORM	0.017	7	UG/L	1.0 U	1.0 U	**17**	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,2-DICHLOROETHENE	6.1	5	UG/L	0.77 J	1	**700**	1.0 U	0.43 J	2.6	1.0 U
DICHLORODIFLUOROMETHANE	39	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2 J
ETHYLBENZENE	130	17	UG/L	1.0 U	1.0 U	**55**	1.0 U	1.0 U	1.0 U	1.0 U
ISOPROPYLBENZENE	66	2.6	UG/L	1.0 U	1.0 U	**50**	1.0 U	1.0 U	1.0 U	1.0 U
M+P-XYLENE	21		UG/L	1.0 U	1.0 U	**26**	1.0 U	1.0 U	1.0 U	1.0 U
METHYLENE CHLORIDE	4.3	200	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	0.56 J
O-XYLENE	21	65	UG/L	1.0 U	1.0 U	**36**	1.0 U	1.0 U	1.0 U	1.0 U
STYRENE	160	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TETRACHLOROETHENE	0.1	1	UG/L	**0.38 J**	1.0 U	**8.6**	1.0 U	**0.85 J**	**4.6**	1.0 U
TOLUENE	72	100	UG/L	1.0 U	1.0 U	26	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,2-DICHLOROETHENE	12	5	UG/L	1.0 U	1.0 U	2.7	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,3-DICHLOROPROPENE			UG/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROETHYLENE	1.4	40	UG/L	1.0 U	1.0 U	**14**	1.0 U	1.0 U	1.1	1.0 U
VINYL CHLORIDE	0.02	0.3	UG/L	1.0 U	1.0 U	**220**	1.0 U	1.0 U	1.0 U	1.0 U
XYLENES (TOTAL)	21		UG/L							
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	0.72	5	UG/L	0.21 U	0.20 U	**10**	0.21 U	0.21 U	0.21 U	0.24 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	AW	AW	AW	AW	AW	AW	CW
			Excavation Number:	X90	X91	X92	X94	X95	X96	X19
			Sample Name:	C7-CWM-WW-X90-AW01-17	C7-CWM-WW-X91-AW01-16	C7-CWM-WW-X92-AW01-12	C7-CWM-WW-X94-AW01-10	C7-CWM-WW-X95-AW01-10	C7-CWM-WW-X96-AW01-9	C7-CWM-WW-X19-UN01-4
			Sample Depth:	16 FT	16 FT	12 FT	10 FT	10 FT	9 FT	4 FT
			Sample Date:	9/26/2006	9/27/2006	10/5/2006	9/29/2006	9/29/2006	9/29/2006	8/25/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
1,2-BENZPHENANTHRACENE	9.2	0.002	UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	0.24 U
1,2-DICHLOROBENZENE	37	5	UG/L	0.21 U	0.20 U	**130**	0.21 U	0.21 U	0.21 U	0.24 U
1,3-DICHLOROBENZENE	18	5	UG/L	0.21 U	0.20 U	**6.4**	0.21 U	0.21 U	0.21 U	0.24 U
1,4-DICHLOROBENZENE	0.5	5	UG/L	0.21 U	0.20 U	**120**	0.21 U	0.21 U	0.21 U	0.24 U
2,2'-OXYBIS(1-CHLOROPROPANE)	0.27	5	UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	0.24 U
2,4,5-TRICHLOROPHENOL	360		UG/L	1.1 U	1.0 U	0.78 J	1.0 U	1.1 U	1.1 U	1.2 U
2,4-DICHLOROPHENOL	11	0.3	UG/L	1.1 U	1.0 U	**2 J**	1.0 U	1.1 U	1.1 U	1.2 U
2,4-DIMETHYLPHENOL	73	1000	UG/L	1.1 U	1.0 U	1.6	1.0 U	1.1 U	1.1 U	1.2 U
2-CHLOROPHENOL	3		UG/L	1.1 U	1.0 U	2.5 J	1.0 U	1.1 U	1.1 U	1.2 U
2-METHYLNAPHTHALENE	0.62	4.7	UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	0.24 U
2-METHYLPHENOL	180		UG/L	1.1 U	1.0 U	11	1.0 U	1.1 U	1.1 U	1.2 U
4-CHLORO-3-METHYLPHENOL			UG/L	1.1 U	1.0 U	1.0 U	1.0 U	1.1 U	1.1 U	1.2 U
4-METHYLPHENOL	18		UG/L	1.1 U	1.0 U	17	1.0 U	1.1 U	1.1 U	1.2 U
ACENAPHTHENE	37	5.3	UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	0.24 U
ACENAPHTHYLENE	37		UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	0.24 U
ANTHRACENE	180	3.8	UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	0.13 J
BENZ[A]ANTHRACENE	0.092	0.03	UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	0.24 U
BENZO[A]PYRENE	0.0092	0.0012	UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	0.24 U
BENZO[B]FLUORANTHENE	0.092	0.002	UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	0.24 U
BENZO[GHI]PERYLENE	18		UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	0.24 U
BENZO[K]FLUORANTHENE	0.92	0.002	UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	0.24 U
BENZYL BUTYL PHTHALATE	730	50	UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	0.24 U
BIS(2-ETHYLHEXYL) PHTHALATE	4.8	0.6	UG/L	**0.78**	**1.6**	**2.2 J**	**80**	**0.61 J**	**1.4 J**	**2.1**
CARBAZOLE	3.4		UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	0.67
DIBENZ[A,H]ANTHRACENE	0.0092		UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	0.24 U
DIBENZOFURAN	1.2		UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	0.24 U
DIETHYL PHTHALATE	2900	50	UG/L	0.21 U	0.20 U	0.21 U	0.18 J	0.21 U	0.21 U	0.24 U
DI-N-BUTYL PHTHALATE	360	50	UG/L	0.65	0.2 J	0.21 U	0.22	0.12 J	0.29 J	0.24 J
DI-N-OCTYL PHTHALATE	150	50	UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	0.24 U
FLUORANTHENE	150	50	UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	0.22 J
FLUORENE	24	0.54	UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	0.17 J
HEXACHLORO-1,3-BUTADIENE	0.86	0.01	UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	0.24 U
HEXACHLOROBENZENE	0.042	0.00003	UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	**0.18 J**

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	AW	AW	AW	AW	AW	AW	CW
			Excavation Number:	X90	X91	X92	X94	X95	X96	X19
			Sample Name:	C7-CWM-WW-X90-AW01-17	C7-CWM-WW-X91-AW01-16	C7-CWM-WW-X92-AW01-12	C7-CWM-WW-X94-AW01-10	C7-CWM-WW-X95-AW01-10	C7-CWM-WW-X96-AW01-9	C7-CWM-WW-X19-UN01-4
			Sample Depth:	16 FT	16 FT	12 FT	10 FT	10 FT	9 FT	4 FT
			Sample Date:	9/26/2006	9/27/2006	10/5/2006	9/29/2006	9/29/2006	9/29/2006	8/25/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
HEXACHLOROCYCLOPENTADIENE	22		UG/L	0.21 U	0.20 U	0.52 U	0.21 U	0.21 U	0.21 U	0.60 U
HEXACHLOROETHANE	3.6	0.6	UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	0.24 U
INDENO[1,2,3-CD]PYRENE	0.092	0.002	UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	0.24 U
ISOPHORONE	71	50	UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	0.24 U
NAPHTHALENE	0.62	13	UG/L	0.21 U	0.20 U	**1.1**	0.21 U	0.21 U	0.21 U	0.24 U
N-NITROSODI-N-PROPYLAMINE	0.0096		UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	0.24 U
N-NITROSODIPHENYLAMINE	14	50	UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	0.24 U
PENTACHLOROPHENOL	0.56		UG/L	2.7 U	2.6 U	2.6 U	1.0 U	1.1 U	2.7 U	3.0 U
PHENANTHRENE	0.62	5	UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	0.48
PHENOL	1100	1	UG/L	1.1 U	1.0 U	**1.1**	1.0 U	1.1 U	1.1 U	1.2 U
PYRENE	18	4.6	UG/L	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U	0.21 U	0.2 J
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDE	0.2	0.000007	UG/L	0.053 U	0.053 U	0.052 U	0.052 U	0.052 U	0.054 U	0.059 U
4,4'-DDT	0.2	0.00001	UG/L	0.053 U	0.053 U	0.052 U	0.052 U	0.052 U	0.054 U	0.059 U
ALPHA-BHC	0.011	0.002	UG/L	0.053 U	0.053 U	0.052 U	0.052 U	0.052 U	0.054 U	0.059 U
ALPHA-CHLORDANE	0.19		UG/L	0.053 U	0.053 U	0.052 U	0.052 U	0.052 U	0.054 U	0.059 U
AROCLOR 1016	0.26		UG/L	0.53 U	0.53 U	0.52 U	0.52 U	0.52 U	0.54 U	0.59 U
AROCLOR 1260	0.034		UG/L	0.53 U	0.53 U	0.52 U	0.52 U	0.52 U	0.54 U	0.59 U
BETA-BHC	0.037	0.007	UG/L	0.053 U	0.053 U	0.052 U	0.052 U	0.052 U	0.054 U	0.059 U
DELTA-BHC	0.011	0.008	UG/L	0.053 U	0.053 U	0.052 U	0.052 U	0.052 U	0.054 U	0.059 U
DIELDRIN	0.0042	0.0000006	UG/L	0.053 U	0.053 U	0.052 U	0.052 U	0.052 U	0.054 U	0.059 U
ENDOSULFAN I	22		UG/L	0.053 U	0.053 U	0.052 U	0.052 U	0.052 U	0.054 U	0.059 U
ENDOSULFAN II	22		UG/L	0.053 U	0.053 U	0.052 U	0.052 U	0.052 U	0.054 U	0.059 U
ENDOSULFAN SULFATE	22		UG/L	0.053 U	0.053 U	0.052 U	0.052 U	0.052 U	0.054 U	0.059 U
ENDRIN ALDEHYDE	1.1	5	UG/L	0.053 U	0.053 U	0.052 U	0.052 U	0.052 U	0.054 U	0.059 U
GAMMA-BHC	0.052	0.008	UG/L	0.053 U	0.053 U	0.052 U	0.052 U	0.052 U	0.054 U	0.059 U
GAMMA-CHLORDANE	0.19		UG/L	0.053 U	0.053 U	0.052 U	0.052 U	0.052 U	0.054 U	0.059 U
HEPTACHLOR	0.015	0.0002	UG/L	0.053 U	0.053 U	0.052 U	0.052 U	0.052 U	0.054 U	0.059 U
HEPTACHLOR EPOXIDE	0.0074	0.0003	UG/L	0.053 U	0.053 U	0.052 U	0.052 U	0.052 U	0.054 U	**0.23 J**
METHOXYCHLOR	18	0.03	UG/L	0.053 U	0.053 U	0.052 U	0.052 U	0.052 U	0.054 U	0.059 U
Explosives (8330)										
1,3-DINITROBENZENE	0.36	5	UG/L	0.21 U	0.20 U	0.20 U	0.20 U	0.20 U	0.21 U	0.21 U
2,4-DINITROTOLUENE	0.099	5	UG/L	0.21 U	0.20 U	0.20 U	0.20 U	0.20 U	0.21 U	0.21 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	AW	AW	AW	AW	AW	AW	CW
			Excavation Number:	X90	X91	X92	X94	X95	X96	X19
			Sample Name:	C7-CWM-WW-X90-AW01-17	C7-CWM-WW-X91-AW01-16	C7-CWM-WW-X92-AW01-12	C7-CWM-WW-X94-AW01-10	C7-CWM-WW-X95-AW01-10	C7-CWM-WW-X96-AW01-9	C7-CWM-WW-X19-UN01-4
			Sample Depth:	16 FT	16 FT	12 FT	10 FT	10 FT	9 FT	4 FT
			Sample Date:	9/26/2006	9/27/2006	10/5/2006	9/29/2006	9/29/2006	9/29/2006	8/25/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
2,6-DINITROTOLUENE	0.099	0.07	UG/L	0.21 U	0.20 U	0.20 U	0.20 U	0.20 U	0.21 U	0.21 U
2-AMINO-4,6-DINITROTOLUENE	0.73		UG/L	0.21 U	0.20 U	0.45	0.20 U	0.20 U	0.21 U	0.21 U
4-AMINO-2,6-DINITROTOLUENE	0.73		UG/L	0.21 U	0.20 U	0.20 U	0.20 U	0.20 U	0.21 U	0.21 U
4-NITROTOLUENE	0.66	5	UG/L	0.42 U	0.40 U	**2.6**	0.40 U	0.40 U	0.41 U	0.42 U
HMX	180		UG/L	0.42 U	0.40 U	1	0.40 U	0.40 U	0.41 U	0.42 U
RDX	0.61		UG/L	0.42 U	0.40 U	0.40 U	0.40 U	0.40 U	0.41 U	0.42 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	3600	100	UG/L	**7960**	**711**	**821**	**2410**	**506**	**883**	**5260 J**
ANTIMONY	1.5	3	UG/L	0.23 J	0.24 J	0.67 J	0.3 J	0.27 J	0.31 J	1.3
ARSENIC	0.045		UG/L	**4.3 J**	5.0 U	**176**	5 U	5 U	5 U	**4.2 J**
BARIUM	260	1000	UG/L	162	82	19.2	64.8	53.9	63.7	144
BERYLLIUM	7.3	3	UG/L	0.3	0.20 U	.2 U	0.1 J	.2 U	0.052 J	0.27
BORON	730	10000	UG/L	409	627 J	525	552 J	500 J	**1130 J**	159
CADMIUM	1.8	5	UG/L	0.17 J	0.50 U	1.1	.5 U	.5 U	.5 U	0.64
CALCIUM			UG/L	157000	89000	321000	119000	107000	104000	212000
CHROMIUM	11		UG/L	**13.4**	2.9	**78.9**	4.9	1.9 J	2.1	**33.8**
COBALT	73	5	UG/L	**6.2**	0.37 J	0.63 J	1 U	1 U	1 U	2.7
COPPER	150	200	UG/L	25.3	5.8	67.4	11.3	9.1	12.7	77.7
IRON	1100	300	UG/L	**14000**	**1400**	**2490**	**3430**	**689**	**1270**	**12300**
LEAD	15		UG/L	5.6	2.6	3	**33.5**	4.2	**35.1**	**21.9**
LITHIUM	73		UG/L	31.6	12.2	**96.7**	15.6	10.8	9.8	**107**
MAGNESIUM		35000	UG/L	**74700**	**42800**	**124000**	**36100**	29000	22500	25000
MANGANESE	88	300	UG/L	**1020**	**472**	**781**	**155**	32.6	**116**	**240**
MERCURY	1.1		UG/L	0.20 U	0.081 J	.2 U	0.2 U	0.2 U	0.2 U	0.12 J
MOLYBDENUM	18		UG/L	1.5 J	5 U	5 U	5 U	5 U	5 U	**33.9**
NICKEL	73		UG/L	15.2	2.3	10.7	4.1	2.1	2.9	6.6
POTASSIUM			UG/L	5550	4120	24500	3900	3710	4550	940000
SELENIUM	18		UG/L	0.76 J	5.0 U	3.1 J	5 U	5 U	5 U	**25.5**
SILVER	18	0.1	UG/L	0.032 J	0.30 U	.3 U	0.037 J	.3 U	.3 U	**1.3**
SODIUM			UG/L	27300	21500	72400	19600	16300	25900	2810000
THALLIUM	0.24	8	UG/L	2 U	2.0 U	2 U	2 U	2 U	2 U	**2.5**
VANADIUM	3.6	14	UG/L	**15.8**	10 U	10 U	3.4 J	10 U	10 U	**19.6**
ZINC	1100		UG/L	37.6	10.7	25.6 J	70.1	19.9	30.6	36.6 J

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	AW	AW	AW	AW	AW	AW	CW
			Excavation Number:	X90	X91	X92	X94	X95	X96	X19
			Sample Name:	C7-CWM-WW-X90-AW01-17	C7-CWM-WW-X91-AW01-16	C7-CWM-WW-X92-AW01-12	C7-CWM-WW-X94-AW01-10	C7-CWM-WW-X95-AW01-10	C7-CWM-WW-X96-AW01-9	C7-CWM-WW-X19-UN01-4
			Sample Depth:	16 FT	16 FT	12 FT	10 FT	10 FT	9 FT	4 FT
			Sample Date:	9/26/2006	9/27/2006	10/5/2006	9/29/2006	9/29/2006	9/29/2006	8/25/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
General Chemistry										
CYANIDE	73	5.2	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Crit1: U.S. EPA Region 9 PRG Tap Water, 2004

Crit2: New York State TOG Surface Water, 1998

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	CW	CW	CW	CW	CW	CW	DW
			Excavation Number:	X45	X45	X48	X49	X62	X73	X35
			Sample Name:	C7-CWM-WW-X45-CW01-5	C7-CWM-WW-X45-CW02-5	C7-CWM-WW-X48-CW01-5	C7-CWM-WW-X49-CW01-3.5	C7-CWM-WW-X62-CW01-4.5	C7-CWM-WW-X73-CW01-7	C7-CWM-WW-X35-DW01-3
			Sample Depth:	5 FT	5 FT	5 FT	3.5 FT	4.5 FT	7 FT	3 FT
			Sample Date:	9/7/2006	9/7/2006	9/8/2006	9/11/2006	9/13/2006	9/18/2006	9/5/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	320	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-TETRACHLOROETHANE	0.055	0.2	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	0.2	1	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHANE	81	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHYLENE	34	0.7	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	0.12	0.6	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROPROPANE	0.16	1	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-BUTANONE	700	50	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-METHYL-2-PENTANONE	200		UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
ACETONE	550	50	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
BENZENE	0.35	10	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CARBON DISULFIDE	100	60	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CARBON TETRACHLORIDE	0.17	0.4	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROBENZENE	11	400	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROFORM	0.017	7	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,2-DICHLOROETHENE	6.1	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3
DICHLORODIFLUOROMETHANE	39	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ETHYLBENZENE	130	17	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ISOPROPYLBENZENE	66	2.6	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
M+P-XYLENE	21		UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
METHYLENE CHLORIDE	4.3	200	UG/L	1.0 U	1 U	1 U	1 U	1 U	1.0 U	1 U
O-XYLENE	21	65	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
STYRENE	160	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TETRACHLOROETHENE	0.1	1	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	**0.36 J**	1.0 U	**0.59 J**
TOLUENE	72	100	UG/L	1.0 U	1.0 U	3.4	1.0 U	1.0 U	5.5	0.56 J
TRANS-1,2-DICHLOROETHENE	12	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,3-DICHLOROPROPENE			UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROETHYLENE	1.4	40	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	0.4 J	1.0 U	**4.8**
VINYL CHLORIDE	0.02	0.3	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
XYLENES (TOTAL)	21		UG/L							
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	0.72	5	UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	CW	CW	CW	CW	CW	CW	DW
			Excavation Number:	X45	X45	X48	X49	X62	X73	X35
			Sample Name:	C7-CWM-WW-X45-CW01-5	C7-CWM-WW-X45-CW02-5	C7-CWM-WW-X48-CW01-5	C7-CWM-WW-X49-CW01-3.5	C7-CWM-WW-X62-CW01-4.5	C7-CWM-WW-X73-CW01-7	C7-CWM-WW-X35-DW01-3
			Sample Depth:	5 FT	5 FT	5 FT	3.5 FT	4.5 FT	7 FT	3 FT
			Sample Date:	9/7/2006	9/7/2006	9/8/2006	9/11/2006	9/13/2006	9/18/2006	9/5/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
1,2-BENZPHENANTHRACENE	9.2	0.002	UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	**0.063 J**	0.21 U
1,2-DICHLOROBENZENE	37	5	UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
1,3-DICHLOROBENZENE	18	5	UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
1,4-DICHLOROBENZENE	0.5	5	UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
2,2'-OXYBIS(1-CHLOROPROPANE)	0.27	5	UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
2,4,5-TRICHLOROPHENOL	360		UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1.0 U	1.1 U	1.0 U
2,4-DICHLOROPHENOL	11	0.3	UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1.0 U	1.1 U	1.0 U
2,4-DIMETHYLPHENOL	73	1000	UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1.0 U	1.1 U	1.0 U
2-CHLOROPHENOL	3		UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1.0 U	1.1 U	1.0 U
2-METHYLNAPHTHALENE	0.62	4.7	UG/L	0.16 J	0.22 U	0.22 U	0.21 U	0.20 U	0.21 U	0.18 J
2-METHYLPHENOL	180		UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1.0 U	1.1 U	1.0 U
4-CHLORO-3-METHYLPHENOL			UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1.0 U	1.1 U	1.0 U
4-METHYLPHENOL	18		UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1.0 U	1.1 U	1.0 U
ACENAPHTHENE	37	5.3	UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.13 J	0.21 U
ACENAPHTHYLENE	37		UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.4	0.21 U
ANTHRACENE	180	3.8	UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
BENZ[A]ANTHRACENE	0.092	0.03	UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	**0.084 J**	0.21 U
BENZO[A]PYRENE	0.0092	0.0012	UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
BENZO[B]FLUORANTHENE	0.092	0.002	UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	**0.053 J**	0.21 U
BENZO[GHI]PERYLENE	18		UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
BENZO[K]FLUORANTHENE	0.92	0.002	UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
BENZYL BUTYL PHTHALATE	730	50	UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
BIS(2-ETHYLHEXYL) PHTHALATE	4.8	0.6	UG/L	**4**	**1**	**0.96 J**	**1.6**	**2.1**	0.21 U	**0.71 J**
CARBAZOLE	3.4		UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
DIBENZ[A,H]ANTHRACENE	0.0092		UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
DIBENZOFURAN	1.2		UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.15 J	0.21 U
DIETHYL PHTHALATE	2900	50	UG/L	0.11 J	0.64	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
DI-N-BUTYL PHTHALATE	360	50	UG/L	0.22 U	0.18 J	0.22 U	0.21 U	0.20 U	0.18 J	0.11 J
DI-N-OCTYL PHTHALATE	150	50	UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
FLUORANTHENE	150	50	UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.92	0.21 U
FLUORENE	24	0.54	UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
HEXACHLORO-1,3-BUTADIENE	0.86	0.01	UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
HEXACHLOROBENZENE	0.042	0.00003	UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	CW	CW	CW	CW	CW	CW	DW
			Excavation Number:	X45	X45	X48	X49	X62	X73	X35
			Sample Name:	C7-CWM-WW-X45-CW01-5	C7-CWM-WW-X45-CW02-5	C7-CWM-WW-X48-CW01-5	C7-CWM-WW-X49-CW01-3.5	C7-CWM-WW-X62-CW01-4.5	C7-CWM-WW-X73-CW01-7	C7-CWM-WW-X35-DW01-3
			Sample Depth:	5 FT	5 FT	5 FT	3.5 FT	4.5 FT	7 FT	3 FT
			Sample Date:	9/7/2006	9/7/2006	9/8/2006	9/11/2006	9/13/2006	9/18/2006	9/5/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
HEXACHLOROCYCLOPENTADIENE	22		UG/L	0.56 U	0.56 U	0.22 U	0.53 U	0.20 U	0.21 U	0.21 U
HEXACHLOROETHANE	3.6	0.6	UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
INDENO[1,2,3-CD]PYRENE	0.092	0.002	UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
ISOPHORONE	71	50	UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
NAPHTHALENE	0.62	13	UG/L	0.37	0.22 U	0.11 J	0.21 U	0.20 U	0.21 U	0.1 J
N-NITROSODI-N-PROPYLAMINE	0.0096		UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
N-NITROSODIPHENYLAMINE	14	50	UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
PENTACHLOROPHENOL	0.56		UG/L	2.8 U	2.8 U	2.7 U	2.6 U	2.6 U	2.6 U	2.6 U
PHENANTHRENE	0.62	5	UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
PHENOL	1100	1	UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1.0 U	1.1 U	1.0 U
PYRENE	18	4.6	UG/L	0.22 U	0.22 U	0.22 U	0.21 U	0.20 U	0.22 J	0.21 U
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDE	0.2	0.000007	UG/L	0.054 U	0.055 U	0.055 U	0.053 U	0.054 U	0.053 U	0.061 U
4,4'-DDT	0.2	0.00001	UG/L	0.054 U	**0.1 J**	**0.067 J**	0.053 U	0.054 U	0.053 U	0.061 U
ALPHA-BHC	0.011	0.002	UG/L	0.054 U	0.055 U	0.055 U	0.053 U	0.054 U	0.053 U	0.061 U
ALPHA-CHLORDANE	0.19		UG/L	0.054 U	0.055 U	0.055 U	0.053 U	0.054 U	0.053 U	0.061 U
AROCLOR 1016	0.26		UG/L	0.54 U	0.55 U	0.55 U	0.53 U	0.54 U	0.53 U	0.61 U
AROCLOR 1260	0.034		UG/L	0.54 U	0.55 U	**1.2 J**	0.53 U	**1.3 J**	0.53 U	0.61 U
BETA-BHC	0.037	0.007	UG/L	0.054 U	0.055 U	0.055 U	0.053 U	0.054 U	0.053 U	0.061 U
DELTA-BHC	0.011	0.008	UG/L	0.054 U	0.055 U	0.055 U	0.053 U	0.054 U	0.053 U	0.061 U
DIELDRIN	0.0042	0.0000006	UG/L	**0.011 J**	**0.058 NJ**	**0.032 J**	**0.04 J**	**0.049 J**	0.053 U	**0.014 J**
ENDOSULFAN I	22		UG/L	0.054 U	0.055 U	0.025 J	0.053 U	0.018 J	0.053 U	0.061 U
ENDOSULFAN II	22		UG/L	0.054 U	0.055 U	0.055 U	0.053 U	0.054 U	0.053 U	0.061 U
ENDOSULFAN SULFATE	22		UG/L	0.054 U	0.055 U	0.055 U	0.053 U	0.054 U	0.053 U	0.061 U
ENDRIN ALDEHYDE	1.1	5	UG/L	0.014 J	0.077 J	0.046 J	0.057 J	0.054 U	0.053 U	0.061 U
GAMMA-BHC	0.052	0.008	UG/L	0.054 U	0.055 U	0.055 U	0.053 U	0.054 U	0.053 U	0.061 U
GAMMA-CHLORDANE	0.19		UG/L	0.054 U	0.055 U	0.055 U	0.053 U	0.054 U	0.053 U	0.061 U
HEPTACHLOR	0.015	0.0002	UG/L	0.054 U	0.055 U	0.055 U	0.053 U	0.054 U	0.053 U	0.061 U
HEPTACHLOR EPOXIDE	0.0074	0.0003	UG/L	0.054 U	**0.037 J**	0.055 U	0.053 U	0.054 U	0.053 U	0.061 U
METHOXYCHLOR	18	0.03	UG/L	0.054 U	0.055 U	0.055 U	0.053 U	**0.15 J**	0.053 U	0.061 U
Explosives (8330)										
1,3-DINITROBENZENE	0.36	5	UG/L	0.31 U	0.21 U	0.21 U	0.22 U	0.22 U	0.20 U	0.22 U
2,4-DINITROTOLUENE	0.099	5	UG/L	0.31 U	0.21 U	0.21 U	0.22 U	0.22 U	0.20 U	0.22 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	CW	CW	CW	CW	CW	CW	DW
			Excavation Number:	X45	X45	X48	X49	X62	X73	X35
			Sample Name:	C7-CWM-WW-X45-CW01-5	C7-CWM-WW-X45-CW02-5	C7-CWM-WW-X48-CW01-5	C7-CWM-WW-X49-CW01-3.5	C7-CWM-WW-X62-CW01-4.5	C7-CWM-WW-X73-CW01-7	C7-CWM-WW-X35-DW01-3
			Sample Depth:	5 FT	5 FT	5 FT	3.5 FT	4.5 FT	7 FT	3 FT
			Sample Date:	9/7/2006	9/7/2006	9/8/2006	9/11/2006	9/13/2006	9/18/2006	9/5/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
2,6-DINITROTOLUENE	0.099	0.07	UG/L	0.31 U	0.21 U	0.21 U	0.22 U	0.22 U	0.20 U	0.22 U
2-AMINO-4,6-DINITROTOLUENE	0.73		UG/L	0.31 U	0.21 U	0.21 U	0.22 U	0.22 U	0.20 U	0.22 U
4-AMINO-2,6-DINITROTOLUENE	0.73		UG/L	0.31 U	0.21 U	0.21 U	0.22 U	0.22 U	0.20 U	0.22 U
4-NITROTOLUENE	0.66	5	UG/L	0.62 U	0.42 U	0.42 U	0.44 U	0.44 U	0.41 U	0.44 U
HMX	180		UG/L	0.62 U	0.42 U	0.42 U	0.44 U	0.44 U	0.41 U	0.44 U
RDX	0.61		UG/L	0.62 U	0.42 U	0.42 U	0.44 U	0.44 U	0.41 U	0.44 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	3600	100	UG/L	**3230**	**1530**	**792**	100 U	58.6 J	**129**	**10400**
ANTIMONY	1.5	3	UG/L	**2.7**	**2.2**	1.4	1.3	0.29 J	**14.7**	**2**
ARSENIC	0.045		UG/L	**1.6 J**	**1.5 J**	**1.6 J**	**1.3 J**	5.0 U	5.0 U	**2.7 J**
BARIUM	260	1000	UG/L	91.9	56.9	135	43.2	94	25.4	104
BERYLLIUM	7.3	3	UG/L	0.18 J	0.055 J	0.036 J	0.20 U	0.20 U	0.20 U	0.48
BORON	730	10000	UG/L	116	64.7	186 J	55.6	263	90.1	395
CADMIUM	1.8	5	UG/L	1	**5.4**	0.58	1.1	0.31 J	0.91	**4.8**
CALCIUM			UG/L	145000	84600	141000	68200	217000	37300	55800
CHROMIUM	11		UG/L	3.8	3.1	2 U	2.0 U	**286**	2.0 U	**23.2**
COBALT	73	5	UG/L	2.8	2	1.1	1 U	1.0 U	1 U	**7**
COPPER	150	200	UG/L	9.8	20.2	16.2	13.4	13.7	7	44.5
IRON	1100	300	UG/L	**4060**	**1900**	**2380**	211	107	**7250**	**22900**
LEAD	15		UG/L	**37.5**	7.3	2.7	7.8	0.56 J	**15**	**42.1**
LITHIUM	73		UG/L	11.5	5.7	3.4	7.2	13.3	70.6	28.7
MAGNESIUM		35000	UG/L	27800	12500	23300	7720	**47000**	4540	8410
MANGANESE	88	300	UG/L	**255**	**152**	**843**	71.3	5.7	**162**	**521**
MERCURY	1.1		UG/L	.2 U	0.099 J	0.20 U	0.20 U	0.20 U	.2 U	0.2 U
MOLYBDENUM	18		UG/L	5 U	5 U	5 U	5 U	**26.5**	2.4 J	1.6 J
NICKEL	73		UG/L	8.3	5.7	4.3	2.9	1.9	1.8	30.4
POTASSIUM			UG/L	4460	4720	5080	6050	4150	8150	6940
SELENIUM	18		UG/L	5 U	5 U	5.0 U	5.0 U	2 J	5.0 U	5.0 U
SILVER	18	0.1	UG/L	0.039 J	0.034 J	0.30 U	0.30 U	0.30 U	0.30 U	0.053 J
SODIUM			UG/L	18800	1990	5780	15400	350000	1980	3090
THALLIUM	0.24	8	UG/L	2 U	2 U	2.0 U	2 U	0.074 J	2.0 U	2 U
VANADIUM	3.6	14	UG/L	**6.3 J**	**4.5 J**	**3.6 J**	10 U	10 U	2.8 J	**21.4**
ZINC	1100		UG/L	171	118	97.5	**2610**	51.8	13.4	222

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	CW	CW	CW	CW	CW	CW	DW
			Excavation Number:	X45	X45	X48	X49	X62	X73	X35
			Sample Name:	C7-CWM-WW-X45-CW01-5	C7-CWM-WW-X45-CW02-5	C7-CWM-WW-X48-CW01-5	C7-CWM-WW-X49-CW01-3.5	C7-CWM-WW-X62-CW01-4.5	C7-CWM-WW-X73-CW01-7	C7-CWM-WW-X35-DW01-3
			Sample Depth:	5 FT	5 FT	5 FT	3.5 FT	4.5 FT	7 FT	3 FT
			Sample Date:	9/7/2006	9/7/2006	9/8/2006	9/11/2006	9/13/2006	9/18/2006	9/5/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
General Chemistry										
CYANIDE	73	5.2	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Crit1: U.S. EPA Region 9 PRG Tap Water, 2004

Crit2: New York State TOG Surface Water, 1998

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	DW	DW	SN	SN	SN	SN	SN
			Excavation Number:	X116	X116			X02	X03	X04
			Sample Name:	C7-CWM-WW-X116-DW01-6	C7-CWM-WW-DUP9	C1-10-WW-BP6	C7-CWM-WW-AC2	C7-CWM-WW-X02-SN01-7	C7-CWM-WW-X03-SN01-4.5	C7-CWM-WW-X04-SN01-4
			Sample Depth:	6 FT	6 FT	FT		7 FT	4.5 FT	4 FT
			Sample Date:	10/10/2006	10/10/2006	9/25/2000	7/22/1998	8/21/2006	8/21/2006	8/21/2006
			Parent Name:		C7-CWM-WW-X116-DW01-6					
Analyte	**Crit1**	**Crit2**	**Unit**							
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	320	5	UG/L	1.0 U	1.0 U	0.3 U		1.0 U	1.0 U	1.0 U
1,1,2,2-TETRACHLOROETHANE	0.055	0.2	UG/L	1.0 U	1.0 U	0.4 U		1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	0.2	1	UG/L	1.0 U	1.0 U	0.4 U		1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHANE	81	5	UG/L	1.0 U	1.0 U	0.4 U		1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHYLENE	34	0.7	UG/L	1.0 U	1.0 U	0.4 U		1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	0.12	0.6	UG/L	1.0 U	1.0 U	0.3 U		1.0 U	1.0 U	1.0 U
1,2-DICHLOROPROPANE	0.16	1	UG/L	1.0 U	1.0 U	0.3 U		1.0 U	1.0 U	1.0 U
2-BUTANONE	700	50	UG/L	5.0 U	5.0 U	0.9 U		5.0 U	5.0 U	5.0 U
4-METHYL-2-PENTANONE	200		UG/L	5.0 U	5.0 U	0.8 U		5.0 U	5.0 U	5.0 U
ACETONE	550	50	UG/L	5.0 U	5.0 U	1 U		5.0 U	5.0 U	5.0 U
BENZENE	0.35	10	UG/L	1.0 U	1.0 U	0.3 U		1.0 U	1.0 U	1.0 U
CARBON DISULFIDE	100	60	UG/L	1.0 U	1.0 U	0.3 U		1.0 U	1.0 U	1.0 U
CARBON TETRACHLORIDE	0.17	0.4	UG/L	1.0 U	1.0 U	0.4 U		1.0 U	1.0 U	1.0 U
CHLOROBENZENE	11	400	UG/L	1.0 U	1.0 U	0.3 U		1.0 U	1.0 U	1.0 U
CHLOROFORM	0.017	7	UG/L	1.0 U	1.0 U	0.3 U		1.0 U	1.0 U	1.0 U
CIS-1,2-DICHLOROETHENE	6.1	5	UG/L	1.0 U	1.0 U	0.3 U		1.0 U	1.0 U	1.0 U
DICHLORODIFLUOROMETHANE	39	5	UG/L	1.0 U	1.0 U			1.0 U	1.0 U	1.0 U
ETHYLBENZENE	130	17	UG/L	1.0 U	1.0 U	0.3 U		1.0 U	1.0 U	1.0 U
ISOPROPYLBENZENE	66	2.6	UG/L					1.0 U	1.0 U	1.0 U
M+P-XYLENE	21		UG/L	1.0 U	1.0 U			1.0 U	1.0 U	1.0 U
METHYLENE CHLORIDE	4.3	200	UG/L	1.0 U	1.0 U	0.5 U		1.0 U	1.0 U	1.0 U
O-XYLENE	21	65	UG/L	1.0 U	1.0 U			1.0 U	1.0 U	1.0 U
STYRENE	160	5	UG/L	1.0 U	1.0 U	0.3 U		1.0 U	1.0 U	1.0 U
TETRACHLOROETHENE	0.1	1	UG/L	1.0 U	1.0 U	0.5 U		1.0 U	1.0 U	1.0 U
TOLUENE	72	100	UG/L	1.0 U	1.0 U	0.3 U		1.0 U	1.0 U	1.0 U
TRANS-1,2-DICHLOROETHENE	12	5	UG/L	1.0 U	1.0 U	0.3 U		1.0 U	1.0 U	1.0 U
TRANS-1,3-DICHLOROPROPENE			UG/L	1.0 U	1.0 U	0.3 U		1.0 U	1.0 U	1.0 U
TRICHLOROETHYLENE	1.4	40	UG/L	1.0 U	1.0 U	0.3 U		1.0 U	1.0 U	1.0 U
VINYL CHLORIDE	0.02	0.3	UG/L	1.0 U	1.0 U	0.4 U		1.0 U	1.0 U	1.0 U
XYLENES (TOTAL)	21		UG/L			0.5 U				
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	0.72	5	UG/L	0.23 U	0.23 U	1.9 U		0.21 U	0.21 U	0.21 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	DW	DW	SN	SN	SN	SN	SN
			Excavation Number:	X116	X116			X02	X03	X04
			Sample Name:	C7-CWM-WW-X116-DW01-6	C7-CWM-WW-DUP9	C1-10-WW-BP6	C7-CWM-WW-AC2	C7-CWM-WW-X02-SN01-7	C7-CWM-WW-X03-SN01-4.5	C7-CWM-WW-X04-SN01-4
			Sample Depth:	6 FT	6 FT	FT		7 FT	4.5 FT	4 FT
			Sample Date:	10/10/2006	10/10/2006	9/25/2000	7/22/1998	8/21/2006	8/21/2006	8/21/2006
			Parent Name:		C7-CWM-WW-X116-DW01-6					
Analyte	**Crit1**	**Crit2**	**Unit**							
1,2-BENZPHENANTHRACENE	9.2	0.002	UG/L	0.23 U	**1.4**	0.031 U		**1.1 J**	0.21 U	0.21 U
1,2-DICHLOROBENZENE	37	5	UG/L	0.23 U	0.23 U	1.9 U		0.21 U	0.21 U	0.21 U
1,3-DICHLOROBENZENE	18	5	UG/L	0.23 U	0.23 U	1.9 U		0.21 U	0.21 U	0.21 U
1,4-DICHLOROBENZENE	0.5	5	UG/L	0.21 J	0.16 J	1.9 U		0.21 U	0.21 U	0.21 U
2,2'-OXYBIS(1-CHLOROPROPANE)	0.27	5	UG/L	0.23 U	0.23 U	0.96 U		0.21 U	0.21 U	0.21 U
2,4,5-TRICHLOROPHENOL	360		UG/L	1.1 U	1.1 U	2.9 U		1.1 U	1.0 U	1.1 U
2,4-DICHLOROPHENOL	11	0.3	UG/L	1.1 U	1.1 U	1.9 U		1.1 U	1.0 U	1.1 U
2,4-DIMETHYLPHENOL	73	1000	UG/L	1.1 U	1.1 U	3.8 U		1.1 U	1.0 U	1.1 U
2-CHLOROPHENOL	3		UG/L	1.1 U	1.1 U	0.96 U		1.1 U	1.0 U	1.1 U
2-METHYLNAPHTHALENE	0.62	4.7	UG/L	0.23 U	0.23 U			0.21 U	0.21 U	0.21 U
2-METHYLPHENOL	180		UG/L	1.1 U	1.1 U	1.9 U		1.1 U	1.0 U	1.1 U
4-CHLORO-3-METHYLPHENOL			UG/L	1.1 U	1.1 U	0.96 U		1.1 U	1.0 U	1.1 U
4-METHYLPHENOL	18		UG/L	1.1 U	1.1 U	1.9 U		1.1 U	1.0 U	1.1 U
ACENAPHTHENE	37	5.3	UG/L	0.23 U	0.23 U	0.43 U		0.21 U	0.21 U	0.21 U
ACENAPHTHYLENE	37		UG/L	0.23 U	0.23 U	0.69 U		0.27 J	0.21 U	0.21 U
ANTHRACENE	180	3.8	UG/L	0.23 U	0.52	0.038 U		0.34 J	0.21 U	0.21 U
BENZ[A]ANTHRACENE	0.092	0.03	UG/L	**0.069 J**	**2.1**	0.051 U		**1.8 J**	0.21 U	**0.11 J**
BENZO[A]PYRENE	0.0092	0.0012	UG/L	0.23 U	**1.1**	0.035 U		**0.85**	0.21 U	0.21 U
BENZO[B]FLUORANTHENE	0.092	0.002	UG/L	**0.069 J**	**1.6**	0.077 U		**1.3 J**	0.21 U	0.21 U
BENZO[GHI]PERYLENE	18		UG/L	0.23 U	0.55	0.083 U		0.36	0.21 U	0.21 U
BENZO[K]FLUORANTHENE	0.92	0.002	UG/L	0.23 U	**0.61 J**	0.05 U		**0.49**	0.21 U	0.21 U
BENZYL BUTYL PHTHALATE	730	50	UG/L	0.23 U	0.23 U	1.9 U		0.21 U	0.21 U	0.21 U
BIS(2-ETHYLHEXYL) PHTHALATE	4.8	0.6	UG/L	**0.96**	**1.4**	1.9 U		**13**	**1.3**	**6.2**
CARBAZOLE	3.4		UG/L	0.23 U	0.39	2.9 U		0.21 U	0.21 U	0.21 U
DIBENZ[A,H]ANTHRACENE	0.0092		UG/L	0.23 U	**0.13 J**	0.074 U		**0.15 J**	0.21 U	0.21 U
DIBENZOFURAN	1.2		UG/L	0.23 U	0.23 U	1.9 U		0.21 U	0.21 U	0.21 U
DIETHYL PHTHALATE	2900	50	UG/L	0.23 U	0.23 U	2.9 U		0.14 J	0.14 J	0.33 J
DI-N-BUTYL PHTHALATE	360	50	UG/L	0.23 J	0.15 J	3.8 U		0.21 U	0.21 U	0.21 U
DI-N-OCTYL PHTHALATE	150	50	UG/L	0.23 U	0.23 U	2.9 U		0.21 U	0.21 U	0.21 U
FLUORANTHENE	150	50	UG/L	0.2 J	4.4	0.095 U		3.1 J	0.083 J	0.21 J
FLUORENE	24	0.54	UG/L	0.23 U	0.23 U	0.092 U		0.21 U	0.21 U	0.21 U
HEXACHLORO-1,3-BUTADIENE	0.86	0.01	UG/L	0.23 U	0.23 U	1.9 U		0.21 U	0.21 U	0.21 U
HEXACHLOROBENZENE	0.042	0.00003	UG/L	0.23 U	0.23 U	2.9 U		0.21 U	0.21 U	0.21 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	DW	DW	SN	SN	SN	SN	SN
			Excavation Number:	X116	X116			X02	X03	X04
			Sample Name:	C7-CWM-WW-X116-DW01-6	C7-CWM-WW-DUP9	C1-10-WW-BP6	C7-CWM-WW-AC2	C7-CWM-WW-X02-SN01-7	C7-CWM-WW-X03-SN01-4.5	C7-CWM-WW-X04-SN01-4
			Sample Depth:	6 FT	6 FT	FT		7 FT	4.5 FT	4 FT
			Sample Date:	10/10/2006	10/10/2006	9/25/2000	7/22/1998	8/21/2006	8/21/2006	8/21/2006
			Parent Name:		C7-CWM-WW-X116-DW01-6					
Analyte	**Crit1**	**Crit2**	**Unit**							
HEXACHLOROCYCLOPENTADIENE	22		UG/L	0.58 U	0.56 U	3.8 U		0.21 U	0.21 U	0.21 U
HEXACHLOROETHANE	3.6	0.6	UG/L	0.23 U	0.23 U	1.9 U		0.21 U	0.21 U	0.21 U
INDENO[1,2,3-CD]PYRENE	0.092	0.002	UG/L	0.23 U	**0.57**	0.061 U		**0.41**	0.21 U	0.21 U
ISOPHORONE	71	50	UG/L	0.23 U	0.23 U	1.9 U		0.21 U	0.21 U	0.21 U
NAPHTHALENE	0.62	13	UG/L	0.23 U	0.23 U	0.25 U		0.21 U	0.21 U	0.21 U
N-NITROSODI-N-PROPYLAMINE	0.0096		UG/L	0.23 U	0.23 U	3.8 U		0.21 U	0.21 U	0.21 U
N-NITROSODIPHENYLAMINE	14	50	UG/L	0.23 U	0.23 U	3.8 U		0.21 U	0.21 U	0.21 U
PENTACHLOROPHENOL	0.56		UG/L	2.9 U	2.8 U	1.9 U		1.1 U	1.0 U	1.1 U
PHENANTHRENE	0.62	5	UG/L	0.092 J	**1.8**	0.052 U		**1.5 J**	0.21 U	0.13 J
PHENOL	1100	1	UG/L	1.1 U	1.1 U	1.9 U		1.1 U	1.0 U	1.1 U
PYRENE	18	4.6	UG/L	0.18 J	3.8	0.076 U		2.2 J	0.073 J	0.15 J
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDE	0.2	0.000007	UG/L	**0.02 J**	**0.018 J**	0.023 U		0.051 U	0.053 U	0.053 U
4,4'-DDT	0.2	0.00001	UG/L	0.057 U	0.056 U	0.019 U		0.051 U	0.053 U	0.053 U
ALPHA-BHC	0.011	0.002	UG/L	0.057 U	0.056 U	0.0095 U		0.051 U	0.053 U	0.053 U
ALPHA-CHLORDANE	0.19		UG/L	0.057 U	0.056 U	0.015 U		0.051 U	0.053 U	0.053 U
AROCLOR 1016	0.26		UG/L	0.58 U	0.56 U	0.31 U		0.51 U	0.53 U	0.53 U
AROCLOR 1260	0.034		UG/L	0.58 U	0.56 U	0.39 U		0.51 U	0.53 U	0.53 U
BETA-BHC	0.037	0.007	UG/L	0.057 U	0.056 U	0.01 U		0.051 U	0.053 U	0.053 U
DELTA-BHC	0.011	0.008	UG/L	0.057 U	0.056 U	0.011 U		0.051 U	0.053 U	0.053 U
DIELDRIN	0.0042	0.0000006	UG/L	0.057 U	0.056 U	0.0095 U		0.051 U	0.053 U	0.053 U
ENDOSULFAN I	22		UG/L	0.057 U	0.056 U	0.018 U		0.051 U	0.053 U	0.053 U
ENDOSULFAN II	22		UG/L	0.057 U	0.056 U	0.023 U		0.051 U	0.053 U	0.053 U
ENDOSULFAN SULFATE	22		UG/L	0.057 U	0.056 U	0.028 U		0.051 U	0.053 U	0.053 U
ENDRIN ALDEHYDE	1.1	5	UG/L	0.057 U	0.056 U	0.03 U		0.051 U	0.053 U	0.053 U
GAMMA-BHC	0.052	0.008	UG/L	0.057 U	0.056 U	0.0077 U		0.051 U	0.053 U	0.053 U
GAMMA-CHLORDANE	0.19		UG/L	0.057 U	0.056 U	0.016 U		0.051 U	0.053 U	0.053 U
HEPTACHLOR	0.015	0.0002	UG/L	0.057 U	0.056 U	0.022 U		0.051 U	0.053 U	0.053 U
HEPTACHLOR EPOXIDE	0.0074	0.0003	UG/L	0.057 U	0.056 U	0.018 U		**0.23**	**0.21 J**	**0.19**
METHOXYCHLOR	18	0.03	UG/L	0.057 U	0.056 U	0.081 U		0.051 U	0.053 U	0.053 U
Explosives (8330)										
1,3-DINITROBENZENE	0.36	5	UG/L	0.21 U	0.20 U	0.11 U	0.17 U	0.21 U	0.24 U	0.21 U
2,4-DINITROTOLUENE	0.099	5	UG/L	0.21 U	0.20 U	0.12 U	0.07 U	0.21 U	0.24 U	0.21 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	DW	DW	SN	SN	SN	SN	SN
			Excavation Number:	X116	X116			X02	X03	X04
			Sample Name:	C7-CWM-WW-X116-DW01-6	C7-CWM-WW-DUP9	C1-10-WW-BP6	C7-CWM-WW-AC2	C7-CWM-WW-X02-SN01-7	C7-CWM-WW-X03-SN01-4.5	C7-CWM-WW-X04-SN01-4
			Sample Depth:	6 FT	6 FT	FT		7 FT	4.5 FT	4 FT
			Sample Date:	10/10/2006	10/10/2006	9/25/2000	7/22/1998	8/21/2006	8/21/2006	8/21/2006
			Parent Name:		C7-CWM-WW-X116-DW01-6					
Analyte	**Crit1**	**Crit2**	**Unit**							
2,6-DINITROTOLUENE	0.099	0.07	UG/L	0.21 U	0.20 U	0.24 U	0.14 U	0.21 U	0.24 U	0.21 U
2-AMINO-4,6-DINITROTOLUENE	0.73		UG/L	0.21 U	0.20 U	0.15 U	0.14 U	0.21 U	0.24 U	0.21 U
4-AMINO-2,6-DINITROTOLUENE	0.73		UG/L	0.21 U	0.20 U	0.18 U	0.2 U	0.21 U	0.24 U	0.21 U
4-NITROTOLUENE	0.66	5	UG/L	0.42 U	0.41 U	0.21 U	0.16 U	0.42 U	0.47 U	0.42 U
HMX	180		UG/L	0.42 U	0.41 U	0.12 U	0.09 U	0.42 U	0.47 U	0.42 U
RDX	0.61		UG/L	0.42 U	0.41 U	0.12 U	**13**	0.42 U	0.47 U	0.42 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	3600	100	UG/L	**193**	**102**			**8850 J**	**592 J**	**2820 J**
ANTIMONY	1.5	3	UG/L	0.2 J	1.0 U			0.5 J	1 U	0.18 J
ARSENIC	0.045		UG/L	5.0 U	5.0 U			**3.1 J**	5 U	**2.2 J**
BARIUM	260	1000	UG/L	66	64.7			205	90	124
BERYLLIUM	7.3	3	UG/L	0.20 U	0.20 U			0.4	0.042 J	0.12 J
BORON	730	10000	UG/L	67.9	67.2		**796**	58.7	42.1	47.5
CADMIUM	1.8	5	UG/L	0.50 U	0.50 U			0.23 J	.5 U	.5 U
CALCIUM			UG/L	162000	162000			144000	96000	105000
CHROMIUM	11		UG/L	2.0 U	2.0 U			**24**	2.3	2.7
COBALT	73	5	UG/L	0.8 J	0.66 J			**5**	1 U	2.4
COPPER	150	200	UG/L	3.9	3.3			23.3	5.7	8.1
IRON	1100	300	UG/L	**3590**	**3250**			**14800**	**1210**	**6270**
LEAD	15		UG/L	0.54 J	0.41 J			6.3	6.6	2.2
LITHIUM	73		UG/L	5.1	5		3.7 J	14.1	6.2	9.3
MAGNESIUM		35000	UG/L	28200	28300			34400	21100	28500
MANGANESE	88	300	UG/L	**546**	**545**			**1260**	**290**	**1740**
MERCURY	1.1		UG/L	0.043 J	0.057 J			.2 U	.2 U	.2 U
MOLYBDENUM	18		UG/L	0.59 J	5 U			6.1	5 U	5 U
NICKEL	73		UG/L	3	2.8			11.6	1.8	5.1
POTASSIUM			UG/L	8710	8730			2170	1760	1570
SELENIUM	18		UG/L	5.0 U	5.0 U			5 U	5 U	5 U
SILVER	18	0.1	UG/L	0.30 U	0.30 U			0.05 J	0.055 J	0.042 J
SODIUM			UG/L	9560	9640			39300	18500	11500
THALLIUM	0.24	8	UG/L	2.0 U	2 U			2 U	**2 U**	2 U
VANADIUM	3.6	14	UG/L	10 U	10 U			**19.3**	3.1 J	**7 J**
ZINC	1100		UG/L	18 J	20.9 J			39.9 J	140 J	31.3 J

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	DW	DW	SN	SN	SN	SN	SN
			Excavation Number:	X116	X116			X02	X03	X04
			Sample Name:	C7-CWM-WW-X116-DW01-6	C7-CWM-WW-DUP9	C1-10-WW-BP6	C7-CWM-WW-AC2	C7-CWM-WW-X02-SN01-7	C7-CWM-WW-X03-SN01-4.5	C7-CWM-WW-X04-SN01-4
			Sample Depth:	6 FT	6 FT	FT		7 FT	4.5 FT	4 FT
			Sample Date:	10/10/2006	10/10/2006	9/25/2000	7/22/1998	8/21/2006	8/21/2006	8/21/2006
			Parent Name:		C7-CWM-WW-X116-DW01-6					
Analyte	**Crit1**	**Crit2**	**Unit**							
General Chemistry										
CYANIDE	73	5.2	UG/L	5.0 U	5.0 U	3 J		5.0 U	5.0 U	5.0 U

Crit1: U.S. EPA Region 9 PRG Tap Water, 2004
Crit2: New York State TOG Surface Water, 1998
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	SN	SN	SN	SN
			Excavation Number:	X14	X27	X41	X64	X65	X66	X86
			Sample Name:	C7-CWM-WW-X14-SN01-8	C7-CWM-WW-X27-SN01-7	C7-CWM-WW-X41-SN01-6	C7-CWM-WW-X64-SN01-12	C7-CWM-WW-X65-SN01-12	C7-CWM-WW-X66-SN01-5	C7-CWM-WW-X86-SN01-6
			Sample Depth:	8 FT	7 FT	6 FT	12 FT	12 FT	5 FT	6 FT
			Sample Date:	8/24/2006	8/30/2006	9/6/2006	9/14/2006	9/14/2006	9/14/2006	9/22/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	320	5	UG/L	1.0 U	1.0 U	**200**	1.0 U	1.0 U	1.0 U	**24**
1,1,2,2-TETRACHLOROETHANE	0.055	0.2	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	0.2	1	UG/L	1.0 U	1.0 U	**1.7**	1.0 U	1.0 U	1.0 U	**1.2**
1,1-DICHLOROETHANE	81	5	UG/L	1.0 U	1.0 U	**89**	1.0 U	1.0 U	1.0 U	**7**
1,1-DICHLOROETHYLENE	34	0.7	UG/L	1.0 U	1.0 U	**9.8**	1.0 U	1.0 U	1.0 U	**0.9 J**
1,2-DICHLOROETHANE	0.12	0.6	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROPROPANE	0.16	1	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-BUTANONE	700	50	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-METHYL-2-PENTANONE	200		UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
ACETONE	550	50	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
BENZENE	0.35	10	UG/L	1.0 U	1.0 U	**0.96 J**	1.0 U	1.0 U	1.0 U	**1.1**
CARBON DISULFIDE	100	60	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CARBON TETRACHLORIDE	0.17	0.4	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2**
CHLOROBENZENE	11	400	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.9
CHLOROFORM	0.017	7	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**33 J**
CIS-1,2-DICHLOROETHENE	6.1	5	UG/L	1.0 U	1.0 U	**44**	1.1	0.41 J	1.0 U	**100**
DICHLORODIFLUOROMETHANE	39	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ETHYLBENZENE	130	17	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ISOPROPYLBENZENE	66	2.6	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**19**
M+P-XYLENE	21		UG/L	1.0 U	1.0 U	2.8	1.0 U	1.0 U	1.0 U	0.88 J
METHYLENE CHLORIDE	4.3	200	UG/L	1 U	1 U	1 U	1.0 U	0.6 J	0.59 J	1.0 U
O-XYLENE	21	65	UG/L	1.0 U	1.0 U	1.4	1.0 U	1.0 U	1.0 U	0.95 J
STYRENE	160	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TETRACHLOROETHENE	0.1	1	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**13**
TOLUENE	72	100	UG/L	1.0 U	1.0 U	3.9 J	1.0 U	1.0 U	1.0 U	4.7
TRANS-1,2-DICHLOROETHENE	12	5	UG/L	1.0 U	1.0 U	1.6	1.0 U	1.0 U	1.0 U	0.67 J
TRANS-1,3-DICHLOROPROPENE			UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROETHYLENE	1.4	40	UG/L	1.0 U	1.0 U	**13**	0.56 J	0.84 J	1.0 U	**19**
VINYL CHLORIDE	0.02	0.3	UG/L	1.0 U	1.0 U	**0.6 J**	1.0 U	1.0 U	1.0 U	**6.4**
XYLENES (TOTAL)	21		UG/L						1.0 U	
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	0.72	5	UG/L	0.21 U	0.20 U	**3.6**	0.22 U	0.14 J	0.23 U	**7**

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	SN	SN	SN	SN
			Excavation Number:	X14	X27	X41	X64	X65	X66	X86
			Sample Name:	C7-CWM-WW-X14-SN01-8	C7-CWM-WW-X27-SN01-7	C7-CWM-WW-X41-SN01-6	C7-CWM-WW-X64-SN01-12	C7-CWM-WW-X65-SN01-12	C7-CWM-WW-X66-SN01-5	C7-CWM-WW-X86-SN01-6
			Sample Depth:	8 FT	7 FT	6 FT	12 FT	12 FT	5 FT	6 FT
			Sample Date:	8/24/2006	8/30/2006	9/6/2006	9/14/2006	9/14/2006	9/14/2006	9/22/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
1,2-BENZPHENANTHRACENE	9.2	0.002	UG/L	0.21 U	0.20 U	0.25 U	0.22 U	0.21 U	0.23 U	0.22 U
1,2-DICHLOROBENZENE	37	5	UG/L	0.21 U	0.20 U	0.25 U	0.22 U	0.21 U	0.23 U	**6.4**
1,3-DICHLOROBENZENE	18	5	UG/L	0.21 U	0.20 U	0.99	0.22 U	0.21 U	0.23 U	0.64
1,4-DICHLOROBENZENE	0.5	5	UG/L	0.21 U	0.20 U	0.19 J	0.22 U	0.21 U	0.23 U	**7.5**
2,2'-OXYBIS(1-CHLOROPROPANE)	0.27	5	UG/L	0.21 U	0.20 U	0.25 U	0.22 U	0.21 U	0.23 U	0.22 U
2,4,5-TRICHLOROPHENOL	360		UG/L	1.1 U	1.0 U	1.3 U	1.1 U	1.1 U	1.1 U	1.1 U
2,4-DICHLOROPHENOL	11	0.3	UG/L	1.1 U	1.0 U	1.3 U	1.1 U	1.1 U	1.1 U	1.1 U
2,4-DIMETHYLPHENOL	73	1000	UG/L	1.1 U	1.0 U	1.3 U	1.1 U	1.1 U	1.1 U	1.1 U
2-CHLOROPHENOL	3		UG/L	1.1 U	1.0 U	1.3 U	1.1 U	1.1 U	1.1 U	1.1 U
2-METHYLNAPHTHALENE	0.62	4.7	UG/L	0.21 U	0.20 U	0.25 U	0.22 U	0.21 U	0.23 U	0.22 U
2-METHYLPHENOL	180		UG/L	1.1 U	1.0 U	1.3 U	1.1 U	1.1 U	1.1 U	1.1 U
4-CHLORO-3-METHYLPHENOL			UG/L	1.1 U	1.0 U	1.3 U	1.1 U	1.1 U	1.1 U	1.1 U
4-METHYLPHENOL	18		UG/L	0.21 U	1.0 U	1.3 U	1.1 U	1.1 U	1.1 U	1.1 U
ACENAPHTHENE	37	5.3	UG/L	0.21 U	0.12 J	0.25 U	0.22 U	0.12 J	0.23 U	0.22 U
ACENAPHTHYLENE	37		UG/L	0.21 U	0.20 U	0.25 U	0.22 U	0.21 U	0.23 U	0.22 U
ANTHRACENE	180	3.8	UG/L	0.21 U	0.20 U	0.25 U	0.22 U	0.21 U	0.23 U	0.22 U
BENZ[A]ANTHRACENE	0.092	0.03	UG/L	0.21 U	0.20 U	0.25 U	0.22 U	0.21 U	0.23 U	0.22 U
BENZO[A]PYRENE	0.0092	0.0012	UG/L	0.21 U	0.20 U	0.25 U	0.22 U	0.21 U	0.23 U	0.22 U
BENZO[B]FLUORANTHENE	0.092	0.002	UG/L	0.21 U	0.20 U	0.25 U	0.22 U	0.21 U	0.23 U	0.22 U
BENZO[GHI]PERYLENE	18		UG/L	0.21 U	0.20 U	0.25 U	0.22 U	0.21 U	0.23 U	0.22 U
BENZO[K]FLUORANTHENE	0.92	0.002	UG/L	0.21 U	0.20 U	0.25 U	0.22 U	0.21 U	0.23 U	0.22 U
BENZYL BUTYL PHTHALATE	730	50	UG/L	0.21 U	0.20 U	0.25 U	0.22 U	0.21 U	0.23 U	0.22 U
BIS(2-ETHYLHEXYL) PHTHALATE	4.8	0.6	UG/L	**1.7**	**1.2**	**7.4**	**3**	**1.6**	**5.2**	**1.7**
CARBAZOLE	3.4		UG/L	0.21 U	0.38	0.25 U	0.22 U	0.21 U	0.23 U	0.22 U
DIBENZ[A,H]ANTHRACENE	0.0092		UG/L	0.21 U	0.20 U	0.25 U	0.22 U	0.21 U	0.23 U	0.22 U
DIBENZOFURAN	1.2		UG/L	0.21 U	0.2 J	0.25 U	0.22 U	0.21 U	0.23 U	0.22 U
DIETHYL PHTHALATE	2900	50	UG/L	0.19 J	0.20 U	0.25 U	0.22 J	0.27	0.17 J	0.22 U
DI-N-BUTYL PHTHALATE	360	50	UG/L	0.21 U	0.23	0.25 U	5.5	7.7	5.8	0.22 U
DI-N-OCTYL PHTHALATE	150	50	UG/L	0.21 U	0.20 U	0.25 U	0.22 U	0.21 U	0.23 U	0.22 U
FLUORANTHENE	150	50	UG/L	0.2 J	0.34 J	0.25 U	0.22 U	0.21 U	0.23 U	0.22 U
FLUORENE	24	0.54	UG/L	0.21 U	0.23	0.25 U	0.22 U	0.11 J	0.23 U	0.22 U
HEXACHLORO-1,3-BUTADIENE	0.86	0.01	UG/L	0.21 U	0.20 U	0.25 U	0.22 U	0.21 U	0.23 U	0.22 U
HEXACHLOROBENZENE	0.042	0.00003	UG/L	0.21 U	0.20 U	**0.25 J**	0.22 U	0.21 U	0.23 U	**0.92**

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	SN	SN	SN	SN
			Excavation Number:	X14	X27	X41	X64	X65	X66	X86
			Sample Name:	C7-CWM-WW-X14-SN01-8	C7-CWM-WW-X27-SN01-7	C7-CWM-WW-X41-SN01-6	C7-CWM-WW-X64-SN01-12	C7-CWM-WW-X65-SN01-12	C7-CWM-WW-X66-SN01-5	C7-CWM-WW-X86-SN01-6
			Sample Depth:	8 FT	7 FT	6 FT	12 FT	12 FT	5 FT	6 FT
			Sample Date:	8/24/2006	8/30/2006	9/6/2006	9/14/2006	9/14/2006	9/14/2006	9/22/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
HEXACHLOROCYCLOPENTADIENE	22		UG/L	0.21 U	0.20 U	0.25 U	0.22 U	0.21 U	0.23 U	0.22 U
HEXACHLOROETHANE	3.6	0.6	UG/L	0.21 U	0.20 U	0.25 U	0.22 U	0.21 U	0.23 U	0.22 U
INDENO[1,2,3-CD]PYRENE	0.092	0.002	UG/L	0.21 U	0.20 U	0.25 U	0.22 U	0.21 U	0.23 U	0.22 U
ISOPHORONE	71	50	UG/L	0.21 U	0.20 U	0.25 U	0.22 U	0.21 U	0.23 U	0.22 U
NAPHTHALENE	0.62	13	UG/L	0.21 U	0.20 U	0.24 J	0.22 U	0.21 U	0.23 U	0.22 U
N-NITROSODI-N-PROPYLAMINE	0.0096		UG/L	0.21 U	0.20 U	0.25 U	0.22 U	0.21 U	0.23 U	0.22 U
N-NITROSODIPHENYLAMINE	14	50	UG/L	0.21 U	0.20 U	0.25 U	0.22 U	0.21 U	0.23 U	0.22 U
PENTACHLOROPHENOL	0.56		UG/L	1.1 U	2.6 U	3.1 U	1.1 U	2.7 U	2.8 U	2.8 U
PHENANTHRENE	0.62	5	UG/L	0.096 J	0.20 U	0.25 U	0.22 U	0.21 U	0.23 U	0.066 J
PHENOL	1100	1	UG/L	1.1 U	1.0 U	**1.7 J**	1.1 U	1.1 U	1.1 U	1.1 U
PYRENE	18	4.6	UG/L	0.14 J	0.21 J	0.25 U	0.22 U	0.21 U	0.23 U	0.22 U
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDE	0.2	0.000007	UG/L	0.052 U	0.053 U	0.064 U	0.28 U	0.53 U	0.059 U	0.056 U
4,4'-DDT	0.2	0.00001	UG/L	0.052 U	0.053 U	0.064 U	0.28 U	0.53 U	0.059 U	0.056 U
ALPHA-BHC	0.011	0.002	UG/L	0.052 U	0.053 U	0.064 U	0.28 U	0.53 U	0.059 U	**0.5 J**
ALPHA-CHLORDANE	0.19		UG/L	0.052 U	0.053 U	0.064 U	0.28 U	0.53 U	0.059 U	0.056 U
AROCLOR 1016	0.26		UG/L	0.52 U	0.53 U	6.4 U	0.56 U	0.53 U	0.59 U	0.56 U
AROCLOR 1260	0.034		UG/L	0.52 U	0.53 U	**110**	0.56 U	0.53 U	0.59 U	0.56 U
BETA-BHC	0.037	0.007	UG/L	0.052 U	0.053 U	0.064 U	0.28 U	0.53 U	0.059 U	0.056 U
DELTA-BHC	0.011	0.008	UG/L	0.052 U	0.053 U	0.064 U	0.28 U	0.53 U	0.059 U	**0.82**
DIELDRIN	0.0042	0.0000006	UG/L	0.052 U	0.053 U	0.064 U	0.28 U	0.53 U	0.059 U	0.056 U
ENDOSULFAN I	22		UG/L	0.052 U	0.053 U	0.064 U	4.9 J	9.8 J	0.67 J	0.056 U
ENDOSULFAN II	22		UG/L	0.052 U	0.053 U	0.064 U	0.32 J	0.78 J	0.042 J	0.056 J
ENDOSULFAN SULFATE	22		UG/L	0.052 U	0.053 U	0.064 U	1.5 J	1.5 J	0.55	0.056 U
ENDRIN ALDEHYDE	1.1	5	UG/L	0.052 U	0.053 U	0.064 U	0.28 U	0.53 U	0.059 U	0.056 U
GAMMA-BHC	0.052	0.008	UG/L	0.052 U	0.053 U	0.064 U	0.28 U	0.53 U	0.059 U	**0.66 J**
GAMMA-CHLORDANE	0.19		UG/L	0.052 U	0.053 U	0.064 U	0.28 U	0.53 U	0.059 U	0.056 U
HEPTACHLOR	0.015	0.0002	UG/L	0.052 U	0.053 U	0.064 U	0.28 U	**0.14 J**	0.059 U	0.056 U
HEPTACHLOR EPOXIDE	0.0074	0.0003	UG/L	**0.46**	**0.22 J**	0.064 U	0.28 U	0.53 U	0.059 U	0.056 U
METHOXYCHLOR	18	0.03	UG/L	0.052 U	0.053 U	0.064 U	0.28 U	0.53 U	0.059 U	0.056 U
Explosives (8330)										
1,3-DINITROBENZENE	0.36	5	UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.20 U	0.20 U
2,4-DINITROTOLUENE	0.099	5	UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.20 U	0.20 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	SN	SN	SN	SN
			Excavation Number:	X14	X27	X41	X64	X65	X66	X86
			Sample Name:	C7-CWM-WW-X14-SN01-8	C7-CWM-WW-X27-SN01-7	C7-CWM-WW-X41-SN01-6	C7-CWM-WW-X64-SN01-12	C7-CWM-WW-X65-SN01-12	C7-CWM-WW-X66-SN01-5	C7-CWM-WW-X86-SN01-6
			Sample Depth:	8 FT	7 FT	6 FT	12 FT	12 FT	5 FT	6 FT
			Sample Date:	8/24/2006	8/30/2006	9/6/2006	9/14/2006	9/14/2006	9/14/2006	9/22/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
2,6-DINITROTOLUENE	0.099	0.07	UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.20 U	0.20 U
2-AMINO-4,6-DINITROTOLUENE	0.73		UG/L	0.21 U	0.22 U	0.23	0.21 U	0.22 U	0.20 U	0.20 U
4-AMINO-2,6-DINITROTOLUENE	0.73		UG/L	0.21 U	0.22 U	0.18 J	0.21 U	0.22 U	0.20 U	0.20 U
4-NITROTOLUENE	0.66	5	UG/L	0.42 U	0.44 U	0.44 U	0.42 U	0.44 U	0.41 U	0.40 U
HMX	180		UG/L	0.42 U	0.44 U	0.44 U	0.42 U	0.44 U	0.41 U	0.40 U
RDX	0.61		UG/L	0.42 U	0.44 U	0.44 U	0.42 U	0.44 U	0.41 U	0.40 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	3600	100	UG/L	**247 J**	**246**	**24400**	37.3 J	95.9 J	11.8 J	**10200**
ANTIMONY	1.5	3	UG/L	0.22 J	0.5 J	**2**	1 U	1 U	1 U	0.33 J
ARSENIC	0.045		UG/L	**1.3 J**	**1.2 J**	**32.8**	5 U	5 U	5 U	**6.6**
BARIUM	260	1000	UG/L	67.2	19.9	**856**	72.1	73.3	106	153
BERYLLIUM	7.3	3	UG/L	.2 U	0.20 U	0.67	.2 U	.2 U	.2 U	0.46
BORON	730	10000	UG/L	20 U	353 J	270 J	108	121	108	223 J
CADMIUM	1.8	5	UG/L	.5 U	0.50 U	**29.9**	.5 U	.5 U	.5 U	0.28 J
CALCIUM			UG/L	106000	31300	563000	107000	116000	116000	138000
CHROMIUM	11		UG/L	1.8 J	2 U	**1030**	2 U	2 U	2 U	**15.3**
COBALT	73	5	UG/L	1 U	1 U	**28.9**	1 U	1 U	1 U	**8.3**
COPPER	150	200	UG/L	6.4	4.3	**513**	1.8 J	2.2	1.5 J	100
IRON	1100	300	UG/L	**1870**	**716**	**22800**	**945**	**1010**	**4340**	**21000**
LEAD	15		UG/L	1.5 J	1.2 J	**190**	0.74 J	1.7 J	1.5 J	6.6
LITHIUM	73		UG/L	3.2	9.4 J	65.3	**268**	**293**	**235**	50.8
MAGNESIUM		35000	UG/L	31300	3550	**69000**	16500	18600	18900	30400
MANGANESE	88	300	UG/L	66.6	49.9	**14300**	**1630**	**1370**	**1770**	**1140**
MERCURY	1.1		UG/L	.2 U	0.20 U	0.78	.2 U	.2 U	.2 U	.2 U
MOLYBDENUM	18		UG/L	5 U	5.2	**21.2**	1.1 J	1.9 J	0.32 J	3.5 J
NICKEL	73		UG/L	2.3	1.5	61.3	0.51 J	0.9 J	1	22.2
POTASSIUM			UG/L	4190	17600	90700	7700	7610	8520	3410
SELENIUM	18		UG/L	5 U	5.0 U	4.3 J	5 U	5 U	5 U	1.5 J
SILVER	18	0.1	UG/L	.3 U	0.30 U	**1.2**	.3 U	.3 U	.3 U	**0.11 J**
SODIUM			UG/L	4630	19700	52300	10100	10600	10200	34200
THALLIUM	0.24	8	UG/L	2 U	2 U	2 U	2 U	0.12 J	2 U	**2 U**
VANADIUM	3.6	14	UG/L	10 U	10 U	**46.2**	10 U	10 U	10 U	**25.1**
ZINC	1100		UG/L	21.3 J	14.1	857	16.4	32.3	22.9	45.6

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	SN	SN	SN	SN
			Excavation Number:	X14	X27	X41	X64	X65	X66	X86
			Sample Name:	C7-CWM-WW-X14-SN01-8	C7-CWM-WW-X27-SN01-7	C7-CWM-WW-X41-SN01-6	C7-CWM-WW-X64-SN01-12	C7-CWM-WW-X65-SN01-12	C7-CWM-WW-X66-SN01-5	C7-CWM-WW-X86-SN01-6
			Sample Depth:	8 FT	7 FT	6 FT	12 FT	12 FT	5 FT	6 FT
			Sample Date:	8/24/2006	8/30/2006	9/6/2006	9/14/2006	9/14/2006	9/14/2006	9/22/2006
			Parent Name:							
Analyte	**Crit1**	**Crit2**	**Unit**							
General Chemistry										
CYANIDE	73	5.2	UG/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Crit1: U.S. EPA Region 9 PRG Tap Water, 2004

Crit2: New York State TOG Surface Water, 1998

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	SN	SN	SN	SN
			Excavation Number:	X97	X97	X98	X99	X100	X101	X103
			Sample Name:	C7-CWM-WW-X97-SN01-14	C7-CWM-WW-DUP8	C7-CWM-WW-X98-SN01-14	C7-CWM-WW-X99-SN01-14	C7-CWM-WW-X100-SN01-11	C7-CWM-WW-X101-SN01-13.5	C7-CWM-WW-X103-SN01-12
			Sample Depth:	14 FT	14 FT	14 FT	14 FT	14 FT	13.5 FT	12 FT
			Sample Date:	10/2/2006	10/2/2006	10/2/2006	10/2/2006	10/2/2006	10/5/2006	10/5/2006
			Parent Name:		C7-CWM-WW-X97-SN01-14					
Analyte	**Crit1**	**Crit2**	**Unit**							
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	320	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3	**6.1**
1,1,2,2-TETRACHLOROETHANE	0.055	0.2	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.9**
1,1,2-TRICHLOROETHANE	0.2	1	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**16**
1,1-DICHLOROETHANE	81	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**36**	4.7
1,1-DICHLOROETHYLENE	34	0.7	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.78 J**
1,2-DICHLOROETHANE	0.12	0.6	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**16**	**10**
1,2-DICHLOROPROPANE	0.16	1	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-BUTANONE	700	50	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-METHYL-2-PENTANONE	200		UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
ACETONE	550	50	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
BENZENE	0.35	10	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**13**	**2**
CARBON DISULFIDE	100	60	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.4 J
CARBON TETRACHLORIDE	0.17	0.4	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**7.4**
CHLOROBENZENE	11	400	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**77**	**11**
CHLOROFORM	0.017	7	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**200**
CIS-1,2-DICHLOROETHENE	6.1	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.8	**17**
DICHLORODIFLUOROMETHANE	39	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ETHYLBENZENE	130	17	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**32**	1.4
ISOPROPYLBENZENE	66	2.6	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**24**	1.0 U
M+P-XYLENE	21		UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**34**	3.4
METHYLENE CHLORIDE	4.3	200	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**13**
O-XYLENE	21	65	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	16	1.2
STYRENE	160	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TETRACHLOROETHENE	0.1	1	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.4**
TOLUENE	72	100	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**190**	**110**
TRANS-1,2-DICHLOROETHENE	12	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**6.4**	1.3
TRANS-1,3-DICHLOROPROPENE			UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROETHYLENE	1.4	40	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**25**
VINYL CHLORIDE	0.02	0.3	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**4.2**	**6.8**
XYLENES (TOTAL)	21		UG/L							
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	0.72	5	UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	**5.7**	**3.2**

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	SN	SN	SN	SN
			Excavation Number:	X97	X97	X98	X99	X100	X101	X103
			Sample Name:	C7-CWM-WW-X97-SN01-14	C7-CWM-WW-DUP8	C7-CWM-WW-X98-SN01-14	C7-CWM-WW-X99-SN01-14	C7-CWM-WW-X100-SN01-11	C7-CWM-WW-X101-SN01-13.5	C7-CWM-WW-X103-SN01-12
			Sample Depth:	14 FT	14 FT	14 FT	14 FT	14 FT	13.5 FT	12 FT
			Sample Date:	10/2/2006	10/2/2006	10/2/2006	10/2/2006	10/2/2006	10/5/2006	10/5/2006
			Parent Name:		C7-CWM-WW-X97-SN01-14					
Analyte	**Crit1**	**Crit2**	**Unit**							
1,2-BENZPHENANTHRACENE	9.2	0.002	UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	0.20 U	0.21 U
1,2-DICHLOROBENZENE	37	5	UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	16	7.2
1,3-DICHLOROBENZENE	18	5	UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	3.4	0.45
1,4-DICHLOROBENZENE	0.5	5	UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	14	6.1
2,2'-OXYBIS(1-CHLOROPROPANE)	0.27	5	UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	0.20 U	0.21 U
2,4,5-TRICHLOROPHENOL	360		UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1.0 U	1.0 U	1.1 U
2,4-DICHLOROPHENOL	11	0.3	UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1.0 U	1.0 U	1.1 U
2,4-DIMETHYLPHENOL	73	1000	UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1.0 U	1.0 U	1.1 U
2-CHLOROPHENOL	3		UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1.0 U	2.4 J	1.1 U
2-METHYLNAPHTHALENE	0.62	4.7	UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	5.3	0.21 U
2-METHYLPHENOL	180		UG/L	1.1 U	1.1 U	1.1 U	1.1 U	3.6	10	11
4-CHLORO-3-METHYLPHENOL			UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1.0 U	3.1 J	1.1 U
4-METHYLPHENOL	18		UG/L	1.1 U	1.1 U	1.1 U	1.1 U	12	1.0 U	1.1 U
ACENAPHTHENE	37	5.3	UG/L	0.21 U	0.21 U	0.17 J	0.22 U	0.20 U	0.23	0.21 U
ACENAPHTHYLENE	37		UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	0.20 U	0.21 U
ANTHRACENE	180	3.8	UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	0.20 U	0.21 U
BENZ[A]ANTHRACENE	0.092	0.03	UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	0.20 U	0.21 U
BENZO[A]PYRENE	0.0092	0.0012	UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	0.20 U	0.21 U
BENZO[B]FLUORANTHENE	0.092	0.002	UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	0.20 U	0.21 U
BENZO[GHI]PERYLENE	18		UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	0.20 U	0.21 U
BENZO[K]FLUORANTHENE	0.92	0.002	UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	0.20 U	0.21 U
BENZYL BUTYL PHTHALATE	730	50	UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	0.20 U	0.21 U
BIS(2-ETHYLHEXYL) PHTHALATE	4.8	0.6	UG/L	2.8	1.2	1.6	2.8	1.7	1.8 J	1.4 J
CARBAZOLE	3.4		UG/L	0.21 U	0.21 U	0.2 J	0.11 J	0.15 J	0.18 J	0.21 U
DIBENZ[A,H]ANTHRACENE	0.0092		UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	0.20 U	0.21 U
DIBENZOFURAN	1.2		UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	0.20 U	0.21 U
DIETHYL PHTHALATE	2900	50	UG/L	0.16 J	0.11 J	0.16 J	0.16 J	0.20 U	0.27	0.15 J
DI-N-BUTYL PHTHALATE	360	50	UG/L	3.3	0.14 J	0.13 J	5.7	0.20 U	0.19 J	0.15 J
DI-N-OCTYL PHTHALATE	150	50	UG/L	0.21 U	0.21 U	0.18 J	0.52	0.20 U	0.20 U	0.21 U
FLUORANTHENE	150	50	UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	0.20 U	0.21 U
FLUORENE	24	0.54	UG/L	0.21 U	0.21 U	0.21 J	0.14 J	0.20 U	0.36	0.21 U
HEXACHLORO-1,3-BUTADIENE	0.86	0.01	UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	0.20 U	0.21 U
HEXACHLOROBENZENE	0.042	0.00003	UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	0.20 U	0.21 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	SN	SN	SN	SN
			Excavation Number:	X97	X97	X98	X99	X100	X101	X103
			Sample Name:	C7-CWM-WW-X97-SN01-14	C7-CWM-WW-DUP8	C7-CWM-WW-X98-SN01-14	C7-CWM-WW-X99-SN01-14	C7-CWM-WW-X100-SN01-11	C7-CWM-WW-X101-SN01-13.5	C7-CWM-WW-X103-SN01-12
			Sample Depth:	14 FT	14 FT	14 FT	14 FT	14 FT	13.5 FT	12 FT
			Sample Date:	10/2/2006	10/2/2006	10/2/2006	10/2/2006	10/2/2006	10/5/2006	10/5/2006
			Parent Name:		C7-CWM-WW-X97-SN01-14					
Analyte	**Crit1**	**Crit2**	**Unit**							
HEXACHLOROCYCLOPENTADIENE	22		UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	0.50 U	0.53 U
HEXACHLOROETHANE	3.6	0.6	UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	0.20 U	0.21 U
INDENO[1,2,3-CD]PYRENE	0.092	0.002	UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	0.20 U	0.21 U
ISOPHORONE	71	50	UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	0.57	0.21 J
NAPHTHALENE	0.62	13	UG/L	0.21 U	0.21 U	0.23 J	0.14 J	0.15 J	**2.4**	0.12 J
N-NITROSODI-N-PROPYLAMINE	0.0096		UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	0.20 U	0.21 U
N-NITROSODIPHENYLAMINE	14	50	UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	0.55	0.21 U
PENTACHLOROPHENOL	0.56		UG/L	2.7 U	2.7 U	2.9 U	2.7 U	2.5 U	2.5 U	2.6 U
PHENANTHRENE	0.62	5	UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	0.54	0.21 U
PHENOL	1100	1	UG/L	1.1 U	1.1 U	1.1 U	1.1 U	**1.8**	1.0 U	1.1 U
PYRENE	18	4.6	UG/L	0.21 U	0.21 U	0.23 U	0.22 U	0.20 U	0.20 U	0.21 U
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDE	0.2	0.000007	UG/L	0.053 U	0.053 U	0.056 U	0.056 U	0.052 U	0.054 U	0.052 U
4,4'-DDT	0.2	0.00001	UG/L	0.053 U	0.053 U	0.056 U	0.056 U	0.052 U	0.054 U	0.052 U
ALPHA-BHC	0.011	0.002	UG/L	0.053 U	0.053 U	0.056 U	0.056 U	0.052 U	0.054 U	0.052 U
ALPHA-CHLORDANE	0.19		UG/L	0.053 U	0.053 U	0.056 U	0.056 U	0.052 U	0.054 U	0.052 U
AROCLOR 1016	0.26		UG/L	0.53 U	0.53 U	0.56 U	0.56 U	0.52 U	0.54 U	0.52 U
AROCLOR 1260	0.034		UG/L	0.53 U	0.53 U	0.56 U	0.56 U	0.52 U	0.54 U	0.52 U
BETA-BHC	0.037	0.007	UG/L	0.053 U	0.053 U	0.056 U	0.056 U	0.052 U	0.054 U	0.052 U
DELTA-BHC	0.011	0.008	UG/L	0.053 U	0.053 U	0.056 U	0.056 U	0.052 U	0.054 U	0.052 U
DIELDRIN	0.0042	0.0000006	UG/L	0.053 U	0.053 U	0.056 U	0.056 U	0.052 U	0.054 U	0.052 U
ENDOSULFAN I	22		UG/L	0.053 U	0.053 U	0.056 U	0.056 U	0.052 U	0.054 U	0.052 U
ENDOSULFAN II	22		UG/L	0.053 U	0.053 U	0.056 U	0.056 U	0.052 U	0.054 U	0.052 U
ENDOSULFAN SULFATE	22		UG/L	0.053 U	0.053 U	0.056 U	0.056 U	0.052 U	0.054 U	0.052 U
ENDRIN ALDEHYDE	1.1	5	UG/L	0.053 U	0.053 U	0.056 U	0.056 U	0.052 U	0.054 U	0.052 U
GAMMA-BHC	0.052	0.008	UG/L	0.053 U	0.053 U	0.056 U	0.056 U	0.052 U	0.054 U	0.052 U
GAMMA-CHLORDANE	0.19		UG/L	0.053 U	0.053 U	0.056 U	0.056 U	0.052 U	0.054 U	0.052 U
HEPTACHLOR	0.015	0.0002	UG/L	0.053 U	0.053 U	0.056 U	0.056 U	0.052 U	0.054 U	0.052 U
HEPTACHLOR EPOXIDE	0.0074	0.0003	UG/L	0.053 U	0.053 U	0.056 U	0.056 U	0.052 U	0.054 U	0.052 U
METHOXYCHLOR	18	0.03	UG/L	0.053 U	0.053 U	0.056 U	0.056 U	0.052 U	0.054 U	0.052 U
Explosives (8330)										
1,3-DINITROBENZENE	0.36	5	UG/L	0.21 U	0.20 U	0.20 U	0.20 U	0.22 U	0.21 U	0.20 U
2,4-DINITROTOLUENE	0.099	5	UG/L	0.21 U	0.20 U	0.20 U	0.20 U	0.22 U	0.21 U	0.20 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	SN	SN	SN	SN
			Excavation Number:	X97	X97	X98	X99	X100	X101	X103
			Sample Name:	C7-CWM-WW-X97-SN01-14	C7-CWM-WW-DUP8	C7-CWM-WW-X98-SN01-14	C7-CWM-WW-X99-SN01-14	C7-CWM-WW-X100-SN01-11	C7-CWM-WW-X101-SN01-13.5	C7-CWM-WW-X103-SN01-12
			Sample Depth:	14 FT	14 FT	14 FT	14 FT	14 FT	13.5 FT	12 FT
			Sample Date:	10/2/2006	10/2/2006	10/2/2006	10/2/2006	10/2/2006	10/5/2006	10/5/2006
			Parent Name:		C7-CWM-WW-X97-SN01-14					
Analyte	**Crit1**	**Crit2**	**Unit**							
2,6-DINITROTOLUENE	0.099	0.07	UG/L	0.21 U	0.20 U	0.20 U	0.20 U	0.22 U	0.21 U	0.20 U
2-AMINO-4,6-DINITROTOLUENE	0.73		UG/L	0.21 U	0.20 U	0.20 U	0.20 U	0.22 U	0.21 U	0.20 U
4-AMINO-2,6-DINITROTOLUENE	0.73		UG/L	0.21 U	0.20 U	0.20 U	0.20 U	0.22 U	0.21 U	0.20 U
4-NITROTOLUENE	0.66	5	UG/L	0.42 U	0.41 U	0.40 U	0.40 U	0.44 U	**0.94 J**	0.41 U
HMX	180		UG/L	0.42 U	0.41 U	0.40 U	0.40 U	0.44 U	0.81 J	0.81
RDX	0.61		UG/L	0.42 U	0.41 U	0.40 U	0.40 U	0.44 U	0.42 U	0.41 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	3600	100	UG/L	33.7 J	71 J	**35200**	**12800**	18.3 J	**9050**	38.3 J
ANTIMONY	1.5	3	UG/L	1 U	1 U	0.45 J	0.23 J	1 U	0.19 J	0.2 J
ARSENIC	0.045		UG/L	5 U	**1.1 J**	**11.4 J**	**4.8 J**	5 U	**35.1**	**106**
BARIUM	260	1000	UG/L	87.9	88.5	**433**	215	78	196	64.2
BERYLLIUM	7.3	3	UG/L	.2 U	.2 U	1.5 J	0.52 J	.2 U	0.45	.2 U
BORON	730	10000	UG/L	319 J	303 J	**921 J**	**783 J**	**975 J**	276	147
CADMIUM	1.8	5	UG/L	.5 U	.5 U	0.39 J	.5 U	.5 U	0.18 J	.5 U
CALCIUM			UG/L	120000	117000	224000	142000	94800	159000	102000
CHROMIUM	11		UG/L	2 U	2 U	**49.5**	**17.3**	2 U	**67**	2
COBALT	73	5	UG/L	1 U	1 U	**24 J**	**8.7 J**	1 U	**5.1**	0.08 J
COPPER	150	200	UG/L	3.5 J	3.2 J	81 J	28.2 J	1.3 J	44.7	1.4 J
IRON	1100	300	UG/L	**1810 J**	**1950 J**	**70700 J**	**25200 J**	**1500 E**	**15500**	**748**
LEAD	15		UG/L	0.66 J	0.95 J	**18.8**	7.3	0.36 J	8.6	0.32 J
LITHIUM	73		UG/L	12.8	12.9	72.6	29.5	8.9	29.5	5.6
MAGNESIUM		35000	UG/L	**53000**	**52200**	**54400**	**40700**	26600	34500	19300
MANGANESE	88	300	UG/L	**398**	**418**	**2510**	**1090**	**387**	**1450**	**362**
MERCURY	1.1		UG/L	0.2 U	0.20 U	0.2 U	0.2 U	0.2 U	.2 U	0.21
MOLYBDENUM	18		UG/L	0.36 J	0.42 J	1.5 J	0.64 J	0.15 J	5 U	5 U
NICKEL	73		UG/L	0.78 J	1.1 J	52.9 J	19.1 J	5.2 J	17.8	2.8
POTASSIUM			UG/L	3950	3860	10600	7530	5840	19300	13600
SELENIUM	18		UG/L	5 U	5 U	1.3 J	5 U	5 U	0.85 J	0.82 J
SILVER	18	0.1	UG/L	.3 U	.3 U	**0.14 J**	0.078 J	.3 U	**0.17 J**	.3 U
SODIUM			UG/L	16800	16600	12300	12800	11600	21000	9610
THALLIUM	0.24	8	UG/L	2 U	2 U	**2 U**	2 U	2 U	**2 U**	2 U
VANADIUM	3.6	14	UG/L	10 U	10 U	**69.4**	**27.3**	10 U	**16.2**	10 U
ZINC	1100		UG/L	23.2 J	12.8 J	124 J	54.6 J	13.8 J	48.9 J	7.2 J

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	SN	SN	SN	SN
			Excavation Number:	X97	X97	X98	X99	X100	X101	X103
			Sample Name:	C7-CWM-WW-X97-SN01-14	C7-CWM-WW-DUP8	C7-CWM-WW-X98-SN01-14	C7-CWM-WW-X99-SN01-14	C7-CWM-WW-X100-SN01-11	C7-CWM-WW-X101-SN01-13.5	C7-CWM-WW-X103-SN01-12
			Sample Depth:	14 FT	14 FT	14 FT	14 FT	14 FT	13.5 FT	12 FT
			Sample Date:	10/2/2006	10/2/2006	10/2/2006	10/2/2006	10/2/2006	10/5/2006	10/5/2006
			Parent Name:		C7-CWM-WW-X97-SN01-14					
Analyte	**Crit1**	**Crit2**	**Unit**							
General Chemistry										
CYANIDE	73	5.2	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Crit1: U.S. EPA Region 9 PRG Tap Water, 2004

Crit2: New York State TOG Surface Water, 1998

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	ST	UN	UN	UN	UN
			Excavation Number:	X104	X105	X106	X05	X11	X22	X27	X28
			Sample Name:	C7-CWM-WW-X104-SN01-13	C7-CWM-WW-X105-SN01-12	C7-CWM-WW-X106-SN01-10	C7-CWM-WW-X05-WW01-6	C7-CWM-WW-X11-WW01-3	C7-CWM-WW-X22-UN01-6.5	C7-CWM-WW-X27-UN01-3	C7-CWM-WW-X28-UN01-3
			Sample Depth:	13 FT	12 FT	10 FT	6 FT	3 FT	6.5 FT	3 FT	3 FT
			Sample Date:	10/6/2006	10/3/2006	9/29/2006	8/22/2006	8/23/2006	8/28/2006	8/30/2006	8/30/2006
			Parent Name:								
Analyte	**Crit1**	**Crit2**	**Unit**								
Volatile Organic Compounds (8260B)											
1,1,1-TRICHLOROETHANE	320	5	UG/L	**340 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	130000 U
1,1,2,2-TETRACHLOROETHANE	0.055	0.2	UG/L	**97 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	130000 U
1,1,2-TRICHLOROETHANE	0.2	1	UG/L		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	130000 U
1,1-DICHLOROETHANE	81	5	UG/L	**75 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**190000**
1,1-DICHLOROETHYLENE	34	0.7	UG/L	**53 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	130000 U
1,2-DICHLOROETHANE	0.12	0.6	UG/L	**220 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	130000 U
1,2-DICHLOROPROPANE	0.16	1	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	130000 U
2-BUTANONE	700	50	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**7100000 J**
4-METHYL-2-PENTANONE	200		UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.9 J	5.0 U	630000 U
ACETONE	550	50	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	6.9 J	5.0 U	**29000000 J**
BENZENE	0.35	10	UG/L	**59 J**	1.0 U	1.0 U	1.0 U	**3.2 J**	**0.93 J**	1.0 U	**830000**
CARBON DISULFIDE	100	60	UG/L	**1300 J**	1.0 U	1.0 U	1.0 U	0.96 J	1.0 U	1.0 U	130000 U
CARBON TETRACHLORIDE	0.17	0.4	UG/L	**2000 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	130000 U
CHLOROBENZENE	11	400	UG/L	**220 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	130000 U
CHLOROFORM	0.017	7	UG/L	**7400 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**54000 J**
CIS-1,2-DICHLOROETHENE	6.1	5	UG/L	**380 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**7.5**	**2500000**
DICHLORODIFLUOROMETHANE	39	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	130000 U
ETHYLBENZENE	130	17	UG/L	**42 J**	1.0 U	1.0 U	1.0 U	2.2 J	1.0 U	1.0 U	**140000**
ISOPROPYLBENZENE	66	2.6	UG/L	**8.9 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	130000 U
M+P-XYLENE	21		UG/L	**69 J**	1.0 U	1.0 U	1.0 U	10 J	1 J	1.0 U	**270000**
METHYLENE CHLORIDE	4.3	200	UG/L	**490 J**	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	**2200000**
O-XYLENE	21	65	UG/L	**44 J**	1.0 U	1.0 U	1.0 U	5.5 J	1.2 J	1.0 U	**86000 J**
STYRENE	160	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	130000 U
TETRACHLOROETHENE	0.1	1	UG/L	**110 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	130000 U
TOLUENE	72	100	UG/L	**1700 J**	1.0 U	1.0 U	1.0 U	13 J	1.1 J	1.0 U	**400000**
TRANS-1,2-DICHLOROETHENE	12	5	UG/L	**15 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	130000 U
TRANS-1,3-DICHLOROPROPENE			UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	130000 U
TRICHLOROETHYLENE	1.4	40	UG/L	**900 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2400000**
VINYL CHLORIDE	0.02	0.3	UG/L	**74 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**11 J**	**72000 J**
XYLENES (TOTAL)	21		UG/L				1.0 U	16 J			
Semi-Volatile Organic Compounds (8151/8270C/8310)											
1,2,4-TRICHLOROBENZENE	0.72	5	UG/L	**69**	0.21 U	0.21 U	0.25 U	0.24 U	0.22 U	0.22 U	44 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	ST	UN	UN	UN	UN
			Excavation Number:	X104	X105	X106	X05	X11	X22	X27	X28
			Sample Name:	C7-CWM-WW-X104-SN01-13	C7-CWM-WW-X105-SN01-12	C7-CWM-WW-X106-SN01-10	C7-CWM-WW-X05-WW01-6	C7-CWM-WW-X11-WW01-3	C7-CWM-WW-X22-UN01-6.5	C7-CWM-WW-X27-UN01-3	C7-CWM-WW-X28-UN01-3
			Sample Depth:	13 FT	12 FT	10 FT	6 FT	3 FT	6.5 FT	3 FT	3 FT
			Sample Date:	10/6/2006	10/3/2006	9/29/2006	8/22/2006	8/23/2006	8/28/2006	8/30/2006	8/30/2006
			Parent Name:								
Analyte	Crit1	Crit2	Unit								
1,2-BENZPHENANTHRACENE	9.2	0.002	UG/L	0.21 U	0.21 U	0.21 U	0.25 U	**14 J**	**0.68**	0.22 U	44 U
1,2-DICHLOROBENZENE	37	5	UG/L	**160**	0.21 U	0.21 U	0.25 U	0.24 U	0.22 U	0.22 U	**2900 J**
1,3-DICHLOROBENZENE	18	5	UG/L	**7.4**	0.21 U	0.21 U	0.25 U	0.24 U	0.22 U	0.22 U	44 U
1,4-DICHLOROBENZENE	0.5	5	UG/L	**7.5**	0.21 U	0.21 U	0.25 U	0.24 U	0.22 U	0.22 U	**510 J**
2,2'-OXYBIS(1-CHLOROPROPANE)	0.27	5	UG/L	0.21 U	0.21 U	0.21 U	0.25 U	0.24 U	0.22 U	0.22 U	**4700 J**
2,4,5-TRICHLOROPHENOL	360		UG/L	1.1 U	1.1 U	1.0 U	1.3 U	1.2 U	1.1 U	1.1 U	220 U
2,4-DICHLOROPHENOL	11	0.3	UG/L	1.1 U	1.1 U	1.0 U	1.3 U	1.2 U	1.1 U	1.1 U	220 U
2,4-DIMETHYLPHENOL	73	1000	UG/L	1.1 U	1.1 U	1.0 U	1.3 U	19 J	0.77 J	1.1 U	220 U
2-CHLOROPHENOL	3		UG/L	**11 J**	1.1 U	1.0 U	1.3 U	1.2 U	1.1 U	1.1 U	220 U
2-METHYLNAPHTHALENE	0.62	4.7	UG/L	**1.4**	0.21 U	0.21 U	0.25 U	**5.4**	**1.2**	0.22 U	**460 J**
2-METHYLPHENOL	180		UG/L	11	1.1 U	1.0 U	1.3 U	50 J	1.1 U	1.1 U	**270 J**
4-CHLORO-3-METHYLPHENOL			UG/L	1.1 U	1.1 U	1.0 U	1.3 U	1.2 U	1.1 U	1.1 U	220 U
4-METHYLPHENOL	18		UG/L	**130**	1.1 U	0.5 J	1.3 U	**40 J**	1.6 J	1.1 U	**5800 J**
ACENAPHTHENE	37	5.3	UG/L	0.21 U	0.21 U	0.21 U	0.25 U	1.4	**7.6 J**	0.22 U	44 U
ACENAPHTHYLENE	37		UG/L	0.21 U	0.21 U	0.21 U	0.25 U	0.29 J	0.22 U	0.22 U	44 U
ANTHRACENE	180	3.8	UG/L	0.21 U	0.21 U	0.21 U	0.25 U	2 J	**18**	0.22 U	44 U
BENZ[A]ANTHRACENE	0.092	0.03	UG/L	0.21 U	0.21 U	0.21 U	0.25 U	**16 J**	**1.4**	0.22 U	44 U
BENZO[A]PYRENE	0.0092	0.0012	UG/L	0.21 U	0.21 U	0.21 U	0.25 U	**14**	0.22 U	0.22 U	44 U
BENZO[B]FLUORANTHENE	0.092	0.002	UG/L	0.21 U	0.21 U	0.21 U	0.25 U	**20 J**	0.22 U	0.22 U	44 U
BENZO[GHI]PERYLENE	18		UG/L	0.21 U	0.21 U	0.21 U	0.25 U	7.7	0.22 U	0.22 U	44 U
BENZO[K]FLUORANTHENE	0.92	0.002	UG/L	0.21 U	0.21 U	0.21 U	0.25 U	**6.8**	0.22 U	0.22 U	44 U
BENZYL BUTYL PHTHALATE	730	50	UG/L	0.21 U	0.21 U	0.21 U	0.25 U	0.24 U	0.22 U	0.22 U	44 U
BIS(2-ETHYLHEXYL) PHTHALATE	4.8	0.6	UG/L	**1.4 J**	0.21 U	**0.71 J**	**6**	**1.6**	**7.3**	**1.3**	**130 J**
CARBAZOLE	3.4		UG/L	0.13 J	0.21 U	0.21 U	0.25 U	**4.4 J**	**87**	0.22 U	44 U
DIBENZ[A,H]ANTHRACENE	0.0092		UG/L	0.21 U	0.21 U	0.21 U	0.25 U	**2**	0.22 U	0.22 U	44 U
DIBENZOFURAN	1.2		UG/L	0.21 U	0.21 U	0.21 U	0.25 U	0.67	**3.2**	0.22 U	44 U
DIETHYL PHTHALATE	2900	50	UG/L	3	0.21 U	0.21 U	0.25 U	0.24 U	0.22 U	0.22 U	44 U
DI-N-BUTYL PHTHALATE	360	50	UG/L	0.21 U	0.21 U	0.21 U	0.25 U	0.24 U	0.6	0.11 J	44 U
DI-N-OCTYL PHTHALATE	150	50	UG/L	0.2 J	0.21 U	0.21 U	0.25 U	0.24 U	0.22 U	0.22 U	44 U
FLUORANTHENE	150	50	UG/L	0.21 U	0.21 U	0.21 U	0.25 U	21 J	17	0.22 U	44 U
FLUORENE	24	0.54	UG/L	0.21 U	0.21 U	0.21 U	0.25 U	**1.4**	**9.3**	0.22 U	44 U
HEXACHLORO-1,3-BUTADIENE	0.86	0.01	UG/L	**0.27**	0.21 U	0.21 U	0.25 U	0.24 U	0.22 U	0.22 U	44 U
HEXACHLOROBENZENE	0.042	0.00003	UG/L	**2.6**	0.21 U	0.21 U	0.25 U	0.24 U	0.22 U	0.22 U	44 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	ST	UN	UN	UN	UN
			Excavation Number:	X104	X105	X106	X05	X11	X22	X27	X28
			Sample Name:	C7-CWM-WW-X104-SN01-13	C7-CWM-WW-X105-SN01-12	C7-CWM-WW-X106-SN01-10	C7-CWM-WW-X05-WW01-6	C7-CWM-WW-X11-WW01-3	C7-CWM-WW-X22-UN01-6.5	C7-CWM-WW-X27-UN01-3	C7-CWM-WW-X28-UN01-3
			Sample Depth:	13 FT	12 FT	10 FT	6 FT	3 FT	6.5 FT	3 FT	3 FT
			Sample Date:	10/6/2006	10/3/2006	9/29/2006	8/22/2006	8/23/2006	8/28/2006	8/30/2006	8/30/2006
			Parent Name:								
Analyte	**Crit1**	**Crit2**	**Unit**								
HEXACHLOROCYCLOPENTADIENE	22		UG/L	0.53 U	0.21 J	0.21 U	0.25 U	0.24 U	0.54 U	0.22 U	44 U
HEXACHLOROETHANE	3.6	0.6	UG/L	**1.5**	0.21 U	0.21 U	0.25 U	0.24 U	0.22 U	0.22 U	44 U
INDENO[1,2,3-CD]PYRENE	0.092	0.002	UG/L	0.21 U	0.21 U	0.21 U	0.25 U	**7**	0.22 U	0.22 U	44 U
ISOPHORONE	71	50	UG/L	0.21 U	0.21 U	0.21 U	0.25 U	0.24 U	0.22 U	0.22 U	44 U
NAPHTHALENE	0.62	13	UG/L	**51**	0.21 U	0.21 U	0.25 U	**5.8 J**	**8.9**	0.22 U	**260 J**
N-NITROSODI-N-PROPYLAMINE	0.0096		UG/L	0.21 U	0.21 U	0.21 U	0.25 U	0.24 U	0.22 U	0.22 U	44 U
N-NITROSODIPHENYLAMINE	14	50	UG/L	0.21 U	0.21 U	0.21 U	0.25 U	0.24 U	0.22 U	0.22 U	44 U
PENTACHLOROPHENOL	0.56		UG/L	**5.2 J**	2.6 U	1.0 U	1.3 U	1.2 U	2.7 U	2.7 U	550 U
PHENANTHRENE	0.62	5	UG/L	0.21 U	0.21 U	0.21 U	0.25 U	**9.7 J**	**51**	0.22 U	44 U
PHENOL	1100	1	UG/L	**2000**	1.1 U	1.0 U	1.3 U	**210 J**	**8.8 J**	1.1 U	**690000 J**
PYRENE	18	4.6	UG/L	0.21 U	0.21 U	0.21 U	0.25 U	**15 J**	**13 J**	0.22 U	44 U
Pesticides (8081)/Polychlorinated Biphenyls(8082)											
4,4'-DDE	0.2	0.000007	UG/L	0.053 U	0.054 U	0.053 U	0.068 U	0.059 U	0.054 U	0.053 U	0.28 U
4,4'-DDT	0.2	0.00001	UG/L	0.053 U	0.054 U	0.053 U	0.068 U	0.059 U	**0.087**	0.053 U	0.28 U
ALPHA-BHC	0.011	0.002	UG/L	0.053 U	0.054 U	0.053 U	0.068 U	0.059 U	0.054 U	0.053 U	0.28 U
ALPHA-CHLORDANE	0.19		UG/L	0.053 U	0.054 U	0.053 U	0.068 U	0.059 U	0.054 U	0.053 U	0.28 U
AROCLOR 1016	0.26		UG/L	5.3 U	0.54 U	0.53 U	0.68 U	0.59 U	0.54 U	0.53 U	56 U
AROCLOR 1260	0.034		UG/L	5.3 U	0.54 U	0.53 U	0.68 U	0.59 U	0.54 U	0.53 U	56 U
BETA-BHC	0.037	0.007	UG/L	0.053 U	0.054 U	0.053 U	0.068 U	0.059 U	0.054 U	0.053 U	**3.7 J**
DELTA-BHC	0.011	0.008	UG/L	0.053 U	0.054 U	0.053 U	0.068 U	0.059 U	0.054 U	0.053 U	0.28 U
DIELDRIN	0.0042	0.0000006	UG/L	0.053 U	0.054 U	0.053 U	0.068 U	0.059 U	0.054 U	0.053 U	0.28 U
ENDOSULFAN I	22		UG/L	0.053 U	0.054 U	0.053 U	0.068 U	0.059 U	0.054 U	0.053 U	0.28 U
ENDOSULFAN II	22		UG/L	0.053 U	0.054 U	0.053 U	0.068 U	0.059 U	0.054 U	0.053 U	0.28 U
ENDOSULFAN SULFATE	22		UG/L	0.053 U	0.054 U	0.053 U	0.068 U	0.059 U	0.054 U	0.053 U	0.28 U
ENDRIN ALDEHYDE	1.1	5	UG/L	0.053 U	0.054 U	0.053 U	0.068 U	0.059 U	0.054 U	0.053 U	0.28 U
GAMMA-BHC	0.052	0.008	UG/L	0.053 U	0.054 U	0.053 U	0.068 U	0.059 U	0.054 U	0.053 U	0.28 U
GAMMA-CHLORDANE	0.19		UG/L	0.053 U	0.054 U	0.053 U	0.068 U	0.059 U	0.054 U	0.053 U	0.28 U
HEPTACHLOR	0.015	0.0002	UG/L	0.053 U	0.054 U	0.053 U	0.068 U	0.059 U	0.054 U	0.053 U	0.28 U
HEPTACHLOR EPOXIDE	0.0074	0.0003	UG/L	0.053 U	0.054 U	0.053 U	**0.27 J**	**0.05 J**	0.054 U	0.053 U	0.28 U
METHOXYCHLOR	18	0.03	UG/L	0.053 U	0.054 U	0.053 U	0.068 U	0.059 U	0.054 U	0.053 U	0.28 U
Explosives (8330)											
1,3-DINITROBENZENE	0.36	5	UG/L	0.20 U	0.23 U	0.20 U	0.21 U	0.22 U	0.22 U	0.22 U	2.0 U
2,4-DINITROTOLUENE	0.099	5	UG/L	0.20 U	0.23 U	0.20 U	0.21 U	0.22 U	0.22 U	0.22 U	2.0 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	ST	UN	UN	UN	UN
			Excavation Number:	X104	X105	X106	X05	X11	X22	X27	X28
			Sample Name:	C7-CWM-WW-X104-SN01-13	C7-CWM-WW-X105-SN01-12	C7-CWM-WW-X106-SN01-10	C7-CWM-WW-X05-WW01-6	C7-CWM-WW-X11-WW01-3	C7-CWM-WW-X22-UN01-6.5	C7-CWM-WW-X27-UN01-3	C7-CWM-WW-X28-UN01-3
			Sample Depth:	13 FT	12 FT	10 FT	6 FT	3 FT	6.5 FT	3 FT	3 FT
			Sample Date:	10/6/2006	10/3/2006	9/29/2006	8/22/2006	8/23/2006	8/28/2006	8/30/2006	8/30/2006
			Parent Name:								
Analyte	**Crit1**	**Crit2**	**Unit**								
2,6-DINITROTOLUENE	0.099	0.07	UG/L	0.35 J	0.23 U	0.20 U	0.21 U	0.22 U	0.22 U	0.22 U	2.0 U
2-AMINO-4,6-DINITROTOLUENE	0.73		UG/L	0.20 U	0.23 U	0.20 U	0.21 U	0.22 U	0.22 U	0.22 U	2.0 U
4-AMINO-2,6-DINITROTOLUENE	0.73		UG/L	0.20 U	0.23 U	0.20 U	0.21 U	0.22 U	0.22 U	0.22 U	2.0 U
4-NITROTOLUENE	0.66	5	UG/L	0.41 U	0.45 U	0.41 U	0.42 U	0.44 U	0.44 U	0.43 U	4.0 U
HMX	180		UG/L	0.41 U	0.45 U	0.41 U	0.42 U	0.44 U	0.44 U	0.43 U	4.0 U
RDX	0.61		UG/L	0.41 U	0.45 U	0.41 U	0.42 U	0.44 U	0.44 U	0.43 U	4.0 U
Metals (6010B/6020/7841/7470A/7471A)											
ALUMINUM	3600	100	UG/L	7920	27600	17.6 J	29800	23500 J	65.9 J	16100	5820
ANTIMONY	1.5	3	UG/L	0.68 J	0.32 J	1 U	0.41 J	6.9	1 U	0.71 J	2.2 J
ARSENIC	0.045		UG/L	921	8.4	5 U	6.7	65.8	5 U	2.8 J	68.8
BARIUM	260	1000	UG/L	105	327	59.4	479	571	18	163	364
BERYLLIUM	7.3	3	UG/L	0.35	1.1 J	.2 U	1	0.77	.2 U	0.82	2.0 U
BORON	730	10000	UG/L	682	121 J	116 J	27.6	87	48.5	417 J	1980 J
CADMIUM	1.8	5	UG/L	0.50 U	0.25 J	.5 U	0.76	6.7	.5 U	0.68	5.0 U
CALCIUM			UG/L	237000	248000	131000	293000	259000	86700	92000	181000
CHROMIUM	11		UG/L	30	36.2	2 U	33.2	458	2.9	23.9	6800
COBALT	73	5	UG/L	7	16.1 J	1 U	17.2	42.3	1 U	11.1	447
COPPER	150	200	UG/L	32	43.7 J	0.83 J	54.4	254	2 U	45.2	26.7
IRON	1100	300	UG/L	14600	46900 J	126	40100	495000	338	29200	3030000
LEAD	15		UG/L	7.4	16.5	2 U	35.3	329	0.25 J	26.8	35.1
LITHIUM	73		UG/L	31.2	78.5	36.1	45.2	32.4	29.1	34.5 J	34.8 J
MAGNESIUM		35000	UG/L	46200	145000 D	133000	25800	45900	1090	18200	42400
MANGANESE	88	300	UG/L	1740	1920	635	2160	5930	23.5	741	10400
MERCURY	1.1		UG/L	0.26	0.20 U	0.2 U	0.73	2.2	.2 U	0.20 U	0.32
MOLYBDENUM	18		UG/L	5 U	1.1 J	5 U	1.2 J	22.3	31.3	5 U	935
NICKEL	73		UG/L	32.8	36 J	1.3	37.8	188	0.64 J	25.1	4110
POTASSIUM			UG/L	16600	6660	3080	4890	4000	160000	10700	281000
SELENIUM	18		UG/L	3.8 J	5.0 U	5 U	5 U	2.8 J	5 U	0.86 J	55
SILVER	18	0.1	UG/L	0.1 J	0.1 J	.3 U	0.11 J	0.35	.3 U	0.07 J	3.0 U
SODIUM			UG/L	42800	51500	54600	2720	5340	1350000	32500	2720000
THALLIUM	0.24	8	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	20 U
VANADIUM	3.6	14	UG/L	14.9	51	10 U	55.5	97.6	10 U	35.4	75.6 J
ZINC	1100		UG/L	39.2 J	92.9 J	15.7	155	1240 J	10 U	69.1	21600

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	ST	UN	UN	UN	UN
			Excavation Number:	X104	X105	X106	X05	X11	X22	X27	X28
			Sample Name:	C7-CWM-WW-X104-SN01-13	C7-CWM-WW-X105-SN01-12	C7-CWM-WW-X106-SN01-10	C7-CWM-WW-X05-WW01-6	C7-CWM-WW-X11-WW01-3	C7-CWM-WW-X22-UN01-6.5	C7-CWM-WW-X27-UN01-3	C7-CWM-WW-X28-UN01-3
			Sample Depth:	13 FT	12 FT	10 FT	6 FT	3 FT	6.5 FT	3 FT	3 FT
			Sample Date:	10/6/2006	10/3/2006	9/29/2006	8/22/2006	8/23/2006	8/28/2006	8/30/2006	8/30/2006
			Parent Name:								
Analyte	**Crit1**	**Crit2**	**Unit**								
General Chemistry											
CYANIDE	73	5.2	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	250 U

Crit1: U.S. EPA Region 9 PRG Tap Water, 2004
Crit2: New York State TOG Surface Water, 1998
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes.
Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	UN	UN	UN	UN	UN	UN	UN	UN
			Excavation Number:	X74	X85	X85	X107	X108	X109	X113	X116
			Sample Name:	C7-CWM-WW-X74-UN01-4.5	C7-CWM-WW-X85-UN01-6	C7-CWM-WW-X85-UN02-4	C7-CWM-WW-X107-UN01-3.5	C7-CWM-WW-X108-UN01-3.5	C7-CWM-WW-X109-UN01-3.5	C7-CWM-WW-X113-UN01-3.5	C7-CWM-WW-X116-UN01-4
			Sample Depth:	4.5 FT	6 FT	4 FT	3.5 FT	3.5 FT	3.5 FT	3.5 FT	4 FT
			Sample Date:	9/18/2006	9/22/2006	9/22/2006	10/9/2006	10/9/2006	10/9/2006	10/9/2006	10/13/2006
			Parent Name:								
Analyte	**Crit1**	**Crit2**	**Unit**								
Volatile Organic Compounds (8260B)											
1,1,1-TRICHLOROETHANE	320	5	UG/L	1.0 U	1.0 U	0.92 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-TETRACHLOROETHANE	0.055	0.2	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	0.2	1	UG/L	1.0 U	1.0 U	**0.55 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHANE	81	5	UG/L	1.0 U	**17**	**8.6**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHYLENE	34	0.7	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	0.12	0.6	UG/L	1.0 U	**24**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROPROPANE	0.16	1	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-BUTANONE	700	50	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-METHYL-2-PENTANONE	200		UG/L	5.0 U	20	4.1 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
ACETONE	550	50	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
BENZENE	0.35	10	UG/L	1.0 U	**140 J**	**10**	0.33 J	1.0 U	1.0 U	1.0 U	1.0 U
CARBON DISULFIDE	100	60	UG/L	1.0 U	1.0 U	1.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CARBON TETRACHLORIDE	0.17	0.4	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROBENZENE	11	400	UG/L	1.0 U	**20**	1.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROFORM	0.017	7	UG/L	1.0 U	1.0 U	**1.1 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,2-DICHLOROETHENE	6.1	5	UG/L	1.0 U	1.3	**12**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DICHLORODIFLUOROMETHANE	39	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ETHYLBENZENE	130	17	UG/L	1.0 U	**17**	1.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ISOPROPYLBENZENE	66	2.6	UG/L	1.0 U	**2600 J**	**1300**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
M+P-XYLENE	21		UG/L	1.0 U	**44**	4.9	0.74 J	1.0 U	1.0 U	0.73 J	1.0 U
METHYLENE CHLORIDE	4.3	200	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
O-XYLENE	21	65	UG/L	1.0 U	14	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
STYRENE	160	5	UG/L	1.0 U	1.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TETRACHLOROETHENE	0.1	1	UG/L	1.0 U	1.0 U	**1.4**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOLUENE	72	100	UG/L	1.0 U	**370 J**	48	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,2-DICHLOROETHENE	12	5	UG/L	1.0 U	1.2	0.32 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,3-DICHLOROPROPENE			UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROETHYLENE	1.4	40	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
VINYL CHLORIDE	0.02	0.3	UG/L	1.0 U	**9.4**	**16**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
XYLENES (TOTAL)	21		UG/L								
Semi-Volatile Organic Compounds (8151/8270C/8310)											
1,2,4-TRICHLOROBENZENE	0.72	5	UG/L	0.20 U	0.22 U	0.18 J	0.21 U	0.22 U	0.21 U	0.21 U	0.24 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	UN	UN	UN	UN	UN	UN	UN	UN
			Excavation Number:	X74	X85	X85	X107	X108	X109	X113	X116
			Sample Name:	C7-CWM-WW-X74-UN01-4.5	C7-CWM-WW-X85-UN01-6	C7-CWM-WW-X85-UN02-4	C7-CWM-WW-X107-UN01-3.5	C7-CWM-WW-X108-UN01-3.5	C7-CWM-WW-X109-UN01-3.5	C7-CWM-WW-X113-UN01-3.5	C7-CWM-WW-X116-UN01-4
			Sample Depth:	4.5 FT	6 FT	4 FT	3.5 FT	3.5 FT	3.5 FT	3.5 FT	4 FT
			Sample Date:	9/18/2006	9/22/2006	9/22/2006	10/9/2006	10/9/2006	10/9/2006	10/9/2006	10/13/2006
			Parent Name:								
Analyte	**Crit1**	**Crit2**	**Unit**								
1,2-BENZPHENANTHRACENE	9.2	0.002	UG/L	0.20 U	**0.33**	0.24 U	**0.25**	**0.12 J**	**0.79**	0.21 U	**0.24 J**
1,2-DICHLOROBENZENE	37	5	UG/L	0.20 U	1.7	0.3	0.21 U	0.22 U	0.21 U	0.21 U	0.24 U
1,3-DICHLOROBENZENE	18	5	UG/L	0.20 U	0.22 U	0.24 U	0.21 U	0.22 U	0.21 U	0.21 U	0.24 U
1,4-DICHLOROBENZENE	0.5	5	UG/L	0.20 U	**1.1**	**1.2**	0.21 U	0.22 U	0.21 U	0.21 U	0.24 U
2,2'-OXYBIS(1-CHLOROPROPANE)	0.27	5	UG/L	0.20 U	0.22 U	0.24 U	0.21 U	0.22 U	0.21 U	0.21 U	0.24 U
2,4,5-TRICHLOROPHENOL	360		UG/L	1.0 U	1.1 U	1.2 U	1.1 U	1.1 U	1.0 U	1.1 U	1.2 U
2,4-DICHLOROPHENOL	11	0.3	UG/L	1.0 U	1.1 U	1.2 U	1.1 U	1.1 U	1.0 U	1.1 U	1.2 U
2,4-DIMETHYLPHENOL	73	1000	UG/L	1.0 U	36 J	1.2 U	1.1 U	1.1 U	1.0 U	1.1 U	1.2 U
2-CHLOROPHENOL	3		UG/L	1.0 U	1.1 U	**3.3**	1.1 U	1.1 U	1.0 U	1.1 U	1.2 U
2-METHYLNAPHTHALENE	0.62	4.7	UG/L	0.20 U	**2.1**	0.24 U	0.21 U	0.3	0.21 U	0.21 U	0.24 U
2-METHYLPHENOL	180		UG/L	1.0 U	**1100 J**	1.2 U	1.1 U	1.1 U	1.0 U	1.1 U	1.2 U
4-CHLORO-3-METHYLPHENOL			UG/L	1.0 U	1.1 U	4.3	1.1 U	1.1 U	1.0 U	1.1 U	1.2 U
4-METHYLPHENOL	18		UG/L	1.0 U	1.1 U	3.3	1.1 U	1.1 U	1.0 U	1.1 U	1.2 U
ACENAPHTHENE	37	5.3	UG/L	0.20 U	0.22 U	0.24 U	0.57	0.088 J	0.39	0.24	0.24 U
ACENAPHTHYLENE	37		UG/L	0.20 U	0.22 U	0.24 U	0.21 U	0.22 U	0.21 U	0.21 U	0.24 U
ANTHRACENE	180	3.8	UG/L	0.20 U	**4.6**	0.24 U	2.5	0.19 J	2.2	0.1 J	0.07 J
BENZ[A]ANTHRACENE	0.092	0.03	UG/L	0.20 U	**0.4**	0.24 U	**0.46**	**0.19 J**	**0.97**	0.21 U	**0.29**
BENZO[A]PYRENE	0.0092	0.0012	UG/L	0.20 U	0.22 U	0.24 U	**0.28**	0.22 U	**0.27**	0.21 U	0.24 U
BENZO[B]FLUORANTHENE	0.092	0.002	UG/L	0.20 U	0.22 U	0.24 U	**0.26**	**0.13 J**	**0.3**	0.21 U	**0.35**
BENZO[GHI]PERYLENE	18		UG/L	0.20 U	0.22 U	0.24 U	0.28	0.22 U	0.12 J	0.21 U	0.24 U
BENZO[K]FLUORANTHENE	0.92	0.002	UG/L	0.20 U	0.22 U	0.24 U	**0.21 J**	0.22 U	**0.28 J**	0.21 U	0.24 U
BENZYL BUTYL PHTHALATE	730	50	UG/L	0.20 U	9.5	0.24 U	0.21 U	0.22 U	0.21 U	0.21 U	0.24 U
BIS(2-ETHYLHEXYL) PHTHALATE	4.8	0.6	UG/L	0.20 U	**7.3**	**2.7**	**1.3**	**1.7**	**1.1**	**1.7**	**9 J**
CARBAZOLE	3.4		UG/L	0.20 U	**170**	0.24 U	**8.4**	0.41	0.64	0.21 U	0.24 U
DIBENZ[A,H]ANTHRACENE	0.0092		UG/L	0.20 U	0.22 U	0.24 U	**0.095 J**	0.22 U	0.21 U	0.21 U	0.24 U
DIBENZOFURAN	1.2		UG/L	0.20 U	0.22 U	0.24 U	0.21 U	0.22 U	0.32	0.13 J	0.24 U
DIETHYL PHTHALATE	2900	50	UG/L	0.1 J	0.22 U	0.12 J	0.21 U	0.22 U	0.21 U	0.15 J	0.24 U
DI-N-BUTYL PHTHALATE	360	50	UG/L	0.20 U	0.22 U	0.22 J	0.15 J	0.21 J	0.12 J	0.21 J	0.15 J
DI-N-OCTYL PHTHALATE	150	50	UG/L	0.20 U	0.22 U	0.24 U	0.21 U	0.22 U	0.21 U	0.21 U	0.24 U
FLUORANTHENE	150	50	UG/L	0.13 J	8.5	0.24 U	7.4	1.5	9.7	0.35	0.67
FLUORENE	24	0.54	UG/L	0.20 U	**20**	0.24 U	**1.3**	0.24	**1**	0.21 U	0.24 U
HEXACHLORO-1,3-BUTADIENE	0.86	0.01	UG/L	0.20 U	0.22 U	0.24 U	0.21 U	0.22 U	0.21 U	0.21 U	0.24 U
HEXACHLOROBENZENE	0.042	0.00003	UG/L	0.20 U	0.22 U	0.24 U	0.21 U	0.22 U	0.21 U	0.21 U	0.24 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	UN	UN	UN	UN	UN	UN	UN	UN
			Excavation Number:	X74	X85	X85	X107	X108	X109	X113	X116
			Sample Name:	C7-CWM-WW-X74-UN01-4.5	C7-CWM-WW-X85-UN01-6	C7-CWM-WW-X85-UN02-4	C7-CWM-WW-X107-UN01-3.5	C7-CWM-WW-X108-UN01-3.5	C7-CWM-WW-X109-UN01-3.5	C7-CWM-WW-X113-UN01-3.5	C7-CWM-WW-X116-UN01-4
			Sample Depth:	4.5 FT	6 FT	4 FT	3.5 FT	3.5 FT	3.5 FT	3.5 FT	4 FT
			Sample Date:	9/18/2006	9/22/2006	9/22/2006	10/9/2006	10/9/2006	10/9/2006	10/9/2006	10/13/2006
			Parent Name:								
Analyte	**Crit1**	**Crit2**	**Unit**								
HEXACHLOROCYCLOPENTADIENE	22		UG/L	0.20 U	0.22 U	0.24 U	0.21 U	0.22 U	0.21 U	0.21 U	0.59 U
HEXACHLOROETHANE	3.6	0.6	UG/L	0.20 U	0.22 U	0.24 U	0.21 U	0.22 U	0.21 U	0.21 U	0.24 U
INDENO[1,2,3-CD]PYRENE	0.092	0.002	UG/L	0.20 U	0.22 U	0.24 U	**0.26**	0.22 U	**0.12 J**	0.21 U	**0.094 J**
ISOPHORONE	71	50	UG/L	0.20 U	0.22 U	0.24 U	0.21 U	0.22 U	0.21 U	0.21 U	0.24 U
NAPHTHALENE	0.62	13	UG/L	0.20 U	**210 J**	0.24 U	0.17 J	0.25	0.21 U	0.22	0.25
N-NITROSODI-N-PROPYLAMINE	0.0096		UG/L	**0.32**	0.22 U	0.24 U	0.21 U	0.22 U	0.21 U	0.21 U	0.24 U
N-NITROSODIPHENYLAMINE	14	50	UG/L	0.20 U	0.22 U	0.24 U	0.21 U	0.22 U	0.21 U	0.21 U	0.24 U
PENTACHLOROPHENOL	0.56		UG/L	2.5 U	2.8 U	3.1 U	2.6 U	2.8 U	2.6 U	2.6 U	**5.5**
PHENANTHRENE	0.62	5	UG/L	0.20 U	**39 J**	0.24 U	**6.6**	**0.7**	**0.79**	0.53	0.29 J
PHENOL	1100	1	UG/L	1.0 U	**16000**	**39 J**	1.1 U	1.1 U	1.0 U	1.1 U	1.2 U
PYRENE	18	4.6	UG/L	0.20 U	4 J	0.24 U	**5.2**	0.99	**6.9 J**	0.32	0.7
Pesticides (8081)/Polychlorinated Biphenyls(8082)											
4,4'-DDE	0.2	0.000007	UG/L	0.054 U	0.056 U	0.060 U	0.056 U	0.053 U	0.053 U	0.053 U	0.057 U
4,4'-DDT	0.2	0.00001	UG/L	0.054 U	0.056 U	0.060 U	0.056 U	0.053 U	0.053 U	0.053 U	0.057 U
ALPHA-BHC	0.011	0.002	UG/L	0.054 U	0.056 U	0.060 U	0.056 U	0.053 U	0.053 U	0.053 U	0.057 U
ALPHA-CHLORDANE	0.19		UG/L	0.054 U	0.056 U	0.060 U	0.056 U	0.053 U	0.053 U	0.053 U	0.057 U
AROCLOR 1016	0.26		UG/L	0.54 U	0.56 U	0.59 U	0.56 U	0.53 U	0.53 U	0.58 U	0.58 U
AROCLOR 1260	0.034		UG/L	0.54 U	0.56 U	0.59 U	0.56 U	0.53 U	0.53 U	0.58 U	0.58 U
BETA-BHC	0.037	0.007	UG/L	0.054 U	0.056 U	0.060 U	0.056 U	0.053 U	0.053 U	0.053 U	0.057 U
DELTA-BHC	0.011	0.008	UG/L	0.054 U	0.056 U	0.060 U	0.056 U	0.053 U	0.053 U	0.053 U	0.057 U
DIELDRIN	0.0042	0.0000006	UG/L	0.054 U	0.056 U	0.060 U	0.056 U	0.053 U	0.053 U	0.053 U	0.057 U
ENDOSULFAN I	22		UG/L	0.054 U	0.013 J	0.060 U	0.056 U	0.053 U	0.053 U	0.053 U	0.057 U
ENDOSULFAN II	22		UG/L	0.054 U	0.056 U	0.060 U	0.056 U	0.053 U	0.053 U	0.053 U	0.057 U
ENDOSULFAN SULFATE	22		UG/L	0.054 U	0.056 U	0.060 U	0.056 U	0.053 U	0.053 U	0.053 U	0.057 U
ENDRIN ALDEHYDE	1.1	5	UG/L	0.054 U	0.056 U	0.060 U	0.056 U	0.053 U	0.053 U	0.053 U	0.057 U
GAMMA-BHC	0.052	0.008	UG/L	0.054 U	0.056 U	0.060 U	0.056 U	0.053 U	0.053 U	0.053 U	0.057 U
GAMMA-CHLORDANE	0.19		UG/L	0.054 U	0.046 J	0.060 U	0.056 U	0.053 U	0.053 U	0.053 U	0.057 U
HEPTACHLOR	0.015	0.0002	UG/L	**0.011 J**	0.056 U	0.060 U	0.056 U	0.053 U	0.053 U	0.053 U	0.057 U
HEPTACHLOR EPOXIDE	0.0074	0.0003	UG/L	0.054 U	0.056 U	0.060 U	0.056 U	0.053 U	0.053 U	0.053 U	0.057 U
METHOXYCHLOR	18	0.03	UG/L	0.054 U	0.056 U	0.060 U	0.056 U	0.053 U	0.053 U	0.053 U	0.057 U
Explosives (8330)											
1,3-DINITROBENZENE	0.36	5	UG/L	0.20 U	0.20 U	**1.4 J**	0.21 U	0.21 U	0.20 U	0.20 U	0.20 U
2,4-DINITROTOLUENE	0.099	5	UG/L	0.20 U	0.20 U	0.21 U	0.21 U	0.21 U	0.20 U	0.20 U	0.20 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	UN	UN	UN	UN	UN	UN	UN	UN
			Excavation Number:	X74	X85	X85	X107	X108	X109	X113	X116
			Sample Name:	C7-CWM-WW-X74-UN01-4.5	C7-CWM-WW-X85-UN01-6	C7-CWM-WW-X85-UN02-4	C7-CWM-WW-X107-UN01-3.5	C7-CWM-WW-X108-UN01-3.5	C7-CWM-WW-X109-UN01-3.5	C7-CWM-WW-X113-UN01-3.5	C7-CWM-WW-X116-UN01-4
			Sample Depth:	4.5 FT	6 FT	4 FT	3.5 FT	3.5 FT	3.5 FT	3.5 FT	4 FT
			Sample Date:	9/18/2006	9/22/2006	9/22/2006	10/9/2006	10/9/2006	10/9/2006	10/9/2006	10/13/2006
			Parent Name:								
Analyte	**Crit1**	**Crit2**	**Unit**								
2,6-DINITROTOLUENE	0.099	0.07	UG/L	0.20 U	0.20 U	0.21 U	0.21 U	0.21 U	0.20 U	0.20 U	0.20 U
2-AMINO-4,6-DINITROTOLUENE	0.73		UG/L	0.20 U	0.69 J	0.21 U	0.21 U	0.21 U	0.20 U	0.20 U	0.20 U
4-AMINO-2,6-DINITROTOLUENE	0.73		UG/L	0.20 U	0.20 U	0.21 U	0.21 U	0.21 U	0.20 U	0.20 U	0.20 U
4-NITROTOLUENE	0.66	5	UG/L	0.41 U	**45**	0.42 U	0.42 U	0.41 U	0.41 U	0.40 U	0.41 U
HMX	180		UG/L	0.41 U	0.41 U	0.42 U	0.42 U	0.41 U	0.41 U	0.40 U	0.33 J
RDX	0.61		UG/L	0.41 U	0.41 U	0.42 U	0.42 U	0.41 U	0.41 U	0.40 U	0.41 U
Metals (6010B/6020/7841/7470A/7471A)											
ALUMINUM	3600	100	UG/L	26.7 J	**213**	**5900**	**546**	69.8 J	22.2 J	**413**	**2480**
ANTIMONY	1.5	3	UG/L	**21**	1 U	0.54 J	0.22 J	1 U	1 U	0.55 J	0.25 J
ARSENIC	0.045		UG/L	5.0 U	**3.7 J**	**5.6**	**1.9 J**	5 U	5 U	**2.2 J**	**1.1 J**
BARIUM	260	1000	UG/L	19.1	**490**	**321**	96	65.7	9.7	9.5	52
BERYLLIUM	7.3	3	UG/L	0.20 U	.2 U	0.23	.2 U	.2 U	.2 U	.2 U	0.11 J
BORON	730	10000	UG/L	85.3	**1190 J**	**1570 J**	35.1	38	45.5	64.8	41.4
CADMIUM	1.8	5	UG/L	0.61	.5 U	1.2	.5 U	.5 U	.5 U	.5 U	0.50 U
CALCIUM			UG/L	32300	203000	479000	63000	86600	54200	32000	74800
CHROMIUM	11		UG/L	2.0 U	2 U	10.5	4.1	2 U	2 U	3.2	3
COBALT	73	5	UG/L	1 U	0.16 J	**28.6**	0.65 J	0.45 J	1 U	0.83 J	1.2
COPPER	150	200	UG/L	5.8	4.2	41.6	7.8	7.8	0.71 J	11	11.9
IRON	1100	300	UG/L	**6240**	**101000**	**17400**	**29800**	**8220**	**2230**	**7280**	**3440**
LEAD	15		UG/L	2.5	**28.9**	**141**	1.2 J	1.3 J	2 U	0.71 J	2.9
LITHIUM	73		UG/L	35.4	17.3	13.6	3.8	1 J	4.7	11	6.3
MAGNESIUM		35000	UG/L	4010	**60500**	**54600**	**49000**	17800	**44900**	**412000**	14200
MANGANESE	88	300	UG/L	**93.1**	**748**	**16200**	**110**	**224**	25.1	**147**	**95.9**
MERCURY	1.1		UG/L	0.096 J	.2 U	.2 U	.2 U	.2 U	.2 U	.2 U	0.20 U
MOLYBDENUM	18		UG/L	1.9 J	0.78 J	1.7 J	0.62 J	0.75 J	0.87 J	0.57 J	5.0 U
NICKEL	73		UG/L	1.8	**104**	**381**	3.6	1.7	0.52 J	3.2	4.6
POTASSIUM			UG/L	7330	18500	3770	622 J	1270	1880	4180	8980
SELENIUM	18		UG/L	5.0 U	9 J	3.6 J	5 U	5 U	5 U	5 U	5.0 U
SILVER	18	0.1	UG/L	0.30 U	.3 U	0.056 J	.3 U	.3 U	.3 U	.3 U	0.30 U
SODIUM			UG/L	1860	381000	196000	15000	6820	38600	103000	4140
THALLIUM	0.24	8	UG/L	2.0 U	2 U	2 U	2 U	2 U	2 U	2 U	2.0 U
VANADIUM	3.6	14	UG/L	10 U	10 U	**16.9**	10 U	10 U	10 U	3.1 J	**7.5 J**
ZINC	1100		UG/L	13.3	16.6 J	32.4	11.6 J	9.9 J	199 J	10.8 J	33.5

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	UN	UN	UN	UN	UN	UN	UN	UN
			Excavation Number:	X74	X85	X85	X107	X108	X109	X113	X116
			Sample Name:	C7-CWM-WW-X74-UN01-4.5	C7-CWM-WW-X85-UN01-6	C7-CWM-WW-X85-UN02-4	C7-CWM-WW-X107-UN01-3.5	C7-CWM-WW-X108-UN01-3.5	C7-CWM-WW-X109-UN01-3.5	C7-CWM-WW-X113-UN01-3.5	C7-CWM-WW-X116-UN01-4
			Sample Depth:	4.5 FT	6 FT	4 FT	3.5 FT	3.5 FT	3.5 FT	3.5 FT	4 FT
			Sample Date:	9/18/2006	9/22/2006	9/22/2006	10/9/2006	10/9/2006	10/9/2006	10/9/2006	10/13/2006
			Parent Name:								
Analyte	**Crit1**	**Crit2**	**Unit**								
General Chemistry											
CYANIDE	73	5.2	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Crit1: U.S. EPA Region 9 PRG Tap Water, 2004

Crit2: New York State TOG Surface Water, 1998

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	UN	UN	UN	UN	UN	UN	UN	UN
			Excavation Number:	X116	X116	X118	X119	X120	X121	X125	X125
			Sample Name:	C7-CWM-WW-X116-UN02-4	C7-CWM-WW-X116-UN03-4	C7-CWM-WW-X118-UN01-4	C7-CWM-WW-X119-UN01-4	C7-CWM-WW-X120-UN01-4	C7-CWM-WW-X121-UN01-11	C7-CWM-WW-X125-UN01-2	C7-CWM-WW-DUP10
			Sample Depth:	4 FT	4 FT	4 FT	4 FT	4 FT	11 FT	2 FT	2 FT
			Sample Date:	10/13/2006	10/13/2006	10/10/2006	10/10/2006	10/10/2006	10/12/2006	10/12/2006	10/12/2006
			Parent Name:								C7-CWM-WW-X125-UN01-2
Analyte	**Crit1**	**Crit2**	**Unit**								
Volatile Organic Compounds (8260B)											
1,1,1-TRICHLOROETHANE	320	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-TETRACHLOROETHANE	0.055	0.2	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	0.2	1	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHANE	81	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHYLENE	34	0.7	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	0.12	0.6	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROPROPANE	0.16	1	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-BUTANONE	700	50	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-METHYL-2-PENTANONE	200		UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
ACETONE	550	50	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
BENZENE	0.35	10	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CARBON DISULFIDE	100	60	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CARBON TETRACHLORIDE	0.17	0.4	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROBENZENE	11	400	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROFORM	0.017	7	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,2-DICHLOROETHENE	6.1	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DICHLORODIFLUOROMETHANE	39	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ETHYLBENZENE	130	17	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ISOPROPYLBENZENE	66	2.6	UG/L	1.0 U	1.0 U				1.0 U	1.0 U	1.0 U
M+P-XYLENE	21		UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
METHYLENE CHLORIDE	4.3	200	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
O-XYLENE	21	65	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
STYRENE	160	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TETRACHLOROETHENE	0.1	1	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOLUENE	72	100	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,2-DICHLOROETHENE	12	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,3-DICHLOROPROPENE			UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROETHYLENE	1.4	40	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
VINYL CHLORIDE	0.02	0.3	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
XYLENES (TOTAL)	21		UG/L								
Semi-Volatile Organic Compounds (8151/8270C/8310)											
1,2,4-TRICHLOROBENZENE	0.72	5	UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	0.23 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	UN	UN	UN	UN	UN	UN	UN	UN
			Excavation Number:	X116	X116	X118	X119	X120	X121	X125	X125
			Sample Name:	C7-CWM-WW-X116-UN02-4	C7-CWM-WW-X116-UN03-4	C7-CWM-WW-X118-UN01-4	C7-CWM-WW-X119-UN01-4	C7-CWM-WW-X120-UN01-4	C7-CWM-WW-X121-UN01-11	C7-CWM-WW-X125-UN01-2	C7-CWM-WW-DUP10
			Sample Depth:	4 FT	4 FT	4 FT	4 FT	4 FT	11 FT	2 FT	2 FT
			Sample Date:	10/13/2006	10/13/2006	10/10/2006	10/10/2006	10/10/2006	10/12/2006	10/12/2006	10/12/2006
			Parent Name:								C7-CWM-WW-X125-UN01-2
Analyte	**Crit1**	**Crit2**	**Unit**								
1,2-BENZPHENANTHRACENE	9.2	0.002	UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	0.23 U
1,2-DICHLOROBENZENE	37	5	UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	0.23 U
1,3-DICHLOROBENZENE	18	5	UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	0.23 U
1,4-DICHLOROBENZENE	0.5	5	UG/L	0.21 J	0.23 U	0.21 U	0.12 J	0.22 U	0.24 U	0.21 U	0.23 U
2,2'-OXYBIS(1-CHLOROPROPANE)	0.27	5	UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	0.23 U
2,4,5-TRICHLOROPHENOL	360		UG/L	1.1 U	1.1 U	1.1 U	1.0 U	1.1 U	1.2 U	1.1 U	1.1 U
2,4-DICHLOROPHENOL	11	0.3	UG/L	1.1 U	1.1 U	1.1 U	1.0 U	1.1 U	1.2 U	1.1 U	1.1 U
2,4-DIMETHYLPHENOL	73	1000	UG/L	1.1 U	1.1 U	1.1 U	1.0 U	1.1 U	1.2 U	1.1 U	1.1 U
2-CHLOROPHENOL	3		UG/L	1.1 U	1.1 U	1.1 U	1.0 U	1.1 U	1.2 U	1.1 U	1.1 U
2-METHYLNAPHTHALENE	0.62	4.7	UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	0.23 U
2-METHYLPHENOL	180		UG/L	1.1 U	1.1 U	1.1 U	1.0 U	1.1 U	1.2 U	1.1 U	1.1 U
4-CHLORO-3-METHYLPHENOL			UG/L	1.1 U	1.1 U	1.1 U	1.0 U	1.1 U	1.2 U	1.1 U	1.1 U
4-METHYLPHENOL	18		UG/L	1.1 U	1.1 U	1.1 U	1.0 U	1.1 U	1.2 U	1.1 U	1.1 U
ACENAPHTHENE	37	5.3	UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	0.23 U
ACENAPHTHYLENE	37		UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	0.23 U
ANTHRACENE	180	3.8	UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	0.23 U
BENZ[A]ANTHRACENE	0.092	0.03	UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	0.23 U
BENZO[A]PYRENE	0.0092	0.0012	UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	0.23 U
BENZO[B]FLUORANTHENE	0.092	0.002	UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	0.23 U
BENZO[GHI]PERYLENE	18		UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	0.23 U
BENZO[K]FLUORANTHENE	0.92	0.002	UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	0.23 U
BENZYL BUTYL PHTHALATE	730	50	UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	0.23 U
BIS(2-ETHYLHEXYL) PHTHALATE	4.8	0.6	UG/L	**56**	**18 J**	**1.5**	**0.89**	**1**	**2.2 J**	**4.4 J**	**83 J**
CARBAZOLE	3.4		UG/L	0.22 U	0.23 U	0.21 U	0.092 J	0.22 U	0.24 U	0.21 U	0.23 U
DIBENZ[A,H]ANTHRACENE	0.0092		UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	0.23 U
DIBENZOFURAN	1.2		UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	0.23 U
DIETHYL PHTHALATE	2900	50	UG/L	0.22 U	0.23 U	0.15 J	0.20 U	0.22 U	0.16 J	0.21 U	0.11 J
DI-N-BUTYL PHTHALATE	360	50	UG/L	0.14 J	0.15 J	0.38	0.12 J	0.18 J	0.16 J	0.21 U	0.23 J
DI-N-OCTYL PHTHALATE	150	50	UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	0.23 U
FLUORANTHENE	150	50	UG/L	0.22 U	0.23 U	0.21 U	0.061 J	0.14 J	0.24 U	0.21 U	0.23 U
FLUORENE	24	0.54	UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	0.23 U
HEXACHLORO-1,3-BUTADIENE	0.86	0.01	UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	0.23 U
HEXACHLOROBENZENE	0.042	0.00003	UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	0.23 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	UN	UN	UN	UN	UN	UN	UN	UN
			Excavation Number:	X116	X116	X118	X119	X120	X121	X125	X125
			Sample Name:	C7-CWM-WW-X116-UN02-4	C7-CWM-WW-X116-UN03-4	C7-CWM-WW-X118-UN01-4	C7-CWM-WW-X119-UN01-4	C7-CWM-WW-X120-UN01-4	C7-CWM-WW-X121-UN01-11	C7-CWM-WW-X125-UN01-2	C7-CWM-WW-DUP10
			Sample Depth:	4 FT	4 FT	4 FT	4 FT	4 FT	11 FT	2 FT	2 FT
			Sample Date:	10/13/2006	10/13/2006	10/10/2006	10/10/2006	10/10/2006	10/12/2006	10/12/2006	10/12/2006
			Parent Name:								C7-CWM-WW-X125-UN01-2
Analyte	**Crit1**	**Crit2**	**Unit**								
HEXACHLOROCYCLOPENTADIENE	22		UG/L	0.54 U	0.57 U	0.53 U	0.51 U	0.54 U	0.60 U	0.53 U	0.57 U
HEXACHLOROETHANE	3.6	0.6	UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	0.23 U
INDENO[1,2,3-CD]PYRENE	0.092	0.002	UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	0.23 U
ISOPHORONE	71	50	UG/L	0.22 U	0.23 J	0.19 J	0.20 U	0.2 J	0.24 U	0.19 J	0.23 U
NAPHTHALENE	0.62	13	UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	0.23 U
N-NITROSODI-N-PROPYLAMINE	0.0096		UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	0.23 U
N-NITROSODIPHENYLAMINE	14	50	UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	
PENTACHLOROPHENOL	0.56		UG/L	**3**	**5.4**	2.7 U	2.6 U	2.7 U	3.0 U	2.7 U	2.8 U
PHENANTHRENE	0.62	5	UG/L	0.22 U	0.23 U	0.21 U	0.20 U	0.22 U	0.24 U	0.21 U	0.23 U
PHENOL	1100	1	UG/L	1.1 U	1.1 U	1.1 U	1.0 U	1.1 U	1.2 U	1.1 U	1.1 U
PYRENE	18	4.6	UG/L	0.22 U	0.23 U	0.21 U	0.061 J	0.2 J	0.24 U	0.21 U	0.23 U
Pesticides (8081)/Polychlorinated Biphenyls(8082)											
4,4'-DDE	0.2	0.000007	UG/L	0.054 U	0.055 U	**0.018 J**	0.053 U	0.051 U	0.056 U	0.054 U	**0.012 J**
4,4'-DDT	0.2	0.00001	UG/L	0.054 U	0.055 U	0.053 U	0.053 U	0.051 U	0.056 U	0.054 U	0.055 U
ALPHA-BHC	0.011	0.002	UG/L	0.054 U	0.055 U	0.053 U	0.053 U	0.051 U	0.056 U	0.054 U	0.055 U
ALPHA-CHLORDANE	0.19		UG/L	0.054 U	0.055 U	0.053 U	0.053 U	0.051 U	0.056 U	0.054 U	0.055 U
AROCLOR 1016	0.26		UG/L	0.54 U	0.55 U	0.53 U	0.53 U	0.51 U	0.56 U	0.54 U	0.55 U
AROCLOR 1260	0.034		UG/L	0.54 U	0.55 U	0.53 U	0.53 U	0.51 U	0.56 U	0.54 U	0.55 U
BETA-BHC	0.037	0.007	UG/L	0.054 U	0.055 U	0.053 U	0.053 U	0.051 U	0.056 U	0.054 U	0.055 U
DELTA-BHC	0.011	0.008	UG/L	0.054 U	0.055 U	0.053 U	0.053 U	0.051 U	0.056 U	0.054 U	0.055 U
DIELDRIN	0.0042	0.0000006	UG/L	0.054 U	0.055 U	0.053 U	0.053 U	0.051 U	0.056 U	0.054 U	0.055 U
ENDOSULFAN I	22		UG/L	0.054 U	0.055 U	0.053 U	0.053 U	0.051 U	0.056 U	0.054 U	0.055 U
ENDOSULFAN II	22		UG/L	0.054 U	0.055 U	0.053 U	0.053 U	0.051 U	0.056 U	0.054 U	0.055 U
ENDOSULFAN SULFATE	22		UG/L	0.054 U	0.055 U	0.053 U	0.053 U	0.051 U	0.056 U	0.054 U	0.055 U
ENDRIN ALDEHYDE	1.1	5	UG/L	0.054 U	0.055 U	0.053 U	0.053 U	0.051 U	0.056 U	0.054 U	0.055 U
GAMMA-BHC	0.052	0.008	UG/L	0.054 U	0.055 U	0.053 U	0.053 U	0.051 U	0.056 U	0.054 U	0.055 U
GAMMA-CHLORDANE	0.19		UG/L	0.054 U	0.055 U	0.053 U	0.053 U	0.051 U	0.056 U	0.054 U	0.055 U
HEPTACHLOR	0.015	0.0002	UG/L	0.054 U	0.055 U	**0.038 J**	0.053 U	0.051 U	0.056 U	0.054 U	0.055 U
HEPTACHLOR EPOXIDE	0.0074	0.0003	UG/L	0.054 U	0.055 U	0.053 U	0.053 U	0.051 U	0.056 U	0.054 U	0.055 U
METHOXYCHLOR	18	0.03	UG/L	0.054 U	0.055 U	0.053 U	0.053 U	0.051 U	0.056 U	0.054 U	0.055 U
Explosives (8330)											
1,3-DINITROBENZENE	0.36	5	UG/L	0.21 U	0.21 U	0.20 U	0.20 U	0.21 U	0.21 U	0.21 U	0.22 U
2,4-DINITROTOLUENE	0.099	5	UG/L	0.21 U	0.21 U	0.20 U	0.20 U	0.21 U	0.21 U	0.21 U	0.22 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	UN	UN	UN	UN	UN	UN	UN	UN
			Excavation Number:	X116	X116	X118	X119	X120	X121	X125	X125
			Sample Name:	C7-CWM-WW-X116-UN02-4	C7-CWM-WW-X116-UN03-4	C7-CWM-WW-X118-UN01-4	C7-CWM-WW-X119-UN01-4	C7-CWM-WW-X120-UN01-4	C7-CWM-WW-X121-UN01-11	C7-CWM-WW-X125-UN01-2	C7-CWM-WW-DUP10
			Sample Depth:	4 FT	4 FT	4 FT	4 FT	4 FT	11 FT	2 FT	2 FT
			Sample Date:	10/13/2006	10/13/2006	10/10/2006	10/10/2006	10/10/2006	10/12/2006	10/12/2006	10/12/2006
			Parent Name:								C7-CWM-WW-X125-UN01-2
Analyte	**Crit1**	**Crit2**	**Unit**								
2,6-DINITROTOLUENE	0.099	0.07	UG/L	0.21 U	0.21 U	0.20 U	0.20 U	0.21 U	0.21 U	0.21 U	0.22 U
2-AMINO-4,6-DINITROTOLUENE	0.73		UG/L	0.21 U	0.21 U	0.20 U	0.20 U	0.21 U	0.21 U	0.21 U	0.22 U
4-AMINO-2,6-DINITROTOLUENE	0.73		UG/L	0.21 U	0.21 U	0.20 U	0.20 U	0.21 U	0.21 U	0.21 U	0.22 U
4-NITROTOLUENE	0.66	5	UG/L	0.42 U	0.42 U	0.40 U	0.41 U	0.42 U	0.42 U	0.43 U	0.44 U
HMX	180		UG/L	0.19 J	0.42 U	0.40 U	0.41 U	0.42 U	0.42 U	0.43 U	0.44 U
RDX	0.61		UG/L	0.42 U	0.42 U	0.40 U	0.41 U	0.42 U	0.42 U	0.43 U	0.44 U
Metals (6010B/6020/7841/7470A/7471A)											
ALUMINUM	3600	100	UG/L	**12900**	**7800**	**1080**	**192**	**146**	**13000**	100 U	100 U
ANTIMONY	1.5	3	UG/L	0.32 J	0.34 J	0.22 J	0.2 J	0.17 J	0.82 J	0.18 J	0.21 J
ARSENIC	0.045		UG/L	**2.8 J**	**2.4 J**	**3.5 J**	**2 J**	5.0 U	**16.6**	5 U	5 U
BARIUM	260	1000	UG/L	140	105	57.6	36	32.1	142	77	79.3
BERYLLIUM	7.3	3	UG/L	0.55	0.34	0.052 J	0.20 U	0.039 J	0.62	.2 U	.2 U
BORON	730	10000	UG/L	56.3 J	48.9 J	75.7	146	83.7	91.7 J	192 J	193 J
CADMIUM	1.8	5	UG/L	0.25 J	0.19 J	0.19 J	0.50 U	0.50 U	0.41 J	.5 U	.5 U
CALCIUM			UG/L	185000	101000	70100	146000	81400	866000	148000	150000
CHROMIUM	11		UG/L	**18.7**	**14.7**	1.8 J	2.0 U	5.4	**17.9**	2 U	2 U
COBALT	73	5	UG/L	**9**	4.2	1.2	0.092 J	0.12 J	**11.6**	1 U	1 U
COPPER	150	200	UG/L	35.1	24	11.2	18.2	7.7	33.2	3	3.2
IRON	1100	300	UG/L	**24200**	**10800**	**2470**	**546**	154	**28200**	**11300**	**11600**
LEAD	15		UG/L	9.2	7	2.1	0.93 J	1.7 J	14.3	0.88 J	0.89 J
LITHIUM	73		UG/L	25.5	16.2	3	19.2	2.7	**126**	4.4	4.3
MAGNESIUM		35000	UG/L	**38300**	20200	12600	10100	2690	**231000**	29900	29700
MANGANESE	88	300	UG/L	**887**	**268**	**273**	**109**	47.6	**4400**	**995**	**1020**
MERCURY	1.1		UG/L	0.20 U	0.20 U	0.05 J	0.073 J	0.051 J	0.2 U	0.20 U	0.2 U
MOLYBDENUM	18		UG/L	5.0 U	5.0 U	5 U	5 U	5 U	5 U	5 U	5 U
NICKEL	73		UG/L	21.9	12.5	4	5.1	4.4	47.2	2.3	2.5
POTASSIUM			UG/L	8230	12500	12600	5500	4030	9840	9330	9500
SELENIUM	18		UG/L	5.0 U	1.2 J	5.0 U	1.9 J	5.0 U	5.2	1.8 J	1.4 J
SILVER	18	0.1	UG/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.3 U	.3 U	.3 U
SODIUM			UG/L	9370	5730	7330	45900	7410	170000	23100	22400
THALLIUM	0.24	8	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**2 U**	2 U	2 U
VANADIUM	3.6	14	UG/L	**29.2**	**17**	2.8 J	10 U	**4.8 J**	**28.8**	10 U	10 U
ZINC	1100		UG/L	72.1	45.9	28.9 J	20.8 J	6.4 J	49.4	86	91.6

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	UN	UN	UN	UN	UN	UN	UN	UN
			Excavation Number:	X116	X116	X118	X119	X120	X121	X125	X125
			Sample Name:	C7-CWM-WW-X116-UN02-4	C7-CWM-WW-X116-UN03-4	C7-CWM-WW-X118-UN01-4	C7-CWM-WW-X119-UN01-4	C7-CWM-WW-X120-UN01-4	C7-CWM-WW-X121-UN01-11	C7-CWM-WW-X125-UN01-2	C7-CWM-WW-DUP10
			Sample Depth:	4 FT	4 FT	4 FT	4 FT	4 FT	11 FT	2 FT	2 FT
			Sample Date:	10/13/2006	10/13/2006	10/10/2006	10/10/2006	10/10/2006	10/12/2006	10/12/2006	10/12/2006
			Parent Name:								C7-CWM-WW-X125-UN01-2
Analyte	**Crit1**	**Crit2**	**Unit**								
General Chemistry											
CYANIDE	73	5.2	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Crit1: U.S. EPA Region 9 PRG Tap Water, 2004
Crit2: New York State TOG Surface Water, 1998
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	WC	WW	WW	WW	WW	WW	WW	WW
			Excavation Number:	X62	X04	X24	X29	X37	X41	X42	X45
			Sample Name:	C7-CWM-WW-X62-WC01-4	C7-CWM-WW-X04-WW01-4	C7-CWM-WW-X24-WW01-5.5	C7-CWM-WW-X29-WW01-4	C7-CWM-WW-X37-WW01-5.5	C7-CWM-WW-X41-WW01-6	C7-CWM-WW-X42-WW01-6	C7-CWM-WW-X45-WW01-5
			Sample Depth:	4 FT	4 FT	5.5 FT	4 FT	5.5 FT	6 FT	5 FT	4.5 FT
			Sample Date:	9/13/2006	8/21/2006	8/29/2006	8/30/2006	9/5/2006	9/6/2006	9/6/2006	9/7/2006
			Parent Name:								
Analyte	**Crit1**	**Crit2**	**Unit**								
Volatile Organic Compounds (8260B)											
1,1,1-TRICHLOROETHANE	320	5	UG/L	1.0 U	1.0 U	1.0 U	**230**	0.79 J	**5.9**	0.98 J	1.0 U
1,1,2,2-TETRACHLOROETHANE	0.055	0.2	UG/L	1.0 U	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	0.2	1	UG/L	1.0 U	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHANE	81	5	UG/L	0.47 J	1.0 U	1.0 U	**1100**	0.67 J	**5.2**	**15**	1.0 U
1,1-DICHLOROETHYLENE	34	0.7	UG/L	1.0 U	1.0 U	1.0 U	**1000**	1.0 U	0.5 J	1.0 U	1.0 U
1,2-DICHLOROETHANE	0.12	0.6	UG/L	1.0 U	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROPROPANE	0.16	1	UG/L	1.0 U	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U
2-BUTANONE	700	50	UG/L	5.0 U	5.0 U	5.0 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U
4-METHYL-2-PENTANONE	200		UG/L	5.0 U	5.0 U	5.0 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U
ACETONE	550	50	UG/L	5.0 U	5.0 U	26 J	250 U	35 J	5.0 U	5.0 U	5.0 U
BENZENE	0.35	10	UG/L	1.0 U	1.0 U	1.0 U		1.0 U	1.0 U	1.0 U	1.0 U
CARBON DISULFIDE	100	60	UG/L	1.0 U	3	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U
CARBON TETRACHLORIDE	0.17	0.4	UG/L	1.0 U	1.0 U	1.0 U	50 U	**20**	**54 J**	1.0 U	1.0 U
CHLOROBENZENE	11	400	UG/L	1.0 U	1.0 U	1.0 U	**2000**	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROFORM	0.017	7	UG/L	1.0 U	1.0 U	1.0 U	50 U	**16**	**110 J**	1.0 U	1.0 U
CIS-1,2-DICHLOROETHENE	6.1	5	UG/L	**130**	1.0 U	1.0 U	**190000**	**14**	**98 J**	**5.3**	1.0 U
DICHLORODIFLUOROMETHANE	39	5	UG/L	1.0 U	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U
ETHYLBENZENE	130	17	UG/L	1.0 U	1.0 U	1.0 U	**6500**	1.0 U	1.0 U	1.0 U	1.0 U
ISOPROPYLBENZENE	66	2.6	UG/L	1.0 U	1.0 U	1.0 U	**640**	1.0 U	1.0 U	1.0 U	1.0 U
M+P-XYLENE	21		UG/L	0.56 J	1.0 U	1.0 U	**11000**	1.0 U	1.0 U	1.0 U	1.0 U
METHYLENE CHLORIDE	4.3	200	UG/L	1 U	1 U	1.0 U	**50 U**	1.0 U	**42 J**	1 U	1 U
O-XYLENE	21	65	UG/L	1.0 U	1.0 U	1.0 U	**3500 J**	1.0 U	1.0 U	1.0 U	1.0 U
STYRENE	160	5	UG/L	1.0 U	1.0 U	1.0 U	**360**	1.0 U	1.0 U	1.0 U	1.0 U
TETRACHLOROETHENE	0.1	1	UG/L	1.0 U	1.0 U	1.0 U	**160**	**16**	**55 J**	1.0 U	1.0 U
TOLUENE	72	100	UG/L	0.49 J	1.0 U	0.8 J	**15000**	1.0 U	1.7 J	1.0 U	1.0 U
TRANS-1,2-DICHLOROETHENE	12	5	UG/L	1.6	1.0 U	1.0 U	**300**	1.0 U	0.49 J	1.0 U	1.0 U
TRANS-1,3-DICHLOROPROPENE			UG/L	1.0 U	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROETHYLENE	1.4	40	UG/L	1.0 U	1.0 U	1.0 U	**34000**	**10**	**62 J**	0.62 J	1.0 U
VINYL CHLORIDE	0.02	0.3	UG/L	**34**	1.0 U	1.0 U	**260 J**	1.0 U	**2.2 J**	**0.93 J**	1.0 U
XYLENES (TOTAL)	21		UG/L								
Semi-Volatile Organic Compounds (8151/8270C/8310)											
1,2,4-TRICHLOROBENZENE	0.72	5	UG/L	0.21 U	0.25 U	0.25 U	0.22 U	0.25	**1.4**	0.22 U	0.20 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	WC	WW	WW	WW	WW	WW	WW	WW
			Excavation Number:	X62	X04	X24	X29	X37	X41	X42	X45
			Sample Name:	C7-CWM-WW-X62-WC01-4	C7-CWM-WW-X04-WW01-4	C7-CWM-WW-X24-WW01-5.5	C7-CWM-WW-X29-WW01-4	C7-CWM-WW-X37-WW01-5.5	C7-CWM-WW-X41-WW01-6	C7-CWM-WW-X42-WW01-6	C7-CWM-WW-X45-WW01-5
			Sample Depth:	4 FT	4 FT	5.5 FT	4 FT	5.5 FT	6 FT	5 FT	4.5 FT
			Sample Date:	9/13/2006	8/21/2006	8/29/2006	8/30/2006	9/5/2006	9/6/2006	9/6/2006	9/7/2006
			Parent Name:								
Analyte	**Crit1**	**Crit2**	**Unit**								
1,2-BENZPHENANTHRACENE	9.2	0.002	UG/L	0.21 U	**0.29 J**	0.25 U	0.22 U	0.24 U	0.22 U	0.22 U	0.20 U
1,2-DICHLOROBENZENE	37	5	UG/L	0.21 U	0.25 U	0.25 U	**2900**	0.24 U	0.22 U	0.22 U	0.20 U
1,3-DICHLOROBENZENE	18	5	UG/L	0.21 U	0.25 U	0.25 U	0.22 U	0.24 U	0.2 J	0.22 U	0.20 U
1,4-DICHLOROBENZENE	0.5	5	UG/L	0.21 U	0.25 U	0.25 U	**360 J**	0.24 U	0.22 U	0.22 U	0.20 U
2,2'-OXYBIS(1-CHLOROPROPANE)	0.27	5	UG/L	0.21 U	0.25 U	0.25 U	0.22 U	0.24 U	0.22 U	0.22 U	0.20 U
2,4,5-TRICHLOROPHENOL	360		UG/L	1.1 U	1.3 U	1.2 U	1.1 U	1.2 U	1.1 U	1.1 U	1.0 U
2,4-DICHLOROPHENOL	11	0.3	UG/L	1.1 U	1.3 U	1.2 U	1.1 U	1.2 U	1.1 U	1.1 U	1.0 U
2,4-DIMETHYLPHENOL	73	1000	UG/L	1.1 U	1.3 U	1.2 U	1.1 U	1.2 U	1.1 U	1.1 U	1.0 U
2-CHLOROPHENOL	3		UG/L	1.1 U	1.3 U	1.2 U	1.1 U	1.2 U	1.1 U	1.1 U	1.0 U
2-METHYLNAPHTHALENE	0.62	4.7	UG/L	0.21 U	0.25 U	0.25 U	**140**	0.24 U	0.22 U	0.22 U	0.16 J
2-METHYLPHENOL	180		UG/L	1.1 U	1.3 U	1.2 U	1.1 U	1.2 U	1.1 U	1.1 U	1.0 U
4-CHLORO-3-METHYLPHENOL			UG/L	1.1 U	1.3 U	1.2 U	1.1 U	1.2 U	1.1 U	1.1 U	1.0 U
4-METHYLPHENOL	18		UG/L	1.1 U	1.3 U	1.2 U	**420 J**	1.2 U	1.1 U	1.1 U	1.0 U
ACENAPHTHENE	37	5.3	UG/L	0.21 U	0.25 U	0.25 U	0.22 U	0.24 U	0.22 U	0.22 U	0.20 U
ACENAPHTHYLENE	37		UG/L	0.21 U	0.25 U	0.25 U	0.22 U	0.24 U	0.22 U	0.22 U	0.20 U
ANTHRACENE	180	3.8	UG/L	0.21 U	0.25 U	0.25 U	0.22 U	0.24 U	0.22 U	0.22 U	0.20 U
BENZ[A]ANTHRACENE	0.092	0.03	UG/L	0.21 U	**0.4 J**	0.25 U	0.22 U	0.24 U	0.22 U	0.22 U	0.20 U
BENZO[A]PYRENE	0.0092	0.0012	UG/L	0.21 U	**0.22 J**	0.25 U	0.22 U	0.24 U	0.22 U	0.22 U	0.20 U
BENZO[B]FLUORANTHENE	0.092	0.002	UG/L	0.21 U	**0.39 J**	0.25 U	0.22 U	0.24 U	0.22 U	0.22 U	0.20 U
BENZO[GHI]PERYLENE	18		UG/L	0.21 U	0.12 J	0.25 U	0.22 U	0.24 U	0.22 U	0.22 U	0.20 U
BENZO[K]FLUORANTHENE	0.92	0.002	UG/L	0.21 U	**0.14 J**	0.25 U	0.22 U	0.24 U	0.22 U	0.22 U	0.20 U
BENZYL BUTYL PHTHALATE	730	50	UG/L	0.21 U	0.25 U	0.25 U	0.22 U	0.24 U	0.22 U	0.22 U	0.20 U
BIS(2-ETHYLHEXYL) PHTHALATE	4.8	0.6	UG/L	**2.6**	**9**	**1.5**	**2.8 J**	**1.2 J**	**0.74**	**0.83**	**1.1**
CARBAZOLE	3.4		UG/L	0.21 U	0.12 J	0.25 U	0.22 U	0.24 U	0.22 U	0.22 U	0.20 U
DIBENZ[A,H]ANTHRACENE	0.0092		UG/L	0.21 U	0.25 U	0.25 U	0.22 U	0.24 U	0.22 U	0.22 U	0.20 U
DIBENZOFURAN	1.2		UG/L	0.21 U	0.25 U	0.25 U	0.22 U	0.24 U	0.22 U	0.22 U	0.20 U
DIETHYL PHTHALATE	2900	50	UG/L	0.21 U	0.16 J	0.23 J	0.22 U	0.24 U	0.22 U	0.22 U	0.1 J
DI-N-BUTYL PHTHALATE	360	50	UG/L	0.21 U	0.25 U	0.25 U	0.22 U	0.24 U	0.18 J	0.22 U	0.13 J
DI-N-OCTYL PHTHALATE	150	50	UG/L	0.21 U	0.25 U	0.25 U	0.22 U	0.24 U	0.22 U	0.22 U	0.20 U
FLUORANTHENE	150	50	UG/L	0.21 U	0.82 J	0.25 U	0.22 U	0.24 U	0.22 U	0.22 U	0.20 U
FLUORENE	24	0.54	UG/L	0.21 U	0.25 U	0.25 U	**21 J**	0.24 U	0.22 U	0.22 U	0.20 U
HEXACHLORO-1,3-BUTADIENE	0.86	0.01	UG/L	0.21 U	0.25 U	0.25 U	0.22 U	0.24 U	0.22 U	0.22 U	0.20 U
HEXACHLOROBENZENE	0.042	0.00003	UG/L	0.21 U	0.25 U	0.25 U	0.22 U	**0.14 J**	0.22 U	0.22 U	0.20 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	WC	WW	WW	WW	WW	WW	WW	WW
			Excavation Number:	X62	X04	X24	X29	X37	X41	X42	X45
			Sample Name:	C7-CWM-WW-X62-WC01-4	C7-CWM-WW-X04-WW01-4	C7-CWM-WW-X24-WW01-5.5	C7-CWM-WW-X29-WW01-4	C7-CWM-WW-X37-WW01-5.5	C7-CWM-WW-X41-WW01-6	C7-CWM-WW-X42-WW01-6	C7-CWM-WW-X45-WW01-5
			Sample Depth:	4 FT	4 FT	5.5 FT	4 FT	5.5 FT	6 FT	5 FT	4.5 FT
			Sample Date:	9/13/2006	8/21/2006	8/29/2006	8/30/2006	9/5/2006	9/6/2006	9/6/2006	9/7/2006
			Parent Name:								
Analyte	**Crit1**	**Crit2**	**Unit**								
HEXACHLOROCYCLOPENTADIENE	22		UG/L	0.21 U	0.25 U	0.25 U	0.22 U	0.24 U	0.22 U	0.22 U	0.51 U
HEXACHLOROETHANE	3.6	0.6	UG/L	0.21 U	0.25 U	0.25 U	0.22 U	0.24 U	0.22 U	0.22 U	0.20 U
INDENO[1,2,3-CD]PYRENE	0.092	0.002	UG/L	0.21 U	**0.15 J**	0.25 U	0.22 U	0.24 U	0.22 U	0.22 U	0.20 U
ISOPHORONE	71	50	UG/L	0.21 U	0.25 U	0.38	0.22 U	0.24 U	0.22 U	0.22 U	0.20 U
NAPHTHALENE	0.62	13	UG/L	0.14 J	0.25 U	0.25 U	**140**	0.24 U	0.22 U	0.22 U	0.46
N-NITROSODI-N-PROPYLAMINE	0.0096		UG/L	0.21 U	0.25 U	0.25 U	0.22 U	0.24 U	0.22 U	0.22 U	0.20 U
N-NITROSODIPHENYLAMINE	14	50	UG/L	0.21 U	0.25 U	0.25 U	0.22 U	0.24 U	0.22 U	0.16 J	0.20 U
PENTACHLOROPHENOL	0.56		UG/L	2.6 U	1.3 U	3.1 U	2.8 U	3.0 U	2.8 U	2.7 U	2.6 U
PHENANTHRENE	0.62	5	UG/L	0.21 U	0.38 J	0.25 U	0.22 U	0.24 U	0.22 U	0.22 U	0.20 U
PHENOL	1100	1	UG/L	1.1 U	1.3 U	1.2 U	**12000 J**	1.2 U	1.1 U	1.1 U	1.0 U
PYRENE	18	4.6	UG/L	0.21 U	0.62 J	0.25 U	0.22 U	0.24 U	0.22 U	0.22 U	0.20 U
Pesticides (8081)/Polychlorinated Biphenyls(8082)											
4,4'-DDE	0.2	0.000007	UG/L	0.056 U	0.056 U	0.059 U	**0.057 J**	0.054 U	0.054 U	0.056 U	0.26 U
4,4'-DDT	0.2	0.00001	UG/L	0.056 U	0.056 U	0.059 U	0.054 U	0.054 U	0.054 U	0.056 U	0.26 U
ALPHA-BHC	0.011	0.002	UG/L	0.056 U	0.056 U	0.059 U	0.054 U	0.054 U	0.054 U	0.056 U	0.26 U
ALPHA-CHLORDANE	0.19		UG/L	0.056 U	0.056 U	0.059 U	0.03 J	0.054 U	0.054 U	0.056 U	0.26 U
AROCLOR 1016	0.26		UG/L	0.56 U	0.56 U	0.59 U	**13**	0.54 U	0.54 U	0.56 U	5.3 U
AROCLOR 1260	0.034		UG/L	0.56 U	0.56 U	0.59 U	1.1 U	0.54 U	0.54 U	0.56 U	**42**
BETA-BHC	0.037	0.007	UG/L	0.056 U	0.056 U	0.059 U	**0.15 J**	0.054 U	0.054 U	0.056 U	0.26 U
DELTA-BHC	0.011	0.008	UG/L	0.056 U	0.056 U	0.059 U	**0.16 J**	0.054 U	0.054 U	0.056 U	0.26 U
DIELDRIN	0.0042	0.0000006	UG/L	0.056 U	0.056 U	0.059 U	0.054 U	0.054 U	0.054 U	**0.45 NJ**	0.26 U
ENDOSULFAN I	22		UG/L	0.056 U	0.056 U	0.059 U	0.031 J	0.054 U	0.054 U	0.056 U	0.26 U
ENDOSULFAN II	22		UG/L	0.056 U	0.056 U	0.059 U	0.054 U	0.054 U	0.054 U	0.056 U	0.26 U
ENDOSULFAN SULFATE	22		UG/L	0.056 U	0.056 U	0.059 U	0.054 U	0.054 U	0.054 U	0.056 U	0.26 U
ENDRIN ALDEHYDE	1.1	5	UG/L	0.056 U	0.056 U	0.059 U	0.06 J	0.054 U	0.054 U	0.056 U	0.26 U
GAMMA-BHC	0.052	0.008	UG/L	0.056 U	0.056 U	0.059 U	0.054 U	0.054 U	0.054 U	0.056 U	0.26 U
GAMMA-CHLORDANE	0.19		UG/L	0.056 U	0.056 U	0.059 U	0.054 U	0.054 U	0.054 U	0.056 U	0.26 U
HEPTACHLOR	0.015	0.0002	UG/L	0.056 U	0.056 U	0.059 U	0.054 U	0.054 U	0.054 U	0.056 U	0.26 U
HEPTACHLOR EPOXIDE	0.0074	0.0003	UG/L	0.056 U	**0.28**	0.059 U	0.054 U	**0.22 J**	0.054 U	0.056 U	0.26 U
METHOXYCHLOR	18	0.03	UG/L	0.056 U	0.056 U	0.059 U	0.054 U	0.054 U	0.054 U	**0.25 NJ**	**0.27 J**
Explosives (8330)											
1,3-DINITROBENZENE	0.36	5	UG/L	0.22 U	0.22 U	0.21 U	0.21 U	0.21 U	0.22 U	0.22 U	0.22 U
2,4-DINITROTOLUENE	0.099	5	UG/L	0.22 U	0.22 U	0.21 U	0.21 U	0.21 U	0.22 U	0.22 U	0.22 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	WC	WW	WW	WW	WW	WW	WW	WW
			Excavation Number:	X62	X04	X24	X29	X37	X41	X42	X45
			Sample Name:	C7-CWM-WW-X62-WC01-4	C7-CWM-WW-X04-WW01-4	C7-CWM-WW-X24-WW01-5.5	C7-CWM-WW-X29-WW01-4	C7-CWM-WW-X37-WW01-5.5	C7-CWM-WW-X41-WW01-6	C7-CWM-WW-X42-WW01-6	C7-CWM-WW-X45-WW01-5
			Sample Depth:	4 FT	4 FT	5.5 FT	4 FT	5.5 FT	6 FT	5 FT	4.5 FT
			Sample Date:	9/13/2006	8/21/2006	8/29/2006	8/30/2006	9/5/2006	9/6/2006	9/6/2006	9/7/2006
			Parent Name:								
Analyte	**Crit1**	**Crit2**	**Unit**								
2,6-DINITROTOLUENE	0.099	0.07	UG/L	0.22 U	0.22 U	0.21 U	0.21 U	0.21 U	0.22 U	0.22 U	0.22 U
2-AMINO-4,6-DINITROTOLUENE	0.73		UG/L	0.22 U	0.22 U	0.21 U	0.21 U	0.21 U	0.22 U	0.22 U	0.22 U
4-AMINO-2,6-DINITROTOLUENE	0.73		UG/L	0.22 U	0.22 U	0.21 U	0.21 U	0.21 U	0.22 U	0.22 U	0.22 U
4-NITROTOLUENE	0.66	5	UG/L	0.44 U	0.44 U	0.42 U	0.42 U	0.42 U	0.44 U	0.44 U	0.44 U
HMX	180		UG/L	0.44 U	0.44 U	0.42 U	0.42 U	0.42 U	0.44 U	0.44 U	0.44 U
RDX	0.61		UG/L	0.44 U	0.44 U	0.42 U	0.42 U	0.42 U	0.44 U	0.44 U	0.44 U
Metals (6010B/6020/7841/7470A/7471A)											
ALUMINUM	3600	100	UG/L	100 U	**38300 J**	**6180 J**	**590**	**160**	45.5 J	97.2 J	**101**
ANTIMONY	1.5	3	UG/L	1.0 U	5 U	**2.7**	0.5 J	0.67 J	0.26 J	1 U	**3.1**
ARSENIC	0.045		UG/L	5.0 U	**7.8 J**	**45.8**	**1.5 J**	5.0 U	5 U	**1.6 J**	5 U
BARIUM	260	1000	UG/L	47.6	**668**	150	218	27.9	60.4	107	69.1
BERYLLIUM	7.3	3	UG/L	0.20 U	1.8	0.32	0.20 U	0.20 U	.2 U	.2 U	.2 U
BORON	730	10000	UG/L	431	100 U	524 J	223 J	348	626 J	104 J	86.7
CADMIUM	1.8	5	UG/L	0.50 U	2.5 U	**10.5 J**	0.50 U	0.44 J	0.39 J	.5 U	**1.8**
CALCIUM			UG/L	103000	409000	97800	266000	37500	85600	173000	124000
CHROMIUM	11		UG/L	2.0 U	**46.1**	**59.2**	4	2.4	2 U	2 U	2 U
COBALT	73	5	UG/L	1.0 U	**27.3**	**34.2**	1.6	0.26 J	1	0.039 J	0.15 J
COPPER	150	200	UG/L	1.4 J	108	**1080 J**	6.9	45.2	17.3	1.8 J	11.1
IRON	1100	300	UG/L	**10600**	**57600**	**261000**	**54600**	**376**	**1250**	**3720**	220
LEAD	15		UG/L	0.24 J	**35.3**	**257**	2.2	2.3	0.71 J	0.33 J	1.1 J
LITHIUM	73		UG/L	8.6	72	18.2	6.4 J	7.7	12.7	3.4	4.3
MAGNESIUM		35000	UG/L	17500	**56700**	30300	**55100**	3340	7160	33000	13300
MANGANESE	88	300	UG/L	**361**	**4520**	**2910**	**3090**	74.5	**681**	**1730**	42.2
MERCURY	1.1		UG/L	0.20 U	**9.8**	0.94	0.20 U	0.2 U	0.2 U	.2 U	0.047 J
MOLYBDENUM	18		UG/L	2.2 J	25 U	**28.6**	5 U	1.5 J	5 U	5 U	5 U
NICKEL	73		UG/L	0.49 J	60	**111 J**	3.1	5	6.9	1.4	3.5
POTASSIUM			UG/L	4620	6550	455000	3240	5230	6860	1940	4650
SELENIUM	18		UG/L	5.0 U	5 U	8.8 J	5.0 U	5.0 U	5 U	5 U	5 U
SILVER	18	0.1	UG/L	0.30 U	1.5 U	**0.46**	0.30 U	0.30 U	.3 U	.3 U	.3 U
SODIUM			UG/L	8460	12400	106000	373000	2870	5240	7960	3180
THALLIUM	0.24	8	UG/L	2.0 U	10 U	2 U	2 U	2.0 U	2 U	2 U	2 U
VANADIUM	3.6	14	UG/L	10 U	**72.6**	**41.9**	10 U	10 U	10 U	10 U	10 U
ZINC	1100		UG/L	4.6 J	155 J	575 J	26.9	49.5	15.7	23.5	87.3

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	WC	WW	WW	WW	WW	WW	WW	WW
			Excavation Number:	X62	X04	X24	X29	X37	X41	X42	X45
			Sample Name:	C7-CWM-WW-X62-WC01-4	C7-CWM-WW-X04-WW01-4	C7-CWM-WW-X24-WW01-5.5	C7-CWM-WW-X29-WW01-4	C7-CWM-WW-X37-WW01-5.5	C7-CWM-WW-X41-WW01-6	C7-CWM-WW-X42-WW01-6	C7-CWM-WW-X45-WW01-5
			Sample Depth:	4 FT	4 FT	5.5 FT	4 FT	5.5 FT	6 FT	5 FT	4.5 FT
			Sample Date:	9/13/2006	8/21/2006	8/29/2006	8/30/2006	9/5/2006	9/6/2006	9/6/2006	9/7/2006
			Parent Name:								
Analyte	**Crit1**	**Crit2**	**Unit**								
General Chemistry											
CYANIDE	73	5.2	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Crit1: U.S. EPA Region 9 PRG Tap Water, 2004
Crit2: New York State TOG Surface Water, 1998
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	WW	WW	WW	WW	WW	WW	WW	WW
			Excavation Number:	X49	X55	X56	X56	X75	X75	X76	X78
			Sample Name:	C7-CWM-WW-X49-WW01-5	C7-CWM-WW-X55-WW01-7.5	C7-CWM-WW-X56-WW01-7	C7-CWM-WW-DUP6	C7-CWM-WW-X75-WW01-5	C7-CWM-WW-DUP7	C7-CWM-WW-X76-WW01-3.5	C7-CWM-WW-X78-WW01-5.5
			Sample Depth:	5 FT	7.5 FT	7 FT	7 FT	5 FT	5 FT	3.5 FT	5.5 FT
			Sample Date:	9/11/2006	9/11/2006	9/12/2006	9/12/2006	9/19/2006	9/19/2006	9/19/2006	9/20/2006
			Parent Name:				C7-CWM-WW-X56-WW01-7		C7-CWM-WW-X75-WW01-5		
Analyte	**Crit1**	**Crit2**	**Unit**								
Volatile Organic Compounds (8260B)											
1,1,1-TRICHLOROETHANE	320	5	UG/L	1.0 U	1.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.6
1,1,2,2-TETRACHLOROETHANE	0.055	0.2	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	0.2	1	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHANE	81	5	UG/L	1.0 U	1.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**13**
1,1-DICHLOROETHYLENE	34	0.7	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	0.12	0.6	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROPROPANE	0.16	1	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-BUTANONE	700	50	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-METHYL-2-PENTANONE	200		UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
ACETONE	550	50	UG/L	5.0 U	5.0 U	5.0 U	11 J	5.0 U	5.0 U	5.0 U	5.0 U
BENZENE	0.35	10	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CARBON DISULFIDE	100	60	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CARBON TETRACHLORIDE	0.17	0.4	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROBENZENE	11	400	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROFORM	0.017	7	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,2-DICHLOROETHENE	6.1	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2
DICHLORODIFLUOROMETHANE	39	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ETHYLBENZENE	130	17	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ISOPROPYLBENZENE	66	2.6	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
M+P-XYLENE	21		UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
METHYLENE CHLORIDE	4.3	200	UG/L	0.98 J	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
O-XYLENE	21	65	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
STYRENE	160	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TETRACHLOROETHENE	0.1	1	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOLUENE	72	100	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,2-DICHLOROETHENE	12	5	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,3-DICHLOROPROPENE			UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROETHYLENE	1.4	40	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.45 J
VINYL CHLORIDE	0.02	0.3	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
XYLENES (TOTAL)	21		UG/L								
Semi-Volatile Organic Compounds (8151/8270C/8310)											
1,2,4-TRICHLOROBENZENE	0.72	5	UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	WW	WW	WW	WW	WW	WW	WW	WW
			Excavation Number:	X49	X55	X56	X56	X75	X75	X76	X78
			Sample Name:	C7-CWM-WW-X49-WW01-5	C7-CWM-WW-X55-WW01-7.5	C7-CWM-WW-X56-WW01-7	C7-CWM-WW-DUP6	C7-CWM-WW-X75-WW01-5	C7-CWM-WW-DUP7	C7-CWM-WW-X76-WW01-3.5	C7-CWM-WW-X78-WW01-5.5
			Sample Depth:	5 FT	7.5 FT	7 FT	7 FT	5 FT	5 FT	3.5 FT	5.5 FT
			Sample Date:	9/11/2006	9/11/2006	9/12/2006	9/12/2006	9/19/2006	9/19/2006	9/19/2006	9/20/2006
			Parent Name:				C7-CWM-WW-X56-WW01-7		C7-CWM-WW-X75-WW01-5		
Analyte	**Crit1**	**Crit2**	**Unit**								
1,2-BENZPHENANTHRACENE	9.2	0.002	UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
1,2-DICHLOROBENZENE	37	5	UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
1,3-DICHLOROBENZENE	18	5	UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
1,4-DICHLOROBENZENE	0.5	5	UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
2,2'-OXYBIS(1-CHLOROPROPANE)	0.27	5	UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
2,4,5-TRICHLOROPHENOL	360		UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
2,4-DICHLOROPHENOL	11	0.3	UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
2,4-DIMETHYLPHENOL	73	1000	UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
2-CHLOROPHENOL	3		UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
2-METHYLNAPHTHALENE	0.62	4.7	UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
2-METHYLPHENOL	180		UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
4-CHLORO-3-METHYLPHENOL			UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
4-METHYLPHENOL	18		UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
ACENAPHTHENE	37	5.3	UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
ACENAPHTHYLENE	37		UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
ANTHRACENE	180	3.8	UG/L	0.12 J	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
BENZ[A]ANTHRACENE	0.092	0.03	UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
BENZO[A]PYRENE	0.0092	0.0012	UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
BENZO[B]FLUORANTHENE	0.092	0.002	UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
BENZO[GHI]PERYLENE	18		UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
BENZO[K]FLUORANTHENE	0.92	0.002	UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
BENZYL BUTYL PHTHALATE	730	50	UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
BIS(2-ETHYLHEXYL) PHTHALATE	4.8	0.6	UG/L	**1.3**	**13**	**1.9**	**1.4**	**1.6**	**0.6**	**2.1**	**0.88 J**
CARBAZOLE	3.4		UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
DIBENZ[A,H]ANTHRACENE	0.0092		UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
DIBENZOFURAN	1.2		UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
DIETHYL PHTHALATE	2900	50	UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
DI-N-BUTYL PHTHALATE	360	50	UG/L	0.12 J	0.18 J	0.22 U	0.21 U	0.22 U	0.14 J	0.12 J	0.11 J
DI-N-OCTYL PHTHALATE	150	50	UG/L	0.21 U	0.47	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
FLUORANTHENE	150	50	UG/L	0.19 J	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
FLUORENE	24	0.54	UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
HEXACHLORO-1,3-BUTADIENE	0.86	0.01	UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
HEXACHLOROBENZENE	0.042	0.00003	UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	WW	WW	WW	WW	WW	WW	WW	WW
			Excavation Number:	X49	X55	X56	X56	X75	X75	X76	X78
			Sample Name:	C7-CWM-WW-X49-WW01-5	C7-CWM-WW-X55-WW01-7.5	C7-CWM-WW-X56-WW01-7	C7-CWM-WW-DUP6	C7-CWM-WW-X75-WW01-5	C7-CWM-WW-DUP7	C7-CWM-WW-X76-WW01-3.5	C7-CWM-WW-X78-WW01-5.5
			Sample Depth:	5 FT	7.5 FT	7 FT	7 FT	5 FT	5 FT	3.5 FT	5.5 FT
			Sample Date:	9/11/2006	9/11/2006	9/12/2006	9/12/2006	9/19/2006	9/19/2006	9/19/2006	9/20/2006
			Parent Name:				C7-CWM-WW-X56-WW01-7		C7-CWM-WW-X75-WW01-5		
Analyte	**Crit1**	**Crit2**	**Unit**								
HEXACHLOROCYCLOPENTADIENE	22		UG/L	0.53 U	0.54 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
HEXACHLOROETHANE	3.6	0.6	UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
INDENO[1,2,3-CD]PYRENE	0.092	0.002	UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
ISOPHORONE	71	50	UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
NAPHTHALENE	0.62	13	UG/L	0.17 J	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
N-NITROSODI-N-PROPYLAMINE	0.0096		UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
N-NITROSODIPHENYLAMINE	14	50	UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
PENTACHLOROPHENOL	0.56		UG/L	2.7 U	2.7 U	2.7 U	2.7 U	2.8 U	2.8 U	2.7 U	2.7 U
PHENANTHRENE	0.62	5	UG/L	0.44	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
PHENOL	1100	1	UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
PYRENE	18	4.6	UG/L	0.21 U	0.22 U	0.22 U	0.21 U	0.22 U	0.23 U	0.21 U	0.22 U
Pesticides (8081)/Polychlorinated Biphenyls(8082)											
4,4'-DDE	0.2	0.000007	UG/L	0.053 U	**0.013 J**	0.054 U	0.054 U	0.053 U	0.053 U	0.053 U	0.053 U
4,4'-DDT	0.2	0.00001	UG/L	**0.16 J**	**0.047 J**	0.054 U	0.054 U	0.053 U	0.053 U	0.053 U	0.053 U
ALPHA-BHC	0.011	0.002	UG/L	0.053 U	0.053 U	0.054 U	0.054 U	0.053 U	0.053 U	0.053 U	0.053 U
ALPHA-CHLORDANE	0.19		UG/L	0.053 U	0.053 U	0.054 U	0.054 U	0.053 U	0.053 U	0.053 U	0.053 U
AROCLOR 1016	0.26		UG/L	0.53 U	0.53 U	0.54 U	0.54 U	0.53 U	0.53 U	0.53 U	0.53 U
AROCLOR 1260	0.034		UG/L	**2.9**	0.53 U	0.54 U	0.54 U	0.53 U	0.53 U	0.53 U	0.53 U
BETA-BHC	0.037	0.007	UG/L	0.053 U	0.053 U	0.054 U	0.054 U	0.053 U	0.053 U	0.053 U	0.053 U
DELTA-BHC	0.011	0.008	UG/L	0.053 U	0.053 U	0.054 U	0.054 U	0.053 U	0.053 U	0.053 U	0.053 U
DIELDRIN	0.0042	0.0000006	UG/L	**0.14 J**	**0.018 J**	0.054 U	0.054 U	0.053 U	0.053 U	0.053 U	0.053 U
ENDOSULFAN I	22		UG/L	0.053 U	0.053 U	0.054 U	0.054 U	0.053 U	0.053 U	0.053 U	0.053 U
ENDOSULFAN II	22		UG/L	0.053 U	0.053 U	0.054 U	0.054 U	0.053 U	0.053 U	0.053 U	0.053 U
ENDOSULFAN SULFATE	22		UG/L	0.053 U	0.053 U	0.054 U	0.054 U	0.053 U	0.053 U	0.053 U	0.053 U
ENDRIN ALDEHYDE	1.1	5	UG/L	0.099 J	0.017 J	0.054 U	0.054 U	0.053 U	0.053 U	0.053 U	0.053 U
GAMMA-BHC	0.052	0.008	UG/L	0.053 U	0.053 U	0.054 U	0.054 U	0.053 U	0.053 U	0.053 U	0.053 U
GAMMA-CHLORDANE	0.19		UG/L	0.053 U	0.053 U	0.054 U	0.054 U	0.053 U	0.053 U	0.053 U	0.053 U
HEPTACHLOR	0.015	0.0002	UG/L	0.053 U	0.053 U	0.054 U	0.054 U	0.053 U	0.053 U	0.053 U	0.053 U
HEPTACHLOR EPOXIDE	0.0074	0.0003	UG/L	0.053 U	**0.04 J**	0.054 U	0.054 U	0.053 U	0.053 U	0.053 U	0.053 U
METHOXYCHLOR	18	0.03	UG/L	0.053 U	0.053 U	0.054 U	0.054 U	0.053 U	0.053 U	0.053 U	0.053 U
Explosives (8330)											
1,3-DINITROBENZENE	0.36	5	UG/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.20 U	0.21 U	0.21 U
2,4-DINITROTOLUENE	0.099	5	UG/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.20 U	0.21 U	0.21 U

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	WW	WW	WW	WW	WW	WW	WW	WW
			Excavation Number:	X49	X55	X56	X56	X75	X75	X76	X78
			Sample Name:	C7-CWM-WW-X49-WW01-5	C7-CWM-WW-X55-WW01-7.5	C7-CWM-WW-X56-WW01-7	C7-CWM-WW-DUP6	C7-CWM-WW-X75-WW01-5	C7-CWM-WW-DUP7	C7-CWM-WW-X76-WW01-3.5	C7-CWM-WW-X78-WW01-5.5
			Sample Depth:	5 FT	7.5 FT	7 FT	7 FT	5 FT	5 FT	3.5 FT	5.5 FT
			Sample Date:	9/11/2006	9/11/2006	9/12/2006	9/12/2006	9/19/2006	9/19/2006	9/19/2006	9/20/2006
			Parent Name:				C7-CWM-WW-X56-WW01-7		C7-CWM-WW-X75-WW01-5		
Analyte	**Crit1**	**Crit2**	**Unit**								
2,6-DINITROTOLUENE	0.099	0.07	UG/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.20 U	0.21 U	0.21 U
2-AMINO-4,6-DINITROTOLUENE	0.73		UG/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.20 U	0.21 U	0.21 U
4-AMINO-2,6-DINITROTOLUENE	0.73		UG/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.20 U	0.21 U	0.21 U
4-NITROTOLUENE	0.66	5	UG/L	0.42 U	0.42 U	0.42 U	0.43 U	0.42 U	0.40 U	0.43 U	0.41 U
HMX	180		UG/L	0.42 U	0.42 U	0.42 U	0.43 U	0.42 U	0.40 U	0.43 U	0.41 U
RDX	0.61		UG/L	0.42 U	0.42 U	0.42 U	0.43 U	0.42 U	0.40 U	0.43 U	0.41 U
Metals (6010B/6020/7841/7470A/7471A)											
ALUMINUM	3600	100	UG/L	100 U	**214**	99.5 J	57.9 J	100 U	100 U	100 U	100 U
ANTIMONY	1.5	3	UG/L	0.45 J	**3.5**	**2.8**	**2.7**	**5.5**	**5.5**	**2.5**	0.46 J
ARSENIC	0.045		UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
BARIUM	260	1000	UG/L	44.1	46.6	45.7	44.9	59.4	58.6	61.1	86.6
BERYLLIUM	7.3	3	UG/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
BORON	730	10000	UG/L	69.6	95.2	85	82.1	81.5	81.3	85.5	89.2
CADMIUM	1.8	5	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
CALCIUM			UG/L	74900	124000	114000	111000	116000	115000	129000	174000
CHROMIUM	11		UG/L	2.0 U	2	2.0 U	3.8	2.0 U	2.0 U	2.0 U	2.0 U
COBALT	73	5	UG/L	1.0 U	1 U	0.1 J	0.087 J	1.0 U	1.0 U	1.0 U	1.0 U
COPPER	150	200	UG/L	1.9 J	70.1	44.3	42	12.5	11.3	4.1	8.9
IRON	1100	300	UG/L	**1580**	**820**	**485**	**408**	110	150	**365**	172
LEAD	15		UG/L	0.33 J	0.35 J	0.2 J	2.0 U	0.46 J	2.0 U	0.55 J	2.0 U
LITHIUM	73		UG/L	4	53.9	49.7	48	68.4	68.6	**101**	4.5
MAGNESIUM		35000	UG/L	12200	13600	14500	14100	14400	14200	22000	26000
MANGANESE	88	300	UG/L	**109**	55	**101**	**93.1**	2.0 U	2.0 U	17.3	13.8
MERCURY	1.1		UG/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
MOLYBDENUM	18		UG/L	5 U	5 U	1.7 J	2 J	5 U	5 U	5 U	5 U
NICKEL	73		UG/L	1	12.4	12.4	13.8	3.1	2.5	2.8	1.4
POTASSIUM			UG/L	7390	4030	4300	4210	4690	4660	3460	1840
SELENIUM	18		UG/L	5.0 U	1.3 J	5.0 U	0.76 J	5.0 U	5.0 U	5.0 U	5.0 U
SILVER	18	0.1	UG/L	**0.12 J**	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
SODIUM			UG/L	14200	5150	5530	5330	4570	4560	6750	8020
THALLIUM	0.24	8	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
VANADIUM	3.6	14	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ZINC	1100		UG/L	16.3	36.3	25.8	22.5	14.3	9.2 J	10.7	14.6

TABLE 5-9 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	WW	WW	WW	WW	WW	WW	WW	WW
			Excavation Number:	X49	X55	X56	X56	X75	X75	X76	X78
			Sample Name:	C7-CWM-WW-X49-WW01-5	C7-CWM-WW-X55-WW01-7.5	C7-CWM-WW-X56-WW01-7	C7-CWM-WW-DUP6	C7-CWM-WW-X75-WW01-5	C7-CWM-WW-DUP7	C7-CWM-WW-X76-WW01-3.5	C7-CWM-WW-X78-WW01-5.5
			Sample Depth:	5 FT	7.5 FT	7 FT	7 FT	5 FT	5 FT	3.5 FT	5.5 FT
			Sample Date:	9/11/2006	9/11/2006	9/12/2006	9/12/2006	9/19/2006	9/19/2006	9/19/2006	9/20/2006
			Parent Name:				C7-CWM-WW-X56-WW01-7		C7-CWM-WW-X75-WW01-5		
Analyte	**Crit1**	**Crit2**	**Unit**								
General Chemistry											
CYANIDE	73	5.2	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Crit1: U.S. EPA Region 9 PRG Tap Water, 2004
Crit2: New York State TOG Surface Water, 1998
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes.
Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-10 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

Analyte	Crit1	Crit2	Unit							
			Line Type:	AW	DW	SN	SN	SN	SN	SN
			Excavation:	X15	X00	X26	X27	X28	X28	X30
			Sample Name:	C7-SOM-WW-X15 UN01-6.5	C7-SOM-WW-XOO-DW02-7	C7-SOM-WW-X26 SN01-3	C7-SOM-WW-X27 SN01-5	C7-SOM-WW-X28 SN01-7	C7-SOM-WW-DUP1	C7-SOM-WW-X30 SN01-7.5
			Sample Depth:	6.5 FT	7 FT	3 FT	5 FT	7 FT	7 FT	7.5 FT
			Sample Date:	7/17/2006	8/7/2006	7/20/2006	7/21/2006	7/21/2006	7/21/2006	7/24/2006
			Parent Name:						C7-SOM-WW-X28 SN01-7	
Volatile Organic Compounds (8260B)										
ACETONE	550	50	UG/L	**200 J**	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
BENZENE	0.35	10	UG/L	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,2-DICHLOROETHENE	6.1	5	UG/L	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ETHYLBENZENE	130	17	UG/L	1.0 U	1 U	1.0 U	1.0 U	**44 J**	**45 J**	**48**
M+P-XYLENE	21		UG/L	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
METHYLENE CHLORIDE	4.3	200	UG/L	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
O-XYLENE	21	65	UG/L	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
STYRENE	160	5	UG/L	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOLUENE	72	100	UG/L	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
VINYL CHLORIDE	0.02	0.3	UG/L	1.0 U	1 U	1.0 U	1.0 U	**3.4 J**	**3.3 J**	**4.7 J**
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2-BENZPHENANTHRACENE	9.2	0.002	UG/L	0.56 U	0.22 U	0.20 U	0.53 U	0.53 U	0.53 U	**0.29**
1,2-DICHLOROBENZENE	37	5	UG/L	0.56 U	0.22 U	0.20 U	0.53 U	0.26 J	0.23 J	0.28
1,4-DICHLOROBENZENE	0.5	5	UG/L	0.56 U	0.22 U	0.20 U	0.53 U	**1.3**	**0.99**	**1**
2,4-DIMETHYLPHENOL	73	1000	UG/L	0.56 U	1.1 U	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U
2-METHYLNAPHTHALENE	0.62	4.7	UG/L	0.56 U	0.22 U	0.20 U	0.53 U	0.53 U	0.53 U	0.22 U
2-METHYLPHENOL	180		UG/L	0.56 U	1.1 U	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U
4-METHYLPHENOL	18		UG/L	0.56 U	1.1 U	1.0 U	0.53 U	0.53 U	0.53 U	1.1 U
4-NITROANILINE	3.2	5	UG/L	0.56 U	0.22 U	0.20 U	0.53 U	0.53 U	0.53 U	0.22 U
ACENAPHTHENE	37	5.3	UG/L	0.56 U	0.22 U	0.20 U	0.53 U	0.53 U	0.53 U	0.22 U
ACENAPHTHYLENE	37		UG/L	0.56 U	0.22 U	0.20 U	0.53 U	0.53 U	0.53 U	0.22 U
ANTHRACENE	180	3.8	UG/L	0.56 U	0.22 U	0.20 U	0.53 U	0.2 J	0.15 J	0.22 U
BENZ[A]ANTHRACENE	0.092	0.03	UG/L	0.56 U	0.22 U	0.20 U	0.53 U	0.53 U	0.53 U	**0.2 J**
BENZO[A]PYRENE	0.0092	0.0012	UG/L	0.56 U	0.22 U	0.20 U	0.53 U	0.53 U	0.53 U	**0.21 J**
BENZO[B]FLUORANTHENE	0.092	0.002	UG/L	0.56 U	0.22 U	0.20 U	0.53 U	0.53 U	0.53 U	**0.42**
BENZO[GHI]PERYLENE	18		UG/L	0.56 U	0.22 U	0.20 U	0.53 U	0.53 U	0.53 U	0.18 J
BENZO[K]FLUORANTHENE	0.92	0.002	UG/L	0.56 U	0.22 U	0.20 U	0.53 U	0.53 U	0.53 U	**0.14 J**
BIS(2-CHLOROETHOXY)METHANE		5	UG/L	0.56 U	0.22 U	0.20 U	0.53 U	0.53 U	0.53 U	0.22 U
BIS(2-ETHYLHEXYL) PHTHALATE	4.8	0.6	UG/L	0.56 U	**1.5**		**2.6 J**	**1.6 J**	**1.4 J**	**0.74**
CARBAZOLE	3.4		UG/L	0.56 U	0.22 U	0.20 U	0.53 U	0.53 U	0.53 U	0.22 U
DIBENZOFURAN	1.2		UG/L	0.56 U	0.22 U	0.20 U	0.53 U	0.53 U	0.53 U	0.22 U
DIETHYL PHTHALATE	2900	50	UG/L	0.25 J	0.22 U	0.29	0.14 J	0.19 J	0.53 U	0.22 U
DI-N-BUTYL PHTHALATE	360	50	UG/L	0.25 J	0.22 U	1.7 J	0.38 J	0.28 J	0.19 J	**270 J**
FLUORANTHENE	150	50	UG/L	0.43 J	0.22 U	0.20 U	0.53 U	0.53 U	0.53 U	0.68

TABLE 5-10 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	AW	DW	SN	SN	SN	SN	SN
			Excavation:	X15	X00	X26	X27	X28	X28	X30
			Sample Name:	C7-SOM-WW-X15 UN01-6.5	C7-SOM-WW-XOO-DW02-7	C7-SOM-WW-X26 SN01-3	C7-SOM-WW-X27 SN01-5	C7-SOM-WW-X28 SN01-7	C7-SOM-WW-DUP1	C7-SOM-WW-X30 SN01-7.5
			Sample Depth:	6.5 FT	7 FT	3 FT	5 FT	7 FT	7 FT	7.5 FT
			Sample Date:	7/17/2006	8/7/2006	7/20/2006	7/21/2006	7/21/2006	7/21/2006	7/24/2006
			Parent Name:						C7-SOM-WW-X28 SN01-7	
Analyte	**Crit1**	**Crit2**	**Unit**							
FLUORENE	24	0.54	UG/L	0.56 U	0.22 U	0.20 U	0.53 U	0.53 U	0.53 U	0.22 U
HEXACHLORO-1,3-BUTADIENE	0.86	0.01	UG/L	**5.9**	0.22 U	0.20 U	0.53 U	0.53 U	0.53 U	0.22 U
HEXACHLOROCYCLOPENTADIENE	22		UG/L	0.56 U	0.22 U	0.20 U	0.53 U	0.53 U	0.53 U	0.22 U
INDENO[1,2,3-CD]PYRENE	0.092	0.002	UG/L	0.56 U	0.22 U	0.20 U	0.53 U	0.53 U	0.53 U	**0.19 J**
NAPHTHALENE	0.62	13	UG/L	0.56 U	0.22 U	0.20 U	0.53 U	0.53 U	0.53 U	0.22 U
PENTACHLOROPHENOL	0.56		UG/L	1.1 U	2.8 U	1.0 U	1.1 U	**4.4 J**	**3.3 J**	
PHENANTHRENE	0.62	5	UG/L	0.56 U	0.22 U	0.20 U	0.53 U	0.53 U	0.53 U	0.28
PHENOL	1100	1	UG/L	0.56 U	1.1 U	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U
PYRENE	18	4.6	UG/L	0.27 J	0.22 U	0.20 U	0.53 U	0.53 U	0.53 U	0.42 J
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	0.28	0.0008	UG/L	0.056 U	0.052 U	0.050 U	0.053 U	0.053 U	0.053 U	**0.2 J**
4,4'-DDE	0.2	0.000007	UG/L	0.056 U	0.052 U	0.050 U	0.053 U	0.053 U	0.053 U	**0.037 J**
4,4'-DDT	0.2	0.00001	UG/L	0.056 U	0.052 U	0.050 U	0.053 U	0.053 U	0.053 U	**0.2**
ALPHA-CHLORDANE	0.19		UG/L	0.056 U	0.052 U	0.050 U	0.053 U	0.053 U	0.053 U	0.016 J
ENDOSULFAN I	22		UG/L	0.056 U	0.052 U	0.96	0.088 J	0.013 J	0.053 U	0.056 U
ENDOSULFAN II	22		UG/L	0.056 U	0.052 U	0.054	0.02 J	0.053 U	0.053 U	0.056 U
ENDOSULFAN SULFATE	22		UG/L	0.056 U	0.052 U	0.74	0.32	0.045 J	0.046 J	0.056 U
GAMMA-CHLORDANE	0.19		UG/L	0.056 U	0.052 U	0.050 U	0.053 U	0.053 U	0.053 U	0.056 U
HEPTACHLOR	0.015	0.0002	UG/L	0.056 U	0.052 U	0.050 U	0.053 U	0.053 U	0.053 U	0.056 U
HEPTACHLOR EPOXIDE	0.0074	0.0003	UG/L	0.056 U	**0.061 J**	0.050 U	0.053 U	0.053 U	0.053 U	0.056 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	3600	100	UG/L	**10600**	18 J	84.8 J	**11100**	43.2 J	29.1 J	**26600**
ANTIMONY	1.5	3	UG/L	0.2 J	1 U	0.19 J	0.44 J	0.44 J	0.5 J	**5.2**
ARSENIC	0.045		UG/L	**5.2**	5 U	5 U	**3.5 J**	5 U	5 U	**23.4**
BARIUM	260	1000	UG/L	163	15.8 J	37.9	134	72.1	69.6	**544**
BERYLLIUM	7.3	3	UG/L	0.47	0.2 U	.2 U	0.52	.2 U	.2 U	1.3
BORON	730	10000	UG/L	476	75.1	66.9	89.3	208	203	142 J
CADMIUM	1.8	5	UG/L	0.61	0.5 U	.5 U	0.29 J	.5 U	0.17 J	**17.5**
CALCIUM			UG/L	228000 J	61000	76200	112000	138000	136000	186000
CHROMIUM	11		UG/L	**16.8**	1.7 J	2 U	**15.7**	2.5	2.3	**285**
COBALT	73	5	UG/L	**8.4**	0.5 U	.5 U	**7.2**	0.5 U	0.5 U	**27.3**
COPPER	150	200	UG/L	21.6 J	2 U	2.2	50.6	7.2	7.3	**645**
IRON	1100	300	UG/L	**20700**	50 U	125	**18400**	**938**	**923**	**85100**
LEAD	15		UG/L	**188**	0.6 J	0.43 J	**21.8**	1.3 J	1.5 J	**306**
LITHIUM	73		UG/L	**96.2 J**	**146**	53.6	**83.6**	18.3	18.9	56.7 J

TABLE 5-10 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	AW	DW	SN	SN	SN	SN	SN
			Excavation:	X15	X00	X26	X27	X28	X28	X30
			Sample Name:	C7-SOM-WW-X15 UN01-6.5	C7-SOM-WW-XOO-DW02-7	C7-SOM-WW-X26 SN01-3	C7-SOM-WW-X27 SN01-5	C7-SOM-WW-X28 SN01-7	C7-SOM-WW-DUP1	C7-SOM-WW-X30 SN01-7.5
			Sample Depth:	6.5 FT	7 FT	3 FT	5 FT	7 FT	7 FT	7.5 FT
			Sample Date:	7/17/2006	8/7/2006	7/20/2006	7/21/2006	7/21/2006	7/21/2006	7/24/2006
			Parent Name:						C7-SOM-WW-X28 SN01-7	
Analyte	**Crit1**	**Crit2**	**Unit**							
MAGNESIUM		35000	UG/L	**66000**	10500	13400	21700	19500	19000	33000
MANGANESE	88	300	UG/L	**1050**	5.4	**433**	**1620**	**789**	**768**	**2260**
MERCURY	1.1		UG/L	0.2 U	0.2 U	.2 U	.2 U	.2 U	.2 U	0.54
MOLYBDENUM	18		UG/L	5 U	5 U	2.2 J	5 U	5 U	5 U	**18.1**
NICKEL	73		UG/L	18.4 J	0.39 J	1.3	17	2.3	2.2	70.5
POTASSIUM			UG/L	10500	11300	5220	6060	4780	4700	7020
SELENIUM	18		UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5.4
SILVER	18	0.1	UG/L	**0.11 J**	0.3 U	.3 U	0.077 J	.3 U	.3 U	**1.9**
SODIUM			UG/L	21900	6900	5340	7050	11400	11600	7480
THALLIUM	0.24	8	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	**0.55 J**
VANADIUM	3.6	14	UG/L	**23.5**	10 U	10 U	**25.1**	10 U	10 U	**78.4**
ZINC	1100		UG/L	137 J	50.1	30.7	117	49.4	53.4	**1600**

Crit1: U.S. EPA Region 9 PRG Tap Water, 2004
Crit2: New York State TOG Surface Water, 1998
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes.
Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-10 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

Analyte	Crit1	Crit2	Unit							
			Line Type:	SN	SN	SN	UN	UN	UN	UN
			Excavation:	X32	X33	X33	X02	X07	X19	X35
			Sample Name:	C7-SOM-WW-X32 SN01-4	C7-SOM-WW-X33 SN01-4	C7-SOM-WW-DUP2	C7-SOM-WW-X02 UN02-4	C7-SOM-WW-X07 UN01-3	C7-SOM-WW-X19 UN01-6	C7-SOM-WW-X35 UN01-6
			Sample Depth:	4 FT	4 FT	4 FT	4 FT	3 FT	6 FT	6 FT
			Sample Date:	7/25/2006	7/25/2006	7/25/2006	7/10/2006	7/12/2006	7/18/2006	7/25/2006
			Parent Name:			C7-SOM-WW-X33 SN01-4				
Volatile Organic Compounds (8260B)										
ACETONE	550	50	UG/L	5.0 U	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U
BENZENE	0.35	10	UG/L	1.0 U	1.0 U	1.0 U	**0.7 J**	1 U	1.0 U	1.0 U
CIS-1,2-DICHLOROETHENE	6.1	5	UG/L	1.3	1.2	1.0 U	1 U	1 U	1.0 U	1.0 U
ETHYLBENZENE	130	17	UG/L	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U	0.86 J
M+P-XYLENE	21		UG/L	1.0 U	1.0 U	1.0 U	0.53 J	1 U	1.0 U	1.0 U
METHYLENE CHLORIDE	4.3	200	UG/L	1 U	1.0 U	1.0 U	1 U	1 U	1.0 U	1 U
O-XYLENE	21	65	UG/L	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U	1.0 U
STYRENE	160	5	UG/L	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U	0.58 J
TOLUENE	72	100	UG/L	1.0 U	1.0 U	1.0 U	0.79 J	1 U	1.0 U	0.67 J
VINYL CHLORIDE	0.02	0.3	UG/L	1.0 U	1.0 U	1.0 U	1 U	1 U	**0.38 J**	1.0 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2-BENZPHENANTHRACENE	9.2	0.002	UG/L	0.22 U	**0.17 J**	0.22 U	.56 U	0.21 U	**0.17 J**	**0.11 J**
1,2-DICHLOROBENZENE	37	5	UG/L	0.22 U	0.20 U	0.22 U	.56 U	0.21 U	0.22 U	0.22 U
1,4-DICHLOROBENZENE	0.5	5	UG/L	0.3	0.42 J	**1.5 J**	.56 U	0.36	0.22 U	0.22 U
2,4-DIMETHYLPHENOL	73	1000	UG/L	1.1 U	1.0 U	1.1 U	1.8 J	1 U	1.1 U	1.4 J
2-METHYLNAPHTHALENE	0.62	4.7	UG/L	0.22 U	0.20 U	0.22 U	**4.3**	0.21 U	0.22 U	**0.62 J**
2-METHYLPHENOL	180		UG/L	1.1 U	1.0 U	1.1 U	4.6 J	1 U	2.3 J	0.97 J
4-METHYLPHENOL	18		UG/L	1.1 U	1.0 U	1.1 U	3.6	1 U	1.1 U	0.5 J
4-NITROANILINE	3.2	5	UG/L	0.22 U	0.20 U	0.22 U	0.56 U	0.21 U	0.22 U	1.2 J
ACENAPHTHENE	37	5.3	UG/L		0.20 U	0.22 U	0.32	0.21 U	0.22 U	**7 J**
ACENAPHTHYLENE	37		UG/L	0.22 U	0.20 U	0.22 U	.56 U	0.21 U	0.22 U	2.1
ANTHRACENE	180	3.8	UG/L	0.22 U	0.20 U	0.22 U	.56 U	0.21 U	0.22 U	**6.3**
BENZ[A]ANTHRACENE	0.092	0.03	UG/L	0.22 U	**0.14 J**	0.22 U	.56 U	0.21 U	**0.14 J**	**0.089 J**
BENZO[A]PYRENE	0.0092	0.0012	UG/L	0.22 U	0.20 U	0.22 U	.56 U	0.21 U	0.22 U	0.22 U
BENZO[B]FLUORANTHENE	0.092	0.002	UG/L	0.22 U	0.20 U	0.22 U	.56 U	0.21 U	0.22 U	0.22 U
BENZO[GHI]PERYLENE	18		UG/L	0.22 U	0.20 U	0.22 U	.56 U	0.21 U	0.22 U	0.22 U
BENZO[K]FLUORANTHENE	0.92	0.002	UG/L	0.22 U	0.20 U	0.22 U	.56 U	0.21 U	0.22 U	0.22 U
BIS(2-CHLOROETHOXY)METHANE		5	UG/L	0.22 U	0.20 U	0.22 U	.56 U	0.21 U	0.22 U	0.22 U
BIS(2-ETHYLHEXYL) PHTHALATE	4.8	0.6	UG/L	**6.2**	**0.63**	**0.72**	**8.2**	**6.3**	**2.3**	**6.4**
CARBAZOLE	3.4		UG/L	0.11 J	0.20 U	0.22 U	.56 U	0.21 U	0.22 U	**56 J**
DIBENZOFURAN	1.2		UG/L	0.22 U	0.20 U	0.22 U	0.5	0.21 U	0.22 U	**14**
DIETHYL PHTHALATE	2900	50	UG/L	0.22 U	0.20 U	0.22 U	0.22 J	0.18 J	0.38	0.14 J
DI-N-BUTYL PHTHALATE	360	50	UG/L	0.12 J	0.20 U	0.22 U	.56 U	0.29 J	0.38 J	0.22 U
FLUORANTHENE	150	50	UG/L	0.089 J	0.08 J	0.11 J	0.62	0.21 U	0.25	5

TABLE 5-10 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	UN	UN	UN	UN
			Excavation:	X32	X33	X33	X02	X07	X19	X35
			Sample Name:	C7-SOM-WW-X32 SN01-4	C7-SOM-WW-X33 SN01-4	C7-SOM-WW-DUP2	C7-SOM-WW-X02 UN02-4	C7-SOM-WW-X07 UN01-3	C7-SOM-WW-X19 UN01-6	C7-SOM-WW-X35 UN01-6
			Sample Depth:	4 FT	4 FT	4 FT	4 FT	3 FT	6 FT	6 FT
			Sample Date:	7/25/2006	7/25/2006	7/25/2006	7/10/2006	7/12/2006	7/18/2006	7/25/2006
			Parent Name:			C7-SOM-WW-X33 SN01-4				
Analyte	**Crit1**	**Crit2**	**Unit**							
FLUORENE	24	0.54	UG/L	0.22 U	0.20 U	0.22 U	**0.61**	0.21 U	0.22 U	**21**
HEXACHLORO-1,3-BUTADIENE	0.86	0.01	UG/L	0.22 U	0.20 U	0.22 U	.56 U	0.21 U	0.22 U	0.22 U
HEXACHLOROCYCLOPENTADIENE	22		UG/L	0.22 U	0.2 UJ	0.22 U	.56 U	0.21 U	0.22 U	0.22 U
INDENO[1,2,3-CD]PYRENE	0.092	0.002	UG/L	0.22 U	0.20 U	0.22 U	.56 U	0.21 U	0.22 U	0.22 U
NAPHTHALENE	0.62	13	UG/L	0.22 U	0.20 U	0.22 U	**1.1**	0.21 U	0.22 U	**14 J**
PENTACHLOROPHENOL	0.56		UG/L	**1.1 J**	2.5 U	2.8 U	1.1 U	1 U	1.1 U	2.8 U
PHENANTHRENE	0.62	5	UG/L	0.22 U	0.20 U	0.22 U	**1.7**	0.21 U	0.22 U	**48**
PHENOL	1100	1	UG/L	1.1 U	1.0 U	1.1 U	**13**	1 U	1.1 U	1.1 U
PYRENE	18	4.6	UG/L	0.067 J	0.20 U	0.22 U	0.33 J	0.21 U	0.22 U	2 J
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	0.28	0.0008	UG/L	0.050 U	**0.053 U**	0.056 U	0.056 U	0.052 U	0.057 U	**0.1 J**
4,4'-DDE	0.2	0.000007	UG/L	0.050 U	**0.012 J**	0.056 U	0.056 U	0.052 U	0.057 U	0.056 U
4,4'-DDT	0.2	0.00001	UG/L	0.050 U	**0.1**	0.056 U	0.056 U	0.052 U	0.057 U	**0.086 J**
ALPHA-CHLORDANE	0.19		UG/L	0.050 U	0.053 U	0.056 U	0.056 U	0.052 U	0.057 U	0.056 U
ENDOSULFAN I	22		UG/L	0.008 J	0.053 U	0.056 U	0.056 U	0.052 U	0.057 U	0.056 U
ENDOSULFAN II	22		UG/L	0.009 J	0.053 U	0.056 U	0.056 U	0.052 U	0.057 U	0.056 U
ENDOSULFAN SULFATE	22		UG/L	0.067	0.05 J	0.044 J	0.056 U	0.052 U	0.057 U	0.056 U
GAMMA-CHLORDANE	0.19		UG/L	0.050 U	0.053 U	0.056 U	0.056 U	0.052 U	0.057 U	**0.29 J**
HEPTACHLOR	0.015	0.0002	UG/L	0.050 U	0.053 U	0.056 U	0.056 U	0.052 U	0.057 U	**0.025 J**
HEPTACHLOR EPOXIDE	0.0074	0.0003	UG/L	0.050 U	0.053 U	0.056 U	**0.18 J**	0.052 U	0.057 U	0.056 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	3600	100	UG/L	**1970**	**31600 J**	**57200 J**	**200**	88 J	**26500**	**40600**
ANTIMONY	1.5	3	UG/L	0.16 J	0.53 J	1.2	1 U	0.47 J	0.82 J	**1.9**
ARSENIC	0.045		UG/L	**2.4 J**	**9.3**	**13**	**3.4 J**	5 U	**6.8**	**9.3**
BARIUM	260	1000	UG/L	65 J	**559 J**	**940 J**	62.7	72.3	**351**	**583 J**
BERYLLIUM	7.3	3	UG/L	0.1 J	2 J	2.9 J	0.051 J	0.2 U	1.3	1.5
BORON	730	10000	UG/L	155 J	175 J	179 J	104	20.5	**808**	143 J
CADMIUM	1.8	5	UG/L	0.32 J	0.84	0.92	.5 U	0.5 U	0.53	0.63
CALCIUM			UG/L	101000	240000 J	377000 J	15600 J	120000 J	378000 J	49300
CHROMIUM	11		UG/L	7.4	**41.5 J**	**72.5 J**	1.4 J	3.5	**82.9**	**64.5**
COBALT	73	5	UG/L	1.6	**19 J**	**31.5 J**	0.66	0.5 U	**14.4**	**20.5**
COPPER	150	200	UG/L	21.8	82.5 J	117 J	0.88 J	1.8 J	47.2 J	**153**
IRON	1100	300	UG/L	**3910**	**50400 J**	**83400 J**	**77200**	198	**38400**	**78400**
LEAD	15		UG/L	5.4	**34.6 J**	**48.3 J**	2 U	0.34 J	**32.9**	**25.1**
LITHIUM	73		UG/L	20	64.7 J	**107 J**	8.7 J	3 J	**101 J**	**255**

TABLE 5-10 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	SN	SN	UN	UN	UN	UN
			Excavation:	X32	X33	X33	X02	X07	X19	X35
			Sample Name:	C7-SOM-WW-X32 SN01-4	C7-SOM-WW-X33 SN01-4	C7-SOM-WW-DUP2	C7-SOM-WW-X02 UN02-4	C7-SOM-WW-X07 UN01-3	C7-SOM-WW-X19 UN01-6	C7-SOM-WW-X35 UN01-6
			Sample Depth:	4 FT	4 FT	4 FT	4 FT	3 FT	6 FT	6 FT
			Sample Date:	7/25/2006	7/25/2006	7/25/2006	7/10/2006	7/12/2006	7/18/2006	7/25/2006
			Parent Name:			C7-SOM-WW-X33 SN01-4				
Analyte	**Crit1**	**Crit2**	**Unit**							
MAGNESIUM		35000	UG/L	18500	**41400 J**	**51300 J**	18000	26100	**54200**	30300
MANGANESE	88	300	UG/L	**614**	**2090 J**	**3570 J**	**173**	**273**	**1470**	**1820**
MERCURY	1.1		UG/L	.2 U	.2 U	.2 U	.2 U	0.2 U	.2 U	.2 U
MOLYBDENUM	18		UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
NICKEL	73		UG/L	5.1	41.6 J	69.4 J	1 U	1 U	32.4 J	60.3
POTASSIUM			UG/L	4250	7290 J	9910 J	3650	761 J	8190	16300
SELENIUM	18		UG/L	5 U	1.1 J	1.6 J	5 U	5 U	8.9	1.2 J
SILVER	18	0.1	UG/L	**0.12 J**	**0.16 J**	**0.22 J**	.3 U	0.3 U	**0.15 J**	**0.16 J**
SODIUM			UG/L	9300	11500	11700	12400	4480	8950	12700
THALLIUM	0.24	8	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U
VANADIUM	3.6	14	UG/L	**6.1 J**	**66.8 J**	**109 J**	10 U	10 U	**48.4**	**78.7**
ZINC	1100		UG/L	34.3	147 J	188 J	14.2 J	10 U	113 J	170

Crit1: U.S. EPA Region 9 PRG Tap Water, 2004
Crit2: New York State TOG Surface Water, 1998
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes.
Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-10 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

Analyte	Crit1	Crit2	Unit			
			Line Type:	WP	WW	WW
			Excavation:	X14	X00	X29
			Sample Name:	C7-SOM-WW-X14 UN01-6	C7-SOM-WW-X00 WW3-6	C7-SOM-WW-X29 WW01-4.5
			Sample Depth:	6 FT	7 FT	4.5 FT
			Sample Date:	7/17/2006	7/17/2006	7/24/2006
			Parent Name:			
Volatile Organic Compounds (8260B)						
ACETONE	550	50	UG/L	5.0 U	5.0 U	**57 J**
BENZENE	0.35	10	UG/L	**0.39 J**	1.0 U	1.0 U
CIS-1,2-DICHLOROETHENE	6.1	5	UG/L	1.0 U	1.0 U	**7.7**
ETHYLBENZENE	130	17	UG/L	1.0 U	1.0 U	1.0 U
M+P-XYLENE	21		UG/L	0.9 J	1.0 U	1.0 U
METHYLENE CHLORIDE	4.3	200	UG/L	1.0 U	1.0 U	0.96 J
O-XYLENE	21	65	UG/L	0.42 J	1.0 U	1.0 U
STYRENE	160	5	UG/L	1.0 U	1.0 U	1.0 U
TOLUENE	72	100	UG/L	1.5	0.84 J	1.0 U
VINYL CHLORIDE	0.02	0.3	UG/L	1.0 U	1.0 U	**5.8**
Semi-Volatile Organic Compounds (8151/8270C/8310)						
1,2-BENZPHENANTHRACENE	9.2	0.002	UG/L	**0.33 J**	0.58 U	0.22 U
1,2-DICHLOROBENZENE	37	5	UG/L	0.52 U	0.58 U	0.22 U
1,4-DICHLOROBENZENE	0.5	5	UG/L	0.52 U	0.58 U	0.22 U
2,4-DIMETHYLPHENOL	73	1000	UG/L	0.52 U	0.58 U	1.1 U
2-METHYLNAPHTHALENE	0.62	4.7	UG/L	**1.3**	0.58 U	0.22 U
2-METHYLPHENOL	180		UG/L	0.52 U	0.58 U	1.1 U
4-METHYLPHENOL	18		UG/L	0.36 J	0.58 U	1.1 U
4-NITROANILINE	3.2	5	UG/L	0.52 U	0.58 U	0.22 U
ACENAPHTHENE	37	5.3	UG/L	0.52 U	0.58 U	**6.7 J**
ACENAPHTHYLENE	37		UG/L	0.52 U	0.58 U	0.22 U
ANTHRACENE	180	3.8	UG/L	0.52 U	0.58 U	1.3
BENZ[A]ANTHRACENE	0.092	0.03	UG/L	**0.43 J**	0.58 U	0.22 U
BENZO[A]PYRENE	0.0092	0.0012	UG/L	**0.3 J**	0.58 U	0.22 U
BENZO[B]FLUORANTHENE	0.092	0.002	UG/L	**0.48 J**	0.58 U	0.22 U
BENZO[GHI]PERYLENE	18		UG/L	0.52 U	0.58 U	0.22 U
BENZO[K]FLUORANTHENE	0.92	0.002	UG/L	**0.14 J**	0.58 U	0.22 U
BIS(2-CHLOROETHOXY)METHANE		5	UG/L	0.52 U	0.58 U	0.22 U
BIS(2-ETHYLHEXYL) PHTHALATE	4.8	0.6	UG/L	**1.6**	**1.1**	**1.7**
CARBAZOLE	3.4		UG/L	0.52 U	0.58 U	0.66
DIBENZOFURAN	1.2		UG/L	0.52 U	0.58 U	**1.8**
DIETHYL PHTHALATE	2900	50	UG/L	0.14 J	0.58 U	0.22 U
DI-N-BUTYL PHTHALATE	360	50	UG/L	0.52 U	0.24 J	0.11 J
FLUORANTHENE	150	50	UG/L	0.94	0.58 U	3.8

TABLE 5-10 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	WP	WW	WW
			Excavation:	X14	X00	X29
			Sample Name:	C7-SOM-WW-X14 UN01-6	C7-SOM-WW-X00 WW3-6	C7-SOM-WW-X29 WW01-4.5
			Sample Depth:	6 FT	7 FT	4.5 FT
			Sample Date:	7/17/2006	7/17/2006	7/24/2006
			Parent Name:			
Analyte	**Crit1**	**Crit2**	**Unit**			
FLUORENE	24	0.54	UG/L	0.52 U	0.58 U	**7.7**
HEXACHLORO-1,3-BUTADIENE	0.86	0.01	UG/L	0.52 U	0.58 U	0.22 U
HEXACHLOROCYCLOPENTADIENE	22		UG/L	0.52 U	0.58 U	0.22 U
INDENO[1,2,3-CD]PYRENE	0.092	0.002	UG/L	**0.18 J**	0.58 U	0.22 U
NAPHTHALENE	0.62	13	UG/L	**1.6**	0.58 U	0.14 J
PENTACHLOROPHENOL	0.56		UG/L	1 U	1.2 U	1.1 U
PHENANTHRENE	0.62	5	UG/L	**0.72**	0.58 U	**1.6**
PHENOL	1100	1	UG/L	**1.7 J**	0.58 U	1.1 U
PYRENE	18	4.6	UG/L	0.76	0.58 U	1.8 J
Pesticides (8081)/Polychlorinated Biphenyls(8082)						
4,4'-DDD	0.28	0.0008	UG/L	0.051 U	0.06 U	0.056 U
4,4'-DDE	0.2	0.000007	UG/L	0.051 U	0.06 U	0.056 U
4,4'-DDT	0.2	0.00001	UG/L	0.051 U	0.06 U	0.056 U
ALPHA-CHLORDANE	0.19		UG/L	0.051 U	0.06 U	0.056 U
ENDOSULFAN I	22		UG/L	0.051 U	0.06 U	0.056 U
ENDOSULFAN II	22		UG/L	0.051 U	0.06 U	0.056 U
ENDOSULFAN SULFATE	22		UG/L	0.051 U	0.06 U	0.088
GAMMA-CHLORDANE	0.19		UG/L	0.051 U	0.06 U	0.056 U
HEPTACHLOR	0.015	0.0002	UG/L	0.051 U	0.06 U	0.056 U
HEPTACHLOR EPOXIDE	0.0074	0.0003	UG/L	0.051 U	0.06 U	0.056 U
Metals (6010B/6020/7841/7470A/7471A)						
ALUMINUM	3600	100	UG/L	16.5 J	**701**	100 U
ANTIMONY	1.5	3	UG/L	1 U	0.82 J	0.13 J
ARSENIC	0.045		UG/L	5 U	5 U	5 U
BARIUM	260	1000	UG/L	19.4	62.4	54.6
BERYLLIUM	7.3	3	UG/L	0.2 U	0.037 J	.2 U
BORON	730	10000	UG/L	33.7	191	438 J
CADMIUM	1.8	5	UG/L	0.5 U	0.68	.5 U
CALCIUM			UG/L	15500 J	93500 J	94500
CHROMIUM	11		UG/L	1.8 J	**61.4**	2 U
COBALT	73	5	UG/L	0.5 U	1.9	0.5 U
COPPER	150	200	UG/L	5.7 J	21.3 J	1.9 J
IRON	1100	300	UG/L	**476**	**4610**	**2400**
LEAD	15		UG/L	1.2 J	**22.3**	0.59 J
LITHIUM	73		UG/L	10.4 J	**85.6 J**	12.4 J

TABLE 5-10 SUMMARY OF REPORTED CONCENTRATIONS IN WASTEWATER, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	WP	WW	WW
			Excavation:	X14	X00	X29
			Sample Name:	C7-SOM-WW-X14 UN01-6	C7-SOM-WW-X00 WW3-6	C7-SOM-WW-X29 WW01-4.5
			Sample Depth:	6 FT	7 FT	4.5 FT
			Sample Date:	7/17/2006	7/17/2006	7/24/2006
			Parent Name:			
Analyte	**Crit1**	**Crit2**	**Unit**			
MAGNESIUM		35000	UG/L	23600	17900	12700
MANGANESE	88	300	UG/L	6.7	**739**	**340**
MERCURY	1.1		UG/L	0.2 U	0.2 U	.2 U
MOLYBDENUM	18		UG/L	5 U	5 U	12.9
NICKEL	73		UG/L	1 U	4.9 J	1
POTASSIUM			UG/L	2750	4150	6740
SELENIUM	18		UG/L	5 U	0.82 J	5 U
SILVER	18	0.1	UG/L	0.3 U	0.3 U	0.041 J
SODIUM			UG/L	16300	5910	7990
THALLIUM	0.24	8	UG/L	2 U	2 U	2 U
VANADIUM	3.6	14	UG/L	10 U	3.3 J	10 U
ZINC	1100		UG/L	10 U	50.2 J	6.9 J

Crit1: U.S. EPA Region 9 PRG Tap Water, 2004
Crit2: New York State TOG Surface Water, 1998
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes.
Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-11 SUMMARY OF REPORTED CONCEN. .TIONS IN SUBSURFACE SOIL, 30-INCH OUTFALL LINE, VARIOUS PROPERTY OWNERS, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	30IN	30IN	30IN	30IN	30IN	30IN
				Excavation:	X01	X02	X03	X04	X05	X06
				Sample Name:	C7-OCC-SO-X01-SN01-7	C7-OCC-SO-X02-SN01-7	C7-OCC-SO-X03-SN01-7	C7-OCC-SO-X04-SN01-7	C7-OCC-SO-X05-SN01-7	C7-OCC-SO-X06-SN01-6
				Sample Depth:	7 FT	7 FT	7 FT	7 FT	7 FT	6 FT
				Sample Date:	8/8/2006	8/8/2006	8/8/2006	8/8/2006	8/8/2006	8/9/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
2-BUTANONE	2200000	400000	6476	UG/KG	9.8 U	9.6 U	9.7 U	11 U	10 U	10 U
ACETONE	1400000	800000	5514	UG/KG	9.8 U	9.6 U	9.7 U	20 J	10 U	10 U
CARBON DISULFIDE	36000	800000	32890	UG/KG	4.9 U	4.8 U	4.8 U	5.6 U	5.1 U	5.0 U
M+P-XYLENE	27000	20000000		UG/KG	4.9 U	4.8 U	4.8 U	5.6 U	5.1 U	5.0 U
METHYLENE CHLORIDE	9100	93000	862.5	UG/KG	9.8 U	9.6 U	9.7 U	11 U	10 U	10 U
TRICHLOROETHYLENE	2900	64000	3227	UG/KG	4.9 U	4.8 U	4.8 U	5.6 U	5.1 U	1 J
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2-BENZPHENANTHRACENE	62000		3943	UG/KG	7.9 U	7.6 U	7.9 U	7.7 U	7.8 U	7.6 U
BENZ[A]ANTHRACENE	620	224	3923	UG/KG	7.9 U	7.6 U	7.9 U	7.7 U	7.8 U	7.6 U
BENZO[A]PYRENE	62	60.9		UG/KG	7.9 U	7.6 U	7.9 U	7.7 U	7.8 U	7.6 U
BENZO[B]FLUORANTHENE	620	224	12120	UG/KG	7.9 U	7.6 U	7.9 U	7.7 U	7.8 U	7.6 U
BENZO[K]FLUORANTHENE	6200	224	12120	UG/KG	7.9 U	7.6 U	7.9 U	7.7 U	7.8 U	7.6 U
BIS(2-ETHYLHEXYL) PHTHALATE	35000	50000	372100000	UG/KG	7.9 U	7.6 U	7.9 U	7.7 U	7.8 U	7.6 U
DIETHYL PHTHALATE	4900000	6000000		UG/KG	7.9 U	7.6 U	7.9 U	7.7 U	7.8 U	7.6 U
DI-N-BUTYL PHTHALATE	610000	800000	8358000	UG/KG	7.9 U	7.6 U	7.9 U	7.7 U	7.8 U	7.6 U
FLUORANTHENE	230000	300000	26370000	UG/KG	7.9 U	7.6 U	7.9 U	7.7 U	7.8 U	7.6 U
INDENO[1,2,3-CD]PYRENE	620		34200	UG/KG	7.9 U	7.6 U	7.9 U	7.7 U	7.8 U	7.6 U
PHENANTHRENE	5600		1189000	UG/KG	7.9 U	7.6 U	7.9 U	7.7 U	7.8 U	7.6 U
PYRENE	230000	200000	16760000	UG/KG	7.9 U	7.6 U	7.9 U	7.7 U	7.8 U	7.6 U
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	2400	2900	6608000	UG/KG	2 U	1.9 U	2 U	1.9 U	2 U	1.9 U
4,4'-DDE	1700	2100	2592000	UG/KG	2 U	1.9 U	2 U	1.9 U	2 U	1.9 U
4,4'-DDT	1700	2100	85.5	UG/KG	2 U	1.9 U	1 J	1.9 U	2 U	1.9 U
DIELDRIN	30	44	422.3	UG/KG	2 U	1.9 U	2 U	1.9 U	2 U	1.9 U
ENDRIN ALDEHYDE	1800		303600	UG/KG	2 U	1.9 U	2 U	1.9 U	2 U	1.9 U
Explosives (8330)										
2,4,6-TRINITROTOLUENE	3100		45730	UG/KG	100 U	100 U	99 U	100 U	100 U	100 U
NITROBENZENE	2000	4000	419	UG/KG	100 U	100 U	99 U	100 U	100 U	100 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	7600		54000000	MG/KG	**17100**	**13800**	**14900**	**14800**	**14100**	**13900**
ANTIMONY	3.1		135.3	MG/KG	0.97 U	0.88 U	0.92 U	0.9 U	0.9 U	.95 U
ARSENIC	0.39		5003	MG/KG	**4.8 J**	**4.5**	**4.5 J**	**4.2 J**	**3.6 J**	**4.5 J**
BARIUM	540		41110	MG/KG	131	113	88.1	118	194	139 J
BERYLLIUM	15		2370	MG/KG	0.8	0.66	0.69	0.7	0.67	0.68

TABLE 5-11 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, 30-INCH OUTFALL LINE, VARIOUS PROPERTY OWNERS, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	30IN	30IN	30IN	30IN	30IN	30IN
				Excavation:	X01	X02	X03	X04	X05	X06
				Sample Name:	C7-OCC-SO-X01-SN01-7	C7-OCC-SO-X02-SN01-7	C7-OCC-SO-X03-SN01-7	C7-OCC-SO-X04-SN01-7	C7-OCC-SO-X05-SN01-7	C7-OCC-SO-X06-SN01-6
				Sample Depth:	7 FT	7 FT	7 FT	7 FT	7 FT	6 FT
				Sample Date:	8/8/2006	8/8/2006	8/8/2006	8/8/2006	8/8/2006	8/9/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
BORON	1600		3107	MG/KG	19.4 U	17.6 U	18.3 U	18 U	18 U	19 U
CADMIUM	3.7		375.5	MG/KG	0.17 J	0.16 J	0.16 J	0.15 J	0.21 J	0.14 J
CALCIUM				MG/KG	26900	49500	57300	51400	62700	67300
CHROMIUM	22		90000000	MG/KG	21.2	18.8	20.6	20.3	19.4	20.7
COBALT	140		32930	MG/KG	9.7	9.9	9.9	9.4	10	9.6 J
COPPER	310		85620	MG/KG	24.7	27.8	25.7	28.9	25	28.9
IRON	2300		7532	MG/KG	**26100**	**25100**	**27400**	**26400**	**24900**	**24700**
LEAD	400		22500	MG/KG	8.5	6.2	6.5	6.7	5.9	6.5
LITHIUM	160			MG/KG	27.2	22.7	26.1	24.6	25.6	24.2
MAGNESIUM				MG/KG	7340	10300	12200	10100	11200	11900
MANGANESE	180		19530	MG/KG	**495**	**748**	**759**	**716**	**789**	**769**
MERCURY	2.3		36.53	MG/KG	0.027 U	0.03 U	0.037 U	0.026 U	0.034 U	0.029 U
MOLYBDENUM	39		3619	MG/KG	0.43	0.35 J	0.42 J	0.37 J	0.32 J	0.5 J
NICKEL	160		602.1	MG/KG	21	20.2	22.6	22.1	21.7	22 J
POTASSIUM				MG/KG	2610	2740	3310	2900	2970	948 U
SELENIUM	39		3001	MG/KG	4.8 U	4.4 U	4.6 U	4.5 U	4.5 U	4.7 U
SILVER	39		420.4	MG/KG	0.044 J	0.042 J	0.035 J	0.03 J	0.032 J	.28 U
SODIUM				MG/KG	99.4 J	135 J	916 U	157 J	148 J	948 U
THALLIUM	0.52		750.1	MG/KG	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
VANADIUM	7.8		36000	MG/KG	**34.7**	**31**	**32.8**	**31.5**	**31.6**	**30.5**
ZINC	2300		124200	MG/KG	57.8	43.9	46.8	45.7	43.8	44.9 J
General Chemistry										
PERCENT SOLIDS				%	84	88	84	86	85	87
TOTAL ORGANIC CARBON				MG/KG						

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-11 SUMMARY OF REPORTED CONCENT. .TIONS IN SUBSURFACE SOIL, 30-INCH OUTFALL LINE, VARIOUS PROPERTY OWNERS, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	30IN	30IN	30IN	30IN	30IN	30IN
				Excavation:	X07	X08	X09	X10	X11	X11
				Sample Name:	C7-OCC-SO-X07-SN01-7	C7-OCC-SO-X08-SN01-6	C7-OCC-SO-X09-SN01-6	C7-OCC-SO-X10-SN01-6	C7-OCC-SO-X11-SN01-7	C7-OCC-SO-DUP4
				Sample Depth:	7 FT	6 FT	6 FT	6 FT	7 FT	7 FT
				Sample Date:	8/9/2006	8/9/2006	8/9/2006	8/9/2006	8/9/2006	8/9/2006
				Parent Name:						C7-OCC-SO-X11-SN01-7
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
2-BUTANONE	2200000	400000	6476	UG/KG	10 U	9.8 U	11 U	9.2 U	11 U	10 U
ACETONE	1400000	800000	5514	UG/KG	10 U	9.8 U	11 U	9.2 U	20 J	21 J
CARBON DISULFIDE	36000	800000	32890	UG/KG	5.1 U	4.9 U	5.4 U	4.6 U	5.4 U	5.2 U
M+P-XYLENE	27000	20000000		UG/KG	5.1 U	4.9 U	5.4 U	4.6 U	5.4 U	5.2 U
METHYLENE CHLORIDE	9100	93000	862.5	UG/KG	10 U	9.8 U	11 U	9.2 U	11 U	10 U
TRICHLOROETHYLENE	2900	64000	3227	UG/KG	5.1 U	4.9 U	5.4 U	4.6 U	5.4 U	5.2 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2-BENZPHENANTHRACENE	62000		3943	UG/KG	3.9 J	7.6 U	7.5 U	7.7 U	7.8 U	7.8 U
BENZ[A]ANTHRACENE	620	224	3923	UG/KG	5.8 J	7.6 U	7.5 U	7.7 U	7.8 U	7.8 U
BENZO[A]PYRENE	62	60.9		UG/KG	4.6 J	7.6 U	7.5 U	7.7 U	7.8 U	7.8 U
BENZO[B]FLUORANTHENE	620	224	12120	UG/KG	8.1	7.6 U	7.5 U	7.7 U	7.8 U	7.8 U
BENZO[K]FLUORANTHENE	6200	224	12120	UG/KG	7.7 U	7.6 U	7.5 U	7.7 U	7.8 U	7.8 U
BIS(2-ETHYLHEXYL) PHTHALATE	35000	50000	372100000	UG/KG	7.7 U	7.6 U	7.5 U	7.7 U	7.8 U	7.8 U
DIETHYL PHTHALATE	4900000	6000000		UG/KG	7.7 U	7.6 U	7.5 U	7.7 U	7.8 U	7.8 U
DI-N-BUTYL PHTHALATE	610000	800000	8358000	UG/KG	7.7 U	7.6 U	7.5 U	7.7 U	7.8 U	7.8 U
FLUORANTHENE	230000	300000	26370000	UG/KG	9.3	7.6 U	7.5 U	7.7 U	7.8 U	7.8 U
INDENO[1,2,3-CD]PYRENE	620		34200	UG/KG	3.1 J	7.6 U	7.5 U	7.7 U	7.8 U	7.8 U
PHENANTHRENE	5600		1189000	UG/KG	3.5 J	7.6 U	7.5 U	7.7 U	7.8 U	7.8 U
PYRENE	230000	200000	16760000	UG/KG	7 J	7.6 U	7.5 U	7.7 U	7.8 U	7.8 U
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	2400	2900	6608000	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
4,4'-DDE	1700	2100	2592000	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
4,4'-DDT	1700	2100	85.5	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
DIELDRIN	30	44	422.3	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
ENDRIN ALDEHYDE	1800		303600	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
Explosives (8330)										
2,4,6-TRINITROTOLUENE	3100		45730	UG/KG	100 U	100 U	99 U	100 U	100 U	51 J
NITROBENZENE	2000	4000	419	UG/KG	69 J	100 U	99 U	100 U	100 U	100 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	7600		54000000	MG/KG	**15700**	**14600**	**13200**	**17600**	**16800**	**15800**
ANTIMONY	3.1		135.3	MG/KG	.91 U	.9 U	.86 U	.91 U	.96 U	.93 U
ARSENIC	0.39		5003	MG/KG	**4.9**	**4.6**	**4.3 J**	**4.5 J**	**4.5 J**	**4.9**
BARIUM	540		41110	MG/KG	134 J	122 J	107 J	151 J	154 J	108 J
BERYLLIUM	15		2370	MG/KG	0.77	0.69	0.64	0.87	0.8	0.8

TABLE 5-11 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, 30-INCH OUTFALL LINE, VARIOUS PROPERTY OWNERS, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	30IN	30IN	30IN	30IN	30IN	30IN
				Excavation:	X07	X08	X09	X10	X11	X11
				Sample Name:	C7-OCC-SO-X07-SN01-7	C7-OCC-SO-X08-SN01-6	C7-OCC-SO-X09-SN01-6	C7-OCC-SO-X10-SN01-6	C7-OCC-SO-X11-SN01-7	C7-OCC-SO-DUP4
				Sample Depth:	7 FT	6 FT	6 FT	6 FT	7 FT	7 FT
				Sample Date:	8/9/2006	8/9/2006	8/9/2006	8/9/2006	8/9/2006	8/9/2006
				Parent Name:						C7-OCC-SO-X11-SN01-7
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
BORON	1600		3107	MG/KG	18.1 U	18 U	17.2 U	18.2 U	19.2 U	18.7 U
CADMIUM	3.7		375.5	MG/KG	0.17 J	0.14 J	0.22 J	0.22 J	0.23 J	0.22 J
CALCIUM				MG/KG	50100	60900	53200	61400	70300	62300
CHROMIUM	22		90000000	MG/KG	20.9	20.1	18.1	24.2	23.1	21.9
COBALT	140		32930	MG/KG	11.3 J	10.4 J	10.8 J	12 J	11.2 J	10.3 J
COPPER	310		85620	MG/KG	27.6	25.4	28.7	28.1	25	27.1
IRON	2300		7532	MG/KG	27400	25600	24200	29800	28000	27500
LEAD	400		22500	MG/KG	6.8	6.3	6.3	7.8	7.2	6.9
LITHIUM	160			MG/KG	25	25.6	24.6	30.3	28.3	26.5
MAGNESIUM				MG/KG	9750	11100	10900	13400	12200	13300
MANGANESE	180		19530	MG/KG	1020	695	872	836	721	657
MERCURY	2.3		36.53	MG/KG	0.031 U	0.031 U	.029 U	0.031 U	0.026 U	0.031 U
MOLYBDENUM	39		3619	MG/KG	0.46 J	0.36 J	0.4 J	0.43 J	0.45 J	0.49 J
NICKEL	160		602.1	MG/KG	24.1 J	22.1 J	22.2 J	27.3 J	24.1 J	23.3 J
POTASSIUM				MG/KG	3210 J	3020 J	2810 J	3690 J	3300 J	3110 J
SELENIUM	39		3001	MG/KG	4.5 U	4.5 U	4.3 U	4.5 U	4.8 U	4.7 U
SILVER	39		420.4	MG/KG	0.051 J	0.047 J	0.031 J	0.046 J	0.055 J	0.044 J
SODIUM				MG/KG	906 U	901 U	862 U	910 U	959 U	933 U
THALLIUM	0.52		750.1	MG/KG	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U
VANADIUM	7.8		36000	MG/KG	35.2	31.5	29.7	37	36.6	35
ZINC	2300		124200	MG/KG	46.2 J	45.2 J	42.1 J	52.4 J	48 J	46.8 J
General Chemistry										
PERCENT SOLIDS				%	86	88	88	86	85	86
TOTAL ORGANIC CARBON				MG/KG						

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004

Crit2: New York State TAGM 4046 Soil, 1999

Crit3: Site Specific Soil Screening Levels (SSLs)

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-11 SUMMARY OF REPORTED CONCEN. .TIONS IN SUBSURFACE SOIL, 30-INCH OUTFALL LINE, VARIOUS PROPERTY OWNERS, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	30IN	30IN	30IN	30IN	30IN	30IN
				Excavation:	X12	X13	X14	X15	X16	X16
				Sample Name:	C7-OCC-SO-X12-SN01-7	C7-OCC-SO-X13-SN01-6	C7-OCC-SO-X14-SN01-6	C7-OCC-SO-X15-SN01-7	C7-OCC-SO-X16-SN01-7	C7-OCC-SO-DUP5
				Sample Depth:	7 FT	6 FT	6 FT	7 FT	7 FT	7 FT
				Sample Date:	8/10/2006	8/10/2006	8/10/2006	8/10/2006	8/10/2006	8/10/2006
				Parent Name:						C7-OCC-SO-X16-SN01-7
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
2-BUTANONE	2200000	400000	6476	UG/KG	11 U	9.6 U	13 U	10 U	12 U	12 U
ACETONE	1400000	800000	5514	UG/KG	11 U	9.6 U	13 U	10 U	12 U	12 U
CARBON DISULFIDE	36000	800000	32890	UG/KG	5.6 U	4.8 U	6.4 U	5.2 U	5.9 U	5.9 U
M+P-XYLENE	27000	20000000		UG/KG	5.6 U	4.8 U	6.4 U	5.2 U	5.9 U	5.9 U
METHYLENE CHLORIDE	9100	93000	862.5	UG/KG	11 U	9.6 U	13 U	10 U	12 U	12 U
TRICHLOROETHYLENE	2900	64000	3227	UG/KG	5.6 U	4.8 U	6.4 U	5.2 U	5.9 U	5.9 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2-BENZPHENANTHRACENE	62000		3943	UG/KG	7.9 U	7.9 U	7.8 U	7.8 U	7.7 U	7.6 U
BENZ[A]ANTHRACENE	620	224	3923	UG/KG	7.9 U	7.9 U	7.8 U	7.8 U	7.7 U	7.6 U
BENZO[A]PYRENE	62	60.9		UG/KG	7.9 U	7.9 U	7.8 U	7.8 U	7.7 U	7.6 U
BENZO[B]FLUORANTHENE	620	224	12120	UG/KG	7.9 U	7.9 U	7.8 U	7.8 U	7.7 U	7.6 U
BENZO[K]FLUORANTHENE	6200	224	12120	UG/KG	7.9 U	7.9 U	7.8 U	7.8 U	7.7 U	7.6 U
BIS(2-ETHYLHEXYL) PHTHALATE	35000	50000	372100000	UG/KG	7.9 U	7.9 U	7.8 U	7.8 U	7.7 U	7.6 U
DIETHYL PHTHALATE	4900000	6000000		UG/KG	7.9 U	7.9 U	7.8 U	7.8 U	7.7 U	7.6 U
DI-N-BUTYL PHTHALATE	610000	800000	8358000	UG/KG	7.9 U	7.9 U	7.8 U	7.8 U	7.7 U	7.6 U
FLUORANTHENE	230000	300000	26370000	UG/KG	7.9 U	7.9 U	7.8 U	7.8 U	7.7 U	7.6 U
INDENO[1,2,3-CD]PYRENE	620		34200	UG/KG	7.9 U	7.9 U	7.8 U	7.8 U	7.7 U	7.6 U
PHENANTHRENE	5600		1189000	UG/KG	7.9 U	7.9 U	7.8 U	7.8 U	7.7 U	7.6 U
PYRENE	230000	200000	16760000	UG/KG	7.9 U	7.9 U	7.8 U	7.8 U	7.7 U	7.6 U
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	2400	2900	6608000	UG/KG	2.0 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U
4,4'-DDE	1700	2100	2592000	UG/KG	2.0 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U
4,4'-DDT	1700	2100	85.5	UG/KG	2.0 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U
DIELDRIN	30	44	422.3	UG/KG	2.0 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U
ENDRIN ALDEHYDE	1800		303600	UG/KG	2.0 U	2.0 U	0.6 J	2.0 U	1.9 U	1.9 U
Explosives (8330)										
2,4,6-TRINITROTOLUENE	3100		45730	UG/KG	100 U	99 U	99 U	100 U	100 U	99 U
NITROBENZENE	2000	4000	419	UG/KG	100 U	99 U	99 U	100 U	100 U	99 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	7600		54000000	MG/KG	**16300**	**17000**	**16500**	6180	**17500**	**18500**
ANTIMONY	3.1		135.3	MG/KG	0.16	.9 U	.86 U	.9 U	.86 U	.91 U
ARSENIC	0.39		5003	MG/KG	**3.5 J**	**4.5 J**	**5.1**	**3.6 J**	**3.8 J**	**4.3 J**
BARIUM	540		41110	MG/KG	133	126	147	44.1	107	115
BERYLLIUM	15		2370	MG/KG	0.8	0.79	0.8	0.27	0.74	0.84

TABLE 5-11 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, 30-INCH OUTFALL LINE, VARIOUS PROPERTY OWNERS, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	30IN	30IN	30IN	30IN	30IN	30IN
				Excavation:	X12	X13	X14	X15	X16	X16
				Sample Name:	C7-OCC-SO-X12-SN01-7	C7-OCC-SO-X13-SN01-6	C7-OCC-SO-X14-SN01-6	C7-OCC-SO-X15-SN01-7	C7-OCC-SO-X16-SN01-7	C7-OCC-SO-DUP5
				Sample Depth:	7 FT	6 FT	6 FT	7 FT	7 FT	7 FT
				Sample Date:	8/10/2006	8/10/2006	8/10/2006	8/10/2006	8/10/2006	8/10/2006
				Parent Name:						C7-OCC-SO-X16-SN01-7
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
BORON	1600		3107	MG/KG	6.2 J	8.5 J	7.6 J	18 U	10.6 J	11.4 J
CADMIUM	3.7		375.5	MG/KG	0.22 J	0.18 J	0.21 J	0.18 J	0.21 J	0.24 J
CALCIUM				MG/KG	67700	64300	77600	39900	60000	53700
CHROMIUM	22		90000000	MG/KG	21.4	**22.8**	21.1	9.4	**23.6**	**24.9**
COBALT	140		32930	MG/KG	10.3	12.1	11.1	5.2	11.1	12.3
COPPER	310		85620	MG/KG	27.6	27.8	25.7	23.1	23.5	25.6
IRON	2300		7532	MG/KG	**24700**	**27500**	**25900**	**14700**	**26300**	**28100**
LEAD	400		22500	MG/KG	6.7	7.4	6.5	3.5	6.7	7.2
LITHIUM	160			MG/KG	24	25.9	24.2	9.7	28	29.7
MAGNESIUM				MG/KG	9720	12500	10600	7080	13000	12700
MANGANESE	180		19530	MG/KG	**802**	**840**	**738**	**634**	**650**	**681**
MERCURY	2.3		36.53	MG/KG	.033 U	.031 U	.039 U	0.025 U	.023 U	.033 U
MOLYBDENUM	39		3619	MG/KG	4.8 U	4.5 U	4.3 U	4.5 U	4.3 U	4.6 U
NICKEL	160		602.1	MG/KG	23.6	26.2	22.8	10.4	24.3	25.6
POTASSIUM				MG/KG	3130	3650	2870	1090	3730	4050
SELENIUM	39		3001	MG/KG	4.8 U	4.5 U	4.3 U	4.5 U	4.3 U	4.6 U
SILVER	39		420.4	MG/KG	0.045 J	0.05 J	0.034 J	0.032 J	0.056 J	0.058 J
SODIUM				MG/KG	122 J	199 J	162 J	113 J	265 J	280 J
THALLIUM	0.52		750.1	MG/KG	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	1.8 U
VANADIUM	7.8		36000	MG/KG	**34.4**	**36.9**	**34.2**	**18.5**	**36.1**	**37.4**
ZINC	2300		124200	MG/KG	45.8	47.1	43.4	27.7	48	50.4
General Chemistry										
PERCENT SOLIDS				%	85	85	85	86	87	88
TOTAL ORGANIC CARBON				MG/KG	3100					

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004

Crit2: New York State TAGM 4046 Soil, 1999

Crit3: Site Specific Soil Screening Levels (SSLs)

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-11 SUMMARY OF REPORTED CONCEN... ...TIONS IN SUBSURFACE SOIL, 30-INCH OUTFALL LINE, VARIOUS PROPERTY OWNERS, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	30IN	30IN	30IN	30IN	30IN	30IN
				Excavation:	X17	X18	X19	X20	X21	X22
				Sample Name:	C7-OCC-SO-X17-SN01-6	C7-OCC-SO-X18-SN01-6	C7-OCC-SO-X19-SN01-6	C7-OCC-SO-X20-SN01-7	C7-OCC-SO-X21-SN01-6	C7-OCC-SO-X22-SN01-5
				Sample Depth:	6 FT	6 FT	6 FT	7 FT	6 FT	5 FT
				Sample Date:	8/11/2006	8/11/2006	8/11/2006	8/11/2006	8/14/2006	8/14/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
2-BUTANONE	2200000	400000	6476	UG/KG	12 U	11 U	15 U	11 U	9.8 U	11 U
ACETONE	1400000	800000	5514	UG/KG	12 U	11 U	15 U	11 U	9.8 U	11 U
CARBON DISULFIDE	36000	800000	32890	UG/KG	5.9 U	5.5 U	7.5 U	5.6 U	4.9 U	5.4 U
M+P-XYLENE	27000	20000000		UG/KG	5.9 U	5.5 U	7.5 U	5.6 U	13 J	5.4 U
METHYLENE CHLORIDE	9100	93000	862.5	UG/KG	12 U	11 U	15 U	11 U	9.8 U	11 U
TRICHLOROETHYLENE	2900	64000	3227	UG/KG	5.9 U	5.5 U	7.5 U	5.6 U	4.9 U	5.4 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2-BENZPHENANTHRACENE	62000		3943	UG/KG	7.7 U	7.7 U	7.5 U	7.6 U	7.6 U	7.6 U
BENZ[A]ANTHRACENE	620	224	3923	UG/KG	7.7 U	7.7 U	7.5 U	7.6 U	7.6 U	7.6 U
BENZO[A]PYRENE	62	60.9		UG/KG	7.7 U	7.7 U	7.5 U	7.6 U	7.6 U	7.6 U
BENZO[B]FLUORANTHENE	620	224	12120	UG/KG	7.7 U	7.7 U	7.5 U	7.6 U	7.6 U	7.6 U
BENZO[K]FLUORANTHENE	6200	224	12120	UG/KG	7.7 U	7.7 U	7.5 U	7.6 U	7.6 U	7.6 U
BIS(2-ETHYLHEXYL) PHTHALATE	35000	50000	372100000	UG/KG	7.7 U	7.7 U	7.5 U	7.6 U	7.6 U	7.6 U
DIETHYL PHTHALATE	4900000	6000000		UG/KG	7.7 U	7.7 U	7.5 U	3.4 J	7.6 U	7.6 U
DI-N-BUTYL PHTHALATE	610000	800000	8358000	UG/KG	7.7 U	7.7 U	7.5 U	7.6 U	4.2 J	7.6 U
FLUORANTHENE	230000	300000	26370000	UG/KG	7.7 U	7.7 U	7.5 U	7.6 U	7.6 U	7.6 U
INDENO[1,2,3-CD]PYRENE	620		34200	UG/KG	7.7 U	7.7 U	7.5 U	7.6 U	7.6 U	7.6 U
PHENANTHRENE	5600		1189000	UG/KG	7.7 U	7.7 U	7.5 U	7.6 U	7.6 U	7.6 U
PYRENE	230000	200000	16760000	UG/KG	7.7 U	7.7 U	7.5 U	7.6 U	7.6 U	7.6 U
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	2400	2900	6608000	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
4,4'-DDE	1700	2100	2592000	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
4,4'-DDT	1700	2100	85.5	UG/KG	1.9 U	0.79 J	1.9 U	1.9 U	1.9 U	1.9 U
DIELDRIN	30	44	422.3	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
ENDRIN ALDEHYDE	1800		303600	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Explosives (8330)										
2,4,6-TRINITROTOLUENE	3100		45730	UG/KG	100 U	100 U	100 U	100 U	100 U	100 U
NITROBENZENE	2000	4000	419	UG/KG	100 U	100 U	100 U	100 U	100 U	100 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	7600		54000000	MG/KG	**17000**	**17900**	**16000**	**16700**	**14900**	**16000**
ANTIMONY	3.1		135.3	MG/KG	0.16	.9 U	.89 U	.94 U	.88 U	.91 U
ARSENIC	0.39		5003	MG/KG	**4.3**	**4.1 J**	**4.1 J**	**4.1 J**	**4.2 J**	**4.8**
BARIUM	540		41110	MG/KG	175	90.8	143	144	106	196 J
BERYLLIUM	15		2370	MG/KG	0.8	0.83	0.72	0.79	0.73	0.8

TABLE 5-11 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, 30-INCH OUTFALL LINE, VARIOUS PROPERTY OWNERS, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	30IN	30IN	30IN	30IN	30IN	30IN
				Excavation:	X17	X18	X19	X20	X21	X22
				Sample Name:	C7-OCC-SO-X17-SN01-6	C7-OCC-SO-X18-SN01-6	C7-OCC-SO-X19-SN01-6	C7-OCC-SO-X20-SN01-7	C7-OCC-SO-X21-SN01-6	C7-OCC-SO-X22-SN01-5
				Sample Depth:	6 FT	6 FT	6 FT	7 FT	6 FT	5 FT
				Sample Date:	8/11/2006	8/11/2006	8/11/2006	8/11/2006	8/14/2006	8/14/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
BORON	1600		3107	MG/KG	9.1	7.5 J	8.8 J	8.5 J	16.6 J	16.8 J
CADMIUM	3.7		375.5	MG/KG	0.22	0.23 J	0.23 J	0.23 J	0.2 J	0.27 J
CALCIUM				MG/KG	56100	34900	52600	74800	57600	68600
CHROMIUM	22		90000000	MG/KG	**23.1**	**23.5**	21.6	**22.7**	20.2	21
COBALT	140		32930	MG/KG	10.7	11	11.6	10.5	9.5	12.7
COPPER	310		85620	MG/KG	26.3	24.5	27.2	25.4	23.5	27.5
IRON	2300		7532	MG/KG	**27400**	**27400**	**26600**	**27500**	**25200**	**27600**
LEAD	400		22500	MG/KG	6.6	6.8	6.8	7.3	6	6.9
LITHIUM	160			MG/KG	26.5	29	24.4	26.7	27.1	27.5
MAGNESIUM				MG/KG	11600	9340	10800	11700	12100	10300
MANGANESE	180		19530	MG/KG	**668**	**559**	**816**	**647**	**666**	**984**
MERCURY	2.3		36.53	MG/KG	0.084	0.051 J	0.046 J	0.05 J	0.025 U	.03 U
MOLYBDENUM	39		3619	MG/KG	4.6 U	4.5 U	4.5 U	4.7 U	0.45 J	0.52 J
NICKEL	160		602.1	MG/KG	25	25.8	24.3	24.1	21.7	25.4
POTASSIUM				MG/KG	3240	3240	3240	3470	2800	2650
SELENIUM	39		3001	MG/KG	0.89	4.5 U	4.5 U	4.7 U	4.4 U	4.6 U
SILVER	39		420.4	MG/KG	0.05	.27 U	0.059 J	0.11 J	0.063 J	0.053 J
SODIUM				MG/KG	186	136 J	168 J	202 J	189 J	165 J
THALLIUM	0.52		750.1	MG/KG	1.8 U	1.8 U	1.8 U	1.9 U	0.23 J	1.8 U
VANADIUM	7.8		36000	MG/KG	**34.9**	**35.2**	**33.5**	**34.8**	**30.6**	**33.6 J**
ZINC	2300		124200	MG/KG	48.2	51.3	46.9	48.6	48.5	49.1
General Chemistry										
PERCENT SOLIDS				%	87	86	89	87	87	88
TOTAL ORGANIC CARBON				MG/KG						

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-11 SUMMARY OF REPORTED CONCEN' .TIONS IN SUBSURFACE SOIL, 30-INCH OUTFALL LINE, VARIOUS PROPERTY OWNERS, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	30IN	30IN	30IN	30IN	UN
				Excavation:	X22	X23	X24	X25	X26
				Sample Name:	C7-OCC-SO-DUP6	C7-OCC-SO-X23-SN01-6.5	C7-OCC-SO-X24-SN01-6	C7-OCC-SO-X25-SN01-6	C7-OCC-SO-X26-SN01-6
				Sample Depth:	5 FT	6.5 FT	6 FT	6 FT	6 FT
				Sample Date:	8/14/2006	8/14/2006	8/14/2006	8/14/2006	8/14/2006
				Parent Name:	C7-OCC-SO-X22-SN01-5				
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**					
Volatile Organic Compounds (8260B)									
2-BUTANONE	2200000	400000	6476	UG/KG	11 U	10 U	9.1 U	9.3 U	23 J
ACETONE	1400000	800000	5514	UG/KG	11 U	10 U	9.1 U	25 J	65 J
CARBON DISULFIDE	36000	800000	32890	UG/KG	5.5 U	5.0 U	4.5 U	4.6 U	5.2 J
M+P-XYLENE	27000	20000000		UG/KG	5.5 U	5.0 U	4.5 U	4.6 U	5.6 U
METHYLENE CHLORIDE	9100	93000	862.5	UG/KG	11 U	10 U	9.1 U	9.3 U	11 U
TRICHLOROETHYLENE	2900	64000	3227	UG/KG	5.5 U	5.0 U	0.93 J	4.6 U	5.6 U
Semi-Volatile Organic Compounds (8151/8270C/8310)									
1,2-BENZPHENANTHRACENE	62000		3943	UG/KG	7.6 U	7.5 U	7.8 U	7.8 U	91 J
BENZ[A]ANTHRACENE	620	224	3923	UG/KG	7.6 U	7.5 U	7.8 U	7.8 U	95 J
BENZO[A]PYRENE	62	60.9		UG/KG	7.6 U	7.5 U	7.8 U	7.8 U	**73 J**
BENZO[B]FLUORANTHENE	620	224	12120	UG/KG	7.6 U	7.5 U	7.8 U	7.8 U	110 J
BENZO[K]FLUORANTHENE	6200	224	12120	UG/KG	7.6 U	7.5 U	7.8 U	7.8 U	34 J
BIS(2-ETHYLHEXYL) PHTHALATE	35000	50000	372100000	UG/KG	7.6 U	7.5 U	7.8 U	7.8 U	86 U
DIETHYL PHTHALATE	4900000	6000000		UG/KG	7.6 U	7.5 U	7.8 U	7.8 U	86 U
DI-N-BUTYL PHTHALATE	610000	800000	8358000	UG/KG	7.6 U	7.5 U	7.8 U	7.8 U	86 U
FLUORANTHENE	230000	300000	26370000	UG/KG	7.6 U	7.5 U	7.8 U	7.8 U	190
INDENO[1,2,3-CD]PYRENE	620		34200	UG/KG	7.6 U	7.5 U	7.8 U	7.8 U	39 J
PHENANTHRENE	5600		1189000	UG/KG	7.6 U	7.5 U	7.8 U	7.8 U	110
PYRENE	230000	200000	16760000	UG/KG	7.6 U	7.5 U	7.8 U	7.8 U	180 J
Pesticides (8081)/Polychlorinated Biphenyls(8082)									
4,4'-DDD	2400	2900	6608000	UG/KG	1.9 U	1.9 U	1.9 U	2.0 U	4.1 J
4,4'-DDE	1700	2100	2592000	UG/KG	1.9 U	1.9 U	1.9 U	2.0 U	2 J
4,4'-DDT	1700	2100	85.5	UG/KG	1.9 U	1.9 U	1.9 U	2.0 U	2.2 U
DIELDRIN	30	44	422.3	UG/KG	1.9 U	1.9 U	1.9 U	2.0 U	1.5 NJ
ENDRIN ALDEHYDE	1800		303600	UG/KG	1.9 U	1.9 U	1.9 U	2.0 U	2.2 U
Explosives (8330)									
2,4,6-TRINITROTOLUENE	3100		45730	UG/KG	100 U	99 U	100 U	99 U	100 U
NITROBENZENE	2000	4000	419	UG/KG	100 U	99 U	100 U	100 J	100 U
Metals (6010B/6020/7841/7470A/7471A)									
ALUMINUM	7600		54000000	MG/KG	**16100**	**15400**	**14400**	**15400**	**15800**
ANTIMONY	3.1		135.3	MG/KG	.84 U	.95 U	.92 U	.94 U	.95 U
ARSENIC	0.39		5003	MG/KG	**4.8**	**4.9**	**4.6**	**4.6 J**	**2.9 J**
BARIUM	540		41110	MG/KG	118 J	110	118	141	117
BERYLLIUM	15		2370	MG/KG	0.86	0.79	0.77	0.79	0.75

TABLE 5-11 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, 30-INCH OUTFALL LINE, VARIOUS PROPERTY OWNERS, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	30IN	30IN	30IN	30IN	UN
				Excavation:	X22	X23	X24	X25	X26
				Sample Name:	C7-OCC-SO-DUP6	C7-OCC-SO-X23-SN01-6.5	C7-OCC-SO-X24-SN01-6	C7-OCC-SO-X25-SN01-6	C7-OCC-SO-X26-SN01-6
				Sample Depth:	5 FT	6.5 FT	6 FT	6 FT	6 FT
				Sample Date:	8/14/2006	8/14/2006	8/14/2006	8/14/2006	8/14/2006
				Parent Name:	C7-OCC-SO-X22-SN01-5				
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**					
BORON	1600		3107	MG/KG	15.7 J	17.6 J	17.3 J	18.3 J	19.5
CADMIUM	3.7		375.5	MG/KG	0.21 J	0.22 J	0.21 J	0.22 J	0.4 J
CALCIUM				MG/KG	57700	52800	62100	51900	43700
CHROMIUM	22		90000000	MG/KG	21.7	21	20	20.5	**24.2**
COBALT	140		32930	MG/KG	10.4	12	11.2	11.4	12.1
COPPER	310		85620	MG/KG	29.6	29.2	27.5	27.2	34.3
IRON	2300		7532	MG/KG	**28900**	**26500**	**26200**	**28300**	**28200**
LEAD	400		22500	MG/KG	6.9	6.9	7	7	39.2
LITHIUM	160			MG/KG	27.4	27.1	26.5	27.6	27.6
MAGNESIUM				MG/KG	10100	10300	11800	11500	10700
MANGANESE	180		19530	MG/KG	**778**	**853**	**725**	**732**	**991**
MERCURY	2.3		36.53	MG/KG	0.1 J	0.024 U	0.032 U	.037 U	0.47
MOLYBDENUM	39		3619	MG/KG	0.47 J	0.55 J	0.54 J	0.69 J	0.8 J
NICKEL	160		602.1	MG/KG	24.3	25.4	23.4	24.3	27.2
POTASSIUM				MG/KG	2630	2780	2760	2860	2960
SELENIUM	39		3001	MG/KG	4.2 U	1.2 J	4.6 U	4.7 U	4.7 U
SILVER	39		420.4	MG/KG	0.045 J	0.043 J	0.038 J	0.052 J	0.56
SODIUM				MG/KG	155 J	142 J	184 J	219 J	545 J
THALLIUM	0.52		750.1	MG/KG	1.7 U	1.9 U	1.8 U	1.9 U	1.9 U
VANADIUM	7.8		36000	MG/KG	**34.3**	**32.2**	**30.8**	**32.5**	**35.2**
ZINC	2300		124200	MG/KG	51.7	49.1	48.3	53.6	121
General Chemistry									
PERCENT SOLIDS				%	88	89	86	85	77
TOTAL ORGANIC CARBON				MG/KG					

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004

Crit2: New York State TAGM 4046 Soil, 1999

Crit3: Site Specific Soil Screening Levels (SSLs)

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-12 SUMMARY OF REPORTED CONCENTRAT[illegible]NS IN SUBSURFACE SOIL, TOWN OF LEWISTON PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	AW	AW	AW	SN	SN	SN
				Excavation:	X06	X07	X09	X01	X02	X02
				Sample Name:	C7-LEW-SO-X06-AW01-5.5	C7-LEW-SO-X07-AW01-4	C7-LEW-SO-X09-AW01-19	C7-LEW-SO-X01-SN01-16	C7-LEW-SO-X02-SN01-10	C7-LEW-SO-DUP7
				Sample Depth:	5.5 FT	4 FT	19 FT	16 FT	10 FT	10 FT
				Sample Date:	8/16/2006	8/16/2006	8/18/2006	8/15/2006	8/15/2006	8/15/2006
				Parent Name:						C7-LEW-SO-X02-SN01-10
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
METHYLENE CHLORIDE	9100	93000	862.5	UG/KG	9.5 U	10 U	12 U	11 U	11 U	9.6 U
TRICHLOROETHYLENE	2900	64000	3227	UG/KG	4.7 U	5.2 U	5.8 U	5.4 U	5.3 U	4.8 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2-BENZPHENANTHRACENE	62000		3943	UG/KG	3.2 J	6.6 J	8.2 U	8.4 U	8.1 U	8.2 U
BENZ[A]ANTHRACENE	620	224	3923	UG/KG	4.8 J	7.8 U	8.2 U	8.4 U	8.1 U	8.2 U
BENZO[A]PYRENE	62	60.9		UG/KG	3.6 J	4.3 J	8.2 U	8.4 U	8.1 U	8.2 U
BENZO[B]FLUORANTHENE	620	224	12120	UG/KG	6.4 J	11 J	8.2 U	8.4 U	8.1 U	8.2 U
BENZO[K]FLUORANTHENE	6200	224	12120	UG/KG	8.0 U	4.3 J	8.2 U	8.4 U	8.1 U	8.2 U
DI-N-BUTYL PHTHALATE	610000	800000	8358000	UG/KG	8.0 U	7.8 U	5.8 J	8.4 U	6.1 J	5.7 J
FLUORANTHENE	230000	300000	26370000	UG/KG	8.3	7.8 U	8.2 U	8.4 U	8.1 U	8.2 U
INDENO[1,2,3-CD]PYRENE	620		34200	UG/KG	2.8 J	2.7 J	8.2 U	8.4 U	8.1 U	8.2 U
PHENANTHRENE	5600		1189000	UG/KG	8.0 U	7.8 U	8.2 U	8.4 U	8.1 U	8.2 U
PYRENE	230000	200000	16760000	UG/KG	6.4 J	7.8 U	8.2 U	8.4 U	8.1 U	8.2 U
Explosives (8330)										
NITROBENZENE	2000	4000	419	UG/KG	58 J	72 J	120	120	80 J	85 J
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	7600		54000000	MG/KG	**10500**	**13700**	**17800**	**17000**	**12500**	**13800**
ARSENIC	0.39		5003	MG/KG	**3.6 J**	**3.8 J**	**3.5 J**	**4.5 J**	**3.3 J**	**4.5 J**
BARIUM	540		41110	MG/KG	76.1	126	156 E	124 J	93.5 J	94.8 J
BERYLLIUM	15		2370	MG/KG	0.45	0.68	0.95	0.88	0.61	0.71
CADMIUM	3.7		375.5	MG/KG	0.2 J	0.24 J	0.24 J	0.21 J	0.23 J	0.21 J
CALCIUM				MG/KG	6430	28500	47200	44000	31100	42300
CHROMIUM	22		90000000	MG/KG	13.6	16.8	**24.1**	**23.6**	16.4	19.4
COBALT	140		32930	MG/KG	7.1	9	13.3	12.8	8.3 J	12.8 J
COPPER	310		85620	MG/KG	25.9	25.7	25.7	25.9	25.7 J	46.6 J
IRON	2300		7532	MG/KG	**20200**	**22000**	**29900**	**29600**	**21000**	**25400**
LEAD	400		22500	MG/KG	4.9	7.4	8.1	8	6.1 J	22.9 J
LITHIUM	160			MG/KG	22.2	23.9	31.2	29.8	21.2	23.6
MAGNESIUM				MG/KG	4150	6970	12600	12400	7260	9720
MANGANESE	180		19530	MG/KG	**446**	**718**	**721**	**699**	**580 J**	**1080 J**
MERCURY	2.3		36.53	MG/KG	0.02 J	0.011 J	0.012 J	.037 U	.036 U	0.013 J
MOLYBDENUM	39		3619	MG/KG	4.5 U	0.34 J	0.5 J	0.49 J	0.37 J	0.57 J
NICKEL	160		602.1	MG/KG	15.8	19.1	29	28	17.9	24.3
POTASSIUM				MG/KG	1040	1940	3640	3660 J	1810 J	2500 J

TABLE 5-12 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, TOWN OF LEWISTON PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	AW	AW	AW	SN	SN	SN
				Excavation:	X06	X07	X09	X01	X02	X02
				Sample Name:	C7-LEW-SO-X06-AW01-5.5	C7-LEW-SO-X07-AW01-4	C7-LEW-SO-X09-AW01-19	C7-LEW-SO-X01-SN01-16	C7-LEW-SO-X02-SN01-10	C7-LEW-SO-DUP7
				Sample Depth:	5.5 FT	4 FT	19 FT	16 FT	10 FT	10 FT
				Sample Date:	8/16/2006	8/16/2006	8/18/2006	8/15/2006	8/15/2006	8/15/2006
				Parent Name:						C7-LEW-SO-X02-SN01-10
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
SELENIUM	39		3001	MG/KG	1 J	4.4 U	4.9 U	5.1 U	4.8 U	4.5 U
SILVER	39		420.4	MG/KG	0.035 J	0.043 J	0.048 J	0.049 J	0.047 J	0.042 J
SODIUM				MG/KG	69.4 J	122 J	204 J	205 J	103 J	124 J
VANADIUM	7.8		36000	MG/KG	**23.2**	**28.2**	**34.9**	**36.4**	**27.5**	**30**
ZINC	2300		124200	MG/KG	40.1	43.8	58.9	56.9 J	42 J	55.3 J
General Chemistry										
PERCENT SOLIDS				%	84	86	81	80	82	82

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.
Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-12 SUMMARY OF REPORTED CONCENTRAT... ..S IN SUBSURFACE SOIL, TOWN OF LEWISTON PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	WW
				Excavation:	X03	X04	X05	X10
				Sample Name:	C7-LEW-SO-X03-SN01-6	C7-LEW-SO-X04-SN01-4	C7-LEW-SO-X05-SN01-5	C7-LEW-SO-X10-WW01-6
				Sample Depth:	6 FT	4 FT	5 FT	6 FT
				Sample Date:	8/15/2006	8/16/2006	8/16/2006	8/17/2006
				Parent Name:				
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**				
Volatile Organic Compounds (8260B)								
METHYLENE CHLORIDE	9100	93000	862.5	UG/KG	10 U	12 U	9.8 U	10 U
TRICHLOROETHYLENE	2900	64000	3227	UG/KG	5.1 U	6.2 U	1.5 J	5.1 U
Semi-Volatile Organic Compounds (8151/8270C/8310)								
1,2-BENZPHENANTHRACENE	62000		3943	UG/KG	7.9 U	7.9 U	8.0 U	7.5 U
BENZ[A]ANTHRACENE	620	224	3923	UG/KG	2 J	7.9 U	8.0 U	7.5 U
BENZO[A]PYRENE	62	60.9		UG/KG	7.9 U	7.9 U	8.0 U	7.5 U
BENZO[B]FLUORANTHENE	620	224	12120	UG/KG	2.4 J	7.9 U	8.0 U	7.5 U
BENZO[K]FLUORANTHENE	6200	224	12120	UG/KG	7.9 U	7.9 U	8.0 U	7.5 U
DI-N-BUTYL PHTHALATE	610000	800000	8358000	UG/KG	4 J	7.9 U	7.6 J	3.8 J
FLUORANTHENE	230000	300000	26370000	UG/KG	4 J	7.9 U	8.0 U	7.5 U
INDENO[1,2,3-CD]PYRENE	620		34200	UG/KG	7.9 U	7.9 U	8.0 U	7.5 U
PHENANTHRENE	5600		1189000	UG/KG	2.8 J	7.9 U	8.0 U	7.5 U
PYRENE	230000	200000	16760000	UG/KG	2.8 J	7.9 U	8.0 U	7.5 U
Explosives (8330)								
NITROBENZENE	2000	4000	419	UG/KG	67 J	50 J	70 J	99 U
Metals (6010B/6020/7841/7470A/7471A)								
ALUMINUM	7600		54000000	MG/KG	**13700**	**15500**	**14000**	**9520**
ARSENIC	0.39		5003	MG/KG	**4.9**	**3.6 J**	**3.5 J**	**4 J**
BARIUM	540		41110	MG/KG	116 J	125	125	86
BERYLLIUM	15		2370	MG/KG	0.7	0.81	0.7	0.46
CADMIUM	3.7		375.5	MG/KG	0.26 J	0.23 J	0.22 J	0.21 J
CALCIUM				MG/KG	53600	44200	43000	52100
CHROMIUM	22		90000000	MG/KG	18.4	20	19	14
COBALT	140		32930	MG/KG	11.1	9.5	10	8.8
COPPER	310		85620	MG/KG	47.2	27	26	27.1
IRON	2300		7532	MG/KG	**24700**	**25600**	**24800**	**20400**
LEAD	400		22500	MG/KG	8.7	7.4	6.6	5.1
LITHIUM	160			MG/KG	23.7	26.2	24.2	19
MAGNESIUM				MG/KG	9210	9620	10100	9080
MANGANESE	180		19530	MG/KG	**833**	**675**	**709**	**861**
MERCURY	2.3		36.53	MG/KG	0.036	0.0085 J	0.012 J	0.014 J
MOLYBDENUM	39		3619	MG/KG	0.48 J	0.39 J	0.36 J	0.39 J
NICKEL	160		602.1	MG/KG	22.4	22.4	22	18.3
POTASSIUM				MG/KG	2380 J	2550	2680	1540

TABLE 5-12 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, TOWN OF LEWISTON PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	WW
				Excavation:	X03	X04	X05	X10
				Sample Name:	C7-LEW-SO-X03-SN01-6	C7-LEW-SO-X04-SN01-4	C7-LEW-SO-X05-SN01-5	C7-LEW-SO-X10-WW01-6
				Sample Depth:	6 FT	4 FT	5 FT	6 FT
				Sample Date:	8/15/2006	8/16/2006	8/16/2006	8/17/2006
				Parent Name:				
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**				
SELENIUM	39		3001	MG/KG	4.7 U	4.9 U	4.3 U	4.6 U
SILVER	39		420.4	MG/KG	0.12 J	0.058 J	0.049 J	0.036 J
SODIUM				MG/KG	113 J	129 J	144 J	124 J
VANADIUM	7.8		36000	MG/KG	**30.6**	**31.2**	**30.4**	**22.7**
ZINC	2300		124200	MG/KG	50.8 J	52.7	48.6	41
General Chemistry								
PERCENT SOLIDS				%	84	85	83	89

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.
Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	AW	AW	AW	AW	AW	AW
				Excavation:	X27	X41	X87	X88	X89	X89
				Sample Name:	C7-CWM-SO-X27-CW01-6.5	C7-CWM-SO-X41-AW01-4.5	C7-CWM-SO-X87-AW01-16	C7-CWM-SO-X88-AW01-16	C7-CWM-SO-X89-AW01-17	C7-CWM-SO-DUP16
				Sample Depth:	6.5 FT	4.5 FT	16 FT	16 FT	17 FT	17 FT
				Sample Date:	8/30/2006	9/6/2006	9/25/2006	9/25/2006	9/26/2006	9/26/2006
				Parent Name:						C7-CWM-SO-X89-AW01-17
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	4619	UG/KG	5.3 U	5.1 U	4.6 U	6.8 U	5.3 U	5.2 U
1,1,2,2-TETRACHLOROETHANE	930	35000	2495	UG/KG	5.3 U	5.1 U	4.6 U	6.8 U	5.3 U	5.2 U
1,1,2-TRICHLOROETHANE	1600		483.4	UG/KG	5.3 U	5.1 U	4.6 U	6.8 U	5.3 U	5.2 U
1,1-DICHLOROETHANE	170000	800000	2047	UG/KG	5.3 U	5.6	4.6 U	6.8 U	5.3 U	5.2 U
1,1-DICHLOROETHYLENE	41000	12000	3119	UG/KG	5.3 U	5.1 U	4.6 U	6.8 U	5.3 U	5.2 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG	5.3 U	4.6 J	4.6 U	6.8 U	5.3 U	5.2 U
1,2-DICHLOROETHANE	600	7700	180.9	UG/KG	5.3 U	5.1 U	4.6 U	6.8 U	5.3 U	5.2 U
1,3-DICHLOROBENZENE	60000		6796	UG/KG	5.3 U	290 J	4.6 U	6.8 U	5.3 U	5.2 U
1,4-DICHLOROBENZENE	7900		6790	UG/KG	5.3 U	170 J	4.6 U	6.8 U	5.3 U	5.2 U
2-BUTANONE	11000000	400000	6476	UG/KG	11 U	10 U	9.3 U	14 U	11 U	10 U
4-METHYL-2-PENTANONE	4700000	400000	1497000	UG/KG	11 U	10 U	9.3 U	14 U	11 U	10 U
ACETONE	5400000	800000	5514	UG/KG	11 U	25 J	9.3 U	14 U	11 U	10 U
BENZENE	1400	24000	453.8	UG/KG	5.3 U	5.1 U	4.6 U	6.8 U	5.3 U	5.2 U
CARBON DISULFIDE	72000	800000	32890	UG/KG	5.3 U	5.1 U	4.6 U	6.8 U	5.3 U	5.2 U
CARBON TETRACHLORIDE	550	5400	5303	UG/KG	5.3 U	5.1 U	4.6 U	6.8 U	5.3 U	5.2 U
CHLOROBENZENE	53000	200000	7253	UG/KG	5.3 U	37	4.6 U	6.8 U	5.3 U	5.2 U
CHLOROFORM	470	80000	2770	UG/KG	5.3 U	5.1 U	4.6 U	6.8 U	5.3 U	5.2 U
CIS-1,2-DICHLOROETHENE	15000	80000	1575	UG/KG	5.3 U	5.1 U	4.6 U	6.8 U	5.3 U	5.2 U
CIS-1,3-DICHLOROPROPENE	1800			UG/KG	5.3 U	5.1 U	4.6 U	6.8 U	5.3 U	5.2 U
ETHYLBENZENE	40000	800000	5749	UG/KG	5.3 U	5.1 U	4.6 U	6.8 U	5.3 U	5.2 U
ISOPROPYLBENZENE	200000		21090	UG/KG	5.3 U	5.1 U	4.6 U	6.8 U	5.3 U	5.2 U
M+P-XYLENE	42000	20000000		UG/KG	5.3 U	1.2 J	4.6 U	6.8 U	5.3 U	5.2 U
METHYLENE CHLORIDE	21000	93000	862.5	UG/KG	11 U	10 U	9.3 U	14 U	11 U	10 U
O-XYLENE	42000	20000000		UG/KG	5.3 U	5.1 U	4.6 U	6.8 U	5.3 U	5.2 U
STYRENE	170000		13390	UG/KG	5.3 U	5.1 U	4.6 U	6.8 U	5.3 U	5.2 U
TETRACHLOROETHENE	1300	14000	7858	UG/KG	5.3 U	5.1 U	4.6 U	6.8 U	5.3 U	5.2 U
TOLUENE	52000	2000000	4226	UG/KG	5.3 U	5.1 U	4.6 U	6.8 U	5.3 U	5.2 U
TRANS-1,2-DICHLOROETHENE	23000	200000	1811	UG/KG	5.3 U	5.1 U	4.6 U	6.8 U	5.3 U	5.2 U
TRICHLOROETHYLENE	6500	64000	3227	UG/KG	5.3 U	5.1 U	4.6 U	6.8 U	5.3 U	5.2 U
VINYL CHLORIDE	750	360	794.4	UG/KG	11 U	10 U	9.3 U	14 U	11 U	10 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		18270	UG/KG	8.5 U	8.3 U	7.6 U	8.7 U	7.4 U	7.3 U
1,2-BENZPHENANTHRACENE	210000		3943	UG/KG	11	8.3 U	7.6 U	2.2 J	7.4 U	7.3 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG						

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	AW	AW	AW	AW	AW	AW
				Excavation:	X27	X41	X87	X88	X89	X89
				Sample Name:	C7-CWM-SO-X27-CW01-6.5	C7-CWM-SO-X41-AW01-4.5	C7-CWM-SO-X87-AW01-16	C7-CWM-SO-X88-AW01-16	C7-CWM-SO-X89-AW01-17	C7-CWM-SO-DUP16
				Sample Depth:	6.5 FT	4.5 FT	16 FT	16 FT	17 FT	17 FT
				Sample Date:	8/30/2006	9/6/2006	9/25/2006	9/25/2006	9/26/2006	9/26/2006
				Parent Name:						C7-CWM-SO-X89-AW01-17
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
1,3-DICHLOROBENZENE	60000		6796	UG/KG						
1,4-DICHLOROBENZENE	7900		6790	UG/KG						
2,4-DIMETHYLPHENOL	1200000		2660000	UG/KG	42 U	41 U	38 U	43 U	37 U	37 U
2-CHLOROPHENOL	24000	40000	68720	UG/KG	42 U	41 U	38 U	43 U	37 U	37 U
2-METHYLNAPHTHALENE	19000		147800	UG/KG	8.5 U	8.3 U	7.6 U	8.7 U	7.4 U	7.3 U
2-METHYLPHENOL	3100000		412300	UG/KG	42 U	41 U	38 U	43 U	37 U	37 U
4-CHLORO-3-METHYLPHENOL				UG/KG	42 U	41 U	38 U	43 U	37 U	37 U
4-METHYLPHENOL	310000	400000	90940	UG/KG	42 U	41 U	38 U	43 U	37 U	37 U
ACENAPHTHENE	2900000	500000	485100	UG/KG	8.5 U	8.3 U	7.6 U	8.7 U	7.4 U	7.3 U
ACENAPHTHYLENE	2900000		199500	UG/KG	8.5 U	8.3 U	7.6 U	8.7 U	7.4 U	7.3 U
ANTHRACENE	10000000	2000000	5919000	UG/KG	3.8 J	8.3 U	7.6 U	8.7 U	7.4 U	7.3 U
BENZ[A]ANTHRACENE	2100	224	3923	UG/KG	12	8.3 U	7.6 U	4.3 J	7.4 U	7.3 U
BENZO[A]PYRENE	210	60.9		UG/KG	8.5 J	8.3 U	7.6 U	8.7 U	7.4 U	7.3 U
BENZO[B]FLUORANTHENE	2100	224	12120	UG/KG	9.8	8.3 U	7.6 U	8.7 U	7.4 U	7.3 U
BENZO[GHI]PERYLENE	2900000			UG/KG	8.5 U	8.3 U	7.6 U	8.7 U	7.4 U	7.3 U
BENZO[K]FLUORANTHENE	21000	224	12120	UG/KG	9.3 J	8.3 U	7.6 U	8.7 U	7.4 U	7.3 U
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	372100000	UG/KG	8.5 U	8.3 U	7.6 U	8.7 U	7.4 U	7.3 U
CARBAZOLE	86000		1135	UG/KG	18	8.3 U	7.6 U	8.7 U	7.4 U	7.3 U
DIBENZ[A,H]ANTHRACENE	210	14.3	172300	UG/KG	8.5 U	8.3 U	7.6 U	8.7 U	7.4 U	7.3 U
DIBENZOFURAN	160000		462500	UG/KG	8.5 U	8.3 U	7.6 U	8.7 U	7.4 U	7.3 U
DIETHYL PHTHALATE	10000000	6000000		UG/KG	8.5 U	8.3 U	7.6 U	8.7 U	7.4 U	7.3 U
DI-N-BUTYL PHTHALATE	6200000	800000	8358000	UG/KG	8.5 U	8.3 U	7.6 U	8.7 U	7.4 U	7.3 U
DI-N-OCTYL PHTHALATE	2500000	200000	593000	UG/KG	8.5 U	8.3 U	7.6 U	8.7 U	7.4 U	7.3 U
FLUORANTHENE	2200000	300000	26370000	UG/KG	36	8.3 U	7.6 U	2.2 J	7.4 U	2.2 J
FLUORENE	2600000	300000	1952000	UG/KG	8.5 U	8.3 U	7.6 U	8.7 U	7.4 U	7.3 U
HEXACHLORO-1,3-BUTADIENE	18000		132400	UG/KG	8.5 U	8.3 U	7.6 U	8.7 U	7.4 U	7.3 U
HEXACHLOROBENZENE	1100	410	10850	UG/KG	8.5 U	8.3 U	7.6 U	8.7 U	7.4 U	7.3 U
HEXACHLOROETHANE	62000		44540	UG/KG	8.5 U	8.3 U	7.6 U	8.7 U	7.4 U	7.3 U
INDENO[1,2,3-CD]PYRENE	2100		34200	UG/KG	4.7 J	8.3 U	7.6 U	8.7 U	7.4 U	7.3 U
NAPHTHALENE	19000	30000	60240	UG/KG	8.5 U	8.3 U	7.6 U	8.7 U	7.4 U	7.3 U
PHENANTHRENE	19000		1189000	UG/KG	14	8.3 U	7.6 U	6.1 J	7.4 U	1.5 J
PHENOL	10000000	5000000	250.1	UG/KG	42 U	41 U	38 U	43 U	37 U	37 U
PYRENE	2900000	200000	16760000	UG/KG	21	8.3 U	7.6 U	3.5 J	7.4 U	2.2 J
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	6608000	UG/KG	2.1 U	10 U	1.9 U	2.2 U	1.8 U	1.8 U

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	AW	AW	AW	AW	AW	AW
				Excavation:	X27	X41	X87	X88	X89	X89
				Sample Name:	C7-CWM-SO-X27-CW01-6.5	C7-CWM-SO-X41-AW01-4.5	C7-CWM-SO-X87-AW01-16	C7-CWM-SO-X88-AW01-16	C7-CWM-SO-X89-AW01-17	C7-CWM-SO-DUP16
				Sample Depth:	6.5 FT	4.5 FT	16 FT	16 FT	17 FT	17 FT
				Sample Date:	8/30/2006	9/6/2006	9/25/2006	9/25/2006	9/26/2006	9/26/2006
				Parent Name:						C7-CWM-SO-X89-AW01-17
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
4,4'-DDE	7000	2100	2592000	UG/KG	2.1 U	64 J	1.9 U	2.2 U	1.8 U	3.7
4,4'-DDT	7000	2100	85.5	UG/KG	2.1 U	10 U	1.9 U	2.2 U	1.8 U	5.5
ALDRIN	100	41		UG/KG	2.1 U	10 U	1.9 U	2.2 U	1.8 U	1.8 U
ALPHA-BHC	360	111	61.69	UG/KG	2.1 U	10 U	1.9 U	2.2 U	1.8 U	1.8 U
ALPHA-CHLORDANE	6500		29570	UG/KG	2.1 U	10 U	1.9 U	2.2 U	1.8 U	1.8 U
AROCLOR 1232	740	1000	45780	UG/KG	21 U	1000 U	19 U	22 U	18 U	18 U
AROCLOR 1254	740	1000	335400	UG/KG	21 U	1000 U	19 U	22 U	18 U	18 U
AROCLOR 1260	740	1000	918200	UG/KG	21 U	**5600**	19 U	22 U	18 U	18 U
BETA-BHC	1300	3890	252.7	UG/KG	2.1 U	10 U	1.9 U	2.2 U	1.8 U	1.8 U
DELTA-BHC	360		2320	UG/KG	2.1 U	10 U	1.9 U	2.2 U	1.8 U	1.8 U
DIELDRIN	110	44	422.3	UG/KG	2.1 U	10 U	1.9 U	2.2 U	1.8 U	1.8 U
ENDOSULFAN I	370000		2344000	UG/KG	2.1 U	10 U	1.9 U	2.2 U	1.8 U	1.8 U
ENDOSULFAN II	370000		2344000	UG/KG	2.1 U	10 U	1.9 U	2.2 U	1.8 U	0.07 J
ENDOSULFAN SULFATE	370000		2344000	UG/KG	2.1 U	10 U	1.9 U	2.2 U	1.8 U	1.8 U
ENDRIN ALDEHYDE	18000		303600	UG/KG	2.1 U	10 U	1.9 U	2.2 U	1.8 U	0.63 J
ENDRIN KETONE	18000		303600	UG/KG	2.1 U	10 U	1.9 U	2.2 U	1.8 U	1.8 U
GAMMA-BHC	1700	2000	269	UG/KG	2.1 U	10 U	1.9 U	2.2 U	1.8 U	1.8 U
GAMMA-CHLORDANE	6500	500	29570	UG/KG	2.1 U	10 U	1.9 U	2.2 U	1.8 U	0.78 J
HEPTACHLOR EPOXIDE	190	77	12300	UG/KG	2.1 U	10 U	1.9 U	2.2 U	1.8 U	1.8 U
METHOXYCHLOR	310000	40000	16860000	UG/KG	2.1 U	10 U	1.9 U	2.2 U	1.8 U	1.8 U
Explosives (8330)										
HMX	3100000		16630000	UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
NITROBENZENE	10000	4000	419	UG/KG	100 U	130 J	100 U	100 U	28 J	35 J
RDX	16000			UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		54000000	MG/KG	**14100**	**18200**	7790	**18900**	7580	8150
ANTIMONY	41		135.3	MG/KG	0.98 U	.98 U	.94 U	.99 U	.89 U	.81 U
ARSENIC	1.6		5003	MG/KG	**3.7 J**	**3.7 J**	**2.6 J**	**4.2 J**	4.5 U	**2.6 J**
BARIUM	6700		41110	MG/KG	116 J	129 J	108	158	92.4	103
BERYLLIUM	190		2370	MG/KG	0.71	0.78	0.35	0.86	0.34	0.39
BORON	10000		3107	MG/KG	20 U	4 J	18.9 U	17 J	7 J	7.7 J
CADMIUM	45		375.5	MG/KG	0.26 J	0.18 J	0.14 J	0.16 J	.45 U	0.14 J
CALCIUM				MG/KG	39800 J	16400	45900	66700	37300	51100
CHROMIUM	64		90000000	MG/KG	18.7	21	11.3	25.6	10.8	11.4
COBALT	1900		32930	MG/KG	9.2	10.1	6.4	12.4	6.5	6.4

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	AW	AW	AW	AW	AW	AW
				Excavation:	X27	X41	X87	X88	X89	X89
				Sample Name:	C7-CWM-SO-X27-CW01-6.5	C7-CWM-SO-X41-AW01-4.5	C7-CWM-SO-X87-AW01-16	C7-CWM-SO-X88-AW01-16	C7-CWM-SO-X89-AW01-17	C7-CWM-SO-DUP16
				Sample Depth:	6.5 FT	4.5 FT	16 FT	16 FT	17 FT	17 FT
				Sample Date:	8/30/2006	9/6/2006	9/25/2006	9/25/2006	9/26/2006	9/26/2006
				Parent Name:						C7-CWM-SO-X89-AW01-17
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
COPPER	4100		85620	MG/KG	27.1	21.2	24.4	26.3	21.8	20.2
IRON	10000		7532	MG/KG	55300	24900	16500	29800	17600	16400
LEAD	800		22500	MG/KG	7.9	7.7	4.7	8.1	4.7	4.4
LITHIUM	2000			MG/KG	21.9	28	14.8	31.5	13.9	15.1
MAGNESIUM				MG/KG	9220 J	6460	9450	13200	7900	8170
MANGANESE	1900		19530	MG/KG	931 J	504	807	776	742	752
MERCURY	31		36.53	MG/KG	0.028 J	0.017 J	0.034 U	0.026 J	0.018 J	0.027 J
MOLYBDENUM	510		3619	MG/KG	0.53 J	0.45 J	0.35 J	0.43 J	0.38 J	0.31 J
NICKEL	2000		602.1	MG/KG	20	19.9	13.5	27.4	13.6	14.5
POTASSIUM				MG/KG	2030 J	2330 J	1660	4530	1320	1470
SELENIUM	510		3001	MG/KG	4.9 U	4.9 U	4.7 U	4.9 U	4.5 U	4 U
SILVER	510		420.4	MG/KG	0.041 J	0.047 J	0.036 J	0.05 J	0.024 J	0.032 J
SODIUM				MG/KG	354 J	428 J	155 J	361 J	101 J	106 J
THALLIUM	6.7		750.1	MG/KG	2.0 U	0.2 J	1.9 U	2 U	1.8 U	1.6 U
VANADIUM	100		36000	MG/KG	27.8	33.1	18.8	37	18.2	17.8
ZINC	10000		124200	MG/KG	47.4 J	52.7 J	33.9 J	57.1 J	34.7	33.8
General Chemistry										
CYANIDE	1200		2001	MG/KG	0.15 U	0.18 U	0.15 U	0.33 U	0.16 U	0.15 U
PERCENT MOISTURE				%						
PERCENT SOLIDS				%	78	80	88	77	90	91

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	AW	AW	AW	AW	AW	AW
				Excavation:	X27	X41	X87	X88	X89	X89
				Sample Name:	C7-CWM-SO-X27-CW01-6.5	C7-CWM-SO-X41-AW01-4.5	C7-CWM-SO-X87-AW01-16	C7-CWM-SO-X88-AW01-16	C7-CWM-SO-X89-AW01-17	C7-CWM-SO-DUP16
				Sample Depth:	6.5 FT	4.5 FT	16 FT	16 FT	17 FT	17 FT
				Sample Date:	8/30/2006	9/6/2006	9/25/2006	9/25/2006	9/26/2006	9/26/2006
				Parent Name:						C7-CWM-SO-X89-AW01-17
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
COPPER	4100		85620	MG/KG	27.1	21.2	24.4	26.3	21.8	20.2
IRON	10000		7532	MG/KG	**55300**	**24900**	**16500**	**29800**	**17600**	**16400**
LEAD	800		22500	MG/KG	7.9	7.7	4.7	8.1	4.7	4.4
LITHIUM	2000			MG/KG	21.9	28	14.8	31.5	13.9	15.1
MAGNESIUM				MG/KG	9220 J	6460	9450	13200	7900	8170
MANGANESE	1900		19530	MG/KG	931 J	504	807	776	742	752
MERCURY	31		36.53	MG/KG	0.028 J	0.017 J	0.034 U	0.026 J	0.018 J	0.027 J
MOLYBDENUM	510		3619	MG/KG	0.53 J	0.45 J	0.35 J	0.43 J	0.38 J	0.31 J
NICKEL	2000		602.1	MG/KG	20	19.9	13.5	27.4	13.6	14.5
POTASSIUM				MG/KG	2030 J	2330 J	1660	4530	1320	1470
SELENIUM	510		3001	MG/KG	4.9 U	4.9 U	4.7 U	4.9 U	4.5 U	4 U
SILVER	510		420.4	MG/KG	0.041 J	0.047 J	0.036 J	0.05 J	0.024 J	0.032 J
SODIUM				MG/KG	354 J	428 J	155 J	361 J	101 J	106 J
THALLIUM	6.7		750.1	MG/KG	2.0 U	0.2 J	1.9 U	2 U	1.8 U	1.6 U
VANADIUM	100		36000	MG/KG	27.8	33.1	18.8	37	18.2	17.8
ZINC	10000		124200	MG/KG	47.4 J	52.7 J	33.9 J	57.1 J	34.7	33.8
General Chemistry										
CYANIDE	1200		2001	MG/KG	0.15 U	0.18 U	0.15 U	0.33 U	0.16 U	0.15 U
PERCENT MOISTURE				%						
PERCENT SOLIDS				%	78	80	88	77	90	91

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	AW	AW	AW	AW	AW	AW
				Excavation:	X90	X91	X92	X94	X95	X96
				Sample Name:	C7-CWM-SO-X90-AW01-16	C7-CWM-SO-X91-AW01-18	C7-CWM-SO-X92-AW01-14	C7-CWM-SO-X94-AW01-10	C7-CWM-SO-X95-AW01-11	C7-CWM-SO-X96-AW01-10
				Sample Depth:	17 FT	18 FT	14 FT	10 FT	11 FT	10 FT
				Sample Date:	9/26/2006	9/27/2006	10/5/2006	9/29/2006	9/29/2006	9/29/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	4619	UG/KG	7.4 U	5.6 U	4.6 U	5.2 U	5.0 U	7.8 U
1,1,2,2-TETRACHLOROETHANE	930	35000	2495	UG/KG	7.4 U	5.6 U	4.6 U	5.2 U	5.0 U	7.8 U
1,1,2-TRICHLOROETHANE	1600		483.4	UG/KG	7.4 U	5.6 U	4.6 U	5.2 U	5.0 U	7.8 U
1,1-DICHLOROETHANE	170000	800000	2047	UG/KG	7.4 U	5.6 U	4.6 U	5.2 U	5.0 U	7.8 U
1,1-DICHLOROETHYLENE	41000	12000	3119	UG/KG	7.4 U	5.6 U	4.6 U	5.2 U	5.0 U	7.8 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG	7.4 U	5.6 U	4.6 U	5.2 U	5.0 U	7.8 U
1,2-DICHLOROETHANE	600	7700	180.9	UG/KG	7.4 U	5.6 U	4.6 U	5.2 U	5.0 U	7.8 U
1,3-DICHLOROBENZENE	60000		6796	UG/KG	7.4 U	5.6 U	4.6 U	5.2 U	5.0 U	7.8 U
1,4-DICHLOROBENZENE	7900		6790	UG/KG	7.4 U	5.6 U	4.6 U	5.2 U	5.0 U	7.8 U
2-BUTANONE	11000000	400000	6476	UG/KG	15 U	11 U	9.2 U	10 U	10 U	16 U
4-METHYL-2-PENTANONE	4700000	400000	1497000	UG/KG	15 U	11 U	9.2 U	10 U	10 U	16 U
ACETONE	5400000	800000	5514	UG/KG	15 U	15 J	9.2 U	10 U	10 U	16 U
BENZENE	1400	24000	453.8	UG/KG	7.4 U	5.6 U	4.6 U	5.2 U	5.0 U	7.8 U
CARBON DISULFIDE	72000	800000	32890	UG/KG	7.4 U	5.6 U	4.6 U	5.2 U	5.0 U	7.8 U
CARBON TETRACHLORIDE	550	5400	5303	UG/KG	7.4 U	5.6 U	4.6 U	5.2 U	5.0 U	7.8 U
CHLOROBENZENE	53000	200000	7253	UG/KG	7.4 U	5.6 U	4.6 U	5.2 U	5.0 U	7.8 U
CHLOROFORM	470	80000	2770	UG/KG	7.4 U	5.6 U	4.6 U	5.2 U	5.0 U	7.8 U
CIS-1,2-DICHLOROETHENE	15000	80000	1575	UG/KG	7.4 U	5.6 U	4.6 U	5.2 U	5.0 U	7.8 U
CIS-1,3-DICHLOROPROPENE	1800			UG/KG	7.4 U	5.6 U	4.6 U	5.2 U	5.0 U	7.8 U
ETHYLBENZENE	40000	800000	5749	UG/KG	7.4 U	5.6 U	4.6 U	5.2 U	5.0 U	7.8 U
ISOPROPYLBENZENE	200000		21090	UG/KG	7.4 U	5.6 U	4.6 U	5.2 U	5.0 U	7.8 U
M+P-XYLENE	42000	20000000		UG/KG	7.4 U	5.6 U	4.6 U	2.5 J	2.5 J	2.6 J
METHYLENE CHLORIDE	21000	93000	862.5	UG/KG	15 U	11 U	9.2 U	10 U	10 U	16 U
O-XYLENE	42000	20000000		UG/KG	7.4 U	5.6 U	4.6 U	5.2 U	5.0 U	7.8 U
STYRENE	170000		13390	UG/KG	7.4 U	5.6 U	4.6 U	5.2 U	5.0 U	7.8 U
TETRACHLOROETHENE	1300	14000	7858	UG/KG	7.4 U	5.6 U	4.6 U	5.2 U	5.0 U	7.8 U
TOLUENE	52000	2000000	4226	UG/KG	7.4 U	5.6 U	4.6 U	5.2 U	5.0 U	7.8 U
TRANS-1,2-DICHLOROETHENE	23000	200000	1811	UG/KG	7.4 U	5.6 U	4.6 U	5.2 U	5.0 U	7.8 U
TRICHLOROETHYLENE	6500	64000	3227	UG/KG	7.4 U	5.6 U	4.6 U	5.2 U	5.0 U	7.8 U
VINYL CHLORIDE	750	360	794.4	UG/KG	15 U	11 U	9.2 U	10 U	10 U	16 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		18270	UG/KG	9.5 U	8.4 U	7.6 U	8.4 U	8.1 U	110 U
1,2-BENZPHENANTHRACENE	210000		3943	UG/KG	4.3 J	9.6	7.6 U	8.4 U	8.1 U	68 J
1,2-DICHLOROBENZENE	60000		6914	UG/KG						

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	AW	AW	AW	AW	AW	AW
				Excavation:	X90	X91	X92	X94	X95	X96
				Sample Name:	C7-CWM-SO-X90-AW01-16	C7-CWM-SO-X91-AW01-18	C7-CWM-SO-X92-AW01-14	C7-CWM-SO-X94-AW01-10	C7-CWM-SO-X95-AW01-11	C7-CWM-SO-X96-AW01-10
				Sample Depth:	17 FT	18 FT	14 FT	10 FT	11 FT	10 FT
				Sample Date:	9/26/2006	9/27/2006	10/5/2006	9/29/2006	9/29/2006	9/29/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
1,3-DICHLOROBENZENE	60000		6796	UG/KG						
1,4-DICHLOROBENZENE	7900		6790	UG/KG						
2,4-DIMETHYLPHENOL	1200000		2660000	UG/KG	47 U	42 U	38 U	42 U	40 U	570 U
2-CHLOROPHENOL	24000	40000	68720	UG/KG	47 U	42 U	38 U	42 U	40 U	570 U
2-METHYLNAPHTHALENE	19000		147800	UG/KG	9.5 U	8.4 U	7.6 U	8.4 U	8.1 U	110 U
2-METHYLPHENOL	3100000		412300	UG/KG	47 U	42 U	38 U	42 U	40 U	570 U
4-CHLORO-3-METHYLPHENOL				UG/KG	47 U	42 U	38 U	42 U	40 U	570 U
4-METHYLPHENOL	310000	400000	90940	UG/KG	47 U	42 U	38 U	42 U	40 U	570 U
ACENAPHTHENE	2900000	500000	485100	UG/KG	9.5 U	8.4 U	7.6 U	8.4 U	8.1 U	110 U
ACENAPHTHYLENE	2900000		199500	UG/KG	9.5 U	8.4 U	7.6 U	8.4 U	8.1 U	110 U
ANTHRACENE	10000000	2000000	5919000	UG/KG	9.5 U	8.4 U	7.6 U	8.4 U	8.1 U	110 U
BENZ[A]ANTHRACENE	2100	224	3923	UG/KG	10	8.8	7.6 U	8.4 U	8.1 U	91 J
BENZO[A]PYRENE	210	60.9		UG/KG	9.5 U	5 J	7.6 U	8.4 U	8.1 U	110 U
BENZO[B]FLUORANTHENE	2100	224	12120	UG/KG	9.5 U	9.2	7.6 U	8.4 U	8.1 U	110 U
BENZO[GHI]PERYLENE	2900000			UG/KG	9.5 U	5 J	7.6 U	8.4 U	8.1 U	79 J
BENZO[K]FLUORANTHENE	21000	224	12120	UG/KG	9.5 U	2.5 J	7.6 U	8.4 U	8.1 U	110 U
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	372100000	UG/KG	9.5 U	8.4 U	26	8.4 U	8.1 U	110 U
CARBAZOLE	86000		1135	UG/KG	9.5 U	8.4 U	7.6 U	8.4 U	8.1 U	110 U
DIBENZ[A,H]ANTHRACENE	210	14.3	172300	UG/KG	9.5 U	8.4 U	7.6 U	8.4 U	8.1 U	110 U
DIBENZOFURAN	160000		462500	UG/KG	9.5 U	8.4 U	7.6 U	8.4 U	8.1 U	110 U
DIETHYL PHTHALATE	10000000	6000000		UG/KG	9.5 U	8.4 U	7.6 U	8.4 U	8.1 U	110 U
DI-N-BUTYL PHTHALATE	6200000	800000	8358000	UG/KG	9.5 U	8.4 U	7.6 U	8.4 U	8.1 U	110 U
DI-N-OCTYL PHTHALATE	2500000	200000	593000	UG/KG	9.5 U	8.4 U	7.3 J	8.4 U	8.1 U	110 U
FLUORANTHENE	2200000	300000	26370000	UG/KG	9.5 U	20	7.6 U	8.4 U	8.1 U	160
FLUORENE	2600000	300000	1952000	UG/KG	9.5 U	8.4 U	7.6 U	8.4 U	8.1 U	110 U
HEXACHLORO-1,3-BUTADIENE	18000		132400	UG/KG	9.5 U	8.4 U	7.6 U	8.4 U	8.1 U	110 U
HEXACHLOROBENZENE	1100	410	10850	UG/KG	9.5 U	8.4 U	7.6 U	8.4 U	8.1 U	110 U
HEXACHLOROETHANE	62000		44540	UG/KG	9.5 U	8.4 U	7.6 U	8.4 U	8.1 U	110 U
INDENO[1,2,3-CD]PYRENE	2100		34200	UG/KG	9.5 U	4.2 J	7.6 U	8.4 U	8.1 U	57 J
NAPHTHALENE	19000	30000	60240	UG/KG	9.5 U	8.4 U	7.6 U	8.4 U	8.1 U	110 U
PHENANTHRENE	19000		1189000	UG/KG	17	4.6 J	7.6 U	8.4 U	8.1 U	68 J
PHENOL	10000000	5000000	250.1	UG/KG	47 U	42 U	38 U	42 U	40 U	570 U
PYRENE	2900000	200000	16760000	UG/KG	9.5 U	19	7.6 U	8.4 U	8.1 U	96 J
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	6608000	UG/KG	3.9 J	2.1 U	1.9 U	2.1 U	2.0 U	2.8 U

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	AW	AW	AW	AW	AW	AW
				Excavation:	X90	X91	X92	X94	X95	X96
				Sample Name:	C7-CWM-SO-X90-AW01-16	C7-CWM-SO-X91-AW01-18	C7-CWM-SO-X92-AW01-14	C7-CWM-SO-X94-AW01-10	C7-CWM-SO-X95-AW01-11	C7-CWM-SO-X96-AW01-10
				Sample Depth:	17 FT	18 FT	14 FT	10 FT	11 FT	10 FT
				Sample Date:	9/26/2006	9/27/2006	10/5/2006	9/29/2006	9/29/2006	9/29/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
4,4'-DDE	7000	2100	2592000	UG/KG	10	2.1 U	1.9 U	2.1 U	2.0 U	2.8 U
4,4'-DDT	7000	2100	85.5	UG/KG	26 J	2.1 U	1.9 U	2.1 U	2.0 U	28 J
ALDRIN	100	41		UG/KG	2.4 U	2.1 U	1.9 U	2.1 U	2.0 U	2.8 U
ALPHA-BHC	360	111	61.69	UG/KG	2.4 U	2.1 U	1.9 U	2.1 U	2.0 U	2.8 U
ALPHA-CHLORDANE	6500		29570	UG/KG	2.4 U	2.1 U	1.9 U	2.1 U	2.0 U	2.8 U
AROCLOR 1232	740	1000	45780	UG/KG	24 U	21 U	19 U	21 U	20 U	28 U
AROCLOR 1254	740	1000	335400	UG/KG	24 U	21 U	19 U	21 U	20 U	28 U
AROCLOR 1260	740	1000	918200	UG/KG	24 U	21 U	19 U	21 U	20 U	28 U
BETA-BHC	1300	3890	252.7	UG/KG	2.4 U	2.1 U	1.9 U	2.1 U	2.0 U	2.8 U
DELTA-BHC	360		2320	UG/KG	2.4 U	2.1 U	1.9 U	2.1 U	2.0 U	2.8 U
DIELDRIN	110	44	422.3	UG/KG	2.4 U	2.1 U	1.9 U	2.1 U	2.0 U	2.8 U
ENDOSULFAN I	370000		2344000	UG/KG	2.4 U	2.1 U	1.9 U	2.1 U	2.0 U	2.8 U
ENDOSULFAN II	370000		2344000	UG/KG	2.4 U	2.1 U	1.9 U	2.1 U	2.0 U	2.8 U
ENDOSULFAN SULFATE	370000		2344000	UG/KG	2.4 U	2.1 U	1.9 U	2.1 U	2.0 U	2.8 U
ENDRIN ALDEHYDE	18000		303600	UG/KG	2.4 U	2.1 U	1.9 U	2.1 U	2.0 U	28 J
ENDRIN KETONE	18000		303600	UG/KG	2.4 U	2.1 U	1.9 U	2.1 U	2.0 U	2.8 U
GAMMA-BHC	1700	2000	269	UG/KG	2.4 U	2.1 U	1.9 U	2.1 U	2.0 U	2.8 U
GAMMA-CHLORDANE	6500	500	29570	UG/KG	2.4 U	2.1 U	1.9 U	2.1 U	2.0 U	2.8 U
HEPTACHLOR EPOXIDE	190	77	12300	UG/KG	2 J	2.1 U	1.9 U	2.1 U	2.0 U	2.8 U
METHOXYCHLOR	310000	40000	16860000	UG/KG	2.4 U	2.1 U	1.9 U	2.1 U	2.0 U	2.8 U
Explosives (8330)										
HMX	3100000		16630000	UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
NITROBENZENE	10000	4000	419	UG/KG	100 U	100 U	120 J	44 J	46 J	53 J
RDX	16000			UG/KG	200 U	200 U	200 U	350	200 U	200 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		54000000	MG/KG	**22300**	**14500**	6160	**15400**	**13900**	**14500**
ANTIMONY	41		135.3	MG/KG	1 U	0.92 U	0.80 U	1.0 U	0.93 U	0.29 J
ARSENIC	1.6		5003	MG/KG	5 U	4.6 U	**2.6 J**	5.0 U	**3.3 J**	**7.9**
BARIUM	6700		41110	MG/KG	157	131	94.2	104	112	149
BERYLLIUM	190		2370	MG/KG	0.99	0.65	0.27	0.71	0.61	0.69
BORON	10000		3107	MG/KG	17.1 J	18 U	16 U	20 U	19 U	28.5
CADMIUM	45		375.5	MG/KG	0.15 J	0.15 J	0.15 J	0.19 J	0.14 J	1.3
CALCIUM				MG/KG	50700	47700	53000	47400	38000	38400
CHROMIUM	64		90000000	MG/KG	31.4	**217**	8.9	21.2	19.5	**76.8**
COBALT	1900		32930	MG/KG	14.8	9	5.5	10.3	9.7	8.7

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	AW	AW	AW	AW	AW	AW
				Excavation:	X90	X91	X92	X94	X95	X96
				Sample Name:	C7-CWM-SO-X90-AW01-16	C7-CWM-SO-X91-AW01-18	C7-CWM-SO-X92-AW01-14	C7-CWM-SO-X94-AW01-10	C7-CWM-SO-X95-AW01-11	C7-CWM-SO-X96-AW01-10
				Sample Depth:	17 FT	18 FT	14 FT	10 FT	11 FT	10 FT
				Sample Date:	9/26/2006	9/27/2006	10/5/2006	9/29/2006	9/29/2006	9/29/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
COPPER	4100		85620	MG/KG	24.9	26.9	21.1	28.2	24.6	86.8
IRON	10000		7532	MG/KG	**34300**	**23000**	**16100**	**27400**	**25000**	**23200**
LEAD	800		22500	MG/KG	10.1	10.1	3.3	7.2	6.5	**1200**
LITHIUM	2000			MG/KG	34.7	22.3	12.7	24.7	23.2	21.4
MAGNESIUM				MG/KG	14400	11700	10100	11300	10200	11400
MANGANESE	1900		19530	MG/KG	670	1000	1200	698	648	1330
MERCURY	31		36.53	MG/KG	0.043 U	0.033	0.03 U	0.042 U	0.04 U	1.5
MOLYBDENUM	510		3619	MG/KG	0.42 J	0.55 J	0.41 J	0.42 J	0.43 J	2.2 J
NICKEL	2000		602.1	MG/KG	34	20.1	11.5	24.3	23.5	32.2
POTASSIUM				MG/KG	5240	2520	1010	3040	2840	2230
SELENIUM	510		3001	MG/KG	5 U	4.6 U	4.0 U	5.0 U	4.6 U	5.9 U
SILVER	510		420.4	MG/KG	0.053 J	0.044 J	0.031 J	0.043 J	0.039 J	0.33 J
SODIUM				MG/KG	271 J	155 J	119 J	164 J	160 J	148 J
THALLIUM	6.7		750.1	MG/KG	2 U	1.8 U	1.6 U	2.0 U	1.9 U	2.4 U
VANADIUM	100		36000	MG/KG	41.7	29.8	14.5	31.3	27.5	30.2
ZINC	10000		124200	MG/KG	66.7	51.9	32.4 J	55.7	49.3	406
General Chemistry										
CYANIDE	1200		2001	MG/KG	0.20 U	0.16 U	0.0050 U	0.19 U	0.15 U	0.22 U
PERCENT MOISTURE				%						
PERCENT SOLIDS				%	70	80	87	80	82	59

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	CW	CW	CW	CW	CW	CW
				Excavation:	X22A	X32	X42	X43	X44	X47
				Sample Name:	C7-CWM-SO-X22A UN01-5.5	C7-CWM-SO-X32-CW01-5	C7-CWM-SO-X42-CW01-3	C7-CWM-SO-X43-CW01-5.5	C7-CWM-SO-X44-CW01-3	C7-CWM-SO-X47-CW01-5
				Sample Depth:	5.5 FT	5 FT	3 FT	5.5 FT	3.5 FT	5 FT
				Sample Date:	8/29/2006	8/31/2006	9/6/2006	9/7/2006	9/7/2006	9/7/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	4619	UG/KG	8.2 U	6.1 J	5.4 U	37	1.5 J	5.4 U
1,1,2,2-TETRACHLOROETHANE	930	35000	2495	UG/KG	8.2 U	6.1 U	5.4 U	4.9 U	5.2 U	5.4 U
1,1,2-TRICHLOROETHANE	1600		483.4	UG/KG	8.2 U	6.1 U	5.4 U	4.9 U	5.2 U	5.4 U
1,1-DICHLOROETHANE	170000	800000	2047	UG/KG	8.2 U	6.1 U	5.4 U	8.8	5.2 U	5.4 U
1,1-DICHLOROETHYLENE	41000	12000	3119	UG/KG	8.2 U	6.1 U	5.4 U	4.9 U	5.2 U	5.4 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG	8.2 U	6.1 U	5.4 U	4.9 U	5.2 U	5.4 U
1,2-DICHLOROETHANE	600	7700	180.9	UG/KG	8.2 U	6.1 U	5.4 U	4.9 U	5.2 U	5.4 U
1,3-DICHLOROBENZENE	60000		6796	UG/KG	8.2 U	6.1 U	5.4 U	4.9 U	5.2 U	5.4 U
1,4-DICHLOROBENZENE	7900		6790	UG/KG	8.2 U	6.1 U	5.4 U	4.9 U	5.2 U	5.4 U
2-BUTANONE	11000000	400000	6476	UG/KG	16 U	12 U	11 U	9.9 U	10 U	11 U
4-METHYL-2-PENTANONE	4700000	400000	1497000	UG/KG	16 U	12 U	11 U	9.9 U	10 U	11 U
ACETONE	5400000	800000	5514	UG/KG	16 U	12 U	11 U	9.9 U	10 U	11 U
BENZENE	1400	24000	453.8	UG/KG	8.2 U	6.1 U	5.4 U	4.9 U	5.2 U	5.4 U
CARBON DISULFIDE	72000	800000	32890	UG/KG	8.2 U	6.1 U	5.4 U	4.9 U	5.2 U	5.4 U
CARBON TETRACHLORIDE	550	5400	5303	UG/KG	8.2 U	6.1 U	5.4 U	4.9 U	5.2 U	5.4 U
CHLOROBENZENE	53000	200000	7253	UG/KG	8.2 U	6.1 U	5.4 U	4.9 U	5.2 U	5.4 U
CHLOROFORM	470	80000	2770	UG/KG	1.8 J	6.1 U	5.4 U	4.9 U	5.2 U	5.4 U
CIS-1,2-DICHLOROETHENE	15000	80000	1575	UG/KG	8.2 U	6.1 U	5.4 U	5.7	5.2 U	5.4 U
CIS-1,3-DICHLOROPROPENE	1800			UG/KG	8.2 U	6.1 U	5.4 U	4.9 U	5.2 U	5.4 U
ETHYLBENZENE	40000	800000	5749	UG/KG	8.2 U	6.1 U	5.4 U	4.9 U	5.2 U	5.4 U
ISOPROPYLBENZENE	200000		21090	UG/KG	8.2 U	6.1 U	5.4 U	4.9 U	5.2 U	5.4 U
M+P-XYLENE	42000	20000000		UG/KG	8.2 U	6.1 U	5.4 U	1.2 J	1.4 J	5.4 U
METHYLENE CHLORIDE	21000	93000	862.5	UG/KG	16 U	12 U	11 U	9.9 U	10 U	2.4 J
O-XYLENE	42000	20000000		UG/KG	8.2 U	6.1 U	5.4 U	4.9 U	5.2 U	5.4 U
STYRENE	170000		13390	UG/KG	8.2 U	6.1 U	5.4 U	4.9 U	5.2 U	5.4 U
TETRACHLOROETHENE	1300	14000	7858	UG/KG	8.2 U	6.1 U	5.4 U	4.9 U	5.2 U	5.4 U
TOLUENE	52000	2000000	4226	UG/KG	8.2 U	6.1 U	5.4 U	4.9 U	5.2 U	5.4 U
TRANS-1,2-DICHLOROETHENE	23000	200000	1811	UG/KG	8.2 U	6.1 U	5.4 U	4.9 U	5.2 U	5.4 U
TRICHLOROETHYLENE	6500	64000	3227	UG/KG	3.5 J	6.1 U	5.4 U	10	5.2 U	5.4 U
VINYL CHLORIDE	750	360	794.4	UG/KG	16 U	12 U	11 U	9.9 U	10 U	11 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		18270	UG/KG	550 U	7.6 U	7.4 U	7.5 U	7.5 U	8.2 U
1,2-BENZPHENANTHRACENE	210000		3943	UG/KG	390 J	4.2 J	2.6 J	7.5 U	290	8.2 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG			7.4 U			

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	CW	CW	CW	CW	CW	CW
				Excavation:	X22A	X32	X42	X43	X44	X47
				Sample Name:	C7-CWM-SO-X22A UN01-5.5	C7-CWM-SO-X32-CW01-5	C7-CWM-SO-X42-CW01-3	C7-CWM-SO-X43-CW01-5.5	C7-CWM-SO-X44-CW01-3	C7-CWM-SO-X47-CW01-5
				Sample Depth:	5.5 FT	5 FT	3 FT	5.5 FT	3.5 FT	5 FT
				Sample Date:	8/29/2006	8/31/2006	9/6/2006	9/7/2006	9/7/2006	9/7/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
1,3-DICHLOROBENZENE	60000		6796	UG/KG			7.4 U			
1,4-DICHLOROBENZENE	7900		6790	UG/KG			7.4 U			
2,4-DIMETHYLPHENOL	1200000		2660000	UG/KG	2800 U	38 U	37 U	38 U	37 U	41 U
2-CHLOROPHENOL	24000	40000	68720	UG/KG	2800 U	38 U	37 U	38 U	37 U	41 U
2-METHYLNAPHTHALENE	19000		147800	UG/KG	550 U	7.6 U	7.4 U	7.5 U	7.5 U	8.2 U
2-METHYLPHENOL	3100000		412300	UG/KG	2800 U	38 U	37 U	38 U	37 U	41 U
4-CHLORO-3-METHYLPHENOL				UG/KG	2800 U	38 U	37 U	38 U	37 U	41 U
4-METHYLPHENOL	310000	400000	90940	UG/KG	500 J	38 U	37 U	38 U	37 U	41 U
ACENAPHTHENE	2900000	500000	485100	UG/KG	550 U	7.6 U	7.4 U	7.5 U	3 J	8.2 U
ACENAPHTHYLENE	2900000		199500	UG/KG	550 U	7.6 U	7.4 U	7.5 U	24	8.2 U
ANTHRACENE	10000000	2000000	5919000	UG/KG	550 U	7.6 U	7.4 U	7.5 U	90	8.2 U
BENZ[A]ANTHRACENE	2100	224	3923	UG/KG	470 J	3.8 J	3 J	7.5 U	370	8.2 U
BENZO[A]PYRENE	210	60.9		UG/KG	550 U	7.6 U	7.4 U	7.5 U	**210**	8.2 U
BENZO[B]FLUORANTHENE	2100	224	12120	UG/KG	520 J	7.6 U	7.4 U	7.5 U	340	8.2 U
BENZO[GHI]PERYLENE	2900000			UG/KG	550 U	7.6 U	7.4 U	7.5 U	110	8.2 U
BENZO[K]FLUORANTHENE	21000	224	12120	UG/KG	330 J	7.6 U	7.4 U	7.5 U	7.5 U	8.2 U
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	372100000	UG/KG	550 U	7.6 U	7.4 U	7.5 U	7.5 U	8.2 U
CARBAZOLE	86000		1135	UG/KG	550 U	7.6 U	7.4 U	7.5 U	120	8.2 U
DIBENZ[A,H]ANTHRACENE	210	14.3	172300	UG/KG	550 U	7.6 U	7.4 U	7.5 U	49	8.2 U
DIBENZOFURAN	160000		462500	UG/KG	550 U	7.6 U	7.4 U	7.5 U	7.5 J	8.2 U
DIETHYL PHTHALATE	10000000	6000000		UG/KG	550 U	7.6 U	7.4 U	7.5 U	7.5 U	8.2 U
DI-N-BUTYL PHTHALATE	6200000	800000	8358000	UG/KG	550 U	4.2 J	4.4 J	7.5 U	7.5 U	8.2 U
DI-N-OCTYL PHTHALATE	2500000	200000	593000	UG/KG	550 U	7.6 U	7.4 U	7.5 U	7.5 U	8.2 U
FLUORANTHENE	2200000	300000	26370000	UG/KG	860	8	5.2 J	7.5 U	990	8.2 U
FLUORENE	2600000	300000	1952000	UG/KG	550 U	7.6 U	7.4 U	7.5 U	21	8.2 U
HEXACHLORO-1,3-BUTADIENE	18000		132400	UG/KG	550 U	7.6 U	7.4 U	7.5 U	7.5 U	8.2 U
HEXACHLOROBENZENE	1100	410	10850	UG/KG	550 U	7.6 U	7.4 U	7.5 U	7.5 U	8.2 U
HEXACHLOROETHANE	62000		44540	UG/KG	550 U	7.6 U	7.4 U	7.5 U	7.5 U	8.2 U
INDENO[1,2,3-CD]PYRENE	2100		34200	UG/KG	550 U	7.6 U	7.4 U	7.5 U	100	8.2 U
NAPHTHALENE	19000	30000	60240	UG/KG	550 U	7.6 U	7.4 U	7.5 U	3.4 J	8.2 U
PHENANTHRENE	19000		1189000	UG/KG	410 J	4.2 J	7.4 U	7.5 U	440	8.2 U
PHENOL	10000000	5000000	250.1	UG/KG	2800 U	38 U	37 U	38 U	37 U	41 U
PYRENE	2900000	200000	16760000	UG/KG	610	5.7 J	3 J	7.5 U	580	8.2 U
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	6608000	UG/KG	1.3 J	1.9 U	9.3 U	1.9 U	1.9 U	2.1 U

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	CW	CW	CW	CW	CW	CW
				Excavation:	X22A	X32	X42	X43	X44	X47
				Sample Name:	C7-CWM-SO-X22A UN01-5.5	C7-CWM-SO-X32-CW01-5	C7-CWM-SO-X42-CW01-3	C7-CWM-SO-X43-CW01-5.5	C7-CWM-SO-X44-CW01-3	C7-CWM-SO-X47-CW01-5
				Sample Depth:	5.5 FT	5 FT	3 FT	5.5 FT	3.5 FT	5 FT
				Sample Date:	8/29/2006	8/31/2006	9/6/2006	9/7/2006	9/7/2006	9/7/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
4,4'-DDE	7000	2100	2592000	UG/KG	2.8 U	1.9 U	24 J	1.9 U	1.9 U	2.1 U
4,4'-DDT	7000	2100	85.5	UG/KG	5.5 J	1.9 U	**160 J**	1.9 U	1.9 U	2.1 U
ALDRIN	100	41		UG/KG	2.8 U	1.9 U	9.3 U	1.9 U	1.9 U	2.1 U
ALPHA-BHC	360	111	61.69	UG/KG	2.8 U	1.9 U	9.3 U	1.9 U	1.9 U	2.1 U
ALPHA-CHLORDANE	6500		29570	UG/KG	2.8 U	1.9 U	9.3 U	1.9 U	1.9 U	2.1 U
AROCLOR 1232	740	1000	45780	UG/KG	28 U	19 U	190 U	19 U	19 U	21 U
AROCLOR 1254	740	1000	335400	UG/KG	28 U	19 U	190 U	19 U	19 U	21 U
AROCLOR 1260	740	1000	918200	UG/KG	28 U	19 U	**2800**	28	19 U	21 U
BETA-BHC	1300	3890	252.7	UG/KG	2.8 U	1.9 U	9.3 U	1.9 U	1.9 U	2.1 U
DELTA-BHC	360		2320	UG/KG	2.8 U	1.9 U	9.3 U	1.9 U	1.9 U	2.1 U
DIELDRIN	110	44	422.3	UG/KG	2.8 U	1.9 U	9.3 U	1.9 U	1.9 U	2.1 U
ENDOSULFAN I	370000		2344000	UG/KG	2.8 U	1.9 U	9.3 U	1.9 U	1.9 U	2.1 U
ENDOSULFAN II	370000		2344000	UG/KG	2.8 U	1.9 U	9.3 U	1.9 U	1.9 U	2.1 U
ENDOSULFAN SULFATE	370000		2344000	UG/KG	2.8 U	1.9 U	9.3 U	1.9 U	1.9 U	2.1 U
ENDRIN ALDEHYDE	18000		303600	UG/KG	2.8 U	1.9 U	130 J	1.9 U	1.9 U	2.1 U
ENDRIN KETONE	18000		303600	UG/KG	2.8 U	1.9 U	9.3 U	1.9 U	1.9 U	2.1 U
GAMMA-BHC	1700	2000	269	UG/KG	2.8 U	1.9 U	9.3 U	1.9 U	1.9 U	2.1 U
GAMMA-CHLORDANE	6500	500	29570	UG/KG	2.8 U	1.9 U	9.3 U	1.9 U	1.9 U	2.1 U
HEPTACHLOR EPOXIDE	190	77	12300	UG/KG	2.8 U	1.9 U	9.3 U	1.9 U	1.9 U	2.1 U
METHOXYCHLOR	310000	40000	16860000	UG/KG	2.8 U	1.9 U	9.3 U	1.9 U	1.9 U	2.1 U
Explosives (8330)										
HMX	3100000		16630000	UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
NITROBENZENE	10000	4000	419	UG/KG	100 U	99 U	100 U	100 U	100 U	49 J
RDX	16000			UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		54000000	MG/KG	1100	**14200**	**12200**	**12800**	**12900**	**13800**
ANTIMONY	41		135.3	MG/KG	4.8	0.93 U	.99 U	.89 U	.93 U	0.3 J
ARSENIC	1.6		5003	MG/KG	**114**	**3.3 J**	**2.2 J**	**4 J**	**3.1 J**	**5.1 J**
BARIUM	6700		41110	MG/KG	30.3	161 J	108 J	133	109	118
BERYLLIUM	190		2370	MG/KG	0.056 J	0.63	0.46	0.61	0.5	0.62
BORON	10000		3107	MG/KG	27.7	8.9 J	19.7 U	17.8 U	18.6 U	12.5 J
CADMIUM	45		375.5	MG/KG	2.3	0.3 J	.49 U	4.2	.46 U	0.59
CALCIUM				MG/KG	10800	69800 J	17800	56700	13600	13600
CHROMIUM	64		90000000	MG/KG	**146**	17.2	13.3	20 J	15.9 J	18.6 J
COBALT	1900		32930	MG/KG	30.3	9.3	6.5	10.6	6.4	9.6

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	CW	CW	CW	CW	CW	CW
				Excavation:	X22A	X32	X42	X43	X44	X47
				Sample Name:	C7-CWM-SO-X22A UN01-5.5	C7-CWM-SO-X32-CW01-5	C7-CWM-SO-X42-CW01-3	C7-CWM-SO-X43-CW01-5.5	C7-CWM-SO-X44-CW01-3	C7-CWM-SO-X47-CW01-5
				Sample Depth:	5.5 FT	5 FT	3 FT	5.5 FT	3.5 FT	5 FT
				Sample Date:	8/29/2006	8/31/2006	9/6/2006	9/7/2006	9/7/2006	9/7/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
COPPER	4100		85620	MG/KG	588	21.9	25.2	29.9	22	29.5
IRON	10000		7532	MG/KG	**297000**	**23000**	**17900**	**24300**	**21200**	**25600**
LEAD	800		22500	MG/KG	42.5	8.8	6.1	17.6	7.9	8.1
LITHIUM	2000			MG/KG	1.6 J	22.7	18.2	22	18.5	18.5
MAGNESIUM				MG/KG	2520	10200	4420	15900	4490	7600
MANGANESE	1900		19530	MG/KG	1380	932	531	778	465	670
MERCURY	31		36.53	MG/KG	0.23	0.019 J	0.021 J	0.016 J	0.031 J	0.091
MOLYBDENUM	510		3619	MG/KG	23	0.64 J	0.3 J	4.5 U	4.6 U	0.42 J
NICKEL	2000		602.1	MG/KG	121	22.8	14.7	22.9	14.9	20.7
POTASSIUM				MG/KG	4660	2730 J	1100 J	2230	1140	2030
SELENIUM	510		3001	MG/KG	1.8 J	4.7 U	4.9 U	4.5 U	4.6 U	5.1 U
SILVER	510		420.4	MG/KG	0.2 J	0.044 J	0.038 J	0.056 J	0.037 J	0.062 J
SODIUM				MG/KG	629 J	140 J	81.6 J	135 J	68.3 J	1020 U
THALLIUM	6.7		750.1	MG/KG	2.3 U	1.9 U	2 U	1.8 U	1.9 U	2 U
VANADIUM	100		36000	MG/KG	62.7	27.7	23.3	27	22.2	25.9
ZINC	10000		124200	MG/KG	151	88.1 J	37.7 J	1390 J	40.7 J	53.4 J
General Chemistry										
CYANIDE	1200		2001	MG/KG	1.8	0.16 U	0.16 U	0.15 U	0.16 U	0.17 U
PERCENT MOISTURE				%						
PERCENT SOLIDS				%	60	88	90	88	89	81

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	CW	CW	CW	CW	CW	CW
				Excavation:	X48	X49	X49	X49	X59	X60
				Sample Name:	C7-CWM-SO-X48-CW01-5	C7-CWM-SO-X49-CW01-4	C7-CWM-SO-DUP12	C7-CWM-SO-X49-CW02-5	C7-CWM-SO-X59-CW01-6	C7-CWM-SO-X60-CW01-5.5
				Sample Depth:	5 FT	4 FT	4 FT	5 FT	6 FT	5.5 FT
				Sample Date:	9/8/2006	9/11/2006	9/11/2006	9/11/2006	9/12/2006	9/12/2006
				Parent Name:			C7-CWM-SO-X49-CW01-4			
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	4619	UG/KG	4.7 U	4.4 U	4.6 U	4.9 U	4.9 U	4.6 U
1,1,2,2-TETRACHLOROETHANE	930	35000	2495	UG/KG	4.7 U	4.4 U	4.6 U	4.9 U	4.9 U	4.6 U
1,1,2-TRICHLOROETHANE	1600		483.4	UG/KG	4.7 U	4.4 U	4.6 U	4.9 U	4.9 U	4.6 U
1,1-DICHLOROETHANE	170000	800000	2047	UG/KG	4.7 U	4.4 U	4.6 U	4.9 U	4.9 U	4.6 U
1,1-DICHLOROETHYLENE	41000	12000	3119	UG/KG	4.7 U	4.4 U	4.6 U	4.9 U	4.9 U	4.6 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG	4.7 U	4.4 U	4.6 U	4.9 U	4.9 U	4.6 U
1,2-DICHLOROETHANE	600	7700	180.9	UG/KG	4.7 U	4.4 U	4.6 U	4.9 U	4.9 U	4.6 U
1,3-DICHLOROBENZENE	60000		6796	UG/KG	4.7 U	4.4 U	4.6 U	4.9 U	4.9 U	4.6 U
1,4-DICHLOROBENZENE	7900		6790	UG/KG	4.7 U	4.4 U	4.6 U	4.9 U	4.9 U	4.6 U
2-BUTANONE	11000000	400000	6476	UG/KG	9.3 U	8.8 U	9.3 U	9.7 U	9.8 U	9.2 U
4-METHYL-2-PENTANONE	4700000	400000	1497000	UG/KG	9.3 U	8.8 U	9.3 U	9.7 U	9.8 U	9.2 U
ACETONE	5400000	800000	5514	UG/KG	9.3 U	8.8 U	9.3 U	9.7 U	9.8 U	9.2 U
BENZENE	1400	24000	453.8	UG/KG	4.7 U	4.4 U	4.6 U	4.9 U	4.9 U	4.6 U
CARBON DISULFIDE	72000	800000	32890	UG/KG	4.7 U	4.4 U	4.6 U	4.9 U	4.9 U	4.6 U
CARBON TETRACHLORIDE	550	5400	5303	UG/KG	4.7 U	4.4 U	4.6 U	4.9 U	4.9 U	4.6 U
CHLOROBENZENE	53000	200000	7253	UG/KG	4.7 U	4.4 U	4.6 U	4.9 U	4.9 U	4.6 U
CHLOROFORM	470	80000	2770	UG/KG	4.7 U	4.4 U	4.6 U	4.9 U	4.9 U	4.6 U
CIS-1,2-DICHLOROETHENE	15000	80000	1575	UG/KG	4.7 U	4.4 U	4.6 U	4.9 U	4.9 U	4.6 U
CIS-1,3-DICHLOROPROPENE	1800			UG/KG	4.7 U	4.4 U	4.6 U	4.9 U	4.9 U	4.6 U
ETHYLBENZENE	40000	800000	5749	UG/KG	4.7 U	4.4 U	4.6 U	4.9 U	4.9 U	4.6 U
ISOPROPYLBENZENE	200000		21090	UG/KG	4.7 U	4.4 U	4.6 U	4.9 U	4.9 U	4.6 U
M+P-XYLENE	42000	20000000		UG/KG	4.7 U	4.4 U	4.6 U	4.9 U	4.9 U	4.6 U
METHYLENE CHLORIDE	21000	93000	862.5	UG/KG	9.3 U	8.8 U	9.3 U	9.7 U	9.8 U	9.2 U
O-XYLENE	42000	20000000		UG/KG	4.7 U	4.4 U	4.6 U	4.9 U	4.9 U	4.6 U
STYRENE	170000		13390	UG/KG	4.7 U	4.4 U	4.6 U	4.9 U	4.9 U	4.6 U
TETRACHLOROETHENE	1300	14000	7858	UG/KG	4.7 U	4.4 U	4.6 U	4.9 U	4.9 U	4.6 U
TOLUENE	52000	2000000	4226	UG/KG	4.7 U	4.4 U	4.6 U	4.9 U	4.9 U	4.6 U
TRANS-1,2-DICHLOROETHENE	23000	200000	1811	UG/KG	4.7 U	4.4 U	4.6 U	4.9 U	4.9 U	4.6 U
TRICHLOROETHYLENE	6500	64000	3227	UG/KG	4.7 U	4.4 U	4.6 U	4.9 U	4.9 U	4.6 U
VINYL CHLORIDE	750	360	794.4	UG/KG	9.3 U	8.8 U	9.3 U	9.7 U	9.8 U	9.2 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		18270	UG/KG	8.0 U	7.7 U	8.1 U	7.9 U	8.1 U	7.8 U
1,2-BENZPHENANTHRACENE	210000		3943	UG/KG	8.0 U	7.7 U	8.1 U	7.9 U	8.1 U	18
1,2-DICHLOROBENZENE	60000		6914	UG/KG						

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	CW	CW	CW	CW	CW	CW
				Excavation:	X48	X49	X49	X49	X59	X60
				Sample Name:	C7-CWM-SO-X48-CW01-5	C7-CWM-SO-X49-CW01-4	C7-CWM-SO-DUP12	C7-CWM-SO-X49-CW02-5	C7-CWM-SO-X59-CW01-6	C7-CWM-SO-X60-CW01-5.5
				Sample Depth:	5 FT	4 FT	4 FT	5 FT	6 FT	5.5 FT
				Sample Date:	9/8/2006	9/11/2006	9/11/2006	9/11/2006	9/12/2006	9/12/2006
				Parent Name:			C7-CWM-SO-X49-CW01-4			
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
1,3-DICHLOROBENZENE	60000		6796	UG/KG						
1,4-DICHLOROBENZENE	7900		6790	UG/KG						
2,4-DIMETHYLPHENOL	1200000		2660000	UG/KG	40 U	39 U	41 U	40 U	41 U	39 U
2-CHLOROPHENOL	24000	40000	68720	UG/KG	40 U	39 U	41 U	40 U	41 U	39 U
2-METHYLNAPHTHALENE	19000		147800	UG/KG	8.0 U	7.7 U	8.1 U	7.9 U	8.1 U	7.8 U
2-METHYLPHENOL	3100000		412300	UG/KG	40 U	39 U	41 U	40 U	41 U	39 U
4-CHLORO-3-METHYLPHENOL				UG/KG	40 U	39 U	41 U	40 U	41 U	39 U
4-METHYLPHENOL	310000	400000	90940	UG/KG	40 U	39 U	41 U	40 U	41 U	39 U
ACENAPHTHENE	2900000	500000	485100	UG/KG	8.0 U	7.7 U	8.1 U	7.9 U	8.1 U	7.8 U
ACENAPHTHYLENE	2900000		199500	UG/KG	8.0 U	7.7 U	8.1 U	7.9 U	8.1 U	7.8 U
ANTHRACENE	10000000	2000000	5919000	UG/KG	8.0 U	7.7 U	8.1 U	7.9 U	8.1 U	2.3 J
BENZ[A]ANTHRACENE	2100	224	3923	UG/KG	8.0 U	7.7 U	8.1 U	7.9 U	8.1 U	17
BENZO[A]PYRENE	210	60.9		UG/KG	8.0 U	6.6 J	15 J	7.9 U	8.1 U	9
BENZO[B]FLUORANTHENE	2100	224	12120	UG/KG	8.0 U	5.4 J	8.1 U	7.9 U	8.1 U	14
BENZO[GHI]PERYLENE	2900000			UG/KG	8.0 U	14	15	8.3	8.1 U	4.7 J
BENZO[K]FLUORANTHENE	21000	224	12120	UG/KG	8.0 U	7.7 U	8.1 U	7.9 U	8.1 U	16 J
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	372100000	UG/KG	8.0 U	7.7 U	8.1 U	7.9 U	8.1 U	7.8 U
CARBAZOLE	86000		1135	UG/KG	8.0 U	7.7 U	8.1 U	7.9 U	8.1 U	7.8 U
DIBENZ[A,H]ANTHRACENE	210	14.3	172300	UG/KG	8.0 U	7.7 U	8.1 U	7.9 U	8.1 U	7.8 U
DIBENZOFURAN	160000		462500	UG/KG	8.0 U	7.7 U	8.1 U	7.9 U	8.1 U	7.8 U
DIETHYL PHTHALATE	10000000	6000000		UG/KG	8.0 U	5.8 J	5.7 J	4.8 J	8.1 U	7.8 U
DI-N-BUTYL PHTHALATE	6200000	800000	8358000	UG/KG	8.0 U	150	170	160	8.1 U	7.8 U
DI-N-OCTYL PHTHALATE	2500000	200000	593000	UG/KG	8.0 U	7.7 U	8.1 U	7.9 U	8.1 U	7.8 U
FLUORANTHENE	2200000	300000	26370000	UG/KG	4.8 J	3.1 J	8.1 U	7.9 U	5.7 J	27
FLUORENE	2600000	300000	1952000	UG/KG	8.0 U	7.7 U	8.1 U	7.9 U	8.1 U	7.8 U
HEXACHLORO-1,3-BUTADIENE	18000		132400	UG/KG	8.0 U	7.7 U	8.1 U	7.9 U	8.1 U	7.8 U
HEXACHLOROBENZENE	1100	410	10850	UG/KG	8.0 U	7.7 U	8.1 U	7.9 U	8.1 U	7.8 U
HEXACHLOROETHANE	62000		44540	UG/KG	8.0 U	7.7 U	8.1 U	7.9 U	8.1 U	7.8 U
INDENO[1,2,3-CD]PYRENE	2100		34200	UG/KG	8.0 U	4.6 J	8.1 U	7.9 U	8.1 U	5.1 J
NAPHTHALENE	19000	30000	60240	UG/KG	8.0 U	7.7 U	8.1 U	7.9 U	8.1 U	7.8 U
PHENANTHRENE	19000		1189000	UG/KG	8.0 U	7.7 U	8.1 U	7.9 U	8.1 U	3.5 J
PHENOL	10000000	5000000	250.1	UG/KG	40 U	39 U	41 U	40 U	41 U	39 U
PYRENE	2900000	200000	16760000	UG/KG	3.2 J	3.1 J	2.8 J	3.2 J	2.4 J	29
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	6608000	UG/KG	2.0 U	1.9 U		2.0 U	2.0 U	2.0 U

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	CW	CW	CW	CW	CW	CW
				Excavation:	X48	X49	X49	X49	X59	X60
				Sample Name:	C7-CWM-SO-X48-CW01-5	C7-CWM-SO-X49-CW01-4	C7-CWM-SO-DUP12	C7-CWM-SO-X49-CW02-5	C7-CWM-SO-X59-CW01-6	C7-CWM-SO-X60-CW01-5.5
				Sample Depth:	5 FT	4 FT	4 FT	5 FT	6 FT	5.5 FT
				Sample Date:	9/8/2006	9/11/2006	9/11/2006	9/11/2006	9/12/2006	9/12/2006
				Parent Name:			C7-CWM-SO-X49-CW01-4			
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
4,4'-DDE	7000	2100	2592000	UG/KG	2.0 U	1.9 U		2.0 U	2.0 U	4.6
4,4'-DDT	7000	2100	85.5	UG/KG	2.0 U	1.9 U		2.0 U	30	2.0 U
ALDRIN	100	41		UG/KG	2.0 U	1.9 U		2.0 U	2.0 U	2.0 U
ALPHA-BHC	360	111	61.69	UG/KG	2.0 U	1.9 U		2.0 U	2.0 U	2.0 U
ALPHA-CHLORDANE	6500		29570	UG/KG	2.0 U	1.9 U		2.0 U	2.0 U	2.0 U
AROCLOR 1232	740	1000	45780	UG/KG	20 U	97 U	20 U	20 U	20 U	19 U
AROCLOR 1254	740	1000	335400	UG/KG	20 U	97 U	20 U	20 U	20 U	160
AROCLOR 1260	740	1000	918200	UG/KG	20 U	**1100 J**	20 U	20 U	20 U	19 U
BETA-BHC	1300	3890	252.7	UG/KG	2.0 U	1.9 U		2.0 U	2.0 U	2.0 U
DELTA-BHC	360		2320	UG/KG	2.0 U	1.9 U		2.0 U	2.0 U	2.0 U
DIELDRIN	110	44	422.3	UG/KG	2.0 U	1.9 U		2.0 U	2.0 U	2.0 U
ENDOSULFAN I	370000		2344000	UG/KG	2.0 U	1.9 U		2.0 U	2.0 U	2.0 U
ENDOSULFAN II	370000		2344000	UG/KG	2.0 U	1.9 U		2.0 U	2.0 U	2.0 U
ENDOSULFAN SULFATE	370000		2344000	UG/KG	2.0 U	1.9 U		2.0 U	2.0 U	2.0 U
ENDRIN ALDEHYDE	18000		303600	UG/KG	2.0 U	1.9 U		2.0 U	2.0 U	2.0 U
ENDRIN KETONE	18000		303600	UG/KG	2.0 U	1.9 U		2.0 U	2.0 U	2.0 U
GAMMA-BHC	1700	2000	269	UG/KG	2.0 U	1.9 U		2.0 U	2.0 U	2.0 U
GAMMA-CHLORDANE	6500	500	29570	UG/KG	2.0 U	1.9 U		2.0 U	2.0 U	2.0 U
HEPTACHLOR EPOXIDE	190	77	12300	UG/KG	2.0 U	1.9 U		2.0 U	2.0 U	2.0 U
METHOXYCHLOR	310000	40000	16860000	UG/KG	2.0 U	3.4 J		1.2 J	2.0 U	2.0 U
Explosives (8330)										
HMX	3100000		16630000	UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
NITROBENZENE	10000	4000	419	UG/KG	75 J	100 U	170 J	100 U	100 J	96 J
RDX	16000			UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		54000000	MG/KG	**15000**	**13100 J**	**15500 J**	**14800 J**	**12700 J**	**13100 J**
ANTIMONY	41		135.3	MG/KG	.92 U	1 U	.98 U	.96 U	0.18 J	0.98 U
ARSENIC	1.6		5003	MG/KG	**3.4 J**	**3 J**	**4.7 J**	**2.8 J**	**4.8 J**	**4.2 J**
BARIUM	6700		41110	MG/KG	89.6	116	171	133 J	120 J	104 J
BERYLLIUM	190		2370	MG/KG	0.73	0.59	0.74	0.62	0.5	0.55
BORON	10000		3107	MG/KG	8 J	2.8 J	2.5 J	4.1 J	4.5 J	5.6 JD
CADMIUM	45		375.5	MG/KG	0.15 J	0.16 J	0.2 J	0.2 J	0.35 J	0.49 U
CALCIUM				MG/KG	59100	51700	29100	34900	38500	50200 D
CHROMIUM	64		90000000	MG/KG	19.2	14.9 J	18.8 J	19.5 J	17.9 J	17.5 J
COBALT	1900		32930	MG/KG	8.8	7.9 J	11.1 J	8.6	8.7	9.6 D

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	CW	CW	CW	CW	CW	CW
				Excavation:	X48	X49	X49	X49	X59	X60
				Sample Name:	C7-CWM-SO-X48-CW01-5	C7-CWM-SO-X49-CW01-4	C7-CWM-SO-DUP12	C7-CWM-SO-X49-CW02-5	C7-CWM-SO-X59-CW01-6	C7-CWM-SO-X60-CW01-5.5
				Sample Depth:	5 FT	4 FT	4 FT	5 FT	6 FT	5.5 FT
				Sample Date:	9/8/2006	9/11/2006	9/11/2006	9/11/2006	9/12/2006	9/12/2006
				Parent Name:			C7-CWM-SO-X49-CW01-4			
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
COPPER	4100		85620	MG/KG	25.3	42.7	29.6	26.3	27	25.9 D
IRON	10000		7532	MG/KG	**25300**	**19700**	**27000**	**23600**	**21500**	**23800 D**
LEAD	800		22500	MG/KG	6.8	8.7	8.2	7.2	11.1	5.8 D
LITHIUM	2000			MG/KG	25.2	19.5	20.9	22.6	20.3	22 D
MAGNESIUM				MG/KG	12300	14200	10100	7630	8290	9920 D
MANGANESE	1900		19530	MG/KG	760	724 J	1030 J	1210	684 J	819 J
MERCURY	31		36.53	MG/KG	0.048	0.02 J	0.024 J	0.021 J	0.030 U	0.037 U
MOLYBDENUM	510		3619	MG/KG	0.44 J	5 U	0.7 J	0.38 J	5.0 U	4.9 U
NICKEL	2000		602.1	MG/KG	20.9	16.3	21	19.7	19.5	20.6 D
POTASSIUM				MG/KG	2650	1630	1960	2070	2120 J	2600 J
SELENIUM	510		3001	MG/KG	4.6 U	1.1 J	4.9 U	4.8 U	5.0 U	4.9 U
SILVER	510		420.4	MG/KG	0.054 J	0.048 J	0.038 J	0.054 J	0.033 J	0.024 J
SODIUM				MG/KG	141 J	1000 U	982 U	962 U	147 J	145 J
THALLIUM	6.7		750.1	MG/KG	1.8 U	2 U	2 U	1.9 U	2.0 U	2.0 U
VANADIUM	100		36000	MG/KG	31.2	26.6	31.5	29.4	25.9	28.7
ZINC	10000		124200	MG/KG	45.5 J	48.8 J	52.3 J	46 J	58.3 J	42.4 J
General Chemistry										
CYANIDE	1200		2001	MG/KG	0.17 U	0.16 U	0.17 U	0.16 U	0.18 U	0.17 U
PERCENT MOISTURE				%						
PERCENT SOLIDS				%	84	86	82	84	82	86

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	CW	CW	CW	CW	DW	DW
				Excavation:	X61	X62	X62	X73	X35	X38
				Sample Name:	C7-CWM-SO-X61-CW01-6	C7-CWM-SO-X62-CW01-5	C7-CWM-SO-DUP14	C7-CWM-SO-X73-CW01-7.5	C7-CWM-SO-X35-DW01-3.5	C7-CWM-SO-X38-DW01-3
				Sample Depth:	6 FT	5 FT	5 FT	7.5 FT	3.5 FT	3 FT
				Sample Date:	9/13/2006	9/13/2006	9/13/2006	9/18/2006	9/5/2006	9/5/2006
				Parent Name:			C7-CWM-SO-X62-CW01-5			
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	4619	UG/KG	5.5 U	5.2 U	5.1 U	7.2 U	5.1 U	5.0 U
1,1,2,2-TETRACHLOROETHANE	930	35000	2495	UG/KG	5.5 U	5.2 U	5.1 U	7.2 U	5.1 U	5.0 U
1,1,2-TRICHLOROETHANE	1600		483.4	UG/KG	5.5 U	5.2 U	5.1 U	7.2 U	5.1 U	5.0 U
1,1-DICHLOROETHANE	170000	800000	2047	UG/KG	5.5 U	5.2 U	5.1 U	7.2 U	5.1 U	5.0 U
1,1-DICHLOROETHYLENE	41000	12000	3119	UG/KG	5.5 U	5.2 U	5.1 U	7.2 U	5.1 U	5.0 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG	5.5 U	5.2 U	5.1 U	7.2 U	5.1 U	5.0 U
1,2-DICHLOROETHANE	600	7700	180.9	UG/KG	5.5 U	5.2 U	5.1 U	7.2 U	5.1 U	5.0 U
1,3-DICHLOROBENZENE	60000		6796	UG/KG	5.5 U	5.2 U	5.1 U	7.2 U	5.1 U	5.0 U
1,4-DICHLOROBENZENE	7900		6790	UG/KG	5.5 U	5.2 U	5.1 U	7.2 U	5.1 U	5.0 U
2-BUTANONE	11000000	400000	6476	UG/KG	11 U	10 U	10 U	14 U	10 U	10 U
4-METHYL-2-PENTANONE	4700000	400000	1497000	UG/KG	11 U	10 U	10 U	14 U	10 U	10 U
ACETONE	5400000	800000	5514	UG/KG	11 U	10 U	10 U	14 U	10 U	10 U
BENZENE	1400	24000	453.8	UG/KG	5.5 U	5.2 U	5.1 U	7.2 U	5.1 U	5.0 U
CARBON DISULFIDE	72000	800000	32890	UG/KG	5.5 U	5.2 U	5.1 U	7.2 U	5.1 U	5.0 U
CARBON TETRACHLORIDE	550	5400	5303	UG/KG	5.5 U	5.2 U	5.1 U	7.2 U	5.1 U	5.0 U
CHLOROBENZENE	53000	200000	7253	UG/KG	5.5 U	5.2 U	5.1 U	7.2 U	5.1 U	5.0 U
CHLOROFORM	470	80000	2770	UG/KG	5.5 U	5.2 U	5.1 U	7.2 U	5.1 U	5.0 U
CIS-1,2-DICHLOROETHENE	15000	80000	1575	UG/KG	2 J	5.2 U	5.1 U	7.2 U	5.1 U	5.0 U
CIS-1,3-DICHLOROPROPENE	1800			UG/KG	5.5 U	5.2 U	5.1 U	7.2 U	5.1 U	5.0 U
ETHYLBENZENE	40000	800000	5749	UG/KG	5.5 U	5.2 U	5.1 U	7.2 U	5.1 U	5.0 U
ISOPROPYLBENZENE	200000		21090	UG/KG	5.5 U	5.2 U	5.1 U	7.2 U	5.1 U	5.0 U
M+P-XYLENE	42000	20000000		UG/KG	5.5 U	5.2 U	5.1 U	7.2 U	5.1 U	5.0 U
METHYLENE CHLORIDE	21000	93000	862.5	UG/KG	7 J	4.9 J	5.3 J	14 U	10 U	10 U
O-XYLENE	42000	20000000		UG/KG	5.5 U	5.2 U	5.1 U	7.2 U	5.1 U	5.0 U
STYRENE	170000		13390	UG/KG	5.5 U	5.2 U	5.1 U	7.2 U	5.1 U	5.0 U
TETRACHLOROETHENE	1300	14000	7858	UG/KG	5.5 U	5.2 U	5.1 U	7.2 U	5.1 U	5.0 U
TOLUENE	52000	2000000	4226	UG/KG	5.5 U	5.2 U	5.1 U	7.2 U	5.1 U	5.0 U
TRANS-1,2-DICHLOROETHENE	23000	200000	1811	UG/KG	5.5 U	5.2 U	5.1 U	7.2 U	5.1 U	5.0 U
TRICHLOROETHYLENE	6500	64000	3227	UG/KG	12	5.2 U	5.1 U	7.2 U	1.7 J	5.0 U
VINYL CHLORIDE	750	360	794.4	UG/KG	11 U	10 U	10 U	14 U	10 U	10 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		18270	UG/KG	8.2 U	8.2 U	8.2 U	7.3 U	8.1 U	7.7 U
1,2-BENZPHENANTHRACENE	210000		3943	UG/KG	26	8.2 U	8.2 U	33	2.8 J	3.5 J
1,2-DICHLOROBENZENE	60000		6914	UG/KG						

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	CW	CW	CW	CW	DW	DW
				Excavation:	X61	X62	X62	X73	X35	X38
				Sample Name:	C7-CWM-SO-X61-CW01-6	C7-CWM-SO-X62-CW01-5	C7-CWM-SO-DUP14	C7-CWM-SO-X73-CW01-7.5	C7-CWM-SO-X35-DW01-3.5	C7-CWM-SO-X38-DW01-3
				Sample Depth:	6 FT	5 FT	5 FT	7.5 FT	3.5 FT	3 FT
				Sample Date:	9/13/2006	9/13/2006	9/13/2006	9/18/2006	9/5/2006	9/5/2006
				Parent Name:			C7-CWM-SO-X62-CW01-5			
Analyte	Crit1	Crit2	Crit3	Unit						
1,3-DICHLOROBENZENE	60000		6796	UG/KG						
1,4-DICHLOROBENZENE	7900		6790	UG/KG						
2,4-DIMETHYLPHENOL	1200000		2660000	UG/KG	41 U	41 U	41 U	37 U	40 U	39 U
2-CHLOROPHENOL	24000	40000	68720	UG/KG	41 U	41 U	41 U	37 U	40 U	39 U
2-METHYLNAPHTHALENE	19000		147800	UG/KG	8.2 U	8.2 U	8.2 U	7.3 U	8.1 U	7.7 U
2-METHYLPHENOL	3100000		412300	UG/KG	41 U	41 U	41 U	37 U	40 U	39 U
4-CHLORO-3-METHYLPHENOL				UG/KG	41 U	41 U	41 U	37 U	40 U	39 U
4-METHYLPHENOL	310000	400000	90940	UG/KG	41 U	41 U	41 U	37 U	40 U	39 U
ACENAPHTHENE	2900000	500000	485100	UG/KG	8.2 U	8.2 U	8.2 U	7.3 U	8.1 U	7.7 U
ACENAPHTHYLENE	2900000		199500	UG/KG	8.2 U	8.2 U	8.2 U	7.3 U	8.1 U	7.7 U
ANTHRACENE	10000000	2000000	5919000	UG/KG	6.2 J	8.2 U	8.2 U	2.2 J	8.1 U	7.7 U
BENZ[A]ANTHRACENE	2100	224	3923	UG/KG	21	8.2 U	8.2 U	32	3.2 J	2.7 J
BENZO[A]PYRENE	210	60.9		UG/KG	20	8.2 U	8.2 U	27	3.2 J	7.7 U
BENZO[B]FLUORANTHENE	2100	224	12120	UG/KG	30	8.2 U	8.2 U	28	8.1 U	7.7 U
BENZO[GHI]PERYLENE	2900000			UG/KG	12	8.2 U	8.2 U	14	4.8 J	7.7 U
BENZO[K]FLUORANTHENE	21000	224	12120	UG/KG	8.2 U	8.2 U	8.2 U	28 J	8.1 U	7.7 U
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	372100000	UG/KG	8.2 U	8.2 U	8.2 U	1000	8.1 U	430 J
CARBAZOLE	86000		1135	UG/KG	8.2 U	8.2 U	8.2 U	7.3 U	5.7 J	7.7 U
DIBENZ[A,H]ANTHRACENE	210	14.3	172300	UG/KG	8.2 U	8.2 U	8.2 U	4.8 J	8.1 U	7.7 U
DIBENZOFURAN	160000		462500	UG/KG	8.2 U	8.2 U	8.2 U	7.3 U	8.1 U	7.7 U
DIETHYL PHTHALATE	10000000	6000000		UG/KG	6.2 J	6.6 J	6.5 J	7.3 U	8.1 U	7.7 U
DI-N-BUTYL PHTHALATE	6200000	800000	8358000	UG/KG	170	150	210	64	4.8 J	7.7 U
DI-N-OCTYL PHTHALATE	2500000	200000	593000	UG/KG	8.2 U	8.2 U	8.2 U	7.3 U	8.1 U	7.7 U
FLUORANTHENE	2200000	300000	26370000	UG/KG	48	8.2 U	6.1 J	45	8.9	5.8 J
FLUORENE	2600000	300000	1952000	UG/KG	2.9 J	8.2 U	8.2 U	7.3 U	8.1 U	7.7 U
HEXACHLORO-1,3-BUTADIENE	18000		132400	UG/KG	8.2 U	8.2 U	8.2 U	7.3 U	8.1 U	7.7 U
HEXACHLOROBENZENE	1100	410	10850	UG/KG	8.2 U	8.6 J	32 J	7.3 U	8.1 U	7.7 U
HEXACHLOROETHANE	62000		44540	UG/KG	8.2 U	8.2 U	8.2 U	7.3 U	8.1 U	7.7 U
INDENO[1,2,3-CD]PYRENE	2100		34200	UG/KG	11	8.2 U	8.2 U	14	8.1 U	7.7 U
NAPHTHALENE	19000	30000	60240	UG/KG	8.2 U	8.2 U	8.2 U	7.3 U	8.1 U	7.7 U
PHENANTHRENE	19000		1189000	UG/KG	18	8.2 U	8.2 U	8.1	8.9	3.1 J
PHENOL	10000000	5000000	250.1	UG/KG	41 U	41 U	41 U	37 U	40 U	39 U
PYRENE	2900000	200000	16760000	UG/KG	34	8.2 U	6.1 J	33	11	3.1 J
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	6608000	UG/KG	2.1 U	2.1 U	10 U	1.8 U	2.0 U	39 U

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	CW	CW	CW	CW	DW	DW
				Excavation:	X61	X62	X62	X73	X35	X38
				Sample Name:	C7-CWM-SO-X61-CW01-6	C7-CWM-SO-X62-CW01-5	C7-CWM-SO-DUP14	C7-CWM-SO-X73-CW01-7.5	C7-CWM-SO-X35-DW01-3.5	C7-CWM-SO-X38-DW01-3
				Sample Depth:	6 FT	5 FT	5 FT	7.5 FT	3.5 FT	3 FT
				Sample Date:	9/13/2006	9/13/2006	9/13/2006	9/18/2006	9/5/2006	9/5/2006
				Parent Name:			C7-CWM-SO-X62-CW01-5			
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
4,4'-DDE	7000	2100	2592000	UG/KG	1.4 J	2.1 U	21 J	1.8 U	2.1 J	44 J
4,4'-DDT	7000	2100	85.5	UG/KG	8.4	2.1 U	10 U	1.8 U	6.3 J	39 U
ALDRIN	100	41		UG/KG	2.1 U	2.1 U	10 U	1.8 U	2.0 U	39 U
ALPHA-BHC	360	111	61.69	UG/KG	2.1 U	2.1 U	10 U	1.8 U	2.0 U	39 U
ALPHA-CHLORDANE	6500		29570	UG/KG	2.1 U	2.1 U	10 U	1.8 U	2.0 U	9.6 J
AROCLOR 1232	740	1000	45780	UG/KG	21 U	21 U	20 U	18 U	20 U	190 U
AROCLOR 1254	740	1000	335400	UG/KG	21 U	21 U	20 U	18 U	20 U	190 U
AROCLOR 1260	740	1000	918200	UG/KG	21 U	21 U	20 U	18 U	52	**3400**
BETA-BHC	1300	3890	252.7	UG/KG	2.1 U	2.1 U	10 U	1.8 U	2.0 U	39 U
DELTA-BHC	360		2320	UG/KG	2.1 U	2.1 U	10 U	1.8 U	2.0 U	39 U
DIELDRIN	110	44	422.3	UG/KG	4.8 J	2.1 U	90 J	1.8 U	2.0 U	**130 J**
ENDOSULFAN I	370000		2344000	UG/KG	2.1 U	2.1 U	10 U	1.8 U	2.0 U	39 U
ENDOSULFAN II	370000		2344000	UG/KG	2.1 U	2.1 U	10 U	1.8 U	2.0 U	39 U
ENDOSULFAN SULFATE	370000		2344000	UG/KG	2.1 U	2.1 U	10 U	1.8 U	2.0 U	39 U
ENDRIN ALDEHYDE	18000		303600	UG/KG	5.3 J	2.1 U	10 U	0.35 J	1.5 J	170 J
ENDRIN KETONE	18000		303600	UG/KG	2.1 U	2.1 U	10 U	1.8 U	2.0 U	39 U
GAMMA-BHC	1700	2000	269	UG/KG	2.1 U	2.1 U	10 U	1.8 U	2.0 U	39 U
GAMMA-CHLORDANE	6500	500	29570	UG/KG	2.1 U	2.1 U	10 U	1.8 U	2.0 U	39 U
HEPTACHLOR EPOXIDE	190	77	12300	UG/KG	2.1 U	2.1 U	10 U	1.8 U	2.0 U	39 U
METHOXYCHLOR	310000	40000	16860000	UG/KG	2.1 U	2.1 U	8.3 J	1.8 U	2.0 U	39 U
Explosives (8330)										
HMX	3100000		16630000	UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
NITROBENZENE	10000	4000	419	UG/KG	50 J	24 J	20 J	100 U	200	33 J
RDX	16000			UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		54000000	MG/KG	**13900**	**14800 J**	9720 J	8580	**12300**	**12900**
ANTIMONY	41		135.3	MG/KG	1.0 U	0.97 U	1.0 U	0.90 U	0.36 J	1 U
ARSENIC	1.6		5003	MG/KG	**3.3 J**	**4.1 J**	**1.9 J**	**3 J**	**3.5 J**	**3.6 J**
BARIUM	6700		41110	MG/KG	113	107 J	58.3 J	81.4	152 J	85.4 J
BERYLLIUM	190		2370	MG/KG	0.81	0.63 J	0.35 J	0.33	0.6	0.55
BORON	10000		3107	MG/KG	7.3 J	19 U	20 U	18 U	38.2	20.5 U
CADMIUM	45		375.5	MG/KG	0.23 J	0.2 J	0.50 U	0.45 U	0.47 J	0.25 J
CALCIUM				MG/KG	38800	5160 J	16500 J	17900 J	40600 J	20100 J
CHROMIUM	64		90000000	MG/KG	**96.3**	21.6	17.4	11.3	30.8	16.6
COBALT	1900		32930	MG/KG	9	9.5 J	5 J	5.6	8.8	7.5

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	CW	CW	CW	CW	DW	DW
				Excavation:	X61	X62	X62	X73	X35	X38
				Sample Name:	C7-CWM-SO-X61-CW01-6	C7-CWM-SO-X62-CW01-5	C7-CWM-SO-DUP14	C7-CWM-SO-X73-CW01-7.5	C7-CWM-SO-X35-DW01-3.5	C7-CWM-SO-X38-DW01-3
				Sample Depth:	6 FT	5 FT	5 FT	7.5 FT	3.5 FT	3 FT
				Sample Date:	9/13/2006	9/13/2006	9/13/2006	9/18/2006	9/5/2006	9/5/2006
				Parent Name:			C7-CWM-SO-X62-CW01-5			
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
COPPER	4100		85620	MG/KG	58.4	21.5	14.9	24.5	27.2	27.8
IRON	10000		7532	MG/KG	**19600**	**30700 J**	**14500 J**	**16300**	**34500**	**20300**
LEAD	800		22500	MG/KG	21	7.2	6.5	5.4	21	16.9
LITHIUM	2000			MG/KG	20.4	23.8	18.2	12.5	22.6	19.1
MAGNESIUM				MG/KG	8580	3550 J	7840 J	4540	8700 J	5690 J
MANGANESE	1900		19530	MG/KG	973	809 J	373 J	518	809 J	790 J
MERCURY	31		36.53	MG/KG	0.039	0.013 J	0.023 J	0.033 U	0.11	0.034 U
MOLYBDENUM	510		3619	MG/KG	0.66 J	1.1 J	0.41 J	0.3 J	4.7 U	5.1 U
NICKEL	2000		602.1	MG/KG	17	14.1	9.8	12.3	34	16.2
POTASSIUM				MG/KG	1700	1000	764 J	856 J	2470 J	1860 J
SELENIUM	510		3001	MG/KG	5.1 U	4.8 U	5.0 U	4.5 U	4.7 U	5.1 U
SILVER	510		420.4	MG/KG	0.054 J	0.025 J	0.022 J	0.035 J	0.041 J	0.042 J
SODIUM				MG/KG	1000 U	970 U	1000 U	116 J	145 J	78.3 J
THALLIUM	6.7		750.1	MG/KG	2.0 U	1.9 U	2.0 U	1.8 U	1.9 U	2.1 U
VANADIUM	100		36000	MG/KG	29.2	32.2	21	19.9	25.1	24.7
ZINC	10000		124200	MG/KG	128 J	66.7 J	51.4 J	34.9 J	65.6 J	45.1 J
General Chemistry										
CYANIDE	1200		2001	MG/KG	0.17 U	0.17 U	0.16 U	0.17 U	0.16 U	0.16 U
PERCENT MOISTURE				%						
PERCENT SOLIDS				%	81	81	81	91	82	86

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	DW	DW	SN	SN	SN	SN
				Excavation:	X77A	X116		X01	X02	X02
				Sample Name:	C7-CWM-SO-X77A DW01-3	C7-CWM-SO-X116-DW01-7	C1-NH-SO-PIPE1	C7-CWM-SO-X01-SN01-6.5	C7-CWM-SO-X02-SN01-10	C7-CWM-SO-DUP8
				Sample Depth:	3 FT	7 FT	4	6.5 FT	10 FT	10 FT
				Sample Date:	9/19/2006	10/10/2006	6/29/1998	8/21/2006	8/21/2006	8/21/2006
				Parent Name:						C7-CWM-SO-X02-SN01-10
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	4619	UG/KG	5.2 U	5.8 U	340 U	6.0 U	5.4 U	5.4 U
1,1,2,2-TETRACHLOROETHANE	930	35000	2495	UG/KG	5.2 U	5.8 U	340 U	6.0 U	5.4 U	5.4 U
1,1,2-TRICHLOROETHANE	1600		483.4	UG/KG	5.2 U	5.8 U	340 U	6.0 U	5.4 U	5.4 U
1,1-DICHLOROETHANE	170000	800000	2047	UG/KG	5.2 U	5.8 U	340 U	6.0 U	5.4 U	5.4 U
1,1-DICHLOROETHYLENE	41000	12000	3119	UG/KG	5.2 U	5.8 U	340 U	6.0 U	5.4 U	5.4 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG	5.2 U	5.8 U		6.0 U	5.4 U	5.4 U
1,2-DICHLOROETHANE	600	7700	180.9	UG/KG	5.2 U	5.8 U	340 U	6.0 U	5.4 U	5.4 U
1,3-DICHLOROBENZENE	60000		6796	UG/KG	5.2 U	5.8 U		6.0 U	5.4 U	5.4 U
1,4-DICHLOROBENZENE	7900		6790	UG/KG	5.2 U	5.8 U		6.0 U	5.4 U	5.4 U
2-BUTANONE	11000000	400000	6476	UG/KG	10 U	12 U	1300 U	12 U	11 U	11 U
4-METHYL-2-PENTANONE	4700000	400000	1497000	UG/KG	10 U	12 U	1300 U	12 U	11 U	11 U
ACETONE	5400000	800000	5514	UG/KG	10 U	12 U	1300 U	12 U	11 U	11 U
BENZENE	1400	24000	453.8	UG/KG	5.2 U	5.8 U	340 U	6.0 U	5.4 U	5.4 U
CARBON DISULFIDE	72000	800000	32890	UG/KG	5.2 U	5.8 J	340 U	6.0 U	5.4 U	5.4 U
CARBON TETRACHLORIDE	550	5400	5303	UG/KG	5.2 U	5.8 U	340 U	6.0 U	5.4 U	5.4 U
CHLOROBENZENE	53000	200000	7253	UG/KG	5.2 U	5.8 U	340 U	6.0 U	5.4 U	5.4 U
CHLOROFORM	470	80000	2770	UG/KG	5.2 U	5.8 U	340 U	6.0 U	5.4 U	5.4 U
CIS-1,2-DICHLOROETHENE	15000	80000	1575	UG/KG	5.2 U	5.8 U		6.0 U	5.4 U	5.4 U
CIS-1,3-DICHLOROPROPENE	1800			UG/KG	5.2 U	5.8 U	340 U	6.0 U	5.4 U	5.4 U
ETHYLBENZENE	40000	800000	5749	UG/KG	5.2 U	5.8 U	340 U	6.0 U	5.4 U	5.4 U
ISOPROPYLBENZENE	200000		21090	UG/KG	5.2 U	5.8 U		6.0 U	5.4 U	5.4 U
M+P-XYLENE	42000	20000000		UG/KG	5.2 U	5.8 U		6.0 U	5.4 U	5.4 U
METHYLENE CHLORIDE	21000	93000	862.5	UG/KG	10 U	12 U	340 U	12 U	11 U	11 U
O-XYLENE	42000	20000000		UG/KG	5.2 U	5.8 U		6.0 U	5.4 U	5.4 U
STYRENE	170000		13390	UG/KG	5.2 U	5.8 U	340 U	6.0 U	5.4 U	5.4 U
TETRACHLOROETHENE	1300	14000	7858	UG/KG	5.2 U	5.8 U	340 U	6.0 U	5.4 U	5.4 U
TOLUENE	52000	2000000	4226	UG/KG	5.2 U	5.8 U	340 U	6.0 U	5.4 U	5.4 U
TRANS-1,2-DICHLOROETHENE	23000	200000	1811	UG/KG	5.2 U	5.8 U		6.0 U	5.4 U	5.4 U
TRICHLOROETHYLENE	6500	64000	3227	UG/KG	5.2 U	5.8 U	340 U	6.0 U	5.4 U	1.3 J
VINYL CHLORIDE	750	360	794.4	UG/KG	10 U	12 J	670 U	12 U	11 U	11 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		18270	UG/KG	7.2 U	8.9 U	110 U	7.1 U	7.6 U	7.6 U
1,2-BENZPHENANTHRACENE	210000		3943	UG/KG	7.2 J	240	200	7.1 U	7.6 U	7.6 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG			120 U			

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	DW	DW	SN	SN	SN	SN
				Excavation:	X77A	X116		X01	X02	X02
				Sample Name:	C7-CWM-SO-X77A DW01-3	C7-CWM-SO-X116-DW01-7	C1-NH-SO-PIPE1	C7-CWM-SO-X01-SN01-6.5	C7-CWM-SO-X02-SN01-10	C7-CWM-SO-DUP8
				Sample Depth:	3 FT	7 FT	4	6.5 FT	10 FT	10 FT
				Sample Date:	9/19/2006	10/10/2006	6/29/1998	8/21/2006	8/21/2006	8/21/2006
				Parent Name:						C7-CWM-SO-X02-SN01-10
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
1,3-DICHLOROBENZENE	60000		6796	UG/KG			120 U			
1,4-DICHLOROBENZENE	7900		6790	UG/KG			110 U			
2,4-DIMETHYLPHENOL	1200000		2660000	UG/KG	36 U	44 U	100 U	36 U	38 U	38 U
2-CHLOROPHENOL	24000	40000	68720	UG/KG	36 U	44 U	120 U	36 U	38 U	38 U
2-METHYLNAPHTHALENE	19000		147800	UG/KG	7.2 U	8.9 U		7.1 U	7.6 U	7.6 U
2-METHYLPHENOL	3100000		412300	UG/KG	36 U	44 U	100 U	36 U	38 U	38 U
4-CHLORO-3-METHYLPHENOL				UG/KG	36 U	44 U	110 U	36 U	38 U	38 U
4-METHYLPHENOL	310000	400000	90940	UG/KG	36 U	44 U	110 U	36 U	38 U	38 U
ACENAPHTHENE	2900000	500000	485100	UG/KG	7.2 U	16	1100	7.1 U	7.6 U	7.6 U
ACENAPHTHYLENE	2900000		199500	UG/KG	7.2 U	3.6 J	56 U	7.1 U	7.6 U	7.6 U
ANTHRACENE	10000000	2000000	5919000	UG/KG	7.2 U	58	76	7.1 U	7.6 U	7.6 U
BENZ[A]ANTHRACENE	2100	224	3923	UG/KG	12	300	230	7.1 U	7.6 U	7.6 U
BENZO[A]PYRENE	210	60.9		UG/KG	8.3	**230**	**250**	7.1 U	7.6 U	7.6 U
BENZO[B]FLUORANTHENE	2100	224	12120	UG/KG	7.2 J	350	250	7.1 U	7.6 U	7.6 U
BENZO[GHI]PERYLENE	2900000			UG/KG	5.4 J	88	140	7.1 U	7.6 U	7.6 U
BENZO[K]FLUORANTHENE	21000	224	12120	UG/KG	11 J	8.9 U	110	7.1 U	7.6 U	7.6 U
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	372100000	UG/KG	7.2 U	8.9 U	100 U	7.1 U	7.6 U	7.6 U
CARBAZOLE	86000		1135	UG/KG	7.2 U	57	120 U	7.1 U	7.6 U	7.6 U
DIBENZ[A,H]ANTHRACENE	210	14.3	172300	UG/KG	7.2 U	21	21	7.1 U	7.6 U	7.6 U
DIBENZOFURAN	160000		462500	UG/KG	7.2 U	10	140 U	7.1 U	7.6 U	7.6 U
DIETHYL PHTHALATE	10000000	6000000		UG/KG	5 J	8.9 U	97 U	7.1 U	7.6 U	7.6 U
DI-N-BUTYL PHTHALATE	6200000	800000	8358000	UG/KG	87	8.9 U	160 U	7.1 U	7.6 U	3.8 J
DI-N-OCTYL PHTHALATE	2500000	200000	593000	UG/KG	7.2 U	8.9 U	93 U	7.1 U	7.6 U	7.6 U
FLUORANTHENE	2200000	300000	26370000	UG/KG	28	520	580	3.2 J	7.6 U	7.6 U
FLUORENE	2600000	300000	1952000	UG/KG	7.2 U	21	17	7.1 U	7.6 U	7.6 U
HEXACHLORO-1,3-BUTADIENE	18000		132400	UG/KG	7.2 U	8.9 U	120 U	7.1 U	7.6 U	7.6 U
HEXACHLOROBENZENE	1100	410	10850	UG/KG	7.2 U	8.9 U	120 U	7.1 U	7.6 U	7.6 U
HEXACHLOROETHANE	62000		44540	UG/KG	7.2 U	8.9 U	120 U	7.1 U	7.6 U	7.6 U
INDENO[1,2,3-CD]PYRENE	2100		34200	UG/KG	5 J	93	74	7.1 U	7.6 U	7.6 U
NAPHTHALENE	19000	30000	60240	UG/KG	7.2 U	3.6 J	13	7.1 U	7.6 U	7.6 U
PHENANTHRENE	19000		1189000	UG/KG	10	200	300	5.3 J	7.6 U	7.6 U
PHENOL	10000000	5000000	250.1	UG/KG	36 U	44 U	98 U	36 U	38 U	38 U
PYRENE	2900000	200000	16760000	UG/KG	19 J	480	450	2.8 J	7.6 U	7.6 U
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	6608000	UG/KG	1.8 U	2.2 U	0.35 U	1.8 U	1.9 U	1.9 U

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	DW	DW	SN	SN	SN	SN
				Excavation:	X77A	X116		X01	X02	X02
				Sample Name:	C7-CWM-SO-X77A DW01-3	C7-CWM-SO-X116-DW01-7	C1-NH-SO-PIPE1	C7-CWM-SO-X01-SN01-6.5	C7-CWM-SO-X02-SN01-10	C7-CWM-SO-DUP8
				Sample Depth:	3 FT	7 FT	4	6.5 FT	10 FT	10 FT
				Sample Date:	9/19/2006	10/10/2006	6/29/1998	8/21/2006	8/21/2006	8/21/2006
				Parent Name:						C7-CWM-SO-X02-SN01-10
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
4,4'-DDE	7000	2100	2592000	UG/KG	1.8 U	0.71 J	10 J	1.8 U	1.9 U	1.9 U
4,4'-DDT	7000	2100	85.5	UG/KG	1.8 U	2.2 U	0.23 U	1.8 U	1.9 U	1.9 U
ALDRIN	100	41		UG/KG	1.8 U	2.2 U	16 J	1.8 U	1.9 U	1.9 U
ALPHA-BHC	360	111	61.69	UG/KG	1.8 U	2.2 U	0.14 U	1.8 U	1.9 U	1.9 U
ALPHA-CHLORDANE	6500		29570	UG/KG	1.8 U	2.2 U	4.1 J	1.8 U	1.9 U	1.9 U
AROCLOR 1232	740	1000	45780	UG/KG	18 U	22 U	11 U	18 U	19 U	19 U
AROCLOR 1254	740	1000	335400	UG/KG	18 U	22 U	3.3 U	18 U	19 U	19 U
AROCLOR 1260	740	1000	918200	UG/KG	18 U	22 U	8.8 U	18 U	19 U	19 U
BETA-BHC	1300	3890	252.7	UG/KG	1.8 U	2.2 U	0.08799 U	1.8 U	1.9 U	1.9 U
DELTA-BHC	360		2320	UG/KG	1.8 U	2.2 U	7.2 J	1.8 U	1.9 U	1.9 U
DIELDRIN	110	44	422.3	UG/KG	1.8 U	2.2 U	9.7	1.8 U	1.9 U	1.9 U
ENDOSULFAN I	370000		2344000	UG/KG	1.8 U	2.2 U	3.7 J	1.8 U	1.9 U	1.9 U
ENDOSULFAN II	370000		2344000	UG/KG	1.8 U	2.2 U	0.41 U	1.8 U	1.9 U	1.9 U
ENDOSULFAN SULFATE	370000		2344000	UG/KG	1.8 U	2.2 U	0.38 U	1.8 U	1.9 U	1.9 U
ENDRIN ALDEHYDE	18000		303600	UG/KG	1.8 U	2.2 U	1.4 U	1.8 U	1.9 U	1.9 U
ENDRIN KETONE	18000		303600	UG/KG	1.8 U	2.2 U	3.3 J	1.8 U	1.9 U	1.9 U
GAMMA-BHC	1700	2000	269	UG/KG	1.8 U	2.2 U	0.12 U	1.8 U	1.9 U	1.9 U
GAMMA-CHLORDANE	6500	500	29570	UG/KG	1.8 U	2.2 U	0.63 J	1.8 U	1.9 U	1.9 U
HEPTACHLOR EPOXIDE	190	77	12300	UG/KG	1.8 U	2.2 U	10 J	1.8 U	1.9 U	1.9 U
METHOXYCHLOR	310000	40000	16860000	UG/KG	1.8 U	2.2 U	2.7 J	1.8 U	1.9 U	1.9 U
Explosives (8330)										
HMX	3100000		16630000	UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
NITROBENZENE	10000	4000	419	UG/KG	98 U	130 J	90 U	100 U	98 U	100 U
RDX	16000			UG/KG	200 U	200 U	140 U	200 U	200 U	200 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		54000000	MG/KG	**14400**	**12100**	6430	**11200**	**14700**	**13900**
ANTIMONY	41		135.3	MG/KG	.91 U	0.96 U	0.46 J	.79 U	.91 U	.86 U
ARSENIC	1.6		5003	MG/KG	**3.2 J**	**4 J**	**2.9**	**3.5 J**	**3.9 J**	**3.2 J**
BARIUM	6700		41110	MG/KG	153	111	49.6	78.4 J	148 J	117 J
BERYLLIUM	190		2370	MG/KG	0.6	0.61	0.19 J	0.59	0.73	0.71
BORON	10000		3107	MG/KG	18.1 U	19 U	3.9 J	15.7 U	18.2 U	17.3 U
CADMIUM	45		375.5	MG/KG	0.44 J	0.22 J	0.06 U	0.2 J	0.28 J	0.3 J
CALCIUM				MG/KG	30600	26100	35600	51300	38300	47500
CHROMIUM	64		90000000	MG/KG	19.8	17.2	12.5	15.5 J	18.2 J	17.3 J
COBALT	1900		32930	MG/KG	7.9	9.8	5.1 J	8.9	9	8.3

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	DW	DW	SN	SN	SN	SN
				Excavation:	X77A	X116		X01	X02	X02
				Sample Name:	C7-CWM-SO-X77A DW01-3	C7-CWM-SO-X116-DW01-7	C1-NH-SO-PIPE1	C7-CWM-SO-X01-SN01-6.5	C7-CWM-SO-X02-SN01-10	C7-CWM-SO-DUP8
				Sample Depth:	3 FT	7 FT	4	6.5 FT	10 FT	10 FT
				Sample Date:	9/19/2006	10/10/2006	6/29/1998	8/21/2006	8/21/2006	8/21/2006
				Parent Name:						C7-CWM-SO-X02-SN01-10
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
COPPER	4100		85620	MG/KG	24.6	24.2 J	27.5	28.6	31.3	31.1
IRON	10000		7532	MG/KG	**24900**	**78400**	**19000**	**21700**	**23600**	**21700**
LEAD	800		22500	MG/KG	7.2	7.1	6	129	6.9	6.5
LITHIUM	2000			MG/KG	30.2	21.5	11.6	20.2	23.7	22.5
MAGNESIUM				MG/KG	7110	8170	3350 J	10200	7480	8110
MANGANESE	1900		19530	MG/KG	540 J	805 J	501	830	675	581
MERCURY	31		36.53	MG/KG	.034 U	0.021 J	0.05 U	0.016 J	0.025 J	0.025 J
MOLYBDENUM	510		3619	MG/KG	0.47 J	0.6 J		0.37 J	0.61 J	0.44 J
NICKEL	2000		602.1	MG/KG	19.3	21.8 J	10.4	18.6	19.7	19.2
POTASSIUM				MG/KG	2030	1910	634	1950 J	1550 J	1620 J
SELENIUM	510		3001	MG/KG	4.5 U	4.8 U	1.2	3.9 U	0.91 J	4.3 U
SILVER	510		420.4	MG/KG	0.044 J	0.036 J	0.31 U	0.069 J	0.048 J	0.045 J
SODIUM				MG/KG	98.5 J	110 J	179	786 U	908 U	865 U
THALLIUM	6.7		750.1	MG/KG	1.8 U	1.9 U	0.11 U	1.6 U	1.8 U	1.7 U
VANADIUM	100		36000	MG/KG	28.6	24.6	13 J	26	31.3	28.8
ZINC	10000		124200	MG/KG	55.5 J	47.2 J	73.3 J	45.2 J	45.6 J	45.4 J
General Chemistry										
CYANIDE	1200		2001	MG/KG	0.15 U	0.19 U	0.22 U	0.14 U	0.15 U	0.15 U
PERCENT MOISTURE				%			12.3			
PERCENT SOLIDS				%		75		94	87	88

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	SN	SN	SN
				Excavation:	X03	X04	X05	X06	X14	X15
				Sample Name:	C7-CWM-SO-X03-SN01-5.5	C7-CWM-SO-X04-SN01-4.5	C7-CWM-SO-X05-SN01-4.5	C7-CWM-SO-X06-SN01-4	C7-CWM-SO-X14-SN01-9	C7-CWM-SO-X15-SN01-2
				Sample Depth:	5.5 FT	4.5 FT	4.5 FT	4 FT	9 FT	2 FT
				Sample Date:	8/21/2006	8/21/2006	8/22/2006	8/22/2006	8/24/2006	8/24/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	4619	UG/KG	5.2 U	6.0 U	4.7 U	5.1 U	5.2 U	5.6 U
1,1,2,2-TETRACHLOROETHANE	930	35000	2495	UG/KG	5.2 U	6.0 U	4.7 U	5.1 U	5.2 U	5.6 U
1,1,2-TRICHLOROETHANE	1600		483.4	UG/KG	5.2 U	6.0 U	4.7 U	5.1 U	5.2 U	5.6 U
1,1-DICHLOROETHANE	170000	800000	2047	UG/KG	5.2 U	6.0 U	4.7 U	5.1 U	5.2 U	5.6 U
1,1-DICHLOROETHYLENE	41000	12000	3119	UG/KG	5.2 U	6.0 U	4.7 U	5.1 U	5.2 U	5.6 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG	5.2 U	6.0 U	4.7 U	5.1 U	5.2 U	5.6 U
1,2-DICHLOROETHANE	600	7700	180.9	UG/KG	5.2 U	6.0 U	4.7 U	5.1 U	5.2 U	5.6 U
1,3-DICHLOROBENZENE	60000		6796	UG/KG	5.2 U	6.0 U	4.7 U	5.1 U	5.2 U	5.6 U
1,4-DICHLOROBENZENE	7900		6790	UG/KG	5.2 U	6.0 U	4.7 U	5.1 U	5.2 U	5.6 U
2-BUTANONE	11000000	400000	6476	UG/KG	10 U	12 U	9.4 U	10 U	10 U	11 U
4-METHYL-2-PENTANONE	4700000	400000	1497000	UG/KG	10 U	12 U	9.4 U	10 U	10 U	11 U
ACETONE	5400000	800000	5514	UG/KG	10 U	12 U	9.4 U	10 U	10 U	11 U
BENZENE	1400	24000	453.8	UG/KG	5.2 U	6.0 U	4.7 U	5.1 U	5.2 U	5.6 U
CARBON DISULFIDE	72000	800000	32890	UG/KG	5.2 U	6.0 U	4.7 U	5.1 U	5.2 U	5.6 U
CARBON TETRACHLORIDE	550	5400	5303	UG/KG	5.2 U	6.0 U	4.7 U	5.1 U	5.2 U	5.6 U
CHLOROBENZENE	53000	200000	7253	UG/KG	5.2 U	6.0 U	4.7 U	5.1 U	5.2 U	5.6 U
CHLOROFORM	470	80000	2770	UG/KG	5.2 U	6.0 U	4.7 U	5.1 U	5.2 U	5.6 U
CIS-1,2-DICHLOROETHENE	15000	80000	1575	UG/KG	5.2 U	6.0 U	4.7 U	5.1 U	5.2 U	5.6 U
CIS-1,3-DICHLOROPROPENE	1800			UG/KG	5.2 U	6.0 U	4.7 U	5.1 U	5.2 U	5.6 U
ETHYLBENZENE	40000	800000	5749	UG/KG	5.2 U	6.0 U	4.7 U	5.1 U	5.2 U	5.6 U
ISOPROPYLBENZENE	200000		21090	UG/KG	5.2 U	6.0 U	4.7 U	5.1 U	5.2 U	5.6 U
M+P-XYLENE	42000	20000000		UG/KG	5.2 U	6.0 U	1.5 J	1.9 J	1.3 J	5.6 U
METHYLENE CHLORIDE	21000	93000	862.5	UG/KG	10 U	12 U	9.4 U	10 U	10 U	11 U
O-XYLENE	42000	20000000		UG/KG	5.2 U	6.0 U	4.7 U	5.1 U	5.2 U	5.6 U
STYRENE	170000		13390	UG/KG	5.2 U	6.0 U	4.7 U	5.1 U	5.2 U	5.6 U
TETRACHLOROETHENE	1300	14000	7858	UG/KG	5.2 U	6.0 U	4.7 U	5.1 U	5.2 U	5.6 U
TOLUENE	52000	2000000	4226	UG/KG	5.2 U	6.0 U	4.7 U	2 J	5.2 U	5.6 U
TRANS-1,2-DICHLOROETHENE	23000	200000	1811	UG/KG	5.2 U	6.0 U	4.7 U	5.1 U	5.2 U	5.6 U
TRICHLOROETHYLENE	6500	64000	3227	UG/KG	5.2 U	6.0 U	4.7 U	5.1 U	5.2 U	5.6 U
VINYL CHLORIDE	750	360	794.4	UG/KG	10 U	12 U	9.4 U	10 U	10 U	11 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		18270	UG/KG	8.0 U	8.4 U	7.1 U	8.0 U	7.7 U	7.4 U
1,2-BENZPHENANTHRACENE	210000		3943	UG/KG	48 J	2300 J	7.1 U	95 J	7.7 U	8.5 J
1,2-DICHLOROBENZENE	60000		6914	UG/KG						

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	SN	SN	SN
				Excavation:	X03	X04	X05	X06	X14	X15
				Sample Name:	C7-CWM-SO-X03-SN01-5.5	C7-CWM-SO-X04-SN01-4.5	C7-CWM-SO-X05-SN01-4.5	C7-CWM-SO-X06-SN01-4	C7-CWM-SO-X14-SN01-9	C7-CWM-SO-X15-SN01-2
				Sample Depth:	5.5 FT	4.5 FT	4.5 FT	4 FT	9 FT	2 FT
				Sample Date:	8/21/2006	8/21/2006	8/22/2006	8/22/2006	8/24/2006	8/24/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
1,3-DICHLOROBENZENE	60000		6796	UG/KG						
1,4-DICHLOROBENZENE	7900		6790	UG/KG						
2,4-DIMETHYLPHENOL	1200000		2660000	UG/KG	40 U	38 J	35 U	40 U	39 U	37 U
2-CHLOROPHENOL	24000	40000	68720	UG/KG	40 U	42 U	35 U	40 U	39 U	37 U
2-METHYLNAPHTHALENE	19000		147800	UG/KG	8.0 U	390	7.1 U	4 J	7.7 U	7.4 U
2-METHYLPHENOL	3100000		412300	UG/KG	40 U	26 J	35 U	40 U	39 U	37 U
4-CHLORO-3-METHYLPHENOL				UG/KG	40 U	42 U	35 U	40 U	39 U	37 U
4-METHYLPHENOL	310000	400000	90940	UG/KG	40 U	82 J	35 U	40 U	39 U	37 U
ACENAPHTHENE	2900000	500000	485100	UG/KG	20 J	1300 J	7.1 U	14 J	7.7 U	7.4 U
ACENAPHTHYLENE	2900000		199500	UG/KG	8.0 U	8.4 U	7.1 U	8.0 U	7.7 U	7.4 U
ANTHRACENE	10000000	2000000	5919000	UG/KG	40 J	2700 J	7.1 U	89	7.7 U	7.4 U
BENZ[A]ANTHRACENE	2100	224	3923	UG/KG	55 J	**3000 J**	7.1 U	130 J	7.7 U	8.5 J
BENZO[A]PYRENE	210	60.9		UG/KG	38	**2300 J**	7.1 U	85	7.7 U	8.5 J
BENZO[B]FLUORANTHENE	2100	224	12120	UG/KG	55 J	**3000 J**	7.1 U	120 J	7.7 U	10 J
BENZO[GHI]PERYLENE	2900000			UG/KG	19	920 J	7.1 U	38	7.7 U	5.9 J
BENZO[K]FLUORANTHENE	21000	224	12120	UG/KG	18	870 J	7.1 U	38	7.7 U	7.4 J
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	372100000	UG/KG	8.0 U	8.4 U	7.1 U	8.0 U	7.7 U	7.4 U
CARBAZOLE	86000		1135	UG/KG	18 J	**1300 J**	7.1 U	43	7.7 U	7.4 U
DIBENZ[A,H]ANTHRACENE	210	14.3	172300	UG/KG	8.0 U	**360**	7.1 U	13	7.7 U	7.4 U
DIBENZOFURAN	160000		462500	UG/KG	7.2 J	750 J	7.1 U	6.8 J	7.7 U	7.4 U
DIETHYL PHTHALATE	10000000	6000000		UG/KG	8.0 U	8.4 U	7.1 U	8.0 U	7.7 U	7.4 U
DI-N-BUTYL PHTHALATE	6200000	800000	8358000	UG/KG	8.0 U	8.4 U	7.1 U	8.0 U	7.7 U	7.4 U
DI-N-OCTYL PHTHALATE	2500000	200000	593000	UG/KG	8.0 U	8.4 U	7.1 U	8.0 U	7.7 U	7.4 U
FLUORANTHENE	2200000	300000	26370000	UG/KG	110 J	6800 J	2.8 J	250	7.7 U	12 J
FLUORENE	2600000	300000	1952000	UG/KG	19	1300 J	7.1 U	20	7.7 U	7.4 U
HEXACHLORO-1,3-BUTADIENE	18000		132400	UG/KG	8.0 U	8.4 U	7.1 U	8.0 U	7.7 U	7.4 U
HEXACHLOROBENZENE	1100	410	10850	UG/KG	8.0 U	8.4 U	7.1 U	8.0 U	7.7 U	7.4 U
HEXACHLOROETHANE	62000		44540	UG/KG	8.0 U	8.4 U	7.1 U	8.0 U	7.7 U	7.4 U
INDENO[1,2,3-CD]PYRENE	2100		34200	UG/KG	18	1000 J	7.1 U	39	7.7 U	5.2 J
NAPHTHALENE	19000	30000	60240	UG/KG	6 J	1300 J	7.1 U	2.8 J	7.7 U	7.4 U
PHENANTHRENE	19000		1189000	UG/KG	120 J	6600 J	7.1 U	180 J	7.7 U	5.5 J
PHENOL	10000000	5000000	250.1	UG/KG	40 U	42 U	35 U	40 U	39 U	37 U
PYRENE	2900000	200000	16760000	UG/KG	110 J	4000 J	2.1 J	160 J	7.7 U	15 J
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	6608000	UG/KG	2.0 U	2.1 U	1.8 U	2.0 U	1.9 U	1.9 U

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	SN	SN	SN
				Excavation:	X03	X04	X05	X06	X14	X15
				Sample Name:	C7-CWM-SO-X03-SN01-5.5	C7-CWM-SO-X04-SN01-4.5	C7-CWM-SO-X05-SN01-4.5	C7-CWM-SO-X06-SN01-4	C7-CWM-SO-X14-SN01-9	C7-CWM-SO-X15-SN01-2
				Sample Depth:	5.5 FT	4.5 FT	4.5 FT	4 FT	9 FT	2 FT
				Sample Date:	8/21/2006	8/21/2006	8/22/2006	8/22/2006	8/24/2006	8/24/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
4,4'-DDE	7000	2100	2592000	UG/KG	2.0 U	2.1 U	1.8 U	2.0 U	1.9 U	1.1 J
4,4'-DDT	7000	2100	85.5	UG/KG	2.0 U	2.4 NJ	1.8 U	2.0 U	1.9 U	1.4 J
ALDRIN	100	41		UG/KG	2.0 U	2.1 U	1.8 U	2.0 U	1.9 U	1.9 U
ALPHA-BHC	360	111	61.69	UG/KG	2.0 U	2.1 U	1.8 U	2.0 U	1.9 U	1.9 U
ALPHA-CHLORDANE	6500		29570	UG/KG	2.0 U	2.1 U	1.8 U	2.0 U	1.9 U	1.9 U
AROCLOR 1232	740	1000	45780	UG/KG	20 U	21 U	18 U	20 U	19 U	19 U
AROCLOR 1254	740	1000	335400	UG/KG	20 U	21 U	18 U	20 U	19 U	19 U
AROCLOR 1260	740	1000	918200	UG/KG	20 U	21 U	18 U	20 U	19 U	19 U
BETA-BHC	1300	3890	252.7	UG/KG	2.0 U	2.1 U	1.8 U	2.0 U	1.9 U	1.9 U
DELTA-BHC	360		2320	UG/KG	2.0 U	2.1 U	1.8 U	2.0 U	1.9 U	1.9 U
DIELDRIN	110	44	422.3	UG/KG	2.0 U	2.1 U	1.8 U	2.0 U	1.9 U	1.9 U
ENDOSULFAN I	370000		2344000	UG/KG	2.0 U	2.1 U	1.8 U	2.0 U	1.9 U	1.9 U
ENDOSULFAN II	370000		2344000	UG/KG	2.0 U	2.1 U	1.8 U	2.0 U	1.9 U	1.9 U
ENDOSULFAN SULFATE	370000		2344000	UG/KG	2.0 U	4.3 NJ	1.8 U	2.0 U	1.9 U	1.9 U
ENDRIN ALDEHYDE	18000		303600	UG/KG	2.0 U	1.1 J	1.8 U	2.0 U	1.9 U	1.9 U
ENDRIN KETONE	18000		303600	UG/KG	2.0 U	2 J	1.8 U	2.0 U	1.9 U	1.9 U
GAMMA-BHC	1700	2000	269	UG/KG	2.0 U	2.1 U	1.8 U	2.0 U	1.9 U	1.9 U
GAMMA-CHLORDANE	6500	500	29570	UG/KG	2.0 U	2.1 U	1.8 U	0.64 J	1.9 U	1.9 U
HEPTACHLOR EPOXIDE	190	77	12300	UG/KG	2.0 U	2.1 U	1.8 U	2.0 U	1.9 U	1.9 U
METHOXYCHLOR	310000	40000	16860000	UG/KG	2.0 U	5.6 J	1.8 U	2.0 U	1.9 U	1.9 U
Explosives (8330)										
HMX	3100000		16630000	UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
NITROBENZENE	10000	4000	419	UG/KG	100 U	100 U	33 J	100 U	99 U	98 U
RDX	16000			UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		54000000	MG/KG	**14200**	**17100**	**12700**	**13000**	**10500**	**12600**
ANTIMONY	41		135.3	MG/KG	.93 U	.96 U	.87 U	.9 U	.9 U	.85 U
ARSENIC	1.6		5003	MG/KG	**2.8 J**	**5.5**	**2.5 J**	**3.9 J**	**4.4 J**	**4.2 J**
BARIUM	6700		41110	MG/KG	138 J	166 J	146 J	100 J	88.8 J	115 J
BERYLLIUM	190		2370	MG/KG	0.71	1	0.6	0.64	0.58	0.69
BORON	10000		3107	MG/KG	18.7 U	19.3 U	17.4 U	17.9 U	18 U	16.9 U
CADMIUM	45		375.5	MG/KG	0.25 J	0.39 J	0.25 J	0.2 J	0.27 J	0.29 J
CALCIUM				MG/KG	34100	3350	23600	36900	49200	46800
CHROMIUM	64		90000000	MG/KG	17.8 J	23 J	17.2	17	14.8	17.7
COBALT	1900		32930	MG/KG	9.2	12.2	7.1	8.7	7.9	9.5

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	SN	SN	SN
				Excavation:	X03	X04	X05	X06	X14	X15
				Sample Name:	C7-CWM-SO-X03-SN01-5.5	C7-CWM-SO-X04-SN01-4.5	C7-CWM-SO-X05-SN01-4.5	C7-CWM-SO-X06-SN01-4	C7-CWM-SO-X14-SN01-9	C7-CWM-SO-X15-SN01-2
				Sample Depth:	5.5 FT	4.5 FT	4.5 FT	4 FT	9 FT	2 FT
				Sample Date:	8/21/2006	8/21/2006	8/22/2006	8/22/2006	8/24/2006	8/24/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
COPPER	4100		85620	MG/KG	27.8	41.9	31.3	28.5	38.7	27.6
IRON	10000		7532	MG/KG	**22600**	**30100**	**18700**	**21900**	**21700**	**22100**
LEAD	800		22500	MG/KG	7.3	6.4	7.5	8.6	5.7	12.8
LITHIUM	2000			MG/KG	23	23.8	22.5	21.7	19.4	20.5
MAGNESIUM				MG/KG	8060	4630	5910	7430	9590	8560
MANGANESE	1900		19530	MG/KG	799	224	358	690	773	865
MERCURY	31		36.53	MG/KG	0.032	0.05	0.04	0.041	0.034 U	0.036
MOLYBDENUM	510		3619	MG/KG	0.43 J	0.57 J	0.43 J	0.45 J	4.5 U	4.2 U
NICKEL	2000		602.1	MG/KG	20.2	23.8	17.6	19.2	16.9	20.3
POTASSIUM				MG/KG	1700 J	963 U	1470 J	1900 J	1990 J	1830 J
SELENIUM	510		3001	MG/KG	4.7 U	2 J	1.1 J	4.5 U	4.5 U	1 J
SILVER	510		420.4	MG/KG	0.049 J	0.056 J	0.046 J	0.077 J	0.044 J	0.056 J
SODIUM				MG/KG	935 U	963 U	86.3 J	130 J	901 U	846 U
THALLIUM	6.7		750.1	MG/KG	1.9 U	1.9 U	1.7 U	1.8 U	1.8 U	1.7 U
VANADIUM	100		36000	MG/KG	27.7	38	25.7	27.9	26.1	27.2
ZINC	10000		124200	MG/KG	48.1 J	44 J	53.7 J	52.2 J	42.3 J	53.2 J
General Chemistry										
CYANIDE	1200		2001	MG/KG	0.17 U	0.17 U	0.14 U	0.17 U	0.16	0.15
PERCENT MOISTURE				%						
PERCENT SOLIDS				%	84	79	94	83	86	90

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	SN	SN	SN
				Excavation:	X15	X27	X31	X31	X32	X39
				Sample Name:	C7-CWM-SO-DUP9	C7-CWM-SO-X27-SN01-7.5	C7-CWM-SO-X31-SN01-4.5	C7-CWM-SO-DUP11	C7-CWM-SO-X32-SN01-3.5	C7-CWM-SO-X39-SN01-5
				Sample Depth:	2 FT	7.5 FT	4.5 FT	4.5 FT	3.5 FT	5 FT
				Sample Date:	8/24/2006	8/30/2006	8/31/2006	8/31/2006	8/31/2006	9/5/2006
				Parent Name:	C7-CWM-SO-X15-SN01-2			C7-CWM-SO-X31-SN01-4.5		
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	4619	UG/KG	5.0 U	4.6 U	6.2 U	5.9 J	6.3 U	3.8 J
1,1,2,2-TETRACHLOROETHANE	930	35000	2495	UG/KG	5.0 U	4.6 U	6.2 U	5.9 U	6.3 U	8.9 U
1,1,2-TRICHLOROETHANE	1600		483.4	UG/KG	5.0 U	4.6 U	6.2 U	5.9 U	6.3 U	8.9 U
1,1-DICHLOROETHANE	170000	800000	2047	UG/KG	5.0 U	4.6 U	6.2 U	5.9 U	6.3 U	8.9 U
1,1-DICHLOROETHYLENE	41000	12000	3119	UG/KG	5.0 U	4.6 U	6.2 U	5.9 U	6.3 U	8.9 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG	5.0 U	4.6 U	6.2 U	5.9 U	6.3 U	8.9 U
1,2-DICHLOROETHANE	600	7700	180.9	UG/KG	5.0 U	4.6 U	6.2 U	5.9 U	6.3 U	8.9 U
1,3-DICHLOROBENZENE	60000		6796	UG/KG	5.0 U	4.6 U	6.2 U	5.9 U	6.3 U	8.9 U
1,4-DICHLOROBENZENE	7900		6790	UG/KG	5.0 U	4.6 U	6.2 U	5.9 U	6.3 U	8.9 U
2-BUTANONE	11000000	400000	6476	UG/KG	10 U	9.2 U	12 U	12 U	13 U	18 U
4-METHYL-2-PENTANONE	4700000	400000	1497000	UG/KG	10 U	9.2 U	12 U	12 U	13 U	18 U
ACETONE	5400000	800000	5514	UG/KG	10 U	9.2 U	12 U	12 U	66 J	43 J
BENZENE	1400	24000	453.8	UG/KG	5.0 U	4.6 U	6.2 U	5.9 U	6.3 U	8.9 U
CARBON DISULFIDE	72000	800000	32890	UG/KG	5.0 U	4.6 U	6.2 U	5.9 U	6.3 U	8.9 U
CARBON TETRACHLORIDE	550	5400	5303	UG/KG	5.0 U	4.6 U	4.8 J	4.3 J	6.3 U	8.9 U
CHLOROBENZENE	53000	200000	7253	UG/KG	5.0 U	4.6 U	6.2 U	5.9 U	6.3 U	8.9 U
CHLOROFORM	470	80000	2770	UG/KG	5.0 U	4.6 U	4.3 J	5.1 J	6.3 U	1.9 J
CIS-1,2-DICHLOROETHENE	15000	80000	1575	UG/KG	5.0 U	4.6 U	6.2 U	5.9 U	6.3 U	1.9 J
CIS-1,3-DICHLOROPROPENE	1800			UG/KG	5.0 U	4.6 U	6.2 U	5.9 U	6.3 U	8.9 U
ETHYLBENZENE	40000	800000	5749	UG/KG	5.0 U	1.3 J	6.2 U	5.9 U	6.3 U	8.9 U
ISOPROPYLBENZENE	200000		21090	UG/KG	5.0 U	4.6 U	6.2 U	5.9 U	6.3 U	8.9 U
M+P-XYLENE	42000	20000000		UG/KG	5.0 U	0.98 J	6.2 U	5.9 U	6.3 U	8.9 U
METHYLENE CHLORIDE	21000	93000	862.5	UG/KG	10 U	9.2 U	12 U	12 U	13 U	18 U
O-XYLENE	42000	20000000		UG/KG	5.0 U	4.6 U	6.2 U	5.9 U	6.3 U	8.9 U
STYRENE	170000		13390	UG/KG	5.0 U	4.6 U	6.2 U	5.9 U	6.3 U	8.9 U
TETRACHLOROETHENE	1300	14000	7858	UG/KG	5.0 U	4.6 U	11	7.3	6.3 U	8.9 U
TOLUENE	52000	2000000	4226	UG/KG	5.0 U	4.6 U	6.2 U	5.9 U	6.3 U	8.9 U
TRANS-1,2-DICHLOROETHENE	23000	200000	1811	UG/KG	5.0 U	4.6 U	6.2 U	5.9 U	6.3 U	8.9 U
TRICHLOROETHYLENE	6500	64000	3227	UG/KG	5.0 U	4.6 U	3.6 J	3.4 J	6.3 U	4.8 J
VINYL CHLORIDE	750	360	794.4	UG/KG	10 U	9.2 U	12 U	12 U	13 U	18 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		18270	UG/KG	7.3 U	7.9 U	7.1 U	7.0 U	7.5 U	7.0 U
1,2-BENZPHENANTHRACENE	210000		3943	UG/KG	290 J	7.9 U	34	30	3.4 J	7.0 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG						

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	SN	SN	SN
				Excavation:	X15	X27	X31	X31	X32	X39
				Sample Name:	C7-CWM-SO-DUP9	C7-CWM-SO-X27-SN01-7.5	C7-CWM-SO-X31-SN01-4.5	C7-CWM-SO-DUP11	C7-CWM-SO-X32-SN01-3.5	C7-CWM-SO-X39-SN01-5
				Sample Depth:	2 FT	7.5 FT	4.5 FT	4.5 FT	3.5 FT	5 FT
				Sample Date:	8/24/2006	8/30/2006	8/31/2006	8/31/2006	8/31/2006	9/5/2006
				Parent Name:	C7-CWM-SO-X15-SN01-2			C7-CWM-SO-X31-SN01-4.5		
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
1,3-DICHLOROBENZENE	60000		6796	UG/KG						
1,4-DICHLOROBENZENE	7900		6790	UG/KG						
2,4-DIMETHYLPHENOL	1200000		2660000	UG/KG	36 U	39 U	35 U	35 U	37 U	35 U
2-CHLOROPHENOL	24000	40000	68720	UG/KG	36 U	39 U	35 U	35 U	37 U	35 U
2-METHYLNAPHTHALENE	19000		147800	UG/KG	7.3 U	7.9 U	7.1 U	7.0 U	7.5 U	7.0 U
2-METHYLPHENOL	3100000		412300	UG/KG	36 U	39 U	35 U	35 U	37 U	35 U
4-CHLORO-3-METHYLPHENOL				UG/KG	36 U	39 U	35 U	35 U	37 U	35 U
4-METHYLPHENOL	310000	400000	90940	UG/KG	36 U	39 U	35 U	35 U	37 U	35 U
ACENAPHTHENE	2900000	500000	485100	UG/KG	28	7.9 U	7.1 U	7.0 U	7.5 U	7.0 U
ACENAPHTHYLENE	2900000		199500	UG/KG	7.3 U	7.9 U	7.1 U	7.0 U	7.5 U	7.0 U
ANTHRACENE	10000000	2000000	5919000	UG/KG	140 J	7.9 U	7.1 U	7.0 U	7.5 U	7.0 U
BENZ[A]ANTHRACENE	2100	224	3923	UG/KG	400 J	7.9 U	73	45	4.1 J	7.0 U
BENZO[A]PYRENE	210	60.9		UG/KG	**230 J**	7.9 U	7.1 U	7.0 U	3.4 J	7.0 U
BENZO[B]FLUORANTHENE	2100	224	12120	UG/KG	310 J	7.9 U	54	7.0 U	3.4 J	7.0 U
BENZO[GHI]PERYLENE	2900000			UG/KG	120 J	7.9 U	51	34	7.5 U	7.0 U
BENZO[K]FLUORANTHENE	21000	224	12120	UG/KG	110 J	7.9 U	46 J	7.0 U	4.5 J	7.0 U
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	372100000	UG/KG	7.3 U	7.9 U	7.1 U	7.0 U	380	7.0 U
CARBAZOLE	86000		1135	UG/KG	32	7.9 U	7.1 U	7.0 U	7.5 U	7.0 U
DIBENZ[A,H]ANTHRACENE	210	14.3	172300	UG/KG	35	7.9 U	7.1 U	7.0 U	7.5 U	7.0 U
DIBENZOFURAN	160000		462500	UG/KG	8.7	7.9 U	7.1 U	7.0 U	7.5 U	7.0 U
DIETHYL PHTHALATE	10000000	6000000		UG/KG	7.3 U	7.9 U	7.1 U	7.0 U	7.5 U	7.0 U
DI-N-BUTYL PHTHALATE	6200000	800000	8358000	UG/KG	7.3 U	7.9 U	7.1 U	7.0 U	5.2 J	3.9 J
DI-N-OCTYL PHTHALATE	2500000	200000	593000	UG/KG	7.3 U	7.9 U	7.1 U	7.0 U	7.5 U	7.0 U
FLUORANTHENE	2200000	300000	26370000	UG/KG	430 J	7.9 U	58	56	7.8	7.0 U
FLUORENE	2600000	300000	1952000	UG/KG	45 J	7.9 U	7.1 U	7.0 U	7.5 U	7.0 U
HEXACHLORO-1,3-BUTADIENE	18000		132400	UG/KG	7.3 U	7.9 U	7.1 U	7.0 U	7.5 U	7.0 U
HEXACHLOROBENZENE	1100	410	10850	UG/KG	7.3 U	7.9 U	36	48	7.5 U	7.0 U
HEXACHLOROETHANE	62000		44540	UG/KG	7.3 U	7.9 U	7.1 U	7.0 U	7.5 U	7.0 U
INDENO[1,2,3-CD]PYRENE	2100		34200	UG/KG	120 J	7.9 U	40	28	7.5 U	7.0 U
NAPHTHALENE	19000	30000	60240	UG/KG	7.3 U	7.9 U	7.1 U	7.0 U	7.5 U	7.0 U
PHENANTHRENE	19000		1189000	UG/KG	430 J	7.9 U	7.1 U	7.0 U	4.1 J	7.0 U
PHENOL	10000000	5000000	250.1	UG/KG	36 U	39 U	35 U	35 U	37 U	35 U
PYRENE	2900000	200000	16760000	UG/KG	440 J	7.9 U	58 J	30 J	4.8 J	7.0 U
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	6608000	UG/KG	1.8 U	2.0 U	1.8 U	1.8 U	1.9 U	1.8 U

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	SN	SN	SN
				Excavation:	X15	X27	X31	X31	X32	X39
				Sample Name:	C7-CWM-SO-DUP9	C7-CWM-SO-X27-SN01-7.5	C7-CWM-SO-X31-SN01-4.5	C7-CWM-SO-DUP11	C7-CWM-SO-X32-SN01-3.5	C7-CWM-SO-X39-SN01-5
				Sample Depth:	2 FT	7.5 FT	4.5 FT	4.5 FT	3.5 FT	5 FT
				Sample Date:	8/24/2006	8/30/2006	8/31/2006	8/31/2006	8/31/2006	9/5/2006
				Parent Name:	C7-CWM-SO-X15-SN01-2			C7-CWM-SO-X31-SN01-4.5		
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
4,4'-DDE	7000	2100	2592000	UG/KG	1.8 U	2.0 U	1.8 U	1.8 U	1.9 U	1.8 U
4,4'-DDT	7000	2100	85.5	UG/KG	1.8 U	2.0 U	1.8 U	1.8 U	1.9 U	2.6 J
ALDRIN	100	41		UG/KG	1.8 U	2.0 U	1.8 U	1.8 U	1.9 U	1.8 U
ALPHA-BHC	360	111	61.69	UG/KG	1.8 U	2.0 U	1.8 U	1.8 U	1.9 U	1.8 U
ALPHA-CHLORDANE	6500		29570	UG/KG	1.8 U	2.0 U	1.8 U	1.8 U	1.9 U	1.8 U
AROCLOR 1232	740	1000	45780	UG/KG	18 U	20 U	18 U	18 U	19 U	18 U
AROCLOR 1254	740	1000	335400	UG/KG	18 U	20 U	18 U	18 U	19 U	18 U
AROCLOR 1260	740	1000	918200	UG/KG	18 U	20 U	18 U	18 U	19 U	37
BETA-BHC	1300	3890	252.7	UG/KG	1.8 U	2.0 U	1.8 U	1.8 U	1.9 U	1.8 U
DELTA-BHC	360		2320	UG/KG	1.8 U	2.0 U	1.8 U	1.8 U	1.9 U	1.8 U
DIELDRIN	110	44	422.3	UG/KG	1.8 U	2.0 U	1.8 U	1.8 U	1.9 U	0.94 J
ENDOSULFAN I	370000		2344000	UG/KG	1.8 U	2.0 U	1.8 U	1.8 U	1.9 U	1.8 U
ENDOSULFAN II	370000		2344000	UG/KG	1.8 U	2.0 U	1.8 U	1.8 U	1.9 U	1.8 U
ENDOSULFAN SULFATE	370000		2344000	UG/KG	1.8 U	2.0 U	1.8 U	1.8 U	1.9 U	1.8 U
ENDRIN ALDEHYDE	18000		303600	UG/KG	1.8 U	2.0 U	1.8 U	1.8 U	1.9 U	1.8 U
ENDRIN KETONE	18000		303600	UG/KG	1.8 U	2.0 U	1.8 U	1.8 U	1.9 U	1.8 U
GAMMA-BHC	1700	2000	269	UG/KG	1.8 U	2.0 U	1.8 U	1.8 U	1.9 U	1.8 U
GAMMA-CHLORDANE	6500	500	29570	UG/KG	1.8 U	2.0 U	1.8 U	1.8 U	1.9 U	1.8 U
HEPTACHLOR EPOXIDE	190	77	12300	UG/KG	1.8 U	2.0 U	1.8 U	1.8 U	1.9 U	1.8 U
METHOXYCHLOR	310000	40000	16860000	UG/KG	1.8 U	2.0 U	1.8 U	1.8 U	1.9 U	1.8 U
Explosives (8330)										
HMX	3100000		16630000	UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
NITROBENZENE	10000	4000	419	UG/KG	100 U	100 U	100 U	21 J	100 U	100 J
RDX	16000			UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		54000000	MG/KG	**13100**	**13900**	6520	5990	**14200**	8890
ANTIMONY	41		135.3	MG/KG	.82 U	0.98 U	0.18	0.2 J	0.92 U	.9 U
ARSENIC	1.6		5003	MG/KG	**4 J**	4.9 U	**2.6 J**	**2.4 J**	**2.4 J**	**3.6 J**
BARIUM	6700		41110	MG/KG	108 J	107 J	89.3 J	75 J	94.8 J	49.7 J
BERYLLIUM	190		2370	MG/KG	0.66	0.62	0.3	0.31	0.6	0.37
BORON	10000		3107	MG/KG	16.4 U	20 U	3.5 J	16 U	5 J	18 U
CADMIUM	45		375.5	MG/KG	0.21 J	0.15 J	1	0.48	0.14 J	.45 U
CALCIUM				MG/KG	34100	54000 J	47800 J	41600 J	18400 J	54900 J
CHROMIUM	64		90000000	MG/KG	16.4	17.1	8.7	8.5	23.4	9
COBALT	1900		32930	MG/KG	9	10.8	4.3	4.3	7.3	5.5

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	SN	SN	SN
				Excavation:	X15	X27	X31	X31	X32	X39
				Sample Name:	C7-CWM-SO-DUP9	C7-CWM-SO-X27-SN01-7.5	C7-CWM-SO-X31-SN01-4.5	C7-CWM-SO-DUP11	C7-CWM-SO-X32-SN01-3.5	C7-CWM-SO-X39-SN01-5
				Sample Depth:	2 FT	7.5 FT	4.5 FT	4.5 FT	3.5 FT	5 FT
				Sample Date:	8/24/2006	8/30/2006	8/31/2006	8/31/2006	8/31/2006	9/5/2006
				Parent Name:	C7-CWM-SO-X15-SN01-2			C7-CWM-SO-X31-SN01-4.5		
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
COPPER	4100		85620	MG/KG	24.3	26.8	22.4	22.8	24.1	33.3
IRON	10000		7532	MG/KG	**23600**	**24400**	**14400**	**14200**	**21200**	**18000**
LEAD	800		22500	MG/KG	9.6	7	14.8	14.4	8.3	6.2
LITHIUM	2000			MG/KG	21.8	23.1	11.3	10.6	21.7	15.4
MAGNESIUM				MG/KG	7600	12500 J	10500	7860	5790	4210 J
MANGANESE	1900		19530	MG/KG	732	904 J	375	351	495	687 J
MERCURY	31		36.53	MG/KG	0.033 U	0.02 J	0.011 J	0.02 J	2.6	0.029 U
MOLYBDENUM	510		3619	MG/KG	4.1 U	0.45 J	0.75 J	0.82 J	0.65 J	4.5 U
NICKEL	2000		602.1	MG/KG	18.5	22	10.5	11	16.3	12.1
POTASSIUM				MG/KG	1750 J	2870 J	1080 J	998 J	1840 J	1150 J
SELENIUM	510		3001	MG/KG	4.1 U	4.9 U	4.5 U	4.0 U	4.6 U	4.5 U
SILVER	510		420.4	MG/KG	0.062 J	0.028 J	0.032 J	0.031 J	0.035 J	0.028 J
SODIUM				MG/KG	821 U	270 J	94.3 J	83.7 J	88.7 J	69.9 J
THALLIUM	6.7		750.1	MG/KG	1.6 U	2.0 U	1.8 U	1.6 U	1.8 U	1.8 U
VANADIUM	100		36000	MG/KG	26.8	28.4	16.9	15.8	27.6	17.9
ZINC	10000		124200	MG/KG	49.7 J	45.3 J	170 J	61.1 J	45.6 J	41.8 J
General Chemistry										
CYANIDE	1200		2001	MG/KG	0.16	0.15 U	0.14 U	0.13 U	0.15 U	0.17 U
PERCENT MOISTURE				%						
PERCENT SOLIDS				%	92	84	94	94	89	95

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	SN	SN	SN
				Excavation:	X40	X41	X42	X48	X53	X55
				Sample Name:	C7-CWM-SO-X40-SN01-6	C7-CWM-SO-X41-SN01-6.5	C7-CWM-SO-X42-SN01-3	C7-CWM-SO-X48-SN01-2.5	C7-CWM-SO-X53-SN01-7	C7-CWM-SO-X55-SN01-7.5
				Sample Depth:	6 FT	6.5 FT	3 FT	2.5 FT	7 FT	7.5 FT
				Sample Date:	9/6/2006	9/6/2006	9/6/2006	9/8/2006	9/11/2006	9/11/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	4619	UG/KG	2.8 J	13	5.7 U	5.0 U	5.8 U	5.3 U
1,1,2,2-TETRACHLOROETHANE	930	35000	2495	UG/KG	6.6 U	5.1 U	5.7 U	5.0 U	5.8 U	5.3 U
1,1,2-TRICHLOROETHANE	1600		483.4	UG/KG	6.6 U	5.1 U	5.7 U	5.0 U	5.8 U	5.3 U
1,1-DICHLOROETHANE	170000	800000	2047	UG/KG	6.6 U	6.9	5.7 U	5.0 U	5.8 U	5.3 U
1,1-DICHLOROETHYLENE	41000	12000	3119	UG/KG	6.6 U	5.1 U	5.7 U	5.0 U	5.8 U	5.3 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG	6.6 U	5.1 U	5.7 U	5.0 U	5.8 U	5.3 U
1,2-DICHLOROETHANE	600	7700	180.9	UG/KG	6.6 U	5.1 U	5.7 U	5.0 U	5.8 U	5.3 U
1,3-DICHLOROBENZENE	60000		6796	UG/KG	6.6 U	15 J	5.7 U	5.0 U	5.8 U	5.3 U
1,4-DICHLOROBENZENE	7900		6790	UG/KG	6.6 U	2.1 J	5.7 U	5.0 U	5.8 U	5.3 U
2-BUTANONE	11000000	400000	6476	UG/KG	13 U	10 U	11 U	9.9 U	12 U	11 U
4-METHYL-2-PENTANONE	4700000	400000	1497000	UG/KG	13 U	10 U	11 U	9.9 U	12 U	11 U
ACETONE	5400000	800000	5514	UG/KG	13 U	10 U	32 J	9.9 U	12 U	11 U
BENZENE	1400	24000	453.8	UG/KG	6.6 U	5.1 U	5.7 U	5.0 U	5.8 U	5.3 U
CARBON DISULFIDE	72000	800000	32890	UG/KG	6.6 U	5.1 U	5.7 U	5.0 U	5.8 U	5.3 U
CARBON TETRACHLORIDE	550	5400	5303	UG/KG	6.6 U	5.1 U	5.7 U	5.0 U	5.8 U	5.3 U
CHLOROBENZENE	53000	200000	7253	UG/KG	6.6 U	5.1 U	5.7 U	5.0 U	5.8 U	5.3 U
CHLOROFORM	470	80000	2770	UG/KG	6.6 U	5.1 U	5.7 U	5.0 U	5.8 U	5.3 U
CIS-1,2-DICHLOROETHENE	15000	80000	1575	UG/KG	6.6 U	1.3 J	5.7 U	5.0 U	5.8 U	5.3 U
CIS-1,3-DICHLOROPROPENE	1800			UG/KG	6.6 U	5.1 U	5.7 U	5.0 U	5.8 U	5.3 U
ETHYLBENZENE	40000	800000	5749	UG/KG	6.6 U	5.1 U	5.7 U	5.0 U	5.8 U	5.3 U
ISOPROPYLBENZENE	200000		21090	UG/KG	6.6 U	5.1 U	5.7 U	5.0 U	5.8 U	5.3 U
M+P-XYLENE	42000	20000000		UG/KG	2.4 J	1.4 J	1.2 J	5.0 U	5.8 U	5.3 U
METHYLENE CHLORIDE	21000	93000	862.5	UG/KG	13 U	10 U	11 U	9.9 U	12 U	2.1 J
O-XYLENE	42000	20000000		UG/KG	6.6 U	5.1 U	5.7 U	5.0 U	5.8 U	5.3 U
STYRENE	170000		13390	UG/KG	6.6 U	5.1 U	5.7 U	5.0 U	5.8 U	5.3 U
TETRACHLOROETHENE	1300	14000	7858	UG/KG	6.6 U	5.1 U	5.7 U	5.0 U	5.8 U	5.3 U
TOLUENE	52000	2000000	4226	UG/KG	6.6 U	5.1 U	5.7 U	5.0 U	5.8 U	5.3 U
TRANS-1,2-DICHLOROETHENE	23000	200000	1811	UG/KG	6.6 U	5.1 U	5.7 U	5.0 U	5.8 U	5.3 U
TRICHLOROETHYLENE	6500	64000	3227	UG/KG	8.5	1.9 J	5.7 U	5.0 U	5.8 U	5.3 U
VINYL CHLORIDE	750	360	794.4	UG/KG	13 U	10 U	11 U	9.9 U	12 U	11 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		18270	UG/KG	7.2 U	110	1300	7.9 U	7.4 U	7.7 U
1,2-BENZPHENANTHRACENE	210000		3943	UG/KG	7.2 U	8.1 U	7.5 U	7.9 U	3.7 J	13
1,2-DICHLOROBENZENE	60000		6914	UG/KG						

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	SN	SN	SN
				Excavation:	X40	X41	X42	X48	X53	X55
				Sample Name:	C7-CWM-SO-X40-SN01-6	C7-CWM-SO-X41-SN01-6.5	C7-CWM-SO-X42-SN01-3	C7-CWM-SO-X48-SN01-2.5	C7-CWM-SO-X53-SN01-7	C7-CWM-SO-X55-SN01-7.5
				Sample Depth:	6 FT	6.5 FT	3 FT	2.5 FT	7 FT	7.5 FT
				Sample Date:	9/6/2006	9/6/2006	9/6/2006	9/8/2006	9/11/2006	9/11/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
1,3-DICHLOROBENZENE	60000		6796	UG/KG						
1,4-DICHLOROBENZENE	7900		6790	UG/KG						
2,4-DIMETHYLPHENOL	1200000		2660000	UG/KG	36 U	41 U	38 U	39 U	37 U	38 U
2-CHLOROPHENOL	24000	40000	68720	UG/KG	36 U	41 U	38 U	39 U	37 U	38 U
2-METHYLNAPHTHALENE	19000		147800	UG/KG	7.2 U	8.1 U	7.5 U	7.9 U	7.4 U	7.7 U
2-METHYLPHENOL	3100000		412300	UG/KG	36 U	41 U	38 U	39 U	37 U	38 U
4-CHLORO-3-METHYLPHENOL				UG/KG	36 U	41 U	38 U	39 U	37 U	38 U
4-METHYLPHENOL	310000	400000	90940	UG/KG	36 U	41 U	38 U	39 U	37 U	38 U
ACENAPHTHENE	2900000	500000	485100	UG/KG	7.2 U	8.1 U	7.5 U	7.9 U	7.4 U	7.7 U
ACENAPHTHYLENE	2900000		199500	UG/KG	7.2 U	8.1 U	7.5 U	7.9 U	7.4 U	7.7 U
ANTHRACENE	10000000	2000000	5919000	UG/KG	7.2 U	8.1 U	7.5 U	7.9 U	7.4 U	7.7 U
BENZ[A]ANTHRACENE	2100	224	3923	UG/KG	7.2 U	8.1 U	7.5 U	7.9 U	3 J	6.1 J
BENZO[A]PYRENE	210	60.9		UG/KG	7.2 U	8.1 U	7.5 U	7.9 U	3 J	7.7 J
BENZO[B]FLUORANTHENE	2100	224	12120	UG/KG	7.2 U	8.1 U	7.5 U	7.9 U	5.9 J	7.3 J
BENZO[GHI]PERYLENE	2900000			UG/KG	7.2 U	8.1 U	7.5 U	7.9 U	7.4 U	7.7 U
BENZO[K]FLUORANTHENE	21000	224	12120	UG/KG	7.2 U	8.1 U	7.5 U	7.9 U	7.4 U	7.3 J
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	372100000	UG/KG	7.2 U	8.1 U	7.5 U	7.9 U	7.4 U	7.7 U
CARBAZOLE	86000		1135	UG/KG	7.2 U	8.1 U	7.5 U	7.9 U	7.4 U	7.7 U
DIBENZ[A,H]ANTHRACENE	210	14.3	172300	UG/KG	7.2 U	8.1 U	7.5 U	7.9 U	7.4 U	7.7 U
DIBENZOFURAN	160000		462500	UG/KG	7.2 U	8.1 U	7.5 U	7.9 U	7.4 U	7.7 U
DIETHYL PHTHALATE	10000000	6000000		UG/KG	7.2 U	8.1 U	7.5 U	7.9 U	6.6 J	5.7 J
DI-N-BUTYL PHTHALATE	6200000	800000	8358000	UG/KG	7.2 U	8.1 U	7.5 U	7.9 U	150	160
DI-N-OCTYL PHTHALATE	2500000	200000	593000	UG/KG	7.2 U	8.1 U	7.5 U	7.9 U	7.4 U	7.7 U
FLUORANTHENE	2200000	300000	26370000	UG/KG	7.2 U	8.1 U	7.5 U	7.9 U	4.4 J	14
FLUORENE	2600000	300000	1952000	UG/KG	7.2 U	8.1 U	7.5 U	7.9 U	7.4 U	7.7 U
HEXACHLORO-1,3-BUTADIENE	18000		132400	UG/KG	7.2 U	8.1 U	7.5 U	7.9 U	7.4 U	7.7 U
HEXACHLOROBENZENE	1100	410	10850	UG/KG	7.2 U	8.1 U	40	7.9 U	7.4 U	7.7 U
HEXACHLOROETHANE	62000		44540	UG/KG	7.2 U	8.1 U	7.5 U	7.9 U	7.4 U	7.7 U
INDENO[1,2,3-CD]PYRENE	2100		34200	UG/KG	7.2 U	8.1 U	7.5 U	7.9 U	7.4 U	4.2 J
NAPHTHALENE	19000	30000	60240	UG/KG	7.2 U	8.1 U	7.5 U	7.9 U	7.4 U	5.7 J
PHENANTHRENE	19000		1189000	UG/KG	7.2 U	8.1 U	7.5 U	7.9 U	4.1 J	7.3 J
PHENOL	10000000	5000000	250.1	UG/KG	36 U	41 U	38 U	39 U	37 U	38 U
PYRENE	2900000	200000	16760000	UG/KG	7.2 U	8.1 U	7.5 U	7.9 U	2.6 J	10 J
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	6608000	UG/KG	1.8 U	2.0 U	38 U	2.0 U	1.9 U	1.9 U

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	SN	SN	SN
				Excavation:	X40	X41	X42	X48	X53	X55
				Sample Name:	C7-CWM-SO-X40-SN01-6	C7-CWM-SO-X41-SN01-6.5	C7-CWM-SO-X42-SN01-3	C7-CWM-SO-X48-SN01-2.5	C7-CWM-SO-X53-SN01-7	C7-CWM-SO-X55-SN01-7.5
				Sample Depth:	6 FT	6.5 FT	3 FT	2.5 FT	7 FT	7.5 FT
				Sample Date:	9/6/2006	9/6/2006	9/6/2006	9/8/2006	9/11/2006	9/11/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
4,4'-DDE	7000	2100	2592000	UG/KG	1.8 U	2.0 U	82 J	2.0 U	1.9 U	3.2
4,4'-DDT	7000	2100	85.5	UG/KG	3.6 J	24 J	**560 J**	2.0 U	1.9 U	1.9 U
ALDRIN	100	41		UG/KG	1.8 U	2.0 U	38 U	2.0 U	1.9 U	1.9 U
ALPHA-BHC	360	111	61.69	UG/KG	1.8 U	2.0 U	38 U	2.0 U	1.9 U	1.9 U
ALPHA-CHLORDANE	6500		29570	UG/KG	1.8 U	2.0 U	14 J	2.0 U	1.9 U	1.9 U
AROCLOR 1232	740	1000	45780	UG/KG	18 U	20 U	190 U	20 U	19 U	19 U
AROCLOR 1254	740	1000	335400	UG/KG	18 U	20 U	190 U	20 U	19 U	19 U
AROCLOR 1260	740	1000	918200	UG/KG	75	20 U	**1300 J**	20 U	19	19 U
BETA-BHC	1300	3890	252.7	UG/KG	1.8 U	2.0 U	38 U	2.0 U	1.9 U	1.9 U
DELTA-BHC	360		2320	UG/KG	1.8 U	2.0 U	38 U	2.0 U	1.9 U	1.9 U
DIELDRIN	110	44	422.3	UG/KG	1.8 U	2.0 U	38 U	2.0 U	1.9 U	13 J
ENDOSULFAN I	370000		2344000	UG/KG	1.8 U	2.0 U	38 U	2.0 U	1.9 U	1.9 U
ENDOSULFAN II	370000		2344000	UG/KG	1.8 U	2.0 U	38 U	2.0 U	1.9 U	1.9 U
ENDOSULFAN SULFATE	370000		2344000	UG/KG	1.8 U	2.0 U	38 U	2.0 U	1.9 U	1.9 U
ENDRIN ALDEHYDE	18000		303600	UG/KG	2.7 J	2.0 U	440 J	2.0 U	1.9 U	19 J
ENDRIN KETONE	18000		303600	UG/KG	1.8 U	2.0 U	38 U	2.0 U	1.9 U	1.9 U
GAMMA-BHC	1700	2000	269	UG/KG	1.8 U	2.0 U	38 U	2.0 U	1.9 U	1.9 U
GAMMA-CHLORDANE	6500	500	29570	UG/KG	1.8 U	2.0 U	38 U	2.0 U	1.9 U	1.9 U
HEPTACHLOR EPOXIDE	190	77	12300	UG/KG	1.8 U	2.0 U	38 U	2.0 U	1.9 U	1.9 U
METHOXYCHLOR	310000	40000	16860000	UG/KG	1.8 U	2.0 U	38 U	2.0 U	1.9 U	1.6 J
Explosives (8330)										
HMX	3100000		16630000	UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
NITROBENZENE	10000	4000	419	UG/KG	100 U	150	57 J	100 U	99 U	81 J
RDX	16000			UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		54000000	MG/KG	**15700**	**12800**	**16300**	**13700**	**14900 J**	6430 J
ANTIMONY	41		135.3	MG/KG	.9 U	1 U	.98 U	1 U	.88 U	.96 U
ARSENIC	1.6		5003	MG/KG	**2.6 J**	**2.7 J**	**2.4 J**	**2.5 J**	**3.2 J**	**2.9 J**
BARIUM	6700		41110	MG/KG	141 J	89 J	197 J	238	133	39.5
BERYLLIUM	190		2370	MG/KG	0.56	0.55	0.68	0.58	0.59	0.27
BORON	10000		3107	MG/KG	2.9 J	6 J	19.6 U	3.7 J	2.3 J	19.2 U
CADMIUM	45		375.5	MG/KG	0.15 J	0.14 J	0.2 J	.51 U	0.14 J	0.14 J
CALCIUM				MG/KG	14700	51300	3900	38800	29200	36300
CHROMIUM	64		90000000	MG/KG	18.6	17.6	18.3	16.5	17.6 J	8.8 J
COBALT	1900		32930	MG/KG	8.5	9.1	10.4	9.3	7.6	4.6

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	SN	SN	SN
				Excavation:	X40	X41	X42	X48	X53	X55
				Sample Name:	C7-CWM-SO-X40-SN01-6	C7-CWM-SO-X41-SN01-6.5	C7-CWM-SO-X42-SN01-3	C7-CWM-SO-X48-SN01-2.5	C7-CWM-SO-X53-SN01-7	C7-CWM-SO-X55-SN01-7.5
				Sample Depth:	6 FT	6.5 FT	3 FT	2.5 FT	7 FT	7.5 FT
				Sample Date:	9/6/2006	9/6/2006	9/6/2006	9/8/2006	9/11/2006	9/11/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
COPPER	4100		85620	MG/KG	35.7	29.7	18.6	23.5	29.9	23.4
IRON	10000		7532	MG/KG	**21300**	**23700**	**19800**	**21400**	**21500**	**15100**
LEAD	800		22500	MG/KG	5.6	6.6	7.9	6.5	8.9	5.6
LITHIUM	2000			MG/KG	29.2	23.9	21.1	22.3	24.3	10.4
MAGNESIUM				MG/KG	5520	9420	3100	7150	5620	6590
MANGANESE	1900		19530	MG/KG	316	679	1700	715	480	667
MERCURY	31		36.53	MG/KG	0.022 J	0.032 U	0.026 J	0.032	0.027	0.0094 J
MOLYBDENUM	510		3619	MG/KG	0.27 J	0.77 J	0.59 J	0.55 J	0.51 J	0.32 J
NICKEL	2000		602.1	MG/KG	18.9	19.9	15.4	19.3	17.5	10.3
POTASSIUM				MG/KG	2040 J	2890 J	1320 J	2090	1630	959 U
SELENIUM	510		3001	MG/KG	4.5 U	5 U	4.9 U	5.1 U	4.4 U	1 J
SILVER	510		420.4	MG/KG	0.062 J	0.033 J	0.037 J	0.036 J	0.08 J	0.024 J
SODIUM				MG/KG	115 J	193 J	80.5 J	116 J	880 U	959 U
THALLIUM	6.7		750.1	MG/KG	0.23 J	0.19 J	0.22 J	2 U	1.8 U	1.9 U
VANADIUM	100		36000	MG/KG	24.8	26.9	28	28	28.3	16.7
ZINC	10000		124200	MG/KG	69.5 J	46.1 J	42.7 J	45.2 J	48.5 J	28.7 J
General Chemistry										
CYANIDE	1200		2001	MG/KG	0.14 U	0.17 U	0.17 U	0.15 U	0.19 U	0.19 U
PERCENT MOISTURE				%						
PERCENT SOLIDS				%	93	82	88	85	90	87

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004

Crit2: New York State TAGM 4046 Soil, 1999

Crit3: Site Specific Soil Screening Levels (SSLs)

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	SN	SN	SN
				Excavation:	X58	X63	X64	X65	X66	X83
				Sample Name:	C7-CWM-SO-X58-SN01-3.5	C7-CWM-SO-X63-SN01-12.5	C7-CWM-SO-X64-SN01-12	C7-CWM-SO-X65-SN01-10	C7-CWM-SO-X66-SN01-5.5	C7-CWM-SO-X83-SN01-7.5
				Sample Depth:	3.5 FT	12.5 FT	12 FT	10 FT	5.5 FT	7.5 FT
				Sample Date:	9/12/2006	9/14/2006	9/14/2006	9/14/2006	9/14/2006	9/21/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	4619	UG/KG	6.2 U	5.0 U	8.2 U	5.3 U	5.3 U	5.0 U
1,1,2,2-TETRACHLOROETHANE	930	35000	2495	UG/KG	6.2 U	5.0 U	8.2 U	5.3 U	5.3 U	5.0 U
1,1,2-TRICHLOROETHANE	1600		483.4	UG/KG	6.2 U	5.0 U	8.2 U	5.3 U	5.3 U	5.0 U
1,1-DICHLOROETHANE	170000	800000	2047	UG/KG	6.2 U	5.0 U	8.2 U	5.3 U	5.3 U	5.0 U
1,1-DICHLOROETHYLENE	41000	12000	3119	UG/KG	6.2 U	5.0 U	8.2 U	5.3 U	5.3 U	5.0 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG	6.2 U	5.0 U	8.2 U	5.3 U	5.3 U	5.0 U
1,2-DICHLOROETHANE	600	7700	180.9	UG/KG	6.2 U	5.0 U	8.2 U	5.3 U	5.3 U	5.0 U
1,3-DICHLOROBENZENE	60000		6796	UG/KG	6.2 U	5.0 U	8.2 U	5.3 U	5.3 U	5.0 U
1,4-DICHLOROBENZENE	7900		6790	UG/KG	6.2 U	5.0 U	8.2 U	5.3 U	5.3 U	5.0 U
2-BUTANONE	11000000	400000	6476	UG/KG	13 U	10 U	16 U	11 U	11 U	10 U
4-METHYL-2-PENTANONE	4700000	400000	1497000	UG/KG	13 U	10 U	16 U	11 U	11 U	10 U
ACETONE	5400000	800000	5514	UG/KG	13 U	10 U	16 U	11 U	11 U	10 U
BENZENE	1400	24000	453.8	UG/KG	6.2 U	5.0 U	8.2 U	5.3 U	5.3 U	5.0 U
CARBON DISULFIDE	72000	800000	32890	UG/KG	6.2 U	5.0 U	8.2 U	5.3 U	5.3 U	5.0 U
CARBON TETRACHLORIDE	550	5400	5303	UG/KG	6.2 U	5.0 U	8.2 U	5.3 U	5.3 U	5.0 U
CHLOROBENZENE	53000	200000	7253	UG/KG	6.2 U	5.0 U	8.2 U	5.3 U	5.3 U	5.0 U
CHLOROFORM	470	80000	2770	UG/KG	6.2 U	5.0 U	8.2 U	5.3 U	5.3 U	5.0 U
CIS-1,2-DICHLOROETHENE	15000	80000	1575	UG/KG	6.2 U	5.0 U	8.2 U	5.3 U	5.3 U	5.0 U
CIS-1,3-DICHLOROPROPENE	1800			UG/KG	6.2 U	5.0 U	8.2 U	5.3 U	5.3 U	5.0 U
ETHYLBENZENE	40000	800000	5749	UG/KG	6.2 U	5.0 U	8.2 U	5.3 U	5.3 U	5.0 U
ISOPROPYLBENZENE	200000		21090	UG/KG	6.2 U	5.0 U	8.2 U	5.3 U	5.3 U	5.0 U
M+P-XYLENE	42000	20000000		UG/KG	6.2 U	5.0 U	8.2 U	5.3 U	5.3 U	5.0 U
METHYLENE CHLORIDE	21000	93000	862.5	UG/KG	13 U	2 J	3.2 J	11 U	11 U	10 U
O-XYLENE	42000	20000000		UG/KG	6.2 U	5.0 U	8.2 U	5.3 U	5.3 U	5.0 U
STYRENE	170000		13390	UG/KG	6.2 U	5.0 U	8.2 U	5.3 U	5.3 U	5.0 U
TETRACHLOROETHENE	1300	14000	7858	UG/KG	6.2 U	5.0 U	8.2 U	5.3 U	5.3 U	5.0 U
TOLUENE	52000	2000000	4226	UG/KG	6.2 U	5.0 U	8.2 U	5.3 U	5.3 U	5.0 U
TRANS-1,2-DICHLOROETHENE	23000	200000	1811	UG/KG	6.2 U	5.0 U	8.2 U	5.3 U	5.3 U	5.0 U
TRICHLOROETHYLENE	6500	64000	3227	UG/KG	6.2 U	5.0 U	8.2 U	5.3 U	5.3 U	5.0 U
VINYL CHLORIDE	750	360	794.4	UG/KG	13 U	10 U	16 U	11 U	11 U	10 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		18270	UG/KG	7.5 U	8.3 U	8.6 U	7.9 U	8.5 U	7.4 U
1,2-BENZPHENANTHRACENE	210000		3943	UG/KG	7.5 U	8.3 U	8.6 U	7.9 U	8.5 J	10
1,2-DICHLOROBENZENE	60000		6914	UG/KG						

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	SN	SN	SN
				Excavation:	X58	X63	X64	X65	X66	X83
				Sample Name:	C7-CWM-SO-X58-SN01-3.5	C7-CWM-SO-X63-SN01-12.5	C7-CWM-SO-X64-SN01-12	C7-CWM-SO-X65-SN01-10	C7-CWM-SO-X66-SN01-5.5	C7-CWM-SO-X83-SN01-7.5
				Sample Depth:	3.5 FT	12.5 FT	12 FT	10 FT	5.5 FT	7.5 FT
				Sample Date:	9/12/2006	9/14/2006	9/14/2006	9/14/2006	9/14/2006	9/21/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
1,3-DICHLOROBENZENE	60000		6796	UG/KG						
1,4-DICHLOROBENZENE	7900		6790	UG/KG						
2,4-DIMETHYLPHENOL	1200000		2660000	UG/KG	37 U	41 U	43 U	40 U	42 U	37 U
2-CHLOROPHENOL	24000	40000	68720	UG/KG	37 U	41 U	43 U	40 U	42 U	37 U
2-METHYLNAPHTHALENE	19000		147800	UG/KG	7.5 U	8.3 U	8.6 U	7.9 U	8.5 U	7.4 U
2-METHYLPHENOL	3100000		412300	UG/KG	37 U	41 U	43 U	40 U	42 U	37 U
4-CHLORO-3-METHYLPHENOL				UG/KG	37 U	41 U	43 U	40 U	42 U	37 U
4-METHYLPHENOL	310000	400000	90940	UG/KG	37 U	41 U	43 U	40 U	42 U	37 U
ACENAPHTHENE	2900000	500000	485100	UG/KG	7.5 U	8.3 U	8.6 U	7.9 U	8.5 U	7.4 U
ACENAPHTHYLENE	2900000		199500	UG/KG	7.5 U	8.3 U	8.6 U	7.9 U	8.5 U	7.4 U
ANTHRACENE	10000000	2000000	5919000	UG/KG	7.5 U	8.3 U	8.6 U	7.9 U	2.5 J	1.8 J
BENZ[A]ANTHRACENE	2100	224	3923	UG/KG	7.5 U	8.3 U	8.6 U	7.9 U	8 J	20
BENZO[A]PYRENE	210	60.9		UG/KG	6.4 J	8.3 U	8.6 U	7.9 U	6.4 J	13
BENZO[B]FLUORANTHENE	2100	224	12120	UG/KG	7.5 U	8.3 U	8.6 U	7.9 U	7.2 J	14
BENZO[GHI]PERYLENE	2900000			UG/KG	20	8.3 U	8.6 U	7.9 U	8.5 U	7 J
BENZO[K]FLUORANTHENE	21000	224	12120	UG/KG	7.5 U	8.3 U	8.6 U	7.9 U	8.5 U	10 J
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	372100000	UG/KG	7.5 U	32	8.6 U	7.9 U	8.5 U	7.4 U
CARBAZOLE	86000		1135	UG/KG	7.5 U	8.3 U	8.6 U	7.9 U	8.5 U	7.4 U
DIBENZ[A,H]ANTHRACENE	210	14.3	172300	UG/KG	7.5 U	8.3 U	8.6 U	7.9 U	8.5 U	7.4 U
DIBENZOFURAN	160000		462500	UG/KG	7.5 U	8.3 U	8.6 U	7.9 U	8.5 U	7.4 U
DIETHYL PHTHALATE	10000000	6000000		UG/KG	7.5 U	11	7.3 J	7.5 J	5.5 J	7.4 U
DI-N-BUTYL PHTHALATE	6200000	800000	8358000	UG/KG	7.5 U	290	220	150	150	7.4 U
DI-N-OCTYL PHTHALATE	2500000	200000	593000	UG/KG	7.5 U	8.3 U	8.6 U	7.9 U	8.5 U	7.4 U
FLUORANTHENE	2200000	300000	26370000	UG/KG	3.7 J	8.3 U	8.6 U	2.4 J	18	33
FLUORENE	2600000	300000	1952000	UG/KG	7.5 U	8.3 U	8.6 U	7.9 U	8.5 U	7.4 U
HEXACHLORO-1,3-BUTADIENE	18000		132400	UG/KG	7.5 U	8.3 U	8.6 U	7.9 U	8.5 U	7.4 U
HEXACHLOROBENZENE	1100	410	10850	UG/KG	7.5 U	8.3 U	8.6 U	7.9 U	8.5 U	7.4 U
HEXACHLOROETHANE	62000		44540	UG/KG	7.5 U	8.3 U	8.6 U	7.9 U	8.5 U	7.4 U
INDENO[1,2,3-CD]PYRENE	2100		34200	UG/KG	7.5 U	8.3 U	8.6 U	7.9 U	3.8 J	6.7 J
NAPHTHALENE	19000	30000	60240	UG/KG	10	8.3 U	8.6 U	7.9 U	8.5 U	7.4 U
PHENANTHRENE	19000		1189000	UG/KG	4.9 J	8.3 U	8.6 U	7.9 U	8 J	6.3 J
PHENOL	10000000	5000000	250.1	UG/KG	37 U	41 U	43 U	40 U	42 U	37 U
PYRENE	2900000	200000	16760000	UG/KG	2.6 J	8.3 U	8.6 U	7.9 U	11	22
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	6608000	UG/KG	1.9 U	2.1 U	2.1 U	2.0 U	2.1 U	1.9 U

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	SN	SN	SN
				Excavation:	X58	X63	X64	X65	X66	X83
				Sample Name:	C7-CWM-SO-X58-SN01-3.5	C7-CWM-SO-X63-SN01-12.5	C7-CWM-SO-X64-SN01-12	C7-CWM-SO-X65-SN01-10	C7-CWM-SO-X66-SN01-5.5	C7-CWM-SO-X83-SN01-7.5
				Sample Depth:	3.5 FT	12.5 FT	12 FT	10 FT	5.5 FT	7.5 FT
				Sample Date:	9/12/2006	9/14/2006	9/14/2006	9/14/2006	9/14/2006	9/21/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
4,4'-DDE	7000	2100	2592000	UG/KG	1.9 U	6.6 J	2.1 U	2.0 U	2.1 U	1.9 U
4,4'-DDT	7000	2100	85.5	UG/KG	1.9 U	2.1 U	2.1 U	2 J	2.1 J	1.9 U
ALDRIN	100	41		UG/KG	1.9 U	2.1 U	2.1 U	2.0 U	2.1 U	1.9 U
ALPHA-BHC	360	111	61.69	UG/KG	1.9 U	2.1 U	2.1 U	2.0 U	2.1 U	1.9 U
ALPHA-CHLORDANE	6500		29570	UG/KG	1.9 U	2.1 U	2.1 U	2.0 U	2.1 U	1.9 U
AROCLOR 1232	740	1000	45780	UG/KG	19 U	21 U	21 U	20 U	21 U	19 U
AROCLOR 1254	740	1000	335400	UG/KG	19 U	21 U	21 U	20 U	21 U	19 U
AROCLOR 1260	740	1000	918200	UG/KG	19 U	21 U	21 U	20 U	21 U	19 U
BETA-BHC	1300	3890	252.7	UG/KG	1.9 U	2.1 U	2.1 U	2.0 U	2.1 U	1.9 U
DELTA-BHC	360		2320	UG/KG	1.9 U	2.1 U	2.1 U	2.0 U	2.1 U	1.9 U
DIELDRIN	110	44	422.3	UG/KG	1.9 U	34 J	2.1 U	2.0 U	0.59 J	1.9 U
ENDOSULFAN I	370000		2344000	UG/KG	1.9 U	2.1 U	2.1 U	2.0 U	2.1 U	1.9 U
ENDOSULFAN II	370000		2344000	UG/KG	1.9 U	2.1 U	2.1 U	2.0 U	2.1 U	1.9 U
ENDOSULFAN SULFATE	370000		2344000	UG/KG	1.9 U	2.1 U	2.1 U	2.0 U	1.5 J	1.9 U
ENDRIN ALDEHYDE	18000		303600	UG/KG	1.9 U	2.1 U	0.39 J	0.6 J	0.78 J	1.9 U
ENDRIN KETONE	18000		303600	UG/KG	1.9 U	2.1 U	2.1 U	2.0 U	2.1 U	1.9 U
GAMMA-BHC	1700	2000	269	UG/KG	1.9 U	2.1 U	2.1 U	2.0 U	2.1 U	1.9 U
GAMMA-CHLORDANE	6500	500	29570	UG/KG	1.9 U	2.1 U	1.1 J	8.4 J	2.1 U	1.9 U
HEPTACHLOR EPOXIDE	190	77	12300	UG/KG	1.9 U	2.1 U	2.1 U	2.0 U	2.1 U	1.9 U
METHOXYCHLOR	310000	40000	16860000	UG/KG	1.9 U	4.6	2.1 U	2.0 U	2.1 U	1.9 U
Explosives (8330)										
HMX	3100000		16630000	UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
NITROBENZENE	10000	4000	419	UG/KG	56 J	100 U	100 U	49 J	37 J	99 U
RDX	16000			UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		54000000	MG/KG	**13500 J**	**13500**	**14300**	**13600**	**12200**	5190
ANTIMONY	41		135.3	MG/KG	0.86 U	0.96 U	1.0 U	1.0 U	0.82 U	.86 U
ARSENIC	1.6		5003	MG/KG	**3 J**	**3.1 J**	**4 J**	**4.4 J**	**2.9 J**	**2.2 J**
BARIUM	6700		41110	MG/KG	91.3 J	133	156	115	142	65.5
BERYLLIUM	190		2370	MG/KG	0.56	0.64	0.66	0.67	0.49	0.23
BORON	10000		3107	MG/KG	2.4 J	19 U	20 U	20 U	16 U	17.1 U
CADMIUM	45		375.5	MG/KG	0.43 U	0.18 J	0.16 J	0.22 J	0.18 J	.43 U
CALCIUM				MG/KG	20000	39100	39300	43500	19500	30300
CHROMIUM	64		90000000	MG/KG	15.7 J	18.2	19.7	18.3	20.3	7.1
COBALT	1900		32930	MG/KG	7.3	9.8	9.5	9.8	7.3	4.3 J

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	SN	SN	SN
				Excavation:	X58	X63	X64	X65	X66	X83
				Sample Name:	C7-CWM-SO-X58-SN01-3.5	C7-CWM-SO-X63-SN01-12.5	C7-CWM-SO-X64-SN01-12	C7-CWM-SO-X65-SN01-10	C7-CWM-SO-X66-SN01-5.5	C7-CWM-SO-X83-SN01-7.5
				Sample Depth:	3.5 FT	12.5 FT	12 FT	10 FT	5.5 FT	7.5 FT
				Sample Date:	9/12/2006	9/14/2006	9/14/2006	9/14/2006	9/14/2006	9/21/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
COPPER	4100		85620	MG/KG	38.5	29.6	30.7	31.2	31	21.1
IRON	10000		7532	MG/KG	**20600**	**23800**	**25000**	**24300**	**19000**	**12300**
LEAD	800		22500	MG/KG	7	6.5	8.1	6.5	7.3	4.1
LITHIUM	2000			MG/KG	22.1	21.9	23.4	21.1	20.3	7.8
MAGNESIUM				MG/KG	5670	9700	9640	9530	5600	3880
MANGANESE	1900		19530	MG/KG	477 J	857	787	815	625	687
MERCURY	31		36.53	MG/KG	0.016 J	0.012 J	0.035 J	0.019 J	0.016 J	.037 U
MOLYBDENUM	510		3619	MG/KG	4.3 U	0.47 J	0.47 J	0.49 J	0.44 J	4.3 U
NICKEL	2000		602.1	MG/KG	15.9	22.2	22.2	21.2	17.1	8.9
POTASSIUM				MG/KG	1480 J	2710	2880	2680	1330	699 J
SELENIUM	510		3001	MG/KG	4.3 U	4.8 U	5.0 U	5.1 U	4.1 U	4.3 U
SILVER	510		420.4	MG/KG	0.047 J	0.045 J	0.031 J	0.028 J	0.041 J	0.022 J
SODIUM				MG/KG	95.2 J	143 J	155 J	153 J	95.1 J	131 J
THALLIUM	6.7		750.1	MG/KG	1.7 U	1.9 U	2.0 U	2.0 U	1.6 U	1.7 U
VANADIUM	100		36000	MG/KG	27	27.8	30.2	28.7	24.1	14.1
ZINC	10000		124200	MG/KG	48.2 J	50 J	52.4 J	47.1 J	43.1 J	23.5 J
General Chemistry										
CYANIDE	1200		2001	MG/KG	0.14 U	0.17 U	0.16 U	0.19 U	0.18 U	0.15 U
PERCENT MOISTURE				%						
PERCENT SOLIDS				%	89	81	78	84	78	90

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004

Crit2: New York State TAGM 4046 Soil, 1999

Crit3: Site Specific Soil Screening Levels (SSLs)

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	SN	SN	SN
				Excavation:	X86	X97	X98	X99	X100	X101
				Sample Name:	C7-CWM-SO-X86-SN01-7	C7-CWM-SO-X97-SN01-12	C7-CWM-SO-X98-SN01-15	C7-CWM-SO-X99-SN01-15	C7-CWM-SO-X100-SN01-15	C7-CWM-SO-X101-SN01-14
				Sample Depth:	7 FT	15 FT	15 FT	15 FT	15 FT	14 FT
				Sample Date:	9/22/2006	10/2/2006	10/2/2006	10/2/2006	10/2/2006	10/5/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	4619	UG/KG	6.0 U	5.1 U	4.2 U	4.1 U	5.9 U	4.9 U
1,1,2,2-TETRACHLOROETHANE	930	35000	2495	UG/KG	6.0 U	5.1 U	4.2 U	4.1 U	5.9 U	4.9 U
1,1,2-TRICHLOROETHANE	1600		483.4	UG/KG	6.0 U	5.1 U	4.2 U	4.1 U	5.9 U	4.9 U
1,1-DICHLOROETHANE	170000	800000	2047	UG/KG	6.0 U	5.1 U	4.2 U	4.1 U	5.9 U	4.9 U
1,1-DICHLOROETHYLENE	41000	12000	3119	UG/KG	6.0 U	5.1 U	4.2 U	4.1 U	5.9 U	4.9 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG	6.0 U	5.1 U	4.2 U	4.1 U	5.9 U	4.9 U
1,2-DICHLOROETHANE	600	7700	180.9	UG/KG	6.0 U	5.1 U	4.2 U	4.1 U	5.9 U	4.9 U
1,3-DICHLOROBENZENE	60000		6796	UG/KG	6.0 U	5.1 U	4.2 U	4.1 U	5.9 U	4.9 U
1,4-DICHLOROBENZENE	7900		6790	UG/KG	6.0 U	5.1 U	4.2 U	4.1 U	5.9 U	4.9 U
2-BUTANONE	11000000	400000	6476	UG/KG	12 U	10 U	8.4 U	8.1 U	12 U	9.8 U
4-METHYL-2-PENTANONE	4700000	400000	1497000	UG/KG	12 U	10 U	8.4 U	8.1 U	12 U	9.8 U
ACETONE	5400000	800000	5514	UG/KG	12 U	10 U	8.4 U	8.1 U	12 U	9.8 U
BENZENE	1400	24000	453.8	UG/KG	6.0 U	5.1 U	4.2 U	4.1 U	5.9 U	4.9 U
CARBON DISULFIDE	72000	800000	32890	UG/KG	6.0 U	5.1 U	4.2 U	4.1 U	5.9 U	4.9 U
CARBON TETRACHLORIDE	550	5400	5303	UG/KG	6.0 U	5.1 U	4.2 U	4.1 U	5.9 U	4.9 U
CHLOROBENZENE	53000	200000	7253	UG/KG	6.0 U	5.1 U	4.2 U	4.1 U	5.9 U	4.9 U
CHLOROFORM	470	80000	2770	UG/KG	6.0 U	5.1 U	4.2 U	4.1 U	5.9 U	4.9 U
CIS-1,2-DICHLOROETHENE	15000	80000	1575	UG/KG	6.0 U	5.1 U	4.2 U	4.1 U	5.9 U	4.9 U
CIS-1,3-DICHLOROPROPENE	1800			UG/KG	6.0 U	5.1 U	4.2 U	4.1 U	5.9 U	4.9 U
ETHYLBENZENE	40000	800000	5749	UG/KG	6.0 U	5.1 U	4.2 U	4.1 U	5.9 U	4.9 U
ISOPROPYLBENZENE	200000		21090	UG/KG	6.0 U	5.1 U	4.2 U	4.1 U	5.9 U	4.9 U
M+P-XYLENE	42000	20000000		UG/KG	6.0 U	5.1 U	4.2 U	4.1 U	5.9 U	4.9 U
METHYLENE CHLORIDE	21000	93000	862.5	UG/KG	12 U	10 U	8.4 U	8.1 U	12 U	9.8 U
O-XYLENE	42000	20000000		UG/KG	6.0 U	5.1 U	4.2 U	4.1 U	5.9 U	4.9 U
STYRENE	170000		13390	UG/KG	6.0 U	5.1 U	4.2 U	4.1 U	5.9 U	4.9 U
TETRACHLOROETHENE	1300	14000	7858	UG/KG	6.0 U	5.1 U	4.2 U	4.1 U	5.9 U	4.9 U
TOLUENE	52000	2000000	4226	UG/KG	6.0 U	5.1 U	4.2 U	4.1 U	5.9 U	4.9 U
TRANS-1,2-DICHLOROETHENE	23000	200000	1811	UG/KG	6.0 U	5.1 U	4.2 U	4.1 U	5.9 U	4.9 U
TRICHLOROETHYLENE	6500	64000	3227	UG/KG	6.0 U	5.1 U	4.2 U	4.1 U	5.9 U	4.9 U
VINYL CHLORIDE	750	360	794.4	UG/KG	12 U	10 U	8.4 U	8.1 U	12 U	9.8 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		18270	UG/KG	31	8.2 U	7.4 U	7.5 U	8.9 U	7.8 U
1,2-BENZPHENANTHRACENE	210000		3943	UG/KG	7.1 U	8.2 U	7.4 U	7.5 U	8.9 U	3.9 J
1,2-DICHLOROBENZENE	60000		6914	UG/KG						

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	SN	SN	SN
				Excavation:	X86	X97	X98	X99	X100	X101
				Sample Name:	C7-CWM-SO-X86-SN01-7	C7-CWM-SO-X97-SN01-12	C7-CWM-SO-X98-SN01-15	C7-CWM-SO-X99-SN01-15	C7-CWM-SO-X100-SN01-15	C7-CWM-SO-X101-SN01-14
				Sample Depth:	7 FT	15 FT	15 FT	15 FT	15 FT	14 FT
				Sample Date:	9/22/2006	10/2/2006	10/2/2006	10/2/2006	10/2/2006	10/5/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
1,3-DICHLOROBENZENE	60000		6796	UG/KG						
1,4-DICHLOROBENZENE	7900		6790	UG/KG						
2,4-DIMETHYLPHENOL	1200000		2660000	UG/KG	35 U	41 U	37 U	38 U	44 U	39 U
2-CHLOROPHENOL	24000	40000	68720	UG/KG	35 U	41 U	37 U	38 U	44 U	39 U
2-METHYLNAPHTHALENE	19000		147800	UG/KG	7.1 U	8.2 U	7.4 U	7.5 U	8.9 U	7.8 U
2-METHYLPHENOL	3100000		412300	UG/KG	35 U	41 U	37 U	38 U	44 U	39 U
4-CHLORO-3-METHYLPHENOL				UG/KG	35 U	41 U	37 U	38 U	44 U	39 U
4-METHYLPHENOL	310000	400000	90940	UG/KG	35 U	41 U	37 U	38 U	44 U	39 U
ACENAPHTHENE	2900000	500000	485100	UG/KG	7.1 U	8.2 U	7.4 U	7.5 U	8.9 U	7.8 U
ACENAPHTHYLENE	2900000		199500	UG/KG	7.1 U	8.2 U	7.4 U	7.5 U	8.9 U	7.8 U
ANTHRACENE	10000000	2000000	5919000	UG/KG	7.1 U	8.2 U	7.4 U	7.5 U	8.9 U	7.8 U
BENZ[A]ANTHRACENE	2100	224	3923	UG/KG	2.5 J	8.2 U	7.4 U	7.5 U	2.6 J	2.3 J
BENZO[A]PYRENE	210	60.9		UG/KG	7.1 U	8.2 U	7.4 U	7.5 U	8.9 U	7.8 U
BENZO[B]FLUORANTHENE	2100	224	12120	UG/KG	7.1 U	8.2 U	7.4 U	7.5 U	8.9 U	7.8 U
BENZO[GHI]PERYLENE	2900000			UG/KG	7.1 U	8.2 U	7.4 U	7.5 U	8.9 U	7.8 U
BENZO[K]FLUORANTHENE	21000	224	12120	UG/KG	7.1 U	8.2 U	7.4 U	7.5 U	8.9 U	7.8 U
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	372100000	UG/KG	9.2 J	8.2 U	7.4 U	7.5 U	8.9 U	46
CARBAZOLE	86000		1135	UG/KG	7.1 U	8.2 U	7.4 U	7.5 U	8.9 U	7.8 U
DIBENZ[A,H]ANTHRACENE	210	14.3	172300	UG/KG	7.1 U	8.2 U	7.4 U	7.5 U	8.9 U	7.8 U
DIBENZOFURAN	160000		462500	UG/KG	7.1 U	8.2 U	7.4 U	7.5 U	8.9 U	7.8 U
DIETHYL PHTHALATE	10000000	6000000		UG/KG	7.1 U	8.2 U	7.4 U	7.5 U	8.9 U	7.8 U
DI-N-BUTYL PHTHALATE	6200000	800000	8358000	UG/KG	3.5 J	8.2 U	7.4 U	7.5 U	8.9 U	7.8 U
DI-N-OCTYL PHTHALATE	2500000	200000	593000	UG/KG	7.1 U	8.2 U	7.4 U	7.5 U	8.9 U	7.8 U
FLUORANTHENE	2200000	300000	26370000	UG/KG	7.1 U	8.2 U	7.4 U	7.5 U	8.9 U	2.3 J
FLUORENE	2600000	300000	1952000	UG/KG	7.1 U	8.2 U	7.4 U	7.5 U	8.9 U	7.8 U
HEXACHLORO-1,3-BUTADIENE	18000		132400	UG/KG	4.2 J	8.2 U	7.4 U	7.5 U	8.9 U	7.8 U
HEXACHLOROBENZENE	1100	410	10850	UG/KG	11	8.2 U	7.4 U	7.5 U	8.9 U	7.8 U
HEXACHLOROETHANE	62000		44540	UG/KG	7.1 U	8.2 U	7.4 U	7.5 U	8.9 U	7.8 U
INDENO[1,2,3-CD]PYRENE	2100		34200	UG/KG	7.1 U	8.2 U	7.4 U	7.5 U	8.9 U	7.8 U
NAPHTHALENE	19000	30000	60240	UG/KG	7.1 U	8.2 U	7.4 U	7.5 U	8.9 U	7.8 U
PHENANTHRENE	19000		1189000	UG/KG	7.1 U	8.2 U	7.4 U	7.5 U	8.9 U	3.1 J
PHENOL	10000000	5000000	250.1	UG/KG	35 U	41 U	37 U	38 U	44 U	39 U
PYRENE	2900000	200000	16760000	UG/KG	7.1 U	8.2 U	7.4 U	7.5 U	8.9 U	5.8 J
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	6608000	UG/KG	1.8 U	2.0 U	1.9 U	1.9 U	2.2 U	1.9 U

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	SN	SN	SN
				Excavation:	X86	X97	X98	X99	X100	X101
				Sample Name:	C7-CWM-SO-X86-SN01-7	C7-CWM-SO-X97-SN01-12	C7-CWM-SO-X98-SN01-15	C7-CWM-SO-X99-SN01-15	C7-CWM-SO-X100-SN01-15	C7-CWM-SO-X101-SN01-14
				Sample Depth:	7 FT	15 FT	15 FT	15 FT	15 FT	14 FT
				Sample Date:	9/22/2006	10/2/2006	10/2/2006	10/2/2006	10/2/2006	10/5/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
4,4'-DDE	7000	2100	2592000	UG/KG	1.8 U	2.0 U	1.9 U	1.9 U	2.2 U	1.9 U
4,4'-DDT	7000	2100	85.5	UG/KG	1.8 U	2.0 U	1.9 U	1.9 U	2.2 U	1.9 U
ALDRIN	100	41		UG/KG	1.8 U	2.0 U	1.9 U	1.9 U	2.2 U	1.9 U
ALPHA-BHC	360	111	61.69	UG/KG	1.8 U	2.0 U	1.9 U	1.9 U	2.2 U	1.9 U
ALPHA-CHLORDANE	6500		29570	UG/KG	1.8 U	2.0 U	1.9 U	1.9 U	2.2 U	1.9 U
AROCLOR 1232	740	1000	45780	UG/KG	18 U	20 U	19 U	19 U	22 U	19 U
AROCLOR 1254	740	1000	335400	UG/KG	18 U	20 U	19 U	19 U	22 U	19 U
AROCLOR 1260	740	1000	918200	UG/KG	18 U	20 U	19 U	19 U	22 U	19 U
BETA-BHC	1300	3890	252.7	UG/KG	1.8 U	2.0 U	1.9 U	1.9 U	2.2 U	1.9 U
DELTA-BHC	360		2320	UG/KG	1.8 U	0.49 J	1.9 U	1.9 U	2.2 U	1.9 U
DIELDRIN	110	44	422.3	UG/KG	1.8 U	2.0 U	1.9 U	1.9 U	2.2 U	1.9 U
ENDOSULFAN I	370000		2344000	UG/KG	1.8 U	2.0 U	1.9 U	1.9 U	2.2 U	1.9 U
ENDOSULFAN II	370000		2344000	UG/KG	1.8 U	2.0 U	1.9 U	1.9 U	2.2 U	1.9 U
ENDOSULFAN SULFATE	370000		2344000	UG/KG	1.8 U	2.0 U	1.9 U	1.9 U	2.2 U	1.9 U
ENDRIN ALDEHYDE	18000		303600	UG/KG	1.8 U	2.0 U	1.9 U	1.9 U	2.2 U	1.9 U
ENDRIN KETONE	18000		303600	UG/KG	1.8 U	2.0 U	1.9 U	1.9 U	2.2 U	1.9 U
GAMMA-BHC	1700	2000	269	UG/KG	1.8 U	2.0 U	1.9 U	1.9 U	2.2 U	1.9 U
GAMMA-CHLORDANE	6500	500	29570	UG/KG	1.8 U	0.63 J	1.9 U	1.9 U	2.2 U	1.9 U
HEPTACHLOR EPOXIDE	190	77	12300	UG/KG	1.8 U	2.0 U	1.9 U	1.9 U	2.2 U	1.9 U
METHOXYCHLOR	310000	40000	16860000	UG/KG	1.8 U	2.0 U	1.9 U	1.9 U	2.2 U	1.9 U
Explosives (8330)										
HMX	3100000		16630000	UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
NITROBENZENE	10000	4000	419	UG/KG	140	220	52 J	160	75 J	48 J
RDX	16000			UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		54000000	MG/KG	4700	**13600**	8350	8910	**20200**	**13500**
ANTIMONY	41		135.3	MG/KG	.82 U	.97 U	.94 U	.95 U	1.1 U	0.95 U
ARSENIC	1.6		5003	MG/KG	**3 J**	**3.4 J**	**3.1 J**	**3.1 J**	**2.8 J**	**4 J**
BARIUM	6700		41110	MG/KG	56.1	113	92.9	99.9	128	107
BERYLLIUM	190		2370	MG/KG	0.21	0.59	0.42	0.41	0.94	0.71
BORON	10000		3107	MG/KG	16.5 U	10.5 J	18.8 U	19 U	15.8 J	19 U
CADMIUM	45		375.5	MG/KG	0.15 J	0.16 J	0.19 J	.48 U	0.2 J	0.17 J
CALCIUM				MG/KG	30500	45600	45500	39700	49600	58600
CHROMIUM	64		90000000	MG/KG	7.1	19.7	12.5	12.5	28.3	**172**
COBALT	1900		32930	MG/KG	5.2 J	10.9	7.4	7.4	14.9	8.8

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	SN	SN	SN
				Excavation:	X86	X97	X98	X99	X100	X101
				Sample Name:	C7-CWM-SO-X86-SN01-7	C7-CWM-SO-X97-SN01-12	C7-CWM-SO-X98-SN01-15	C7-CWM-SO-X99-SN01-15	C7-CWM-SO-X100-SN01-15	C7-CWM-SO-X101-SN01-14
				Sample Depth:	7 FT	15 FT	15 FT	15 FT	15 FT	14 FT
				Sample Date:	9/22/2006	10/2/2006	10/2/2006	10/2/2006	10/2/2006	10/5/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
COPPER	4100		85620	MG/KG	70 J	25.5	30.3	24.1	24.1	25.2
IRON	10000		7532	MG/KG	**10000**	**25300**	**18500**	**17800**	**33400**	**21900**
LEAD	800		22500	MG/KG	3.5	7	5.1	5.2	8.9	7.2
LITHIUM	2000			MG/KG	8.5	27.1	16.5	17.4	37.6	23.2
MAGNESIUM				MG/KG	4650	11700	9640	8860	14100	13500
MANGANESE	1900		19530	MG/KG	485	713	818	724	671	902
MERCURY	31		36.53	MG/KG	0.025 J	0.016 J	0.035 U	0.019 J	0.017 J	0.038 U
MOLYBDENUM	510		3619	MG/KG	0.43 J	0.4 J	0.46 J	0.3 J	0.45 J	0.55 J
NICKEL	2000		602.1	MG/KG	9	24.2	16.1	15.8	34.3	20.8
POTASSIUM				MG/KG	556 J	2650	1430	1550	4010	2480
SELENIUM	510		3001	MG/KG	4.1 U	4.8 U	4.7 U	4.8 U	5.3 U	0.92
SILVER	510		420.4	MG/KG	0.12 J	0.042 J	0.035 J	0.039 J	0.06 J	0.066 J
SODIUM				MG/KG	119 J	190 J	113 J	147 J	227 J	177 J
THALLIUM	6.7		750.1	MG/KG	1.6 U	1.9 U	1.9 U	1.9 U	2.1 U	1.9 U
VANADIUM	100		36000	MG/KG	11	26.7	18.5	18.9	37.3	28.3
ZINC	10000		124200	MG/KG	31.7 J	49.1 J	36 J	36.4 J	65.8 J	46.7 J
General Chemistry										
CYANIDE	1200		2001	MG/KG	0.14 U	0.18 U	0.17 U	0.15 U	0.17 U	0.0050 U
PERCENT MOISTURE				%						
PERCENT SOLIDS				%	94	82	90	88	75	86

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	SN	SN	ST
				Excavation:	X103	X104	X105	X106	X114	X05
				Sample Name:	C7-CWM-SO-X103-SN01-13	C7-CWM-SO-X104-SN01-14	C7-CWM-SO-X105-SN01-12	C7-CWM-SO-X106-SN01-14	C7-CWM-SO-X114-SN01-1.5	C7-CWM-SO-X06-WW01-6.5
				Sample Depth:	13 FT	14 FT	12 FT	14 FT	1.5 FT	6.5 FT
				Sample Date:	10/6/2006	10/6/2006	10/3/2006	9/29/2006	10/10/2006	8/22/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	4619	UG/KG	5.1 U	6.2 U	5.8 U	5.5 U	5.8 U	5.1 U
1,1,2,2-TETRACHLOROETHANE	930	35000	2495	UG/KG	5.1 U	6.2 U	5.8 U	5.5 U	5.8 U	5.1 U
1,1,2-TRICHLOROETHANE	1600		483.4	UG/KG	2 J	6.2 U	5.8 U	5.5 U	5.8 U	5.1 U
1,1-DICHLOROETHANE	170000	800000	2047	UG/KG	5.1 U	6.2 U	5.8 U	5.5 U	5.8 U	5.1 U
1,1-DICHLOROETHYLENE	41000	12000	3119	UG/KG	5.1 U	6.2 U	5.8 U	5.5 U	5.8 U	5.1 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG	4.7 J	6.2 U	5.8 U	5.5 U	5.8 U	5.1 U
1,2-DICHLOROETHANE	600	7700	180.9	UG/KG	4.4 J	6.2 U	5.8 U	5.5 U	5.8 U	5.1 U
1,3-DICHLOROBENZENE	60000		6796	UG/KG	5.1 U	6.2 U	5.8 U	5.5 U	5.8 U	5.1 U
1,4-DICHLOROBENZENE	7900		6790	UG/KG	3.4 J	6.2 U	5.8 U	5.5 U	5.8 U	5.1 U
2-BUTANONE	11000000	400000	6476	UG/KG	10 U	12 U	12 U	11 U	12 U	10 U
4-METHYL-2-PENTANONE	4700000	400000	1497000	UG/KG	10 U	12 U	12 U	11 U	12 U	10 U
ACETONE	5400000	800000	5514	UG/KG	10 U	12 U	12 U	11 U	12 U	10 U
BENZENE	1400	24000	453.8	UG/KG	5.1 U	6.2 U	5.8 U	5.5 U	5.8 U	5.1 U
CARBON DISULFIDE	72000	800000	32890	UG/KG	5.1 U	6.2 U	5.8 U	5.5 U	5.8 U	5.1 U
CARBON TETRACHLORIDE	550	5400	5303	UG/KG	5.1 U	240	5.8 U	5.5 U	5.8 U	5.1 U
CHLOROBENZENE	53000	200000	7253	UG/KG	2.1 J	6.2 U	5.8 U	5.5 U	5.8 U	5.1 U
CHLOROFORM	470	80000	2770	UG/KG	14	85	5.8 U	5.5 U	5.8 U	5.1 U
CIS-1,2-DICHLOROETHENE	15000	80000	1575	UG/KG	4.9 J	6.2 U	5.8 U	5.5 U	5.8 U	5.1 U
CIS-1,3-DICHLOROPROPENE	1800			UG/KG	5.1 U	6.2 U	5.8 U	5.5 U	5.8 U	5.1 U
ETHYLBENZENE	40000	800000	5749	UG/KG	5.1 U	6.2 U	5.8 U	5.5 U	5.8 U	5.1 U
ISOPROPYLBENZENE	200000		21090	UG/KG	5.1 U	6.2 U	5.8 U	5.5 U	5.8 U	5.1 U
M+P-XYLENE	42000	20000000		UG/KG	5.1 U	6.2 U	5.8 U	3 J	5.8 U	1.4 J
METHYLENE CHLORIDE	21000	93000	862.5	UG/KG	10 U	4.6 J	12 U	11 U	12 U	10 U
O-XYLENE	42000	20000000		UG/KG	5.1 U	6.2 U	5.8 U	5.5 U	5.8 U	5.1 U
STYRENE	170000		13390	UG/KG	5.1 U	6.2 U	5.8 U	5.5 U	5.8 U	5.1 U
TETRACHLOROETHENE	1300	14000	7858	UG/KG	5.1 U	12	5.8 U	5.5 U	5.8 U	5.1 U
TOLUENE	52000	2000000	4226	UG/KG	5.1 U	2 J	5.8 U	5.5 U	5.8 U	5.1 U
TRANS-1,2-DICHLOROETHENE	23000	200000	1811	UG/KG	5.1 U	6.2 U	5.8 U	5.5 U	5.8 U	5.1 U
TRICHLOROETHYLENE	6500	64000	3227	UG/KG	10	1.4 J	5.8 U	5.5 U	5.8 U	5.1 U
VINYL CHLORIDE	750	360	794.4	UG/KG	10 U	12 U	12 U	11 U	12 U	10 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		18270	UG/KG	14	640	8.1 U	8.1 U	8.0 U	8.5 U
1,2-BENZPHENANTHRACENE	210000		3943	UG/KG	7.3 U	8.2 U	8.1 U	8.1 U	6.8 J	50 J
1,2-DICHLOROBENZENE	60000		6914	UG/KG						

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	SN	SN	ST
				Excavation:	X103	X104	X105	X106	X114	X05
				Sample Name:	C7-CWM-SO-X103-SN01-13	C7-CWM-SO-X104-SN01-14	C7-CWM-SO-X105-SN01-12	C7-CWM-SO-X106-SN01-14	C7-CWM-SO-X114-SN01-1.5	C7-CWM-SO-X06-WW01-6.5
				Sample Depth:	13 FT	14 FT	12 FT	14 FT	1.5 FT	6.5 FT
				Sample Date:	10/6/2006	10/6/2006	10/3/2006	9/29/2006	10/10/2006	8/22/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
1,3-DICHLOROBENZENE	60000		6796	UG/KG						
1,4-DICHLOROBENZENE	7900		6790	UG/KG						
2,4-DIMETHYLPHENOL	1200000		2660000	UG/KG	37 U	41 U	40 U	41 U	40 U	42 U
2-CHLOROPHENOL	24000	40000	68720	UG/KG	37 U	41 U	40 U	41 U	40 U	42 U
2-METHYLNAPHTHALENE	19000		147800	UG/KG	7.3 U	8.2 U	8.1 U	8.1 U	8.0 U	4.2 J
2-METHYLPHENOL	3100000		412300	UG/KG	37 U	41 U	40 U	41 U	40 U	42 U
4-CHLORO-3-METHYLPHENOL				UG/KG	37 U	41 U	40 U	41 U	40 U	42 U
4-METHYLPHENOL	310000	400000	90940	UG/KG	37 U	20 J	40 U	41 U	40 U	42 U
ACENAPHTHENE	2900000	500000	485100	UG/KG	7.3 U	8.2 U	8.1 U	8.1 U	8.0 U	17 J
ACENAPHTHYLENE	2900000		199500	UG/KG	7.3 U	8.2 U	8.1 U	8.1 U	8.0 U	8.5 U
ANTHRACENE	10000000	2000000	5919000	UG/KG	7.3 U	6.6 J	8.1 U	8.1 U	8.0 U	33
BENZ[A]ANTHRACENE	2100	224	3923	UG/KG	7.3 U	9	8.1 U	8.1 U	6.4 J	76 J
BENZO[A]PYRENE	210	60.9		UG/KG	7.3 U	8.2 U	8.1 U	8.1 U	8.0 U	45
BENZO[B]FLUORANTHENE	2100	224	12120	UG/KG	7.3 U	8.2 U	8.1 U	8.1 U	12	62 J
BENZO[GHI]PERYLENE	2900000			UG/KG	7.3 U	8.2 U	8.1 U	8.1 U	4.8 J	23
BENZO[K]FLUORANTHENE	21000	224	12120	UG/KG	7.3 U	8.2 U	8.1 U	8.1 U	8.0 U	26
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	372100000	UG/KG	14 J	160 J	8.1 U	8.1 U	8.0 U	8.5 U
CARBAZOLE	86000		1135	UG/KG	7.3 U	8.2 U	8.1 U	8.1 U	8.0 U	22
DIBENZ[A,H]ANTHRACENE	210	14.3	172300	UG/KG	7.3 U	8.2 U	8.1 U	8.1 U	8.0 U	7.6 J
DIBENZOFURAN	160000		462500	UG/KG	7.3 U	8.2 U	8.1 U	8.1 U	8.0 U	9.8
DIETHYL PHTHALATE	10000000	6000000		UG/KG	7.3 U	8.2 U	8.1 U	8.1 U	120	8.5 U
DI-N-BUTYL PHTHALATE	6200000	800000	8358000	UG/KG	7.3 U	8.2 U	8.1 U	8.1 U	8.0 U	6.8 J
DI-N-OCTYL PHTHALATE	2500000	200000	593000	UG/KG	7.3 U	8.2 U	8.1 U	8.1 U	8.0 U	8.5 U
FLUORANTHENE	2200000	300000	26370000	UG/KG	7.3 U	8.2 U	8.1 U	8.1 U	16	150
FLUORENE	2600000	300000	1952000	UG/KG	7.3 U	8.2 U	8.1 U	8.1 U	8.0 U	14
HEXACHLORO-1,3-BUTADIENE	18000		132400	UG/KG	7.3 U	46	8.1 U	8.1 U	8.0 U	8.5 U
HEXACHLOROBENZENE	1100	410	10850	UG/KG	7.3 U	460	8.1 U	8.1 U	8.0 U	8.5 U
HEXACHLOROETHANE	62000		44540	UG/KG	7.3 U	1100	8.1 U	8.1 U	8.0 U	8.5 U
INDENO[1,2,3-CD]PYRENE	2100		34200	UG/KG	7.3 U	8.2 U	8.1 U	8.1 U	4.4 J	23
NAPHTHALENE	19000	30000	60240	UG/KG	7.3 U	3.3 J	8.1 U	8.1 U	8.0 U	7.6 J
PHENANTHRENE	19000		1189000	UG/KG	7.3 U	17	8.1 U	8.1 U	9.2	110 J
PHENOL	10000000	5000000	250.1	UG/KG	37 U	74	40 U	41 U	40 U	42 U
PYRENE	2900000	200000	16760000	UG/KG	7.3 U	8.2 U	8.1 U	8.1 U	15	100
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	6608000	UG/KG	1.8 U	2.1 U	2.0 U	2.0 U	11 J	2.1 U

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	SN	SN	ST
				Excavation:	X103	X104	X105	X106	X114	X05
				Sample Name:	C7-CWM-SO-X103-SN01-13	C7-CWM-SO-X104-SN01-14	C7-CWM-SO-X105-SN01-12	C7-CWM-SO-X106-SN01-14	C7-CWM-SO-X114-SN01-1.5	C7-CWM-SO-X06-WW01-6.5
				Sample Depth:	13 FT	14 FT	12 FT	14 FT	1.5 FT	6.5 FT
				Sample Date:	10/6/2006	10/6/2006	10/3/2006	9/29/2006	10/10/2006	8/22/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
4,4'-DDE	7000	2100	2592000	UG/KG	1.8 U	2.1 U	2.0 U	2.0 U	4.0 U	2.1 U
4,4'-DDT	7000	2100	85.5	UG/KG	1.8 U	2.1 U	2.0 U	2.0 U	42 J	2.1 U
ALDRIN	100	41		UG/KG	1.8 U	2.1 U	2.0 U	2.0 U	4.0 U	2.1 U
ALPHA-BHC	360	111	61.69	UG/KG	1.8 U	2.1 U	2.0 U	2.0 U	4.0 U	2.1 U
ALPHA-CHLORDANE	6500		29570	UG/KG	1.8 U	2.1 U	2.0 U	2.0 U	4.0 U	2.1 U
AROCLOR 1232	740	1000	45780	UG/KG	18 U	100 U	20 U	20 U	20 U	21 U
AROCLOR 1254	740	1000	335400	UG/KG	18 U	100 U	20 U	20 U	20 U	21 U
AROCLOR 1260	740	1000	918200	UG/KG	18 U	100 U	20 U	20 U	20 U	21 U
BETA-BHC	1300	3890	252.7	UG/KG	1.8 U	2.1 U	2.0 U	2.0 U	4.0 U	2.1 U
DELTA-BHC	360		2320	UG/KG	1.8 U	2.1 U	2.0 U	2.0 U	4.0 U	2.1 U
DIELDRIN	110	44	422.3	UG/KG	1.8 U	2.1 U	2.0 U	2.0 U	4.0 U	2.1 U
ENDOSULFAN I	370000		2344000	UG/KG	1.8 U	2.1 U	2.0 U	2.0 U	4.0 U	2.1 U
ENDOSULFAN II	370000		2344000	UG/KG	1.8 U	2.1 U	2.0 U	2.0 U	4.0 U	2.1 U
ENDOSULFAN SULFATE	370000		2344000	UG/KG	1.8 U	2.1 U	2.0 U	2.0 U	4.0 U	2.1 U
ENDRIN ALDEHYDE	18000		303600	UG/KG	1.8 U	2.1 U	2.0 U	2.0 U	4.7 J	2.1 U
ENDRIN KETONE	18000		303600	UG/KG	1.8 U	2.1 U	2.0 U	2.0 U	4.0 U	2.1 U
GAMMA-BHC	1700	2000	269	UG/KG	1.8 U	2.1 U	2.0 U	2.0 U	4.0 U	2.1 U
GAMMA-CHLORDANE	6500	500	29570	UG/KG	1.8 U	2.1 U	2.0 U	2.0 U	4.0 U	2.1 U
HEPTACHLOR EPOXIDE	190	77	12300	UG/KG	1.8 U	2.1 U	2.0 U	2.0 U	4.0 U	2.1 U
METHOXYCHLOR	310000	40000	16860000	UG/KG	1.8 U	2.1 U	2.0 U	2.0 U	4.0 U	2.1 U
Explosives (8330)										
HMX	3100000		16630000	UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
NITROBENZENE	10000	4000	419	UG/KG	50 J	80 J	30 J	46 J	23 J	99 U
RDX	16000			UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		54000000	MG/KG	6110	**12600**	9180	**17800**	**13700**	**12100**
ANTIMONY	41		135.3	MG/KG	0.89 U	0.88 U	0.93 U	0.98 U	1 J	.73 U
ARSENIC	1.6		5003	MG/KG	**2.2 J**	**4.5**	**6.3**	4.9 U	**2.6 J**	**3.1 J**
BARIUM	6700		41110	MG/KG	122	106	76.3	125	131	112 J
BERYLLIUM	190		2370	MG/KG	0.28	0.54	0.43	0.82	0.64	0.59
BORON	10000		3107	MG/KG	18 U	9.5 J	19 U	20 U	7.3 J	14.6 U
CADMIUM	45		375.5	MG/KG	0.45 U	0.15 J	0.18 J	0.17 J	0.27 J	0.21 J
CALCIUM				MG/KG	47800	52100	53400	37300	28300	44300
CHROMIUM	64		90000000	MG/KG	8.9	17.4	14.9	24.1	20.4	16
COBALT	1900		32930	MG/KG	6.6	9.5	9.3	13.1	8.1	8.5

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	SN	SN	SN	SN	ST
				Excavation:	X103	X104	X105	X106	X114	X05
				Sample Name:	C7-CWM-SO-X103-SN01-13	C7-CWM-SO-X104-SN01-14	C7-CWM-SO-X105-SN01-12	C7-CWM-SO-X106-SN01-14	C7-CWM-SO-X114-SN01-1.5	C7-CWM-SO-X06-WW01-6.5
				Sample Depth:	13 FT	14 FT	12 FT	14 FT	1.5 FT	6.5 FT
				Sample Date:	10/6/2006	10/6/2006	10/3/2006	9/29/2006	10/10/2006	8/22/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
COPPER	4100		85620	MG/KG	19.4	21.3	26.1	23.2	34.9 J	28.8
IRON	10000		7532	MG/KG	**15000**	**23400**	**22200**	**29900**	**18300**	**21400**
LEAD	800		22500	MG/KG	3.4	6.1	6	8.8	42 J	6.2
LITHIUM	2000			MG/KG	13.8	23.5	16	28.7	22.2	20
MAGNESIUM				MG/KG	8890	10700	10900	12500	6990	8760
MANGANESE	1900		19530	MG/KG	890	824	832	780	367 J	719
MERCURY	31		36.53	MG/KG	0.027 U	0.034 U	0.034 U	0.041 U	0.021 J	0.026 J
MOLYBDENUM	510		3619	MG/KG	0.32 J	0.41 J	0.54 J	0.42 J	0.49 J	0.45 J
NICKEL	2000		602.1	MG/KG	12.2	21.6	17.8	30	20.6 J	19.1
POTASSIUM				MG/KG	1090	2440	1370	3930	1700	1880 J
SELENIUM	510		3001	MG/KG	4.5 U	4.4 U	4.7 U	4.9 U	1.5 J	0.95 J
SILVER	510		420.4	MG/KG	0.032 J	0.039 J	0.033 J	0.036 J	.28 U	0.038 J
SODIUM				MG/KG	89.9 J	175 J	236 J	278 J	230 J	139 J
THALLIUM	6.7		750.1	MG/KG	1.8 U	1.8 U	1.9 U	2.0 U	1.9 U	1.5 U
VANADIUM	100		36000	MG/KG	14	24.4	23.5	34.2	27.9	25.8
ZINC	10000		124200	MG/KG	28.2 J	45.6 J	41.5 J	60.2	62 J	42.7 J
General Chemistry										
CYANIDE	1200		2001	MG/KG	0.0050 U	0.0050 U	0.16 U	0.16 U	0.17 U	0.17 U
PERCENT MOISTURE				%						
PERCENT SOLIDS				%	91	81	82	82	83	78

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	UN	UN	UN
				Excavation:	X11	X13	X22	X22	X27	X28
				Sample Name:	C7-CWM-SO-X11-WW01-3.5	C7-CWM-SO-X13-UN01-3.5	C7-CWM-SO-X22-UN01-6	C7-CWM-SO-DUP10	C7-CWM-SO-X27-UN01-3.5	C7-CWM-SO-X28-UN01-2.5
				Sample Depth:	3.5 FT	3.5 FT	6 FT	6 FT	3.5 FT	2.5 FT
				Sample Date:	8/23/2006	8/24/2006	8/28/2006	8/28/2006	8/30/2006	8/31/2006
				Parent Name:				C7-CWM-SO-X22-UN01-6		
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	4619	UG/KG	5.2 U	5.6 U	5.0 U	4.8 U	6.3 U	**6300 J**
1,1,2,2-TETRACHLOROETHANE	930	35000	2495	UG/KG	5.2 U	5.6 U	5.0 U	4.8 U	6.3 U	5.1 U
1,1,2-TRICHLOROETHANE	1600		483.4	UG/KG	5.2 U	5.6 U	5.0 U	4.8 U	6.3 U	44
1,1-DICHLOROETHANE	170000	800000	2047	UG/KG	5.2 U	5.6 U	5.0 U	4.8 U	6.3 U	130
1,1-DICHLOROETHYLENE	41000	12000	3119	UG/KG	5.2 U	5.6 U	5.0 U	4.8 U	6.3 U	120
1,2-DICHLOROBENZENE	60000		6914	UG/KG	5.2 U	5.6 U	5.0 U	4.8 U	6.3 U	**50000 J**
1,2-DICHLOROETHANE	600	7700	180.9	UG/KG	5.2 U	5.6 U	5.0 U	4.8 U	6.3 U	95
1,3-DICHLOROBENZENE	60000		6796	UG/KG	5.2 U	5.6 U	5.0 U	4.8 U	6.3 U	22 J
1,4-DICHLOROBENZENE	7900		6790	UG/KG	5.2 U	5.6 U	5.0 U	4.8 U	6.3 U	**9500**
2-BUTANONE	11000000	400000	6476	UG/KG	10 U	11 U	13 J	9.7 U	13 U	10 U
4-METHYL-2-PENTANONE	4700000	400000	1497000	UG/KG	10 U	11 U	10 U	9.7 U	13 U	75
ACETONE	5400000	800000	5514	UG/KG	31 J	11 U	44 J	38 J	13 U	700 J
BENZENE	1400	24000	453.8	UG/KG	5.2 U	5.6 U	5.0 U	4.8 U	6.3 U	**1600**
CARBON DISULFIDE	72000	800000	32890	UG/KG	5.2 U	5.6 U	5.0 U	4.8 U	6.3 U	5.1 U
CARBON TETRACHLORIDE	550	5400	5303	UG/KG	5.2 U	5.6 U	5.0 U	4.8 U	6.3 U	**810 J**
CHLOROBENZENE	53000	200000	7253	UG/KG	5.2 U	5.6 U	5.0 U	4.8 U	6.3 U	6400
CHLOROFORM	470	80000	2770	UG/KG	5.2 U	5.6 U	5.0 U	4.8 U	6.3 U	**760 J**
CIS-1,2-DICHLOROETHENE	15000	80000	1575	UG/KG	5.2 U	5.6 U	5.0 U	4.8 U	6.3 U	**7400**
CIS-1,3-DICHLOROPROPENE	1800			UG/KG	5.2 U	5.6 U	5.0 U	4.8 U	6.3 U	5.1 U
ETHYLBENZENE	40000	800000	5749	UG/KG	5.2 U	5.6 U	5.0 U	4.8 U	6.3 U	**30000**
ISOPROPYLBENZENE	200000		21090	UG/KG	5.2 U	5.6 U	5.0 U	4.8 U	6.3 U	14000
M+P-XYLENE	42000	20000000		UG/KG	2.1 J	1.5 J	5.0 U	4.8 U	6.3 U	**62000**
METHYLENE CHLORIDE	21000	93000	862.5	UG/KG	10 U	11 U	10 U	9.7 U	13 U	10 U
O-XYLENE	42000	20000000		UG/KG	5.2 U	5.6 U	5.0 U	4.8 U	6.3 U	24000
STYRENE	170000		13390	UG/KG	5.2 U	5.6 U	5.0 U	4.8 U	6.3 U	10000
TETRACHLOROETHENE	1300	14000	7858	UG/KG	5.2 U	5.6 U	5.0 U	4.8 U	6.3 U	**2300**
TOLUENE	52000	2000000	4226	UG/KG	1.8 J	5.6 U	5.0 U	4.8 U	6.3 U	**13000**
TRANS-1,2-DICHLOROETHENE	23000	200000	1811	UG/KG	5.2 U	5.6 U	5.0 U	4.8 U	6.3 U	10
TRICHLOROETHYLENE	6500	64000	3227	UG/KG	5.2 U	5.6 U	5.0 U	4.8 U	6.3 U	**38000**
VINYL CHLORIDE	750	360	794.4	UG/KG	10 U	11 U	10 U	9.7 U	13 U	10 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		18270	UG/KG	7.4 U	7.3 U	8.0 U	8.0 U	8.1 U	170
1,2-BENZPHENANTHRACENE	210000		3943	UG/KG	9.9 J	23 J	3.2 J	2.8 J	9.3	110
1,2-DICHLOROBENZENE	60000		6914	UG/KG						

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	UN	UN	UN
				Excavation:	X11	X13	X22	X22	X27	X28
				Sample Name:	C7-CWM-SO-X11-WW01-3.5	C7-CWM-SO-X13-UN01-3.5	C7-CWM-SO-X22-UN01-6	C7-CWM-SO-DUP10	C7-CWM-SO-X27-UN01-3.5	C7-CWM-SO-X28-UN01-2.5
				Sample Depth:	3.5 FT	3.5 FT	6 FT	6 FT	3.5 FT	2.5 FT
				Sample Date:	8/23/2006	8/24/2006	8/28/2006	8/28/2006	8/30/2006	8/31/2006
				Parent Name:				C7-CWM-SO-X22-UN01-6		
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
1,3-DICHLOROBENZENE	60000		6796	UG/KG						
1,4-DICHLOROBENZENE	7900		6790	UG/KG						
2,4-DIMETHYLPHENOL	1200000		2660000	UG/KG	37 U	37 U	40 U	40 U	40 U	38 U
2-CHLOROPHENOL	24000	40000	68720	UG/KG	37 U	37 U	40 U	40 U	40 U	38 U
2-METHYLNAPHTHALENE	19000		147800	UG/KG	7.4 U	7.3 U	5.6 J	8.0 U	8.1 U	900
2-METHYLPHENOL	3100000		412300	UG/KG	37 U	37 U	40 U	40 U	40 U	38 U
4-CHLORO-3-METHYLPHENOL				UG/KG	37 U	37 U	40 U	40 U	40 U	38 U
4-METHYLPHENOL	310000	400000	90940	UG/KG	37 U	37 U	40 U	40 U	40 U	38 U
ACENAPHTHENE	2900000	500000	485100	UG/KG	7.4 U	7.3 U	8.0 U	8.0 U	8.1 U	7.6 U
ACENAPHTHYLENE	2900000		199500	UG/KG	7.4 U	7.3 U	8.0 U	8.0 U	8.1 U	7.6 U
ANTHRACENE	10000000	2000000	5919000	UG/KG	7.4 U	6.9 J	8.0 U	8.0 U	8.1 U	7.6 U
BENZ[A]ANTHRACENE	2100	224	3923	UG/KG	12 J	28 J	4.4 J	3.2 J	9.7	77
BENZO[A]PYRENE	210	60.9		UG/KG	7.7	18 J	8.0 U	8.0 U	10	7.6 U
BENZO[B]FLUORANTHENE	2100	224	12120	UG/KG	12 J	19 J	4 J	8.0 U	7.7 J	7.6 U
BENZO[GHI]PERYLENE	2900000			UG/KG	4.8 J	11 J	8.0 U	8.0 U	6.4 J	24
BENZO[K]FLUORANTHENE	21000	224	12120	UG/KG	3.3 J	17 J	8.0 U	8.0 U	12 J	7.6 U
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	372100000	UG/KG	7.4 U	7.3 U	8.0 U	8.0 U	8.1 U	76 U
CARBAZOLE	86000		1135	UG/KG	7.4 U	7.3 U	8.0 U	8.0 U	8.1 U	7.6 U
DIBENZ[A,H]ANTHRACENE	210	14.3	172300	UG/KG	7.4 U	7.3 U	8.0 U	8.0 U	8.1 U	7.6 U
DIBENZOFURAN	160000		462500	UG/KG	7.4 U	7.3 U	12	8.0 U	8.1 U	7.6 U
DIETHYL PHTHALATE	10000000	6000000		UG/KG	7.4 U	7.3 U	8.0 U	8.0 U	8.1 U	7.6 U
DI-N-BUTYL PHTHALATE	6200000	800000	8358000	UG/KG	7.4 U	7.3 U	8.0 U	8.0 U	4 J	7.6 U
DI-N-OCTYL PHTHALATE	2500000	200000	593000	UG/KG	7.4 U	7.3 U	8.0 U	8.0 U	8.1 U	7.6 U
FLUORANTHENE	2200000	300000	26370000	UG/KG	14 J	48 J	5.2 J	5.6 J	13	46
FLUORENE	2600000	300000	1952000	UG/KG	7.4 U	7.3 U	16 J	8.0 U	8.1 U	7.6 U
HEXACHLORO-1,3-BUTADIENE	18000		132400	UG/KG	7.4 U	7.3 U	8.0 U	8.0 U	8.1 U	7.6 U
HEXACHLOROBENZENE	1100	410	10850	UG/KG	7.4 U	7.3 U	8.0 U	8.0 U	8.1 U	7.6 U
HEXACHLOROETHANE	62000		44540	UG/KG	7.4 U	7.3 U	8.0 U	8.0 U	8.1 U	7.6 U
INDENO[1,2,3-CD]PYRENE	2100		34200	UG/KG	3.7 J	11 J	8.0 U	8.0 U	6.4 J	14
NAPHTHALENE	19000	30000	60240	UG/KG	7.4 U	7.3 U	8.0 U	8.0 U	8.1 U	350
PHENANTHRENE	19000		1189000	UG/KG	4.4 J	17 J	8 J	8.0 U	3.2 J	280
PHENOL	10000000	5000000	250.1	UG/KG	37 U	37 U	40 U	40 U	40 U	180
PYRENE	2900000	200000	16760000	UG/KG	11 J	57 J	5.2 J	11	11	100
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	6608000	UG/KG	0.25 J	1.8 U	2.0 U	2.0 U	2.0 U	3.8 U

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	UN	UN	UN
				Excavation:	X11	X13	X22	X22	X27	X28
				Sample Name:	C7-CWM-SO-X11-WW01-3.5	C7-CWM-SO-X13-UN01-3.5	C7-CWM-SO-X22-UN01-6	C7-CWM-SO-DUP10	C7-CWM-SO-X27-UN01-3.5	C7-CWM-SO-X28-UN01-2.5
				Sample Depth:	3.5 FT	3.5 FT	6 FT	6 FT	3.5 FT	2.5 FT
				Sample Date:	8/23/2006	8/24/2006	8/28/2006	8/28/2006	8/30/2006	8/31/2006
				Parent Name:				C7-CWM-SO-X22-UN01-6		
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
4,4'-DDE	7000	2100	2592000	UG/KG	0.32 J	1.8 U	2.0 U	2.0 U	2.0 U	3.1 J
4,4'-DDT	7000	2100	85.5	UG/KG	1.8 U	1.8 U	2.0 U	2.0 U	2.0 U	3.8 J
ALDRIN	100	41		UG/KG	1.8 U	1.8 U	2.0 U	2.0 U	2.0 U	3.8 J
ALPHA-BHC	360	111	61.69	UG/KG	1.8 U	1.8 U	2.0 U	2.0 U	2.0 U	3.8 U
ALPHA-CHLORDANE	6500		29570	UG/KG	1.8 U	1.8 U	2.0 U	2.0 U	2.0 U	4.5 NJ
AROCLOR 1232	740	1000	45780	UG/KG	18 U	18 U	20 U	20 U	20 U	**16000 J**
AROCLOR 1254	740	1000	335400	UG/KG	18 U	18 U	20 U	20 U	20 U	1900 U
AROCLOR 1260	740	1000	918200	UG/KG	18 U	18 U	20 U	20 U	20 U	1900 U
BETA-BHC	1300	3890	252.7	UG/KG	1.8 U	1.8 U	2.0 U	2.0 U	2.0 U	53 J
DELTA-BHC	360		2320	UG/KG	1.8 U	1.8 U	2.0 U	2.0 U	2.0 U	3.8 U
DIELDRIN	110	44	422.3	UG/KG	1.8 U	1.8 U	2.0 U	2.0 U	2.0 U	3.8 U
ENDOSULFAN I	370000		2344000	UG/KG	1.8 U	1.8 U	2.0 U	2.0 U	2.0 U	3.8 U
ENDOSULFAN II	370000		2344000	UG/KG	1.8 U	1.8 U	2.0 U	2.0 U	2.0 U	3.8 U
ENDOSULFAN SULFATE	370000		2344000	UG/KG	1.8 U	1.8 U	2.0 U	2.0 U	2.0 U	3.8 U
ENDRIN ALDEHYDE	18000		303600	UG/KG	1.8 U	1.8 U	2.0 U	2.0 U	2.0 U	3.8 U
ENDRIN KETONE	18000		303600	UG/KG	1.8 U	1.8 U	2.0 U	2.0 U	2.0 U	3.8 U
GAMMA-BHC	1700	2000	269	UG/KG	1.8 U	1.8 U	2.0 U	2.0 U	2.0 U	23 J
GAMMA-CHLORDANE	6500	500	29570	UG/KG	1.8 U	1.8 U	2.0 U	2.0 U	2.0 U	3.8 U
HEPTACHLOR EPOXIDE	190	77	12300	UG/KG	1.8 U	1.8 U	2.0 U	2.0 U	2.0 U	3.8 U
METHOXYCHLOR	310000	40000	16860000	UG/KG	1.8 U	1.8 U	2.0 U	2.0 U	2.0 U	3.8 U
Explosives (8330)										
HMX	3100000		16630000	UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
NITROBENZENE	10000	4000	419	UG/KG	100 U	42 J	100 U	70 J	95 J	100 U
RDX	16000			UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		54000000	MG/KG	**13800**	**13600**	9990 J	**10700 J**	8470	**13400**
ANTIMONY	41		135.3	MG/KG	.87 U	0.24 J	.94 U	0.18 J	0.96 U	0.98 U
ARSENIC	1.6		5003	MG/KG	**6**	**3.7 J**	0.89 J	**2.2 J**	**3.6 J**	**3.8 J**
BARIUM	6700		41110	MG/KG	153 J	107 J	88	93.5	70.4 J	103 J
BERYLLIUM	190		2370	MG/KG	0.7	0.66	0.43	0.47	0.45	0.63
BORON	10000		3107	MG/KG	17.4 U	16.2 U	18.8 U	18.6 U	19 U	6.4 J
CADMIUM	45		375.5	MG/KG	0.23 J	0.2 J	.47 U	0.14 J	0.2 J	0.39 J
CALCIUM				MG/KG	23200	37600	6410 J	10400 J	23200 J	45300 J
CHROMIUM	64		90000000	MG/KG	19.2 J	17.2	11.1	12.9	10.7	17.9
COBALT	1900		32930	MG/KG	14.2	9	5	5.4	5.9	9

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	UN	UN	UN
				Excavation:	X11	X13	X22	X22	X27	X28
				Sample Name:	C7-CWM-SO-X11-WW01-3.5	C7-CWM-SO-X13-UN01-3.5	C7-CWM-SO-X22-UN01-6	C7-CWM-SO-DUP10	C7-CWM-SO-X27-UN01-3.5	C7-CWM-SO-X28-UN01-2.5
				Sample Depth:	3.5 FT	3.5 FT	6 FT	6 FT	3.5 FT	2.5 FT
				Sample Date:	8/23/2006	8/24/2006	8/28/2006	8/28/2006	8/30/2006	8/31/2006
				Parent Name:				C7-CWM-SO-X22-UN01-6		
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
COPPER	4100		85620	MG/KG	24.8	28.4	21.2	22.9	23.6	33.4
IRON	10000		7532	MG/KG	**34200**	**23300**	**13700**	**15800**	**16900**	**21400**
LEAD	800		22500	MG/KG	9.3	**3310**	5.3 J	6.6 J	7.2	21.8
LITHIUM	2000			MG/KG	22.6	21.7	14.1	15	12.7	20.1
MAGNESIUM				MG/KG	6020	8200	2600	3470	4600 J	15700
MANGANESE	1900		19530	MG/KG	1490	824	234 J	418 J	811 J	835
MERCURY	31		36.53	MG/KG	0.028	0.043	0.035 J	0.018 J	0.033 J	0.17
MOLYBDENUM	510		3619	MG/KG	0.56 J	4.1 U	0.39 J	0.47	0.3 J	0.47 J
NICKEL	2000		602.1	MG/KG	19.7	19	10.7 J	12 J	12	19.7
POTASSIUM				MG/KG	1440 J	1890 J	600 J	846 J	1110 J	1890 J
SELENIUM	510		3001	MG/KG	4.3 U	4.1 U	4.7 U	4.6 U	4.8 U	4.9 U
SILVER	510		420.4	MG/KG	0.041 J	0.066 J	0.027 J	0.029 J	0.029 J	0.062 J
SODIUM				MG/KG	868 U	812 U	74.9 J	82.8 J	178 J	139 J
THALLIUM	6.7		750.1	MG/KG	1.7 U	1.6 U	1.9 U	1.9 U	1.9 U	2.0 U
VANADIUM	100		36000	MG/KG	31.3	27	17.9 J	20.2 J	19.6	27.6
ZINC	10000		124200	MG/KG	57.7 J	50.3 J	33.8 J	38.9 J	31.7 J	72.8 J
General Chemistry										
CYANIDE	1200		2001	MG/KG	0.15 U	0.15	0.16 U	0.17 U	0.14 U	0.16 U
PERCENT MOISTURE				%						
PERCENT SOLIDS				%	91	91	83	83	82	87

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	UN	UN	UN
				Excavation:	X28	X45	X47	X74	X85	X85
				Sample Name:	C7-CWM-SO-X28-WW01-3	C7-CWM-SO-X45-UN01-3	C7-CWM-SO-X47-UN02-1.5	C7-CWM-SO-X74-UN01-5	C7-CWM-SO-X85-UN01-6.5	C7-CWM-SO-X85-UN02-4.5
				Sample Depth:	3 FT	3 FT	1.5 FT	5 FT	6.5 FT	4.5 FT
				Sample Date:	8/30/2006	9/7/2006	9/7/2006	9/18/2006	9/22/2006	9/22/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	4619	UG/KG	1200 U	4.9 U	4.5 U	5.4 U	4.9 U	6.1 U
1,1,2,2-TETRACHLOROETHANE	930	35000	2495	UG/KG	350 J	4.9 U	4.5 U	5.4 U	4.9 U	6.1 U
1,1,2-TRICHLOROETHANE	1600		483.4	UG/KG	1200 U	4.9 U	4.5 U	5.4 U	4.9 U	6.1 U
1,1-DICHLOROETHANE	170000	800000	2047	UG/KG	1200 U	4.9 U	4.5 U	5.4 U	4.9 U	5.8 J
1,1-DICHLOROETHYLENE	41000	12000	3119	UG/KG	1200 U	4.9 U	4.5 U	5.4 U	4.9 U	6.1 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG	6100 J	4.9 U	4.5 U	5.4 U	4.9 U	4.2 J
1,2-DICHLOROETHANE	600	7700	180.9	UG/KG	1200 U	4.9 U	4.5 U	5.4 U	4.9 U	6.1 U
1,3-DICHLOROBENZENE	60000		6796	UG/KG	290 J	4.9 U	4.5 U	5.4 U	4.9 U	6.1 U
1,4-DICHLOROBENZENE	7900		6790	UG/KG	2800 J	4.9 U	4.5 U	5.4 U	4.9 U	9.2 J
2-BUTANONE	11000000	400000	6476	UG/KG	2500 U	9.8 U	9.1 U	11 U	9.8 U	30 J
4-METHYL-2-PENTANONE	4700000	400000	1497000	UG/KG	2500 U	9.8 U	9.1 U	11 U	9.8 U	12 U
ACETONE	5400000	800000	5514	UG/KG	2500 U	9.8 U	9.1 U	11 U	41 J	110 J
BENZENE	1400	24000	453.8	UG/KG	**1200 J**	4.9 U	4.5 U	5.4 U	15	19
CARBON DISULFIDE	72000	800000	32890	UG/KG	1200 U	4.9 U	4.5 U	5.4 U	4.9 U	6.1 U
CARBON TETRACHLORIDE	550	5400	5303	UG/KG	1200 U	4.9 U	4.5 U	5.4 U	4.9 U	6.1 U
CHLOROBENZENE	53000	200000	7253	UG/KG	360 J	4.9 U	4.5 U	5.4 U	4.8 J	8.6
CHLOROFORM	470	80000	2770	UG/KG	260 J	4.9 U	4.5 U	5.4 U	4.9 U	6.1 U
CIS-1,2-DICHLOROETHENE	15000	80000	1575	UG/KG	290 J	4.9 U	4.5 U	5.4 U	4.9 U	6.1 U
CIS-1,3-DICHLOROPROPENE	1800			UG/KG	1200 U	4.9 U	4.5 J	5.4 U	4.9 U	6.1 U
ETHYLBENZENE	40000	800000	5749	UG/KG	3400	4.9 U	4.5 U	5.4 U	7.4	9.5
ISOPROPYLBENZENE	200000		21090	UG/KG	5100 J	4.9 U	4.5 U	5.4 U	11000 J	**59000 J**
M+P-XYLENE	42000	20000000		UG/KG	12000 J	4.9 U	4.5 U	5.4 U	21	36
METHYLENE CHLORIDE	21000	93000	862.5	UG/KG	2500 U	2.2 J	9.1 U	11 U	9.8 U	12 U
O-XYLENE	42000	20000000		UG/KG	7500	4.9 U	4.5 U	5.4 U	8.8	11
STYRENE	170000		13390	UG/KG	1200 U	4.9 U	4.5 U	5.4 U	4.9 U	6.1 U
TETRACHLOROETHENE	1300	14000	7858	UG/KG	1200 U	4.9 U	4.5 U	5.4 U	4.9 U	6.1 U
TOLUENE	52000	2000000	4226	UG/KG	1100 J	4.9 U	4.5 U	5.4 U	6.8	35
TRANS-1,2-DICHLOROETHENE	23000	200000	1811	UG/KG	1200 U	4.9 U	4.5 U	5.4 U	4.9 U	6.1 U
TRICHLOROETHYLENE	6500	64000	3227	UG/KG	1700	4.9 U	4.5 U	5.4 U	4.9 U	6.1 U
VINYL CHLORIDE	750	360	794.4	UG/KG	2500 U	9.8 U	9.1 U	11 U	9.8 U	12 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		18270	UG/KG	870	7.6 U	8.0 U	7.0 U	40 U	5.7 J
1,2-BENZPHENANTHRACENE	210000		3943	UG/KG	3100	11	8.0 U	49	62	8.8 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG						

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	UN	UN	UN
				Excavation:	X28	X45	X47	X74	X85	X85
				Sample Name:	C7-CWM-SO-X28-WW01-3	C7-CWM-SO-X45-UN01-3	C7-CWM-SO-X47-UN02-1.5	C7-CWM-SO-X74-UN01-5	C7-CWM-SO-X85-UN01-6.5	C7-CWM-SO-X85-UN02-4.5
				Sample Depth:	3 FT	3 FT	1.5 FT	5 FT	6.5 FT	4.5 FT
				Sample Date:	8/30/2006	9/7/2006	9/7/2006	9/18/2006	9/22/2006	9/22/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
1,3-DICHLOROBENZENE	60000		6796	UG/KG						
1,4-DICHLOROBENZENE	7900		6790	UG/KG						
2,4-DIMETHYLPHENOL	1200000		2660000	UG/KG	2200 U	38 U	40 U	35 U	200 U	44 U
2-CHLOROPHENOL	24000	40000	68720	UG/KG	2200 U	38 U	40 U	35 U	200 U	13 J
2-METHYLNAPHTHALENE	19000		147800	UG/KG	9800	7.6 U	8.0 U	7.0 U	40 U	8.8 U
2-METHYLPHENOL	3100000		412300	UG/KG	2200 U	38 U	40 U	35 U	200 U	44 U
4-CHLORO-3-METHYLPHENOL				UG/KG	2200 U	38 U	40 U	35 U	200 U	38 J
4-METHYLPHENOL	310000	400000	90940	UG/KG	2200 U	38 U	40 U	35 U	200 U	44 U
ACENAPHTHENE	2900000	500000	485100	UG/KG	790	4.5 J	8.0 U	7.0 U	40 U	8.8 U
ACENAPHTHYLENE	2900000		199500	UG/KG	440 U	7.6 U	8.0 U	7.3	40 U	8.8 U
ANTHRACENE	10000000	2000000	5919000	UG/KG	440 U	7.9	8.0 U	28	14 J	8.8 U
BENZ[A]ANTHRACENE	2100	224	3923	UG/KG	1600	12	8.0 U	100	52	8.8 U
BENZO[A]PYRENE	210	60.9		UG/KG	**1800**	8.7	8.0 U	62	60	8.8 U
BENZO[B]FLUORANTHENE	2100	224	12120	UG/KG	350 J	14	8.0 U	66	40 J	8.8 U
BENZO[GHI]PERYLENE	2900000			UG/KG	610	7.6 U	8.0 U	30	90	8.8 U
BENZO[K]FLUORANTHENE	21000	224	12120	UG/KG	300 J	7.6 U	8.0 U	57 J	50 J	8.8 U
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	372100000	UG/KG	440 U	7.6 U	8.0 U	7.0 U	32 J	26 J
CARBAZOLE	86000		1135	UG/KG	440 U	7.6 U	8.0 U	19	40 U	8.8 U
DIBENZ[A,H]ANTHRACENE	210	14.3	172300	UG/KG	440 U	7.6 U	8.0 U	12	40 U	8.8 U
DIBENZOFURAN	160000		462500	UG/KG	440 U	7.6 U	8.0 U	4.2 J	40 U	8.8 U
DIETHYL PHTHALATE	10000000	6000000		UG/KG	440 U	7.6 U	8.0 U	3.8 J	40 U	8.8 U
DI-N-BUTYL PHTHALATE	6200000	800000	8358000	UG/KG	440 U	7.6 U	8.0 U	110	40 U	8.8 U
DI-N-OCTYL PHTHALATE	2500000	200000	593000	UG/KG	440 U	7.6 U	8.0 U	7.0 U	40 U	8.8 U
FLUORANTHENE	2200000	300000	26370000	UG/KG	720	23	8.0 U	240	100	8.8 U
FLUORENE	2600000	300000	1952000	UG/KG	1200	7.6 U	8.0 U	12	40 U	8.8 U
HEXACHLORO-1,3-BUTADIENE	18000		132400	UG/KG	440 U	7.6 U	8.0 U	7.0 U	40 U	8.8 U
HEXACHLOROBENZENE	1100	410	10850	UG/KG	440 U	7.6 U	8.0 U	7.0 U	40 U	8.8 U
HEXACHLOROETHANE	62000		44540	UG/KG	440 U	7.6 U	8.0 U	7.0 U	40 U	8.8 U
INDENO[1,2,3-CD]PYRENE	2100		34200	UG/KG	240 J	3.8 J	8.0 U	29	34 J	8.8 U
NAPHTHALENE	19000	30000	60240	UG/KG	2900	7.6 U	8.0 U	7.0 U	22 J	8.8 U
PHENANTHRENE	19000		1189000	UG/KG	3800	17	8.0 U	120	70	8.8 U
PHENOL	10000000	5000000	250.1	UG/KG	2200 U	38 U	40 U	35 U	200 U	44 U
PYRENE	2900000	200000	16760000	UG/KG	1900	14	8.0 U	170	88	8.8 U
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	6608000	UG/KG	44 U	1.9 U	2.0 U	1.8 U	2.0 U	2.2 U

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	UN	UN	UN
				Excavation:	X28	X45	X47	X74	X85	X85
				Sample Name:	C7-CWM-SO-X28-WW01-3	C7-CWM-SO-X45-UN01-3	C7-CWM-SO-X47-UN02-1.5	C7-CWM-SO-X74-UN01-5	C7-CWM-SO-X85-UN01-6.5	C7-CWM-SO-X85-UN02-4.5
				Sample Depth:	3 FT	3 FT	1.5 FT	5 FT	6.5 FT	4.5 FT
				Sample Date:	8/30/2006	9/7/2006	9/7/2006	9/18/2006	9/22/2006	9/22/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
4,4'-DDE	7000	2100	2592000	UG/KG	44 U	1.9 U	2.0 U	1.8 U	2.0 U	2.2 U
4,4'-DDT	7000	2100	85.5	UG/KG	44 U	1.9 U	2.0 U	1.8 U	2.0 U	2.2 U
ALDRIN	100	41		UG/KG	44 U	1.9 U	2.0 U	1.8 U	2.0 U	2.2 U
ALPHA-BHC	360	111	61.69	UG/KG	0.96 J	1.9 U	2.0 U	1.8 U	2.0 U	2.2 U
ALPHA-CHLORDANE	6500		29570	UG/KG	18 J	1.9 U	2.0 U	1.8 U	2.0 U	2.2 U
AROCLOR 1232	740	1000	45780	UG/KG	**110000 J**	19 U	20 U	17 U	20 U	22 U
AROCLOR 1254	740	1000	335400	UG/KG	11000 U	19 U	20 U	17 U	20 U	22 U
AROCLOR 1260	740	1000	918200	UG/KG	11000 U	33	20 U	17 U	20 U	22 U
BETA-BHC	1300	3890	252.7	UG/KG	**430 J**	1.9 U	2.0 U	1.8 U	2.0 U	2.2 U
DELTA-BHC	360		2320	UG/KG	44 U	1.9 U	2.0 U	0.3 J	2.0 U	2.2 U
DIELDRIN	110	44	422.3	UG/KG	44 U	0.99 NJ	2.0 U	1.8 U	2.0 U	2.2 U
ENDOSULFAN I	370000		2344000	UG/KG	44 U	1.9 U	2.0 U	1.8 U	2.0 U	2.2 U
ENDOSULFAN II	370000		2344000	UG/KG	44 U	1.9 U	2.0 U	1.8 U	2.0 U	2.2 U
ENDOSULFAN SULFATE	370000		2344000	UG/KG	44 U	1.9 U	2.0 U	1.8 U	2.0 U	2.2 U
ENDRIN ALDEHYDE	18000		303600	UG/KG	44 U	1.9 U	2.0 U	1.8 U	2.0 U	2.2 U
ENDRIN KETONE	18000		303600	UG/KG	44 U	1.9 U	2.0 U	1.8 U	2.0 U	2.2 U
GAMMA-BHC	1700	2000	269	UG/KG	170 J	1.9 U	2.0 U	1.8 U	2.0 U	2.2 U
GAMMA-CHLORDANE	6500	500	29570	UG/KG	44 U	1.9 U	2.0 U	1.6 J	2.0 U	2.2 U
HEPTACHLOR EPOXIDE	190	77	12300	UG/KG	44 U	1.9 U	2.0 U	1.8 U	2.0 U	2.2 U
METHOXYCHLOR	310000	40000	16860000	UG/KG	44 U	1.9 U	2.0 U	1.8 U	2.0 U	2.2 U
Explosives (8330)										
HMX	3100000		16630000	UG/KG	190 J	200 U	200 U	93 J	200 U	200 U
NITROBENZENE	10000	4000	419	UG/KG	100 U	99 U	84 J	26 J	99 U	**970 J**
RDX	16000			UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		54000000	MG/KG	**11500**	**10000**	**12900**	6630	**10700**	**11200**
ANTIMONY	41		135.3	MG/KG	0.99 U	.87 U	0.43 J	0.85 U	.9 U	1.1 U
ARSENIC	1.6		5003	MG/KG	**3.3 J**	**3.1 J**	**3.7 J**	**2.7 J**	**2.5 J**	1.4 J
BARIUM	6700		41110	MG/KG	61.8 J	71.8	86.8	47.9	141	52.2
BERYLLIUM	190		2370	MG/KG	0.55	0.4	0.59	0.27	0.45	0.38
BORON	10000		3107	MG/KG	20 U	10.1 J	10.9 J	17 U	18 U	21.4 U
CADMIUM	45		375.5	MG/KG	0.82	0.13 J	2	0.42 U	0.21 J	0.23 J
CALCIUM				MG/KG	39600 J	99100	46000	23700	16100	3410
CHROMIUM	64		90000000	MG/KG	26	12 J	17.5 J	8.7	13.8	12.5
COBALT	1900		32930	MG/KG	10.1	5.6	8.7	4.7	7.2 J	5 J

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	UN	UN	UN
				Excavation:	X28	X45	X47	X74	X85	X85
				Sample Name:	C7-CWM-SO-X28-WW01-3	C7-CWM-SO-X45-UN01-3	C7-CWM-SO-X47-UN02-1.5	C7-CWM-SO-X74-UN01-5	C7-CWM-SO-X85-UN01-6.5	C7-CWM-SO-X85-UN02-4.5
				Sample Depth:	3 FT	3 FT	1.5 FT	5 FT	6.5 FT	4.5 FT
				Sample Date:	8/30/2006	9/7/2006	9/7/2006	9/18/2006	9/22/2006	9/22/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
COPPER	4100		85620	MG/KG	43.2	16.9	30.6	22	24.9 J	12.4 J
IRON	10000		7532	MG/KG	**29100**	**18500**	**23300**	**13600**	**22400**	**11200**
LEAD	800		22500	MG/KG	29.8	16.4	11.4	131	7.1	25.9
LITHIUM	2000			MG/KG	20	16.5	21.9	9.8	18.4	21.5
MAGNESIUM				MG/KG	11500 J	40300	17600	4410	4550	1920
MANGANESE	1900		19530	MG/KG	524 J	786	860	535	816	285
MERCURY	31		36.53	MG/KG	0.095	0.018 J	0.39	0.012 J	0.018 J	0.019 J
MOLYBDENUM	510		3619	MG/KG	0.71 J	0.34 J	0.56 J	4.2 U	0.32 J	0.32 J
NICKEL	2000		602.1	MG/KG	35.2	12.8	21	9.8	18.6	19.9
POTASSIUM				MG/KG	2170 J	1150	2280	663 J	1240	807 J
SELENIUM	510		3001	MG/KG	5.0 U	4.3 U	4.6 U	4.2 U	4.5 U	5.3 U
SILVER	510		420.4	MG/KG	0.066 J	0.049 J	0.054 J	0.029 J	0.038 J	0.04 J
SODIUM				MG/KG	205 J	866 U	918 U	105 J	485 J	482 J
THALLIUM	6.7		750.1	MG/KG	2.0 U	1.7 U	1.8 U	1.7 U	1.8 U	2.1 U
VANADIUM	100		36000	MG/KG	25.5	19.5	26.4	15.9	21.7	13.8
ZINC	10000		124200	MG/KG	1240 J	47.2 J	79.3 J	29.6 J	34.8 J	32.9 J
General Chemistry										
CYANIDE	1200		2001	MG/KG	0.15 U	0.14 U	0.17 U	0.14 U	0.17 U	0.19 U
PERCENT MOISTURE				%						
PERCENT SOLIDS				%	76	88	84	95	83	76

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	UN	UN	UN
				Excavation:	X107	X108	X109	X109	X113	X113
				Sample Name:	C7-CWM-SO-X107-UN01-4	C7-CWM-SO-X108-UN01-4	C7-CWM-SO-X109-UN01-4	C7-CWM-SO-DUP17	C7-CWM-SO-X113-UN01-4	C7-CWM-SO-X113-UN02-3
				Sample Depth:	4 FT	4 FT	4 FT	4 FT	4 FT	3 FT
				Sample Date:	10/9/2006	10/9/2006	10/9/2006	10/9/2006	10/9/2006	10/9/2006
				Parent Name:				C7-CWM-SO-X109-UN01-4		
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	4619	UG/KG	6.2 U	5.8 U	4.9 U	5.0 U	4.9 U	5.2 U
1,1,2,2-TETRACHLOROETHANE	930	35000	2495	UG/KG	6.2 U	5.8 U	4.9 U	5.0 U	4.9 U	5.2 U
1,1,2-TRICHLOROETHANE	1600		483.4	UG/KG	6.2 U	5.8 U	4.9 U	5.0 U	4.9 U	5.2 U
1,1-DICHLOROETHANE	170000	800000	2047	UG/KG	6.2 U	5.8 U	4.9 U	5.0 U	4.9 U	5.2 U
1,1-DICHLOROETHYLENE	41000	12000	3119	UG/KG	6.2 U	5.8 U	4.9 U	5.0 U	4.9 U	5.2 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG	6.2 U	5.8 U	4.9 U	5.0 U	4.9 U	5.2 U
1,2-DICHLOROETHANE	600	7700	180.9	UG/KG	6.2 U	5.8 U	4.9 U	5.0 U	4.9 U	5.2 U
1,3-DICHLOROBENZENE	60000		6796	UG/KG	6.2 U	5.8 U	4.9 U	5.0 U	4.9 U	5.2 U
1,4-DICHLOROBENZENE	7900		6790	UG/KG	6.2 U	5.8 U	4.9 U	5.0 U	4.9 U	5.2 U
2-BUTANONE	11000000	400000	6476	UG/KG	12 U	12 U	9.8 U	10	9.8 U	10 U
4-METHYL-2-PENTANONE	4700000	400000	1497000	UG/KG	12 U	12 U	9.8 U	10 U	9.8 U	10 U
ACETONE	5400000	800000	5514	UG/KG	41	12 U	9.8 U	10 U	9.8 U	10 U
BENZENE	1400	24000	453.8	UG/KG	6.2 U	5.8 U	4.9 U	5	4.9 U	5.2 U
CARBON DISULFIDE	72000	800000	32890	UG/KG	6.2 U	5.8 U	4.9 U	5.0 U	4.9 U	5.2 U
CARBON TETRACHLORIDE	550	5400	5303	UG/KG	6.2 U	5.8 U	4.9 U	5.0 U	4.9 U	5.2 U
CHLOROBENZENE	53000	200000	7253	UG/KG	6.2 U	5.8 U	4.9 U	5.0 U	4.9 U	5.2 U
CHLOROFORM	470	80000	2770	UG/KG	6.2 U	5.8 U	4.9 U	5.0 U	4.9 U	5.2 U
CIS-1,2-DICHLOROETHENE	15000	80000	1575	UG/KG	6.2 U	5.8 U	4.9 U	5.0 U	4.9 U	5.2 U
CIS-1,3-DICHLOROPROPENE	1800			UG/KG	6.2 U	5.8 U	4.9 U	5.0 U	4.9 U	5.2 U
ETHYLBENZENE	40000	800000	5749	UG/KG	6.2 U	5.8 U	4.9 U	5.0 U	4.9 U	5.2 U
ISOPROPYLBENZENE	200000		21090	UG/KG	6.2 U	5.8 U	4.9 U	5.0 U	4.9 U	5.2 U
M+P-XYLENE	42000	20000000		UG/KG	6.2 U	5.8 U	4.9 U	5.0 U	4.9 U	5.2 U
METHYLENE CHLORIDE	21000	93000	862.5	UG/KG	12 U	12 U	9.8 U	10 U	9.8 U	10 U
O-XYLENE	42000	20000000		UG/KG	6.2 U	5.8 U	4.9 U	5.0 U	4.9 U	5.2 U
STYRENE	170000		13390	UG/KG	6.2 U	5.8 U	4.9 U	5.0 U	4.9 U	5.2 U
TETRACHLOROETHENE	1300	14000	7858	UG/KG	6.2 U	5.8 U	4.9 U	5.0 U	4.9 U	5.2 U
TOLUENE	52000	2000000	4226	UG/KG	6.2 U	5.8 U	4.9 U	5.0 U	4.9 U	5.2 U
TRANS-1,2-DICHLOROETHENE	23000	200000	1811	UG/KG	6.2 U	5.8 U	4.9 U	5.0 U	4.9 U	5.2 U
TRICHLOROETHYLENE	6500	64000	3227	UG/KG	6.2 U	5.8 U	4.9 U	5.0 U	4.9 U	5.2 U
VINYL CHLORIDE	750	360	794.4	UG/KG	12 U	12 U	9.8 U	10 U	9.8 U	10 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		18270	UG/KG	8.3 U	8.5 U	8.0 U	7.9 U	7.8 U	7.6 U
1,2-BENZPHENANTHRACENE	210000		3943	UG/KG	5.8 J	11	170 J	12 J	7 J	4.2 J
1,2-DICHLOROBENZENE	60000		6914	UG/KG						

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY,
UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	UN	UN	UN
				Excavation:	X107	X108	X109	X109	X113	X113
				Sample Name:	C7-CWM-SO-X107-UN01-4	C7-CWM-SO-X108-UN01-4	C7-CWM-SO-X109-UN01-4	C7-CWM-SO-DUP17	C7-CWM-SO-X113-UN01-4	C7-CWM-SO-X113-UN02-3
				Sample Depth:	4 FT	4 FT	4 FT	4 FT	4 FT	3 FT
				Sample Date:	10/9/2006	10/9/2006	10/9/2006	10/9/2006	10/9/2006	10/9/2006
				Parent Name:				C7-CWM-SO-X109-UN01-4		
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
1,3-DICHLOROBENZENE	60000		6796	UG/KG						
1,4-DICHLOROBENZENE	7900		6790	UG/KG						
2,4-DIMETHYLPHENOL	1200000		2660000	UG/KG	42 U	43 U	40 U	39 U	39 U	38 U
2-CHLOROPHENOL	24000	40000	68720	UG/KG	42 U	43 U	40 U	39 U	39 U	38 U
2-METHYLNAPHTHALENE	19000		147800	UG/KG	8.3 U	8.5 U	8.0 U	7.9 U	7.8 U	7.6 U
2-METHYLPHENOL	3100000		412300	UG/KG	42 U	43 U	40 U	39 U	39 U	38 U
4-CHLORO-3-METHYLPHENOL				UG/KG	42 U	43 U	40 U	39 U	39 U	38 U
4-METHYLPHENOL	310000	400000	90940	UG/KG	42 U	43 U	40 U	39 U	39 U	38 U
ACENAPHTHENE	2900000	500000	485100	UG/KG	8.3 U	8.5 U	8.0 U	7.9 U	7.8 U	7.6 U
ACENAPHTHYLENE	2900000		199500	UG/KG	8.3 U	8.5 U	8.0 U	7.9 U	7.8 U	7.6 U
ANTHRACENE	10000000	2000000	5919000	UG/KG	8.3 U	8.5 U	15	7.9 U	7.8 U	7.6 U
BENZ[A]ANTHRACENE	2100	224	3923	UG/KG	3.3 J	13	160	10	5.4 J	3 J
BENZO[A]PYRENE	210	60.9		UG/KG	12	8.5 J	120	9.8	4.3 J	1.9 J
BENZO[B]FLUORANTHENE	2100	224	12120	UG/KG	4.2 J	12	170	12	7 J	4.5 J
BENZO[GHI]PERYLENE	2900000			UG/KG	7.5 J	8.5 U	50	5.1 J	7.8 U	7.6 U
BENZO[K]FLUORANTHENE	21000	224	12120	UG/KG	7.5 J	5.1 J	55 J	7.4 J	3.1 J	7.6 U
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	372100000	UG/KG	8.3 U	8.5 U	8.0 U	7.9 U	7.8 U	7.6 U
CARBAZOLE	86000		1135	UG/KG	8.3 U	8.5 U	22	7.9 U	7.8 U	7.6 U
DIBENZ[A,H]ANTHRACENE	210	14.3	172300	UG/KG	8.3 U	8.5 U	18	7.9 U	7.8 U	7.6 U
DIBENZOFURAN	160000		462500	UG/KG	8.3 U	8.5 U	8.0 U	7.9 U	7.8 U	7.6 U
DIETHYL PHTHALATE	10000000	6000000		UG/KG	8.3 U	8.5 U	8.0 U	7.9 U	7.8 U	7.6 U
DI-N-BUTYL PHTHALATE	6200000	800000	8358000	UG/KG	8.3 U	8.5 U	8.0 U	7.9 U	7.8 U	7.6 U
DI-N-OCTYL PHTHALATE	2500000	200000	593000	UG/KG	8.3 U	8.5 U	8.0 U	7.9 U	17	7.6 U
FLUORANTHENE	2200000	300000	26370000	UG/KG	6.2 J	22	140	5.1 J	7.4 J	4.9 J
FLUORENE	2600000	300000	1952000	UG/KG	8.3 U	8.5 U	8.0 U	7.9 U	7.8 U	7.6 U
HEXACHLORO-1,3-BUTADIENE	18000		132400	UG/KG	8.3 U	8.5 U	8.0 U	7.9 U	7.8 U	7.6 U
HEXACHLOROBENZENE	1100	410	10850	UG/KG	8.3 U	8.5 U	8.0 U	7.9 U	7.8 U	7.6 U
HEXACHLOROETHANE	62000		44540	UG/KG	8.3 U	8.5 U	8.0 U	7.9 U	7.8 U	7.6 U
INDENO[1,2,3-CD]PYRENE	2100		34200	UG/KG	5 J	4.2 J	52	4.3 J	2.3 J	1.9 J
NAPHTHALENE	19000	30000	60240	UG/KG	8.3 U	8.5 U	8.0 U	7.9 U	7.8 U	7.6 U
PHENANTHRENE	19000		1189000	UG/KG	3.8 J	3.8 J	29	1.6 J	5 J	3.4 J
PHENOL	10000000	5000000	250.1	UG/KG	42 U	43 U	40 U	39 U	39 U	38 U
PYRENE	2900000	200000	16760000	UG/KG	5.4 J	19	150	5.9 J	8.2	5.7 J
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	6608000	UG/KG	0.88 J	0.33 J	2.0 U	2.0 U	1.9 U	0.52 J

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	UN	UN	UN
				Excavation:	X107	X108	X109	X109	X113	X113
				Sample Name:	C7-CWM-SO-X107-UN01-4	C7-CWM-SO-X108-UN01-4	C7-CWM-SO-X109-UN01-4	C7-CWM-SO-DUP17	C7-CWM-SO-X113-UN01-4	C7-CWM-SO-X113-UN02-3
				Sample Depth:	4 FT	4 FT	4 FT	4 FT	4 FT	3 FT
				Sample Date:	10/9/2006	10/9/2006	10/9/2006	10/9/2006	10/9/2006	10/9/2006
				Parent Name:				C7-CWM-SO-X109-UN01-4		
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
4,4'-DDE	7000	2100	2592000	UG/KG	0.89 J	0.32 J	2.0 U	2.0 U	1.7 J	3.5
4,4'-DDT	7000	2100	85.5	UG/KG	1.3 J	0.65 J	9.8 NJ	2.0 U	1.9 U	5
ALDRIN	100	41		UG/KG	2.1 U	2.1 U	2.0 U	2.0 U	1.9 U	1.9 U
ALPHA-BHC	360	111	61.69	UG/KG	2.1 U	2.1 U	2.0 U	2.0 U	1.9 U	1.9 U
ALPHA-CHLORDANE	6500		29570	UG/KG	2.1 U	2.1 U	2.0 U	2.0 U	1.9 U	1.9 U
AROCLOR 1232	740	1000	45780	UG/KG	21 U	21 U	20 U	20 U	19 U	19 U
AROCLOR 1254	740	1000	335400	UG/KG	21 U	21 U	20 U	20 U	19 U	19 U
AROCLOR 1260	740	1000	918200	UG/KG	21 U	21 U	20 U	20 U	19 U	19 U
BETA-BHC	1300	3890	252.7	UG/KG	2.1 U	2.1 U	2.0 U	2.0 U	1.9 U	1.9 U
DELTA-BHC	360		2320	UG/KG	2.1 U	2.1 U	2.0 U	2.0 U	1.9 U	1.9 U
DIELDRIN	110	44	422.3	UG/KG	2.1 U	2.1 U	2.0 U	2.0 U	1.9 U	1.9 U
ENDOSULFAN I	370000		2344000	UG/KG	2.1 U	2.1 U	2.0 U	2.0 U	1.9 U	1.9 U
ENDOSULFAN II	370000		2344000	UG/KG	2.1 U	0.34 J	2.0 U	2.0 U	1.9 U	1.9 U
ENDOSULFAN SULFATE	370000		2344000	UG/KG	0.39 J	0.47 J	2.0 U	2.0 U	1.9 U	1.9 U
ENDRIN ALDEHYDE	18000		303600	UG/KG	0.5 NJ	0.6 J	2.0 U	2.0 U	1.9 U	1.9 U
ENDRIN KETONE	18000		303600	UG/KG	2.1 U	0.32 J	2.0 U	2.0 U	1.9 U	1.9 U
GAMMA-BHC	1700	2000	269	UG/KG	2.1 U	2.1 U	2.0 U	2.0 U	1.9 U	1.9 U
GAMMA-CHLORDANE	6500	500	29570	UG/KG	2.1 U	2.1 U	2.0 U	2.0 U	1.9 U	1.9 U
HEPTACHLOR EPOXIDE	190	77	12300	UG/KG	2.1 U	2.1 U	2.0 U	2.0 U	1.9 U	1.9 U
METHOXYCHLOR	310000	40000	16860000	UG/KG	2.1 U	2.1 U	2.0 U	2.0 U	1.9 U	1.9 U
Explosives (8330)										
HMX	3100000		16630000	UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
NITROBENZENE	10000	4000	419	UG/KG	44 J	27 J	60 J	66 J	32 J	35 J
RDX	16000			UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		54000000	MG/KG	**12100**	**15700**	**12900**	**12600**	**13500**	**10500**
ANTIMONY	41		135.3	MG/KG	1.0 U	0.97 U	0.95 U	0.94 U	0.96 U	0.87 U
ARSENIC	1.6		5003	MG/KG	**3 J**	**3.3 J**	**3.3 J**	**2.2 J**	**2.6 J**	**3 J**
BARIUM	6700		41110	MG/KG	87	157	99.5	114	137	103
BERYLLIUM	190		2370	MG/KG	0.46	0.68	0.64	0.62	0.67	0.47
BORON	10000		3107	MG/KG	2 J	3.1 J	5.1 J	4.8 J	6.2 J	7.8 J
CADMIUM	45		375.5	MG/KG	0.16 J	0.48 U	0.17 J	0.2 J	0.39 J	0.46
CALCIUM				MG/KG	5440	3950	32800	42000	23400	43200
CHROMIUM	64		90000000	MG/KG	14	19.3	16.5	15.7	16.8	14
COBALT	1900		32930	MG/KG	5.7	7.8	8.4	8.2	7.7	7.2

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	UN	UN	UN
				Excavation:	X107	X108	X109	X109	X113	X113
				Sample Name:	C7-CWM-SO-X107-UN01-4	C7-CWM-SO-X108-UN01-4	C7-CWM-SO-X109-UN01-4	C7-CWM-SO-DUP17	C7-CWM-SO-X113-UN01-4	C7-CWM-SO-X113-UN02-3
				Sample Depth:	4 FT	4 FT	4 FT	4 FT	4 FT	3 FT
				Sample Date:	10/9/2006	10/9/2006	10/9/2006	10/9/2006	10/9/2006	10/9/2006
				Parent Name:				C7-CWM-SO-X109-UN01-4		
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
COPPER	4100		85620	MG/KG	17	22.7	28.8	34	38.2	65.3
IRON	10000		7532	MG/KG	**26500**	**22300**	**20700**	**20500**	**18000**	**18300**
LEAD	800		22500	MG/KG	9.6	7.6	13.3 J	6.9 J	23.8	43.2
LITHIUM	2000			MG/KG	15.2	21.4	20.6	21.5	21.6	18
MAGNESIUM				MG/KG	3170	5260	11300	8260	6580	10600
MANGANESE	1900		19530	MG/KG	292	721	637	617	422	741
MERCURY	31		36.53	MG/KG	0.043	0.018 J	0.053	.03 U	0.02 J	.032 U
MOLYBDENUM	510		3619	MG/KG	0.58 J	0.42 J	0.45 J	0.35 J	0.33 J	0.35 J
NICKEL	2000		602.1	MG/KG	11.8	19.3	19.3	18.9	19.8	16.8
POTASSIUM				MG/KG	706 J	1130	1360	1520 N	1440	1420
SELENIUM	510		3001	MG/KG	5.2 U	4.8 U	4.8 U	4.7 U	4.8 U	4.3 U
SILVER	510		420.4	MG/KG	0.047 J	0.049 J	0.057 J	0.047 J	0.071 J	0.049 J
SODIUM				MG/KG	68.9 J	91.2 J	91 J	111 J	139 J	141 J
THALLIUM	6.7		750.1	MG/KG	2.1 U	1.9 U	1.9 U	0.2 J	0.17 J	1.7 U
VANADIUM	100		36000	MG/KG	22.6	27.2	25.2	23.5	24.7	20.4
ZINC	10000		124200	MG/KG	38.1 J	39.6 J	47.1 J	41.4 J	86.4 J	160 J
General Chemistry										
CYANIDE	1200		2001	MG/KG						
PERCENT MOISTURE				%						
PERCENT SOLIDS				%	80	78	84	85	86	88

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	UN	UN	UN
				Excavation:	X115	X116	X116	X116	X117	X118
				Sample Name:	C7-CWM-SO-X115-UN01-1.5	C7-CWM-SO-X116-UN01-4.5	C7-CWM-SO-X116-UN02-4.5	C7-CWM-SO-X116-UN03-4.5	C7-CWM-SO-X117-UN01-3	C7-CWM-SO-X118-UN01-4.5
				Sample Depth:	1.5 FT	4.5 FT	4.5 FT	4.5 FT	3 FT	4.5 FT
				Sample Date:	10/10/2006	10/13/2006	10/13/2006	10/13/2006	10/10/2006	10/10/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	4619	UG/KG	5.7 U	5.9 U	8.0 U	5.6 U	6.5 U	6.1 U
1,1-DICHLOROETHANE	170000	800000	2047	UG/KG	5.7 U	5.9 U	8.0 U	5.6 U	6.5 U	6.1 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG	5.7 U	5.9 U	8.0 U	5.6 U	6.5 U	6.1 U
1,3-DICHLOROBENZENE	60000		6796	UG/KG	5.7 U	5.9 U	8.0 U	5.6 U	6.5 U	6.1 U
1,4-DICHLOROBENZENE	7900		6790	UG/KG	5.7 U	5.9 U	8.0 U	5.6 U	6.5 U	6.1 U
2-BUTANONE	11000000	400000	6476	UG/KG	11 U	12 U	16 U	11 U	13 U	12 U
ACETONE	5400000	800000	5514	UG/KG	11 U	27	16 U	11 U	13 U	12 U
BENZENE	1400	24000	453.8	UG/KG	5.7 U	5.9 U	8.0 U	5.6 U	6.5 U	6.1 U
CARBON DISULFIDE	72000	800000	32890	UG/KG	5.7 J	5.9 U	8.0 U	5.6 U	6.5 J	6.1 U
CHLOROFORM	470	80000	2770	UG/KG	5.7 U	5.9 U	8.0 U	5.6 U	6.5 U	6.1 U
CIS-1,2-DICHLOROETHENE	15000	80000	1575	UG/KG	5.7 U	5.9 U	8.0 U	5.6 U	6.5 U	6.1 U
ISOPROPYLBENZENE	200000		21090	UG/KG	5.7 U	5.9 U	8.0 U	5.6 U	6.5 U	6.1 U
M+P-XYLENE	42000	20000000		UG/KG	5.7 U	5.9 U	8.0 U	5.6 U	6.5 U	6.1 U
METHYLENE CHLORIDE	21000	93000	862.5	UG/KG	11 U	12 U	16 U	11 U	13 U	12 U
TETRACHLOROETHENE	1300	14000	7858	UG/KG	5.7 U	5.9 U	8.0 U	5.6 U	6.5 U	6.1 U
TOLUENE	52000	2000000	4226	UG/KG	5.7 U	5.9 U	8.0 U	5.6 U	6.5 U	6.1 U
TRANS-1,2-DICHLOROETHENE	23000	200000	1811	UG/KG	5.7 U	5.9 U	8.0 U	5.6 U	6.5 U	6.1 U
TRICHLOROETHYLENE	6500	64000	3227	UG/KG	5.7 U	5.9 U	8.0 U	5.6 U	6.5 U	6.1 U
VINYL CHLORIDE	750	360	794.4	UG/KG	11 J	12 U	16 U	11 U	13 J	12 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		18270	UG/KG	8.1 U	8.5 U	8.5 U	8.1 U	7.6 U	9.1 U
1,2-BENZPHENANTHRACENE	210000		3943	UG/KG	2500	450	3.8 J	8.1 U	28	9.1 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG						
1,3-DICHLOROBENZENE	60000		6796	UG/KG						
1,4-DICHLOROBENZENE	7900		6790	UG/KG						
2-METHYLNAPHTHALENE	19000		147800	UG/KG	19 J	8.5 U	8.5 U	8.1 U	7.6 U	9.1 U
ACENAPHTHENE	2900000	500000	485100	UG/KG	46 J	6.8 J	8.5 U	8.1 U	7.6 U	9.1 U
ACENAPHTHYLENE	2900000		199500	UG/KG	11 J	17	8.5 U	8.1 U	7.6 U	9.1 U
ANTHRACENE	10000000	2000000	5919000	UG/KG	530 J	150	8.5 U	8.1 U	2.6 J	9.1 U
BENZ[A]ANTHRACENE	2100	224	3923	UG/KG	**5600**	640	8.5 U	8.1 U	30	16
BENZO[A]PYRENE	210	60.9		UG/KG	**3500**	**510**	8.5 U	2.8 J	59	4.1 J
BENZO[B]FLUORANTHENE	2100	224	12120	UG/KG	**6600**	1000	3.8 J	4.8 J	64	8.2 J
BENZO[GHI]PERYLENE	2900000			UG/KG	2200	210	8.5 U	8.1 U	32	9.1 U
BENZO[K]FLUORANTHENE	21000	224	12120	UG/KG	8.1 U	8.5 U	8.5 U	8.1 U	22	9.1 U

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	UN	UN	UN
				Excavation:	X115	X116	X116	X116	X117	X118
				Sample Name:	C7-CWM-SO-X115-UN01-1.5	C7-CWM-SO-X116-UN01-4.5	C7-CWM-SO-X116-UN02-4.5	C7-CWM-SO-X116-UN03-4.5	C7-CWM-SO-X117-UN01-3	C7-CWM-SO-X118-UN01-4.5
				Sample Depth:	1.5 FT	4.5 FT	4.5 FT	4.5 FT	3 FT	4.5 FT
				Sample Date:	10/10/2006	10/13/2006	10/13/2006	10/13/2006	10/10/2006	10/10/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	372100000	UG/KG	160 U	8.5 U	8.5 U	8.1 U	7.6 U	9.1 U
CARBAZOLE	86000		1135	UG/KG	140 J	230	8.5 U	8.1 U	7.6 U	9.1 U
DIBENZ[A,H]ANTHRACENE	210	14.3	172300	UG/KG	**700 J**	49	8.5 U	8.1 U	7.6 J	9.1 U
DIBENZOFURAN	160000		462500	UG/KG	35 J	7.3 J	8.5 U	8.1 U	7.6 U	9.1 U
DIETHYL PHTHALATE	10000000	6000000		UG/KG	8.1 U	8.5 U	8.5 U	8.1 U	7.6 U	9.1 U
DI-N-BUTYL PHTHALATE	6200000	800000	8358000	UG/KG	160 U	8.5 U	8.5 U	8.1 U	7.6 U	9.1 U
FLUORANTHENE	2200000	300000	26370000	UG/KG	8400	3000	3.8 J	8.5	26	7.3 J
FLUORENE	2600000	300000	1952000	UG/KG	100 J	34	8.5 U	8.1 U	7.6 U	9.1 U
HEXACHLORO-1,3-BUTADIENE	18000		132400	UG/KG	8.1 U	8.5 U	8.5 U	8.1 U	7.6 U	9.1 U
HEXACHLOROBENZENE	1100	410	10850	UG/KG	8.1 U	8.5 U	8.5 U	8.1 U	7.6 U	9.1 U
HEXACHLOROCYCLOPENTADIENE	370000		42590	UG/KG	20 U	21 U	21 U	20 U	19 U	23 U
INDENO[1,2,3-CD]PYRENE	2100		34200	UG/KG	**2400**	220	8.5 U	8.1 U	33	2.3 J
ISOPHORONE	510000	1707000	28020	UG/KG	8.1 U	8.5 U	8.5 U	8.1 U	7.6 U	9.1 U
NAPHTHALENE	19000	30000	60240	UG/KG	14 J	8.5 U	8.5 U	8.1 U	7.6 U	9.1 U
PHENANTHRENE	19000		1189000	UG/KG	1500	1600	8.5 U	4 J	8.4	4.1 J
PHENOL	10000000	5000000	250.1	UG/KG	40 U	43 U	43 U	40 U	38 U	46 U
PYRENE	2900000	200000	16760000	UG/KG	8000	2200	4.2 J	6.9 J	28	11
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	6608000	UG/KG	4.5 J	1.8 J	3.7	2.9	1.9 U	2.3 U
4,4'-DDE	7000	2100	2592000	UG/KG	2.6 J	1.2 NJ	5.4	2.0 U	1.9 U	2.8
4,4'-DDT	7000	2100	85.5	UG/KG	6.9 J	0.6 J	3	4.8	1.9 U	2.2 J
ALPHA-CHLORDANE	6500		29570	UG/KG	2.0 U	2.1 U	2.1 U	2.0 U	1.9 U	2.3 U
AROCLOR 1232	740	1000	45780	UG/KG	20 U	21 U	21 U	20 U	19 U	23 U
AROCLOR 1254	740	1000	335400	UG/KG	20 U	21 U	21 U	20 U	19 U	23 U
AROCLOR 1260	740	1000	918200	UG/KG	20 U	21 U	21 U	20 U	19 U	23 U
BETA-BHC	1300	3890	252.7	UG/KG	2.0 U	2.1 U	2.1 U	2.0 U	1.9 U	2.3 U
DELTA-BHC	360		2320	UG/KG	2.0 U	2.1 U	2.1 U	2.0 U	1.9 U	2.3 U
DIELDRIN	110	44	422.3	UG/KG	2.0 U	2.1 U	2.1 U	2.0 U	1.9 U	2.3 U
ENDOSULFAN I	370000		2344000	UG/KG	2.0 U	2.1 U	2.1 U	2.0 U	1.9 U	2.3 U
ENDOSULFAN II	370000		2344000	UG/KG	1.7 J	2.1 U	2.1 U	2.0 U	1.9 U	2.3 U
ENDRIN	18000	20000	667900	UG/KG	3.8 J	2.1 U	2.1 U	2.0 U	1.9 U	2.3 U
ENDRIN ALDEHYDE	18000		303600	UG/KG	2.9 J	2.1 U	2.1 U	2.0 U	7.3 J	0.87 J
GAMMA-BHC	1700	2000	269	UG/KG	2.0 U	2.1 U	2.1 U	2.0 U	1.9 U	2.3 U
HEPTACHLOR EPOXIDE	190	77	12300	UG/KG	2.0 U	2.1 U	2.1 U	2.0 U	1.9 U	2.3 U
Explosives (8330)										

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	UN	UN	UN
				Excavation:	X115	X116	X116	X116	X117	X118
				Sample Name:	C7-CWM-SO-X115-UN01-1.5	C7-CWM-SO-X116-UN01-4.5	C7-CWM-SO-X116-UN02-4.5	C7-CWM-SO-X116-UN03-4.5	C7-CWM-SO-X117-UN01-3	C7-CWM-SO-X118-UN01-4.5
				Sample Depth:	1.5 FT	4.5 FT	4.5 FT	4.5 FT	3 FT	4.5 FT
				Sample Date:	10/10/2006	10/13/2006	10/13/2006	10/13/2006	10/10/2006	10/10/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
NITROBENZENE	10000	4000	419	UG/KG	60 J	99 U	100 U	100 U	36 J	22 J
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		54000000	MG/KG	**12100**	**15100**	**14800**	**18400**	**13000**	**19300**
ANTIMONY	41		135.3	MG/KG	0.39 J	1.0 U	0.93 U	0.88 U	0.87 U	0.91 U
ARSENIC	1.6		5003	MG/KG	**3.9 J**	**2.7 J**	**5**	**4.2 J**	**3.2 J**	**5.8**
BARIUM	6700		41110	MG/KG	102	150	130	227	98.3	146
BERYLLIUM	190		2370	MG/KG	0.61	0.69	0.65	0.87	0.65	0.89
BORON	10000		3107	MG/KG	18 U	21 U	19 U	18 U	17 U	12.1 J
CADMIUM	45		375.5	MG/KG	0.9	0.17 J	0.22 J	0.28 J	0.22 J	0.2 J
CALCIUM				MG/KG	29300	52700	44400	46300	32000	62000
CHROMIUM	64		90000000	MG/KG	17.5	24.5	20.5	25	16.7	26.7
COBALT	1900		32930	MG/KG	8.8	11.2	10.8	13.6	8.3	14.3
COPPER	4100		85620	MG/KG	74.8 J	47.7	31.1	27	30.2 J	24 J
IRON	10000		7532	MG/KG	**20500**	**29000**	**27800**	**33100**	**24300**	**35300**
LEAD	800		22500	MG/KG	36.1	7.3	8.8	13.7	9.3	11.5
LITHIUM	2000			MG/KG	21.3	24.6	22.2	25	22.9	30.4
MAGNESIUM				MG/KG	7310	12000	9210	10300	7860	12400
MANGANESE	1900		19530	MG/KG	575 J	1050	651	1100	522 J	789 J
MERCURY	31		36.53	MG/KG	0.049	0.026 U	0.036 U	0.032 U	0.018 J	0.024 J
MOLYBDENUM	510		3619	MG/KG	1.4 J	5.1 U	4.7 U	4.4 U	0.46 J	4.5 U
NICKEL	2000		602.1	MG/KG	20 J	26.9	25.2	29.7	19.6 J	31 J
POTASSIUM				MG/KG	1720	2990	2120	3080	1530	3540
SELENIUM	510		3001	MG/KG	4.6 U	5.1 U	4.7 U	4.4 U	4.4 U	4.5 U
SILVER	510		420.4	MG/KG	0.14 J	0.054 J	0.054 J	0.052 J	0.055 J	0.27 U
SODIUM				MG/KG	101 J	186 J	139 J	155 J	141 J	910 U
THALLIUM	6.7		750.1	MG/KG	1.8 U	2.1 U	1.9 U	1.8 U	1.7 U	1.8 U
VANADIUM	100		36000	MG/KG	25.1	31.2	33.5	36.4	25.3	38.3
ZINC	10000		124200	MG/KG	1600 J	49	50.5	54.6	46.3 J	60.7 J
General Chemistry										
CYANIDE	1200		2001	MG/KG	0.17 U	0.17 U	0.18 U	0.16 U	0.17 U	0.19 U
PERCENT SOLIDS				%	82	78	78	82	88	73

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999

TABLE 5-13 SUMMARY OF REPORTED CONCE...RATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	UN	UN	UN
				Excavation:	X115	X116	X116	X116	X117	X118
				Sample Name:	C7-CWM-SO-X115-UN01-1.5	C7-CWM-SO-X116-UN01-4.5	C7-CWM-SO-X116-UN02-4.5	C7-CWM-SO-X116-UN03-4.5	C7-CWM-SO-X117-UN01-3	C7-CWM-SO-X118-UN01-4.5
				Sample Depth:	1.5 FT	4.5 FT	4.5 FT	4.5 FT	3 FT	4.5 FT
				Sample Date:	10/10/2006	10/13/2006	10/13/2006	10/13/2006	10/10/2006	10/10/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						

Crit3: Site Specific Soil Screening Levels (SSLs)

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	UN	UN	WW
				Excavation:	X119	X119	X120	X121	X125	
				Sample Name:	C7-CWM-SO-X119-UN01-4.5	C7-CWM-SO-DUP18	C7-CWM-SO-X120-UN01-4.5	C7-CWM-SO-X121-UN01-12	C7-CWM-SO-X125-UN02-1	C1-NH-SO-BP7A
				Sample Depth:	4.5 FT	4.5 FT	4.5 FT	12 FT	1 FT	5.5 FT
				Sample Date:	10/10/2006	10/10/2006	10/10/2006	10/12/2006	10/12/2006	10/3/2000
				Parent Name:		C7-CWM-SO-X119-UN01-4.5				
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	4619	UG/KG	6.0 U	8.8 U	5.4 U	5.8 U	6.5 U	4 U
1,1-DICHLOROETHANE	170000	800000	2047	UG/KG	6.0 U	8.8 U	5.4 U	5.8 U	6.5 U	4 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG	6.0 U	8.8 U	5.4 U	5.8 U	6.5 U	
1,3-DICHLOROBENZENE	60000		6796	UG/KG	6.0 U	8.8 U	5.4 U	5.8 U	6.5 U	
1,4-DICHLOROBENZENE	7900		6790	UG/KG	6.0 U	8.8 U	5.4 U	5.8 U	6.5 U	
2-BUTANONE	11000000	400000	6476	UG/KG	12 U	18 U	11 U	12 U	13 U	9 U
ACETONE	5400000	800000	5514	UG/KG	12 U	18 U	11 U	12 U	13 U	9 U
BENZENE	1400	24000	453.8	UG/KG	6.0 U	8.8 U	5.4 U	5.8 U	6.5 U	1 J
CARBON DISULFIDE	72000	800000	32890	UG/KG	6.0 U	8.8 U	5.4 U	5.8 U	6.5 U	4 U
CHLOROFORM	470	80000	2770	UG/KG	6.0 U	8.8 U	5.4 U	5.8 U	6.5 U	4 U
CIS-1,2-DICHLOROETHENE	15000	80000	1575	UG/KG	6.0 U	8.8 U	5.4 U	5.8 U	6.5 U	4 U
ISOPROPYLBENZENE	200000		21090	UG/KG	6.0 U	8.8 U	5.4 U	5.8 U	6.5 U	
M+P-XYLENE	42000	20000000		UG/KG	6.0 U	8.8 U	5.4 U	5.8 U	6.5 U	
METHYLENE CHLORIDE	21000	93000	862.5	UG/KG	12 U	18 U	11 U	2.3 J	13 J	4 U
TETRACHLOROETHENE	1300	14000	7858	UG/KG	6.0 U	8.8 U	5.4 U	5.8 U	6.5 U	4 U
TOLUENE	52000	2000000	4226	UG/KG	6.0 U	8.8 U	5.4 U	5.8 U	6.5 U	4 U
TRANS-1,2-DICHLOROETHENE	23000	200000	1811	UG/KG	6.0 U	8.8 U	5.4 U	5.8 U	6.5 U	4 U
TRICHLOROETHYLENE	6500	64000	3227	UG/KG	6.0 U	8.8 U	5.4 U	5.8 U	6.5 U	4 U
VINYL CHLORIDE	750	360	794.4	UG/KG	12 U	18 U	11 U	12 U	13 U	4 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		18270	UG/KG	9.2 U	9.2 U	8.2 U	8.7 U	8.9 U	85 U
1,2-BENZPHENANTHRACENE	210000		3943	UG/KG	16	10	5.7 J	8.7 U	4.9 J	160
1,2-DICHLOROBENZENE	60000		6914	UG/KG						62 U
1,3-DICHLOROBENZENE	60000		6796	UG/KG						82 U
1,4-DICHLOROBENZENE	7900		6790	UG/KG						83 U
2-METHYLNAPHTHALENE	19000		147800	UG/KG	9.2 U	9.2 U	8.2 U	8.7 U	8.9 U	160 J
ACENAPHTHENE	2900000	500000	485100	UG/KG	9.2 U	9.2 U	8.2 U	8.7 U	8.9 U	310 J
ACENAPHTHYLENE	2900000		199500	UG/KG	9.2 U	9.2 U	8.2 U	8.7 U	8.9 U	26 U
ANTHRACENE	10000000	2000000	5919000	UG/KG	5 J	2.3 J	8.2 U	8.7 U	1.8 J	75
BENZ[A]ANTHRACENE	2100	224	3923	UG/KG	21	8.3 J	2.4 J	4.8 J	8.9 U	130
BENZO[A]PYRENE	210	60.9		UG/KG	12	7.4 J	4.5 J	8.7 U	4 J	92
BENZO[B]FLUORANTHENE	2100	224	12120	UG/KG	22	10	3.7 J	2.6 J	7.6 J	100 J
BENZO[GHI]PERYLENE	2900000			UG/KG	6.4 J	9.2 U	8.2 U	8.7 U	8.9 U	47
BENZO[K]FLUORANTHENE	21000	224	12120	UG/KG	9.2 U	4.6 J	8.2 U	8.7 U	8.9 U	54

TABLE 5-13 SUMMARY OF REPORTED CONC... RATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	UN	UN	WW
				Excavation:	X119	X119	X120	X121	X125	
				Sample Name:	C7-CWM-SO-X119-UN01-4.5	C7-CWM-SO-DUP18	C7-CWM-SO-X120-UN01-4.5	C7-CWM-SO-X121-UN01-12	C7-CWM-SO-X125-UN02-1	C1-NH-SO-BP7A
				Sample Depth:	4.5 FT	4.5 FT	4.5 FT	12 FT	1 FT	5.5 FT
				Sample Date:	10/10/2006	10/10/2006	10/10/2006	10/12/2006	10/12/2006	10/3/2000
				Parent Name:		C7-CWM-SO-X119-UN01-4.5				
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	372100000	UG/KG	9.2 U	9.2 U	8.2 U	8.7 U	8.9 U	60 U
CARBAZOLE	86000		1135	UG/KG	9.2 U	9.2 U	8.2 U	8.7 U	8.9 U	72
DIBENZ[A,H]ANTHRACENE	210	14.3	172300	UG/KG	9.2 U	9.2 U	8.2 U	8.7 U	8.9 U	28 J
DIBENZOFURAN	160000		462500	UG/KG	9.2 U	9.2 U	8.2 U	8.7 U	8.9 U	83 U
DIETHYL PHTHALATE	10000000	6000000		UG/KG	9.2 U	9.2 U	8.2 U	8.7 U	8.9 U	54 U
DI-N-BUTYL PHTHALATE	6200000	800000	8358000	UG/KG	9.2 U	9.2 U	8.2 U	8.7 U	8.9 U	52 U
FLUORANTHENE	2200000	300000	26370000	UG/KG	35	16	4.5 J	3.9 J	13	450
FLUORENE	2600000	300000	1952000	UG/KG	9.2 U	9.2 U	8.2 U	8.7 U	8.9 U	40
HEXACHLORO-1,3-BUTADIENE	18000		132400	UG/KG	9.2 U	9.2 U	8.2 U	8.7 U	8.9 U	76 U
HEXACHLOROBENZENE	1100	410	10850	UG/KG	9.2 U	9.2 U	8.2 U	8.7 U	8.9 U	67 U
HEXACHLOROCYCLOPENTADIENE	370000		42590	UG/KG	23 U	23 U	20 U	22 U	22 U	150 U
INDENO[1,2,3-CD]PYRENE	2100		34200	UG/KG	5.5 J	3.7 J	8.2 U	8.7 U	8.9 U	53
ISOPHORONE	510000	1707000	28020	UG/KG	9.2 U	9.2 U	8.2 U	8.7 U	8.9 U	92 U
NAPHTHALENE	19000	30000	60240	UG/KG	9.2 U	9.2 U	8.2 U	8.7 U	8.9 U	18 U
PHENANTHRENE	19000		1189000	UG/KG	9.2 J	6.4 J	2.8 J	1.7 J	15 J	390
PHENOL	10000000	5000000	250.1	UG/KG	46 U	46 U	41 U	44 U	45 U	75 U
PYRENE	2900000	200000	16760000	UG/KG	33	16	5.3 J	3.5 J	11	340
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	6608000	UG/KG	2.3 U	2.3 U	2.0 U	2.2 U	2.2 U	0.47 U
4,4'-DDE	7000	2100	2592000	UG/KG	2.3 U	2.3 U	2.0 U	2.2 U	0.83 J	0.45 U
4,4'-DDT	7000	2100	85.5	UG/KG	2.3 U	2.3 U	2.0 U	2.2 U	0.5 J	0.74 U
ALPHA-CHLORDANE	6500		29570	UG/KG	2.3 U	2.3 U	2.0 U	2.2 U	2.2 U	0.79 U
AROCLOR 1232	740	1000	45780	UG/KG	23 U	23 U	20 U	22 U	22 U	13 U
AROCLOR 1254	740	1000	335400	UG/KG	23 U	23 U	20 U	22 U	22 U	8.8 U
AROCLOR 1260	740	1000	918200	UG/KG	23 U	23 U	20 U	22 U	22 U	5.5 U
BETA-BHC	1300	3890	252.7	UG/KG	2.3 U	2.3 U	2.0 U	2.2 U	2.2 U	0.55 U
DELTA-BHC	360		2320	UG/KG	2.3 U	2.3 U	2.0 U	2.2 U	2.2 U	0.55 U
DIELDRIN	110	44	422.3	UG/KG	2.3 U	2.3 U	2.0 U	2.2 U	2.2 U	0.48 U
ENDOSULFAN I	370000		2344000	UG/KG	2.3 U	2.3 U	2.0 U	2.2 U	2.2 U	1.5 J
ENDOSULFAN II	370000		2344000	UG/KG	2.3 U	2.3 U	2.0 U	2.2 U	2.2 U	0.4 U
ENDRIN	18000	20000	667900	UG/KG	2.3 U	2.3 U	2.0 U	2.2 U	2.2 U	1.7 U
ENDRIN ALDEHYDE	18000		303600	UG/KG	2.3 U	2.6 J	2.0 U	2.2 U	2.2 U	1.1 U
GAMMA-BHC	1700	2000	269	UG/KG	2.3 U	2.3 U	2.0 U	2.2 U	2.2 U	0.51 U
HEPTACHLOR EPOXIDE	190	77	12300	UG/KG	2.3 U	2.3 U	2.0 U	2.2 U	2.2 U	1.5 J
Explosives (8330)										

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	UN	UN	WW
				Excavation:	X119	X119	X120	X121	X125	
				Sample Name:	C7-CWM-SO-X119-UN01-4.5	C7-CWM-SO-DUP18	C7-CWM-SO-X120-UN01-4.5	C7-CWM-SO-X121-UN01-12	C7-CWM-SO-X125-UN02-1	C1-NH-SO-BP7A
				Sample Depth:	4.5 FT	4.5 FT	4.5 FT	12 FT	1 FT	5.5 FT
				Sample Date:	10/10/2006	10/10/2006	10/10/2006	10/12/2006	10/12/2006	10/3/2000
				Parent Name:		C7-CWM-SO-X119-UN01-4.5				
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
NITROBENZENE	10000	4000	419	UG/KG	34 J	30 J	61 J	67 J	29 J	120 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		54000000	MG/KG	16600	14400	15500	8700	21300	7100
ANTIMONY	41		135.3	MG/KG	0.97 U	0.93 U	0.80 U	.91 U	1 U	0.64 J
ARSENIC	1.6		5003	MG/KG	3.4 J	4 J	2 J	5.9	4.6	3.3
BARIUM	6700		41110	MG/KG	200 J	121 J	80.4	77.4 J	185 J	67.8
BERYLLIUM	190		2370	MG/KG	0.79	0.7	0.71	0.4	1.2	0.36 J
BORON	10000		3107	MG/KG	10.3 J	5.9 J	9.2 J	18.3 U	20.7 U	3.3 J
CADMIUM	45		375.5	MG/KG	0.2 J	0.16 J	0.13 J	0.18 J	0.57	0.094 J
CALCIUM				MG/KG	50800	39600	47700	62900	31600	27200
CHROMIUM	64		90000000	MG/KG	22.4	19.4	20.4	14.9	26.9	17 J
COBALT	1900		32930	MG/KG	11.5	8.3	10.3	8.4	10.3	6.6
COPPER	4100		85620	MG/KG	31.7 J	23.4 J	21.3 J	27.1	40.8	20.9
IRON	10000		7532	MG/KG	28500	22200	22200	20700	28100	15300
LEAD	800		22500	MG/KG	7.8	7.1	7	5.2	13.9	4.8
LITHIUM	2000			MG/KG	26.8	22.2	25.4	15.2	23.2	12.7
MAGNESIUM				MG/KG	10000 J	7770 J	9880	12500	7340	5150 J
MANGANESE	1900		19530	MG/KG	786 J	465 J	678 J	763	372	576
MERCURY	31		36.53	MG/KG	0.011 J	.039 U	0.016 J	0.011 J	0.042	0.013 J
MOLYBDENUM	510		3619	MG/KG	0.5 J	4.6 U	4.0 U	4.6 U	5.2 U	
NICKEL	2000		602.1	MG/KG	25.7 J	22.6 J	23.1 J	17.2	29.3	12
POTASSIUM				MG/KG	3120 J	930 U	2890	915 U	1040 U	735
SELENIUM	510		3001	MG/KG	4.8 U	4.6 U	4.0 U	4.6 U	1	0.23 U
SILVER	510		420.4	MG/KG	0.034 J	0.28 U	0.24 U	0.046 J	0.068 J	0.11 U
SODIUM				MG/KG	589 J	930 U	800 U	210 J	175 J	176 J
THALLIUM	6.7		750.1	MG/KG	0.2 J	1.9 U	1.6 U	1.8 U	2.1 U	0.43 U
VANADIUM	100		36000	MG/KG	33.3	29.4	28	24.2 J	39.3 J	16
ZINC	10000		124200	MG/KG	55 J	52.4 J	47.7 J	37.7 J	59.1 J	34.3 J
General Chemistry										
CYANIDE	1200		2001	MG/KG	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	0.072 U
PERCENT SOLIDS				%	73	72	82	76	75	89.7

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999

TABLE 5-13 SUMMARY OF REPORTED CONC[illegible]TRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	UN	UN	WW
				Excavation:	X119	X119	X120	X121	X125	
				Sample Name:	C7-CWM-SO-X119-UN01-4.5	C7-CWM-SO-DUP18	C7-CWM-SO-X120-UN01-4.5	C7-CWM-SO-X121-UN01-12	C7-CWM-SO-X125-UN02-1	C1-NH-SO-BP7A
				Sample Depth:	4.5 FT	4.5 FT	4.5 FT	12 FT	1 FT	5.5 FT
				Sample Date:	10/10/2006	10/10/2006	10/10/2006	10/12/2006	10/12/2006	10/3/2000
				Parent Name:		C7-CWM-SO-X119-UN01-4.5				
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						

Crit3: Site Specific Soil Screening Levels (SSLs)

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW	WW	WW	WW	WW	WW
				Excavation:				X03	X04	X07
				Sample Name:	C1-NH-SO-BP8A	C1-NH-SO-BP10A	C1-NH-SO-BP12A	C7-CWM-SO-X03-WW01-7	C7-CWM-SO-X04-WW01-4.5	C7-CWM-SO-X07-WW01-7.5
				Sample Depth:	5.5 FT	5.5 FT	5.5 FT	7 FT	4.5 FT	7.5 FT
				Sample Date:	10/3/2000	10/3/2000	10/3/2000	8/21/2006	8/21/2006	8/22/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	4619	UG/KG	5 U	4 U	5 U	4.5 U	5.2 U	5.1 U
1,1-DICHLOROETHANE	170000	800000	2047	UG/KG	5 U	4 U	5 U	4.5 U	5.2 U	5.1 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG				4.5 U	5.2 U	5.1 U
1,3-DICHLOROBENZENE	60000		6796	UG/KG				4.5 U	5.2 U	5.1 U
1,4-DICHLOROBENZENE	7900		6790	UG/KG				4.5 U	5.2 U	5.1 U
2-BUTANONE	11000000	400000	6476	UG/KG	10 U	10	12	8.9 U	10 U	34
ACETONE	5400000	800000	5514	UG/KG	10 U	9 U	10 U	8.9 U	10 U	130
BENZENE	1400	24000	453.8	UG/KG	5 U	2 J	2 J	4.5 U	5.2 U	5.1 U
CARBON DISULFIDE	72000	800000	32890	UG/KG	5 U	1 J	5 U	9.6	5.2 U	5.1 U
CHLOROFORM	470	80000	2770	UG/KG	5 U	4 U	5 U	4.5 U	5.2 U	5.1 U
CIS-1,2-DICHLOROETHENE	15000	80000	1575	UG/KG	5 U	4 U	5 U	4.5 U	5.2 U	5.1 U
ISOPROPYLBENZENE	200000		21090	UG/KG				4.5 U	5.2 U	5.1 U
M+P-XYLENE	42000	20000000		UG/KG				4.5 U	5.2 U	1.9 J
METHYLENE CHLORIDE	21000	93000	862.5	UG/KG	5 U	4 U	5 U	8.9 U	10 U	10 U
TETRACHLOROETHENE	1300	14000	7858	UG/KG	5 U	4 U	5 U	4.5 U	5.2 U	5.1 U
TOLUENE	52000	2000000	4226	UG/KG	5 U	4 U	5 U	4.5 U	5.2 U	5.1 U
TRANS-1,2-DICHLOROETHENE	23000	200000	1811	UG/KG	5 U	4 U	5 U	4.5 U	5.2 U	5.1 U
TRICHLOROETHYLENE	6500	64000	3227	UG/KG	5 U	4 U	5 U	4.5 U	5.2 U	5.1 U
VINYL CHLORIDE	750	360	794.4	UG/KG	5 U	4 U	5 U	8.9 U	10 U	10 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		18270	UG/KG	83 U	83 U	85 U	8.0 U	8.6 U	8.0 U
1,2-BENZPHENANTHRACENE	210000		3943	UG/KG	1100	140	3.9 J	16 J	220 J	8.0 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG	59 U	60 U	62 U			
1,3-DICHLOROBENZENE	60000		6796	UG/KG	79 U	80 U	82 U			
1,4-DICHLOROBENZENE	7900		6790	UG/KG	80 U	81 U	83 U			
2-METHYLNAPHTHALENE	19000		147800	UG/KG	960 J	120 J	18 U	8.0 U	10	8.0 U
ACENAPHTHENE	2900000	500000	485100	UG/KG	1600 J	200 J	16 U	8.0 U	74 J	8.0 U
ACENAPHTHYLENE	2900000		199500	UG/KG	26 U	25 U	26 U	8.0 U	8.6 U	8.0 U
ANTHRACENE	10000000	2000000	5919000	UG/KG	190	36	2.6 U	5.6 J	380 J	8.0 U
BENZ[A]ANTHRACENE	2100	224	3923	UG/KG	600	110	2.6 U	11 J	270 J	8.0 U
BENZO[A]PYRENE	210	60.9		UG/KG	**380 J**	80	2.3 U	18	170	8.0 U
BENZO[B]FLUORANTHENE	2100	224	12120	UG/KG	750	87	3.2 U	8.0 U	230 J	8.0 U
BENZO[GHI]PERYLENE	2900000			UG/KG	300 J	56 J	3.8 U	31	74	8.0 U
BENZO[K]FLUORANTHENE	21000	224	12120	UG/KG	330 J	46	1.4 U	8.0 U	87	8.0 U

				Line Type:	WW	WW	WW	WW	WW	WW
				Excavation:				X03	X04	X07
				Sample Name:	C1-NH-SO-BP8A	C1-NH-SO-BP10A	C1-NH-SO-BP12A	C7-CWM-SO-X03-WW01-7	C7-CWM-SO-X04-WW01-4.5	C7-CWM-SO-X07-WW01-7.5
				Sample Depth:	5.5 FT	5.5 FT	5.5 FT	7 FT	4.5 FT	7.5 FT
				Sample Date:	10/3/2000	10/3/2000	10/3/2000	8/21/2006	8/21/2006	8/22/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	372100000	UG/KG	58 U	59 U	60 U	8.0 U	8.6 U	8.0 U
CARBAZOLE	86000		1135	UG/KG	88	51 U	52 U	8.0 U	150 J	8.0 U
DIBENZ[A,H]ANTHRACENE	210	14.3	172300	UG/KG	160 J	20 J	4 U	8.0 U	26	8.0 U
DIBENZOFURAN	160000		462500	UG/KG	80 U	81 U	83 U	8.0 U	62 J	8.0 U
DIETHYL PHTHALATE	10000000	6000000		UG/KG	52 U	52 U	54 U	8.0 U	8.6 U	8.0 U
DI-N-BUTYL PHTHALATE	6200000	800000	8358000	UG/KG	51 U	51 U	52 U	8.0 U	8.6 U	8.0 U
FLUORANTHENE	2200000	300000	26370000	UG/KG	2300	290	3.3 U	17 J	730 J	2.8 J
FLUORENE	2600000	300000	1952000	UG/KG	48 J	17	3.8 U	7.2 J	150	8.0 U
HEXACHLORO-1,3-BUTADIENE	18000		132400	UG/KG	74 U	74 U	76 U	8.0 U	8.6 U	8.0 U
HEXACHLOROBENZENE	1100	410	10850	UG/KG	65 U	65 U	67 U	8.0 U	8.6 U	8.0 U
HEXACHLOROCYCLOPENTADIENE	370000		42590	UG/KG	140 U	140 U	150 U	8.0 U	8.6 U	8.0 U
INDENO[1,2,3-CD]PYRENE	2100		34200	UG/KG	300	47	1.6 U	8.0 U	77	8.0 U
ISOPHORONE	510000	1707000	28020	UG/KG	89 U	90 U	92 U	10	8.6 U	8.0 U
NAPHTHALENE	19000	30000	60240	UG/KG	18 U	18 U	18 U	8.0 U	23 J	8.0 U
PHENANTHRENE	19000		1189000	UG/KG	1400	140	2.1 U	20 J	810 J	3.2 J
PHENOL	10000000	5000000	250.1	UG/KG	73 U	73 U	75 U	40 U	43 U	40 U
PYRENE	2900000	200000	16760000	UG/KG	1900	260	3.5 U	22 J	440 J	8.0 U
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	6608000	UG/KG	0.47 U	0.46 U	0.47 U	2.0 U	2.2 U	2.0 U
4,4'-DDE	7000	2100	2592000	UG/KG	0.6 J	0.6	0.44 U	2.0 U	2.2 U	2.0 U
4,4'-DDT	7000	2100	85.5	UG/KG	0.73 U	0.72 U	0.73 U	2.0 U	2.2 U	2.0 U
ALPHA-CHLORDANE	6500		29570	UG/KG	0.78 U	0.76 U	0.78 U	2.0 U	2.2 U	2.0 U
AROCLOR 1232	740	1000	45780	UG/KG	13 U	13 U	13 U	20 U	22 U	20 U
AROCLOR 1254	740	1000	335400	UG/KG	8.7 U	8.5 U	8.7 U	20 U	22 U	20 U
AROCLOR 1260	740	1000	918200	UG/KG	5.4 U	5.3 U	5.4 U	20 U	22 U	20 U
BETA-BHC	1300	3890	252.7	UG/KG	0.54 U	0.53 U	0.54 U	2.0 U	2.2 U	2.0 U
DELTA-BHC	360		2320	UG/KG	0.54 U	0.53 U	0.54 U	2.0 U	2.2 U	0.38 J
DIELDRIN	110	44	422.3	UG/KG	0.48 U	0.47 U	0.48 U	2.0 U	2.2 U	2.0 U
ENDOSULFAN I	370000		2344000	UG/KG	0.8 U	0.78 U	0.8 U	2.0 U	2.2 U	2.0 U
ENDOSULFAN II	370000		2344000	UG/KG	0.4 U	0.39 U	0.4 U	2.0 U	2.2 U	2.0 U
ENDRIN	18000	20000	667900	UG/KG	1.7 U	1.6 U	1.7 U	2.0 U	2.2 U	2.0 U
ENDRIN ALDEHYDE	18000		303600	UG/KG	1 U	1 U	1 U	2.0 U	2.2 U	2.0 U
GAMMA-BHC	1700	2000	269	UG/KG	0.5 U	0.49 U	0.5 U	2.0 U	2.2 U	2.0 U
HEPTACHLOR EPOXIDE	190	77	12300	UG/KG	2.1 J	0.88 U	0.9 U	2.0 U	2.2 U	2.0 U
Explosives (8330)										

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW	WW	WW	WW	WW	WW
				Excavation:				X03	X04	X07
				Sample Name:	C1-NH-SO-BP8A	C1-NH-SO-BP10A	C1-NH-SO-BP12A	C7-CWM-SO-X03-WW01-7	C7-CWM-SO-X04-WW01-4.5	C7-CWM-SO-X07-WW01-7.5
				Sample Depth:	5.5 FT	5.5 FT	5.5 FT	7 FT	4.5 FT	7.5 FT
				Sample Date:	10/3/2000	10/3/2000	10/3/2000	8/21/2006	8/21/2006	8/22/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
NITROBENZENE	10000	4000	419	UG/KG	120 U	120 U	120 U	100 U	99 U	100 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		54000000	MG/KG	7130	7060	8080	**12100**	**13600**	**14600**
ANTIMONY	41		135.3	MG/KG	0.62 J	0.39 J	0.36 J	.87 U	.98 U	0.15 J
ARSENIC	1.6		5003	MG/KG	**3.1**	**2.8**	**3.4**	**3.6 J**	**3.7 J**	**3.3 J**
BARIUM	6700		41110	MG/KG	73	69.6	82.6	107 J	131 J	145 J
BERYLLIUM	190		2370	MG/KG	0.37 J	0.34 J	0.39 J	0.6	0.66	0.74
BORON	10000		3107	MG/KG	3.1 J	3.7 J	2.7 J	17.4 U	19.7 U	17.8 U
CADMIUM	45		375.5	MG/KG	0.094 J	0.069 J	15.2	0.21 J	0.27 J	0.27 J
CALCIUM				MG/KG	32600	21600	30400	42500	28700	33500
CHROMIUM	64		90000000	MG/KG	10.8 J	9.8 J	11.1 J	18.5 J	16.6 J	18.8
COBALT	1900		32930	MG/KG	6.8	5.9	6.6	9.3	7.6	9.9
COPPER	4100		85620	MG/KG	21.3	20.9	22.2	26.2	24.3	30.7
IRON	10000		7532	MG/KG	**15400**	**13800**	**16800**	**22900**	**20000**	**23000**
LEAD	800		22500	MG/KG	4.3	10.2	11.9	6.4	8.3	7.3
LITHIUM	2000			MG/KG	13.6	11.8	13.3	23.7	23.7	22.7
MAGNESIUM				MG/KG	6290 J	4010 J	5000 J	9010	6310	7880
MANGANESE	1900		19530	MG/KG	554	575	460	759	437	931
MERCURY	31		36.53	MG/KG	0.024 J	0.027 J	0.032 J	0.014 J	0.058	0.032 J
MOLYBDENUM	510		3619	MG/KG				0.82 J	0.44 J	0.49 J
NICKEL	2000		602.1	MG/KG	12.1	9.6	11.6	20	17.2	21.1
POTASSIUM				MG/KG	1140	710	768	1880 J	1490 J	1960 J
SELENIUM	510		3001	MG/KG	0.23 U	0.23 U	0.23 U	4.3 U	1.3 J	4.5 U
SILVER	510		420.4	MG/KG	0.11 U	0.1 U	0.1 U	0.045 J	0.042 J	0.043 J
SODIUM				MG/KG	199 J	116 J	182 J	868 U	983 U	301 J
THALLIUM	6.7		750.1	MG/KG	0.43 U	0.42 U	0.43 U	1.7 U	2 U	1.8 U
VANADIUM	100		36000	MG/KG	16.6	15.4	18.2	26.3	28	30
ZINC	10000		124200	MG/KG	32.2 J	34.8 J	2280 J	44.7 J	44.5 J	48.9 J
General Chemistry										
CYANIDE	1200		2001	MG/KG	0.069 U	0.07 U	0.071 U	0.17 U	0.19 U	0.16 U
PERCENT SOLIDS				%	89.8	92	91	83	77	84

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999

TABLE 5-13 SUMMARY OF REPORTED CONC[illegible]RATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW	WW	WW	WW	WW	WW
				Excavation:				X03	X04	X07
				Sample Name:	C1-NH-SO-BP8A	C1-NH-SO-BP10A	C1-NH-SO-BP12A	C7-CWM-SO-X03-WW01-7	C7-CWM-SO-X04-WW01-4.5	C7-CWM-SO-X07-WW01-7.5
				Sample Depth:	5.5 FT	5.5 FT	5.5 FT	7 FT	4.5 FT	7.5 FT
				Sample Date:	10/3/2000	10/3/2000	10/3/2000	8/21/2006	8/21/2006	8/22/2006
				Parent Name:						
Analyte	Crit1	Crit2	Crit3	Unit						

Crit3: Site Specific Soil Screening Levels (SSLs)

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW	WW	WW	WW	WW	WW
				Excavation:	X12	X15	X16	X16	X17	X17
				Sample Name:	C7-CWM-SO-X12-WW01-3	C7-CWM-SO-X15-WW01-3.5	C7-CWM-SO-X16-WW01-3	C7-CWM-SO-X16-WW02-4.5	C7-CWM-SO-X17-WW01-3.5	C7-CWM-SO-X17-WW02-5
				Sample Depth:	3 FT	3.5 FT	3.5 FT	4.5 FT	3.5 FT	5 FT
				Sample Date:	8/23/2006	8/24/2006	8/25/2006	8/25/2006	8/25/2006	8/25/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	4619	UG/KG	5.2 U	4.9 U	5.7 U	5.5 U	5.5 U	5.9 U
1,1-DICHLOROETHANE	170000	800000	2047	UG/KG	5.2 U	4.9 U	5.7 U	5.5 U	5.5 U	5.9 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG	5.2 U	4.9 U	5.7 U	5.5 U	5.5 U	5.9 U
1,3-DICHLOROBENZENE	60000		6796	UG/KG	5.2 U	4.9 U	5.7 U	5.5 U	5.5 U	5.9 U
1,4-DICHLOROBENZENE	7900		6790	UG/KG	5.2 U	4.9 U	5.7 U	5.5 U	5.5 U	5.9 U
2-BUTANONE	11000000	400000	6476	UG/KG	10 U	9.9 U	11 U	11 U	11 U	12 U
ACETONE	5400000	800000	5514	UG/KG	10 U	9.9 U	11 U	11 U	11 U	12 U
BENZENE	1400	24000	453.8	UG/KG	5.2 U	4.9 U	5.7 U	5.5 U	5.5 U	5.9 U
CARBON DISULFIDE	72000	800000	32890	UG/KG	5.2 U	4.9 U	5.7 U	5.5 U	5.5 U	5.9 U
CHLOROFORM	470	80000	2770	UG/KG	1.2 J	4.9 U	5.7 U	5.5 U	1.1 J	1.6 J
CIS-1,2-DICHLOROETHENE	15000	80000	1575	UG/KG	5.2 U	4.9 U	5.7 U	5.5 U	5.5 U	5.9 U
ISOPROPYLBENZENE	200000		21090	UG/KG	5.2 U	4.9 U	5.7 U	5.5 U	5.5 U	5.9 U
M+P-XYLENE	42000	20000000		UG/KG	5.2 U	4.9 U	1.4 J	1.5 J	1.2 J	5.9 U
METHYLENE CHLORIDE	21000	93000	862.5	UG/KG	10 U	9.9 U	2 J	2 J	1.8 J	3 J
TETRACHLOROETHENE	1300	14000	7858	UG/KG	5.2 U	4.9 U	5.7 U	5.5 U	5.5 U	17
TOLUENE	52000	2000000	4226	UG/KG	5.2 U	4.9 U	5.7 U	5.5 U	5.5 U	1.3 J
TRANS-1,2-DICHLOROETHENE	23000	200000	1811	UG/KG	5.2 U	4.9 U	5.7 U	5.5 U	5.5 U	5.9 U
TRICHLOROETHYLENE	6500	64000	3227	UG/KG	5.2 U	4.9 U	5.7 U	5.5 U	2.8 J	4.3 J
VINYL CHLORIDE	750	360	794.4	UG/KG	10 U	9.9 U	11 U	11 U	11 U	2.3 J
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		18270	UG/KG	7.3 U	7.3 U	7.5 U	7.4 U	8.1 U	7.8 U
1,2-BENZPHENANTHRACENE	210000		3943	UG/KG	120	150	120	670	8.1 U	74
1,2-DICHLOROBENZENE	60000		6914	UG/KG						
1,3-DICHLOROBENZENE	60000		6796	UG/KG						
1,4-DICHLOROBENZENE	7900		6790	UG/KG						
2-METHYLNAPHTHALENE	19000		147800	UG/KG	7.7	7.3 U	2.6 J	50	8.1 U	8.2
ACENAPHTHENE	2900000	500000	485100	UG/KG	22	90	23	400 J	8.1 U	7.8 U
ACENAPHTHYLENE	2900000		199500	UG/KG	7.3 U	7.3 U	7.5 U	7.4 U	8.1 U	7.8 U
ANTHRACENE	10000000	2000000	5919000	UG/KG	74	460	39	440	8.1 U	7 J
BENZ[A]ANTHRACENE	2100	224	3923	UG/KG	100	1200	160	1500	8.1 U	120
BENZO[A]PYRENE	210	60.9		UG/KG	80	**480**	130	**700**	8.1 U	120
BENZO[B]FLUORANTHENE	2100	224	12120	UG/KG	87	450	210	210	8.1 U	93
BENZO[GHI]PERYLENE	2900000			UG/KG	42	320	73	550	8.1 U	88
BENZO[K]FLUORANTHENE	21000	224	12120	UG/KG	60 J	300 J	7.5 U	1300	8.1 U	140 J

TABLE 5-13 SUMMARY OF REPORTED CONC[illegible]TRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW	WW	WW	WW	WW	WW
				Excavation:	X12	X15	X16	X16	X17	X17
				Sample Name:	C7-CWM-SO-X12-WW01-3	C7-CWM-SO-X15-WW01-3.5	C7-CWM-SO-X16-WW01-3	C7-CWM-SO-X16-WW02-4.5	C7-CWM-SO-X17-WW01-3.5	C7-CWM-SO-X17-WW02-5
				Sample Depth:	3 FT	3.5 FT	3.5 FT	4.5 FT	3.5 FT	5 FT
				Sample Date:	8/23/2006	8/24/2006	8/25/2006	8/25/2006	8/25/2006	8/25/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	372100000	UG/KG	7.3 U	7.3 U	7.5 U	7.4 U	8.1 U	7.8 U
CARBAZOLE	86000		1135	UG/KG	39	110	24	240	8.1 U	7.8 U
DIBENZ[A,H]ANTHRACENE	210	14.3	172300	UG/KG	7.3 U	80	17	130	8.1 U	7.8 U
DIBENZOFURAN	160000		462500	UG/KG	12	33	8.3	120	8.1 U	7.8 U
DIETHYL PHTHALATE	10000000	6000000		UG/KG	7.3 U	7.3 U	7.5 U	7.4 U	8.1 U	7.8 U
DI-N-BUTYL PHTHALATE	6200000	800000	8358000	UG/KG	7.3 U	7.3 U	7.5 U	7.4 U	8.1 U	7.8 U
FLUORANTHENE	2200000	300000	26370000	UG/KG	200	1800	210	700	8.1 U	61
FLUORENE	2600000	300000	1952000	UG/KG	24	150	15	240	8.1 U	7.8 U
HEXACHLORO-1,3-BUTADIENE	18000		132400	UG/KG	7.3 U	7.3 U	7.5 U	7.4 U	8.1 U	7.8 U
HEXACHLOROBENZENE	1100	410	10850	UG/KG	7.3 U	7.3 U	7.5 U	7.4 U	8.1 U	7.8 U
HEXACHLOROCYCLOPENTADIENE	370000		42590	UG/KG	18 U	18 U	19 U	18 U	20 U	20 U
INDENO[1,2,3-CD]PYRENE	2100		34200	UG/KG	41	310	70	530	8.1 U	81
ISOPHORONE	510000	1707000	28020	UG/KG	7.3 U	7.3 U	7.5 U	7.4 U	8.1 U	7.8 U
NAPHTHALENE	19000	30000	60240	UG/KG	4.8 J	5.1 J	6.8 J	120	8.1 U	7.8 U
PHENANTHRENE	19000		1189000	UG/KG	180	1600	120	720	8.1 U	14
PHENOL	10000000	5000000	250.1	UG/KG	37 U	36 U	38 U	37 U	41 U	39 U
PYRENE	2900000	200000	16760000	UG/KG	210	1800	200	1500	8.1 U	79
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	6608000	UG/KG	1.8 U	2.3 NJ	1.9 U	1.8 U	2.0 U	2.0 U
4,4'-DDE	7000	2100	2592000	UG/KG	1.8 U	1.8 U	1.9 U	1.8 U	2.0 U	2.0 U
4,4'-DDT	7000	2100	85.5	UG/KG	1.8 U	3.1 J	1.9 U	1.8 U	2.0 U	2.0 U
ALPHA-CHLORDANE	6500		29570	UG/KG	1.8 U	1.8 U	1.9 U	1.8 U	2.0 U	2.0 U
AROCLOR 1232	740	1000	45780	UG/KG	18 U	18 U	19 U	18 U	20 U	20 U
AROCLOR 1254	740	1000	335400	UG/KG	18 U	18 U	19 U	18 U	20 U	20 U
AROCLOR 1260	740	1000	918200	UG/KG	18 U	18 U	19 U	18 U	20 U	20 U
BETA-BHC	1300	3890	252.7	UG/KG	1.8 U	1.8 U	1.9 U	1.8 U	2.0 U	2.0 U
DELTA-BHC	360		2320	UG/KG	1.8 U	1.8 U	1.9 U	1.8 U	2.0 U	2.0 U
DIELDRIN	110	44	422.3	UG/KG	1.8 U	1.8 U	1.9 U	1.8 U	2.0 U	2.0 U
ENDOSULFAN I	370000		2344000	UG/KG	1.8 U	1.8 U	1.9 U	1.8 U	2.0 U	2.0 U
ENDOSULFAN II	370000		2344000	UG/KG	1.8 U	1.8 U	1.9 U	1.8 U	2.0 U	2.0 U
ENDRIN	18000	20000	667900	UG/KG	1.8 U	1.8 U	1.9 U	1.8 U	2.0 U	2.0 U
ENDRIN ALDEHYDE	18000		303600	UG/KG	1.8 U	1.8 U	1.9 U	1.8 U	2.0 U	2.0 U
GAMMA-BHC	1700	2000	269	UG/KG	1.8 U	1.8 U	1.9 U	1.8 U	2.0 U	2.0 U
HEPTACHLOR EPOXIDE	190	77	12300	UG/KG	1.8 U	1.8 U	1.9 U	1.8 U	2.0 U	2.0 U
Explosives (8330)										

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW	WW	WW	WW	WW	WW
				Excavation:	X12	X15	X16	X16	X17	X17
				Sample Name:	C7-CWM-SO-X12-WW01-3	C7-CWM-SO-X15-WW01-3.5	C7-CWM-SO-X16-WW01-3	C7-CWM-SO-X16-WW02-4.5	C7-CWM-SO-X17-WW01-3.5	C7-CWM-SO-X17-WW02-5
				Sample Depth:	3 FT	3.5 FT	3.5 FT	4.5 FT	3.5 FT	5 FT
				Sample Date:	8/23/2006	8/24/2006	8/25/2006	8/25/2006	8/25/2006	8/25/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
NITROBENZENE	10000	4000	419	UG/KG	99 U	100 U	100 U	99 U	99 U	150
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		54000000	MG/KG	**17900**	**12300**	**12400**	**13200**	6900	**13200**
ANTIMONY	41		135.3	MG/KG	0.18 J	.86 U	.88 U	.9 U	.83 U	.82 U
ARSENIC	1.6		5003	MG/KG	**3.9 J**	**4.3**	**3.6 J**	**3.3 J**	**3.4 J**	**3.1 J**
BARIUM	6700		41110	MG/KG	137 J	126 J	120	145	32	155
BERYLLIUM	190		2370	MG/KG	0.86	0.62	0.58	0.63	0.34	0.62
BORON	10000		3107	MG/KG	17.1 U	17.1 U	17.7 U	18 U	16.7 U	16.4 U
CADMIUM	45		375.5	MG/KG	0.43 J	0.2 J	0.18 J	0.15 J	0.19 J	0.19 J
CALCIUM				MG/KG	5480	34400	17400	40200	2280	43700
CHROMIUM	64		90000000	MG/KG	27.7 J	16.4	16.3	18.2	11.5	17.2
COBALT	1900		32930	MG/KG	12.3	9.3	9.1	9.1	4.5	8.9
COPPER	4100		85620	MG/KG	25.4	24.2	20.7 J	25 J	27.2 J	25 J
IRON	10000		7532	MG/KG	**29300**	**22300**	**27300**	**26000**	**15900**	**24700**
LEAD	800		22500	MG/KG	9.9	10.5	8.8	7.9	4	6.4
LITHIUM	2000			MG/KG	28.7	21.1	18.6	21.4	11.3	22.7
MAGNESIUM				MG/KG	6140	6750	5010	8670	2530	9110
MANGANESE	1900		19530	MG/KG	1030	995	1080	743	476	779
MERCURY	31		36.53	MG/KG	0.049	0.033	0.033	0.025 J	0.017 J	0.027 J
MOLYBDENUM	510		3619	MG/KG	0.46 J	4.3 U	4.4 U	4.5 U	4.2 U	4.1 U
NICKEL	2000		602.1	MG/KG	23.6	18.2	15.8 J	19.7 J	10.3 J	19.1 J
POTASSIUM				MG/KG	1750 J	1620 J	1090 J	1660 J	922 J	2210 J
SELENIUM	510		3001	MG/KG	4.3 U	4.3 U	4.4 U	4.5 U	4.2 U	4.1 U
SILVER	510		420.4	MG/KG	0.051 J	0.049 J	.26 U	.27 U	.25 U	.25 U
SODIUM				MG/KG	857 U	855 U	883 U	898 U	2530	1390
THALLIUM	6.7		750.1	MG/KG	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U	1.6 U
VANADIUM	100		36000	MG/KG	35.9	26.7	25.5	27	17.5	25.9
ZINC	10000		124200	MG/KG	85.9 J	47.9 J	72.9 J	51.8 J	26.9 J	40.8 J
General Chemistry										
CYANIDE	1200		2001	MG/KG	0.15 U	0.15	0.15 U	0.15 U	0.17 U	0.16 U
PERCENT SOLIDS				%	91	91	88	90	82	85

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999

TABLE 5-13 SUMMARY OF REPORTED CONC[illegible]TRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW	WW	WW	WW	WW	WW
				Excavation:	X12	X15	X16	X16	X17	X17
				Sample Name:	C7-CWM-SO-X12-WW01-3	C7-CWM-SO-X15-WW01-3.5	C7-CWM-SO-X16-WW01-3	C7-CWM-SO-X16-WW02-4.5	C7-CWM-SO-X17-WW01-3.5	C7-CWM-SO-X17-WW02-5
				Sample Depth:	3 FT	3.5 FT	3.5 FT	4.5 FT	3.5 FT	5 FT
				Sample Date:	8/23/2006	8/24/2006	8/25/2006	8/25/2006	8/25/2006	8/25/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						

Crit3: Site Specific Soil Screening Levels (SSLs)

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW	WW	WW	WW	WW	WW
				Excavation:	X18	X21	X21	X24	X29	X37
				Sample Name:	C7-CWM-SO-X18-WW01-6	C7-CWM-SO-X21-WW01-4	C7-CWM-SO-X21-WW02-6	C7-CWM-SO-X24-WW01-6	C7-CWM-SO-X29-WW01-4.5	C7-CWM-SO-X37-WW01-6.5
				Sample Depth:	6 FT	4 FT	6 FT	6 FT	4.5 FT	6.5 FT
				Sample Date:	8/25/2006	8/28/2006	8/28/2006	8/29/2006	8/30/2006	9/5/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	4619	UG/KG	5.0 U	5.6 U	5.6 U	5.7 U	5.2 U	5.9 U
1,1-DICHLOROETHANE	170000	800000	2047	UG/KG	5.0 U	5.6 U	5.6 U	5.7 U	1.1 J	2 J
1,2-DICHLOROBENZENE	60000		6914	UG/KG	5.0 U	5.6 U	5.6 U	5.7 U	4 J	34
1,3-DICHLOROBENZENE	60000		6796	UG/KG	5.0 U	5.6 U	5.6 U	5.7 U	1.2 J	86
1,4-DICHLOROBENZENE	7900		6790	UG/KG	5.0 U	5.6 U	5.6 U	5.7 U	1.9 J	17
2-BUTANONE	11000000	400000	6476	UG/KG	7.1 J	11 U	11 U	24 J	10 U	12 U
ACETONE	5400000	800000	5514	UG/KG	40 J	11 U	16 J	71 J	10 U	12 U
BENZENE	1400	24000	453.8	UG/KG	5.0 U	5.6 U	5.6 U	5.7 U	5.2 U	5.9 U
CARBON DISULFIDE	72000	800000	32890	UG/KG	5.0 U	5.6 U	5.6 U	19	5.2 U	5.9 U
CHLOROFORM	470	80000	2770	UG/KG	1.1 J	5.6 U	5.6 U	5.7 U	5.2 U	5.9 U
CIS-1,2-DICHLOROETHENE	15000	80000	1575	UG/KG	5.0 U	5.6 U	5.6 U	5.7 U	100	22
ISOPROPYLBENZENE	200000		21090	UG/KG	5.0 U	5.6 U	5.6 U	5.7 U	5.2 U	5.9 U
M+P-XYLENE	42000	20000000		UG/KG	5.0 U	5.6 U	5.6 U	5.7 U	5.2 U	5.9 U
METHYLENE CHLORIDE	21000	93000	862.5	UG/KG	1.6 J	11 U	11 U	11 U	10 U	12 U
TETRACHLOROETHENE	1300	14000	7858	UG/KG	5.0 U	5.6 U	5.6 U	5.7 U	1.5 J	5.5 J
TOLUENE	52000	2000000	4226	UG/KG	5.0 U	5.6 U	5.6 U	5.7 U	5.2 U	5.9 U
TRANS-1,2-DICHLOROETHENE	23000	200000	1811	UG/KG	5.0 U	5.6 U	5.6 U	5.7 U	5.2 U	2.7 J
TRICHLOROETHYLENE	6500	64000	3227	UG/KG	2.1 J	5.6 U	5.6 U	1.6 J	8.8	9
VINYL CHLORIDE	750	360	794.4	UG/KG	2.5 J	11 U	11 U	11 U	10 U	12 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		18270	UG/KG	8.0 U	8.2 U	8.2 U	8.1 U	120	15000
1,2-BENZPHENANTHRACENE	210000		3943	UG/KG	8.0 U	63	3.7 J	8.1 U	38 U	8.8 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG						
1,3-DICHLOROBENZENE	60000		6796	UG/KG						
1,4-DICHLOROBENZENE	7900		6790	UG/KG						
2-METHYLNAPHTHALENE	19000		147800	UG/KG	8.0 U	8.2 U	8.2 U	8.1 U	38 U	8.8 U
ACENAPHTHENE	2900000	500000	485100	UG/KG	8.0 U	8.2 U	8.2 U	8.1 U	38 U	8.8 U
ACENAPHTHYLENE	2900000		199500	UG/KG	8.0 U	8.2 U	8.2 U	8.1 U	38 U	8.8 U
ANTHRACENE	10000000	2000000	5919000	UG/KG	8.0 U	29	8.2 U	8.1 U	38 U	8.8 U
BENZ[A]ANTHRACENE	2100	224	3923	UG/KG	2.8 J	66	4.1 J	8.1 U	220	8.8 U
BENZO[A]PYRENE	210	60.9		UG/KG	8.0 U	47	8.2 U	8.1 U	150	8.8 U
BENZO[B]FLUORANTHENE	2100	224	12120	UG/KG	8.0 U	73	4.9 J	8.1 U	67	8.8 U
BENZO[GHI]PERYLENE	2900000			UG/KG	8.0 U	22	8.2 U	8.1 U	100	8.8 U
BENZO[K]FLUORANTHENE	21000	224	12120	UG/KG	8.0 U	8.2 U	8.2 U	8.1 U	110 J	8.8 U

TABLE 5-13 SUMMARY OF REPORTED CONCL...RATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW	WW	WW	WW	WW	WW
				Excavation:	X18	X21	X21	X24	X29	X37
				Sample Name:	C7-CWM-SO-X18-WW01-6	C7-CWM-SO-X21-WW01-4	C7-CWM-SO-X21-WW02-6	C7-CWM-SO-X24-WW01-6	C7-CWM-SO-X29-WW01-4.5	C7-CWM-SO-X37-WW01-6.5
				Sample Depth:	6 FT	4 FT	6 FT	6 FT	4.5 FT	6.5 FT
				Sample Date:	8/25/2006	8/28/2006	8/28/2006	8/29/2006	8/30/2006	9/5/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	372100000	UG/KG	8.0 U	8.2 U	8.2 U	15	38 U	310 J
CARBAZOLE	86000		1135	UG/KG	8.0 U	8.2 U	8.2 U	8.1 U	38 U	8.8 U
DIBENZ[A,H]ANTHRACENE	210	14.3	172300	UG/KG	8.0 U	8.2 U	8.2 U	8.1 U	38 U	8.8 U
DIBENZOFURAN	160000		462500	UG/KG	8.0 U	8.2 U	8.2 U	8.1 U	38 U	8.8 U
DIETHYL PHTHALATE	10000000	6000000		UG/KG	8.0 U	8.2 U	8.2 U	8.1 U	38 U	8.8 U
DI-N-BUTYL PHTHALATE	6200000	800000	8358000	UG/KG	8.0 U	8.2 U	8.2 U	8.1 U	38 U	8.8 U
FLUORANTHENE	2200000	300000	26370000	UG/KG	8.0 U	180	4.9 J	8.1 U	27 J	8.8 U
FLUORENE	2600000	300000	1952000	UG/KG	8.0 U	4.5 J	8.2 U	8.1 U	38 U	8.8 U
HEXACHLORO-1,3-BUTADIENE	18000		132400	UG/KG	8.0 U	8.2 U	8.2 U	8.1 U	38 U	12
HEXACHLOROBENZENE	1100	410	10850	UG/KG	8.0 U	8.2 U	8.2 U	8.1 U	38 U	360
HEXACHLOROCYCLOPENTADIENE	370000		42590	UG/KG	20 U	20 U	21 U	8.1 U	38 U	230 J
INDENO[1,2,3-CD]PYRENE	2100		34200	UG/KG	8.0 U	24	8.2 U	8.1 U	72	8.8 U
ISOPHORONE	510000	1707000	28020	UG/KG	8.0 U	8.2 U	8.2 U	8.1 U	38 U	8.8 U
NAPHTHALENE	19000	30000	60240	UG/KG	8.0 U	8.2 U	8.2 U	8.1 U	38 U	8.8 U
PHENANTHRENE	19000		1189000	UG/KG	8.0 U	93	5.3 J	8.1 U	38 U	8.8 U
PHENOL	10000000	5000000	250.1	UG/KG	40 U	41 U	41 U	41 U	74 J	44 U
PYRENE	2900000	200000	16760000	UG/KG	8.0 U	170	4.5 J	8.1 U	100	8.8 U
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	6608000	UG/KG	2.0 U	2.0 U	2.1 U	2.0 U	19 U	880 U
4,4'-DDE	7000	2100	2592000	UG/KG	2.0 U	2.0 U	2.1 U	2.0 U	17 J	**13000**
4,4'-DDT	7000	2100	85.5	UG/KG	2.0 U	2.0 U	2.1 U	2.0 U	11 J	880 U
ALPHA-CHLORDANE	6500		29570	UG/KG	2.0 U	2.0 U	2.1 U	2.0 U	20 J	5100 J
AROCLOR 1232	740	1000	45780	UG/KG	20 U	20 U	21 U	20 U	**57000**	110000 U
AROCLOR 1254	740	1000	335400	UG/KG	20 U	20 U	21 U	20 U	9500 U	**620000**
AROCLOR 1260	740	1000	918200	UG/KG	20 U	20 U	21 U	20 U	9500 U	110000 U
BETA-BHC	1300	3890	252.7	UG/KG	2.0 U	2.0 U	2.1 U	2.0 U	**310 J**	880 U
DELTA-BHC	360		2320	UG/KG	2.0 U	2.0 U	2.1 U	2.0 U	19 U	880 U
DIELDRIN	110	44	422.3	UG/KG	2.0 U	2.0 U	2.1 U	2.0 U	19 U	880 U
ENDOSULFAN I	370000		2344000	UG/KG	2.0 U	2.0 U	2.1 U	2.0 U	19 U	880 U
ENDOSULFAN II	370000		2344000	UG/KG	2.0 U	2.0 U	2.1 U	2.0 U	19 U	880 U
ENDRIN	18000	20000	667900	UG/KG	2.0 U	2.0 U	2.1 U	2.0 U	19 U	880 U
ENDRIN ALDEHYDE	18000		303600	UG/KG	2.0 U	2.0 U	2.1 U	2.0 U	7.4 J	1600
GAMMA-BHC	1700	2000	269	UG/KG	2.0 U	2.0 U	2.1 U	2.0 U	130 J	880 U
HEPTACHLOR EPOXIDE	190	77	12300	UG/KG	2.0 U	2.0 U	2.1 U	2.0 U	160 J	880 U
Explosives (8330)										

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW	WW	WW	WW	WW	WW
				Excavation:	X18	X21	X21	X24	X29	X37
				Sample Name:	C7-CWM-SO-X18-WW01-6	C7-CWM-SO-X21-WW01-4	C7-CWM-SO-X21-WW02-6	C7-CWM-SO-X24-WW01-6	C7-CWM-SO-X29-WW01-4.5	C7-CWM-SO-X37-WW01-6.5
				Sample Depth:	6 FT	4 FT	6 FT	6 FT	4.5 FT	6.5 FT
				Sample Date:	8/25/2006	8/28/2006	8/28/2006	8/29/2006	8/30/2006	9/5/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
NITROBENZENE	10000	4000	419	UG/KG	46 J	79	99 U	100 U	100 U	93 J
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		54000000	MG/KG	9650	**10200 J**	**11900 J**	8160	**15000**	**13600**
ANTIMONY	41		135.3	MG/KG	.92 U	1 U	1 U	.86 U	0.90 U	1 U
ARSENIC	1.6		5003	MG/KG	**2.4 J**	**2.5 J**	**1.6 J**	**1.7 J**	**3.4 J**	**3.4 J**
BARIUM	6700		41110	MG/KG	49.1	82.9	94.4	85.6	172 J	88.3 J
BERYLLIUM	190		2370	MG/KG	0.47	0.53	0.51	0.36	0.71	0.57
BORON	10000		3107	MG/KG	18.4 U	4.2 J	20.2 U	2.5 J	18 U	20.9 U
CADMIUM	45		375.5	MG/KG	0.21 J	0.16 J	.5 U	0.12 J	0.17 J	0.25 J
CALCIUM				MG/KG	15900	9660	6030	26600	50700 J	44800 J
CHROMIUM	64		90000000	MG/KG	14.5	13	12.4	10.9	18.4	14.6
COBALT	1900		32930	MG/KG	7.6	6.1	4.1	5.1	10.3	8.2
COPPER	4100		85620	MG/KG	25.2 J	19.3	15	19.6	26.9	18.6
IRON	10000		7532	MG/KG	**36700**	**19100**	**15700**	**15100**	**24600**	**20300**
LEAD	800		22500	MG/KG	5.7	9.6 J	4.7 J	5.8	6.6	8.6
LITHIUM	2000			MG/KG	15.9	15.9	14.5	13.6	24.7	20.7
MAGNESIUM				MG/KG	5450	3940	3000	5250	11800 J	15700 J
MANGANESE	1900		19530	MG/KG	825	357	360	633	741 J	543 J
MERCURY	31		36.53	MG/KG	0.015 J	0.036 N	0.025 J	0.016 J	0.019 J	0.048
MOLYBDENUM	510		3619	MG/KG	4.6 U	0.39 J	0.47 J	0.43 J	0.37 J	5.2 U
NICKEL	2000		602.1	MG/KG	15.2 J	12.7 J	10.7 J	10.7	22.6	18.4
POTASSIUM				MG/KG	1240 J	871 J	662 J	728 J	2910 J	1890 J
SELENIUM	510		3001	MG/KG	4.6 U	5 U	5 U	4.3 U	4.5 U	5.2 U
SILVER	510		420.4	MG/KG	.28 U	0.038 J	0.028 J	0.037 J	0.033 J	0.045 J
SODIUM				MG/KG	921 U	193 J	106 J	103 J	261 J	110 J
THALLIUM	6.7		750.1	MG/KG	1.8 U	2 U	2 U	1.7 U	1.8 U	2.1 U
VANADIUM	100		36000	MG/KG	22.9	19.2 J	21.4 J	17.2	29.5	26.8
ZINC	10000		124200	MG/KG	36.3 J	39.2 J	38 J	34.4	48.9 J	50.1 J
General Chemistry										
CYANIDE	1200		2001	MG/KG	0.17 U	0.17 U	0.19 U	0.18 U	0.17 U	2.2
PERCENT SOLIDS				%	83	82	81	82	87	76

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999

TABLE 5-13 SUMMARY OF REPORTED CONC[illegible]RATIONS IN SUBSURFACE SOIL, WM PROPERTY,
UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW	WW	WW	WW	WW	WW
				Excavation:	X18	X21	X21	X24	X29	X37
				Sample Name:	C7-CWM-SO-X18-WW01-6	C7-CWM-SO-X21-WW01-4	C7-CWM-SO-X21-WW02-6	C7-CWM-SO-X24-WW01-6	C7-CWM-SO-X29-WW01-4.5	C7-CWM-SO-X37-WW01-6.5
				Sample Depth:	6 FT	4 FT	6 FT	6 FT	4.5 FT	6.5 FT
				Sample Date:	8/25/2006	8/28/2006	8/28/2006	8/29/2006	8/30/2006	9/5/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						

Crit3: Site Specific Soil Screening Levels (SSLs)

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW	WW	WW	WW	WW	WW
				Excavation:	X41	X42	X55	X56	X56	X75
				Sample Name:	C7-CWM-SO-X41-WW01-6	C7-CWM-SO-X42-WW01-6	C7-CWM-SO-X55-WW01-8	C7-CWM-SO-X56-WG01-7.5	C7-CWM-SO-DUP13	C7-CWM-SO-X75-WW01-6
				Sample Depth:	6 FT	5.5 FT	8 FT	7.5 FT	7.5 FT	6 FT
				Sample Date:	9/6/2006	9/6/2006	9/11/2006	9/12/2006	9/12/2006	9/19/2006
				Parent Name:					C7-CWM-SO-X56-WG01-7.5	
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
1,1,1-TRICHLOROETHANE	120000	700000	4619	UG/KG	1.5 J	4.8 U	5.9 U	4.7 U	4.8 U	4.6 U
1,1-DICHLOROETHANE	170000	800000	2047	UG/KG	12	4.3 J	5.9 U	4.7 U	4.8 U	4.6 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG	6.1 U	4.8 U	5.9 U	4.7 U	4.8 U	4.6 U
1,3-DICHLOROBENZENE	60000		6796	UG/KG	6.1 U	4.8 U	5.9 U	4.7 U	4.8 U	4.6 U
1,4-DICHLOROBENZENE	7900		6790	UG/KG	6.1 U	4.8 U	5.9 U	4.7 U	4.8 U	4.6 U
2-BUTANONE	11000000	400000	6476	UG/KG	12 U	9.6 U	12 U	13 J	9.7 U	9.2 U
ACETONE	5400000	800000	5514	UG/KG	30 J	9.6 U	12 U	9.4 U	9.7 U	9.2 U
BENZENE	1400	24000	453.8	UG/KG	6.1 U	4.8 U	5.9 U	4.7 U	4.8 U	4.6 U
CARBON DISULFIDE	72000	800000	32890	UG/KG	6.1 U	4.8 U	5.9 U	4.7 U	4.8 U	4.6 U
CHLOROFORM	470	80000	2770	UG/KG	6.1 U	4.8 U	5.9 U	4.7 U	4.8 U	4.6 U
CIS-1,2-DICHLOROETHENE	15000	80000	1575	UG/KG	1.3 J	4.8 U	5.9 U	4.7 U	4.8 U	4.6 U
ISOPROPYLBENZENE	200000		21090	UG/KG	1.6 J	4.8 U	5.9 U	4.7 U	4.8 U	4.6 U
M+P-XYLENE	42000	20000000		UG/KG	1.4 J	4.8 U	5.9 U	4.7 U	4.8 U	4.6 U
METHYLENE CHLORIDE	21000	93000	862.5	UG/KG	12 U	9.6 U	2.9 J	9.4 U	9.7 U	9.2 U
TETRACHLOROETHENE	1300	14000	7858	UG/KG	6.1 U	4.8 U	5.9 U	4.7 U	4.8 U	4.6 U
TOLUENE	52000	2000000	4226	UG/KG	6.1 U	4.8 U	5.9 U	4.7 U	4.8 U	4.6 U
TRANS-1,2-DICHLOROETHENE	23000	200000	1811	UG/KG	6.1 U	4.8 U	5.9 U	4.7 U	4.8 U	4.6 U
TRICHLOROETHYLENE	6500	64000	3227	UG/KG	1.3 J	4.8 U	5.9 U	4.7 U	4.8 U	4.6 U
VINYL CHLORIDE	750	360	794.4	UG/KG	12 U	9.6 U	12 U	9.4 U	9.7 U	9.2 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2,4-TRICHLOROBENZENE	22000		18270	UG/KG	8.2 U	7.6 U	7.6 U	8.0 U	8.1 U	7.7 U
1,2-BENZPHENANTHRACENE	210000		3943	UG/KG	8.2 U	7.6 U	4.6 J	8.0 U	8.1 U	7.7 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG						
1,3-DICHLOROBENZENE	60000		6796	UG/KG						
1,4-DICHLOROBENZENE	7900		6790	UG/KG						
2-METHYLNAPHTHALENE	19000		147800	UG/KG	8.2 U	7.6 U	9.9	8.0 U	8.1 U	7.7 U
ACENAPHTHENE	2900000	500000	485100	UG/KG	8.2 U	7.6 U	7.6 U	8.0 U	8.1 U	7.7 U
ACENAPHTHYLENE	2900000		199500	UG/KG	8.2 U	7.6 U	7.6 U	8.0 U	8.1 U	7.7 U
ANTHRACENE	10000000	2000000	5919000	UG/KG	8.2 U	7.6 U	1.9 J	8.0 U	8.1 U	7.7 U
BENZ[A]ANTHRACENE	2100	224	3923	UG/KG	8.2 U	7.6 U	4.9 J	8.0 U	8.1 U	7.7 U
BENZO[A]PYRENE	210	60.9		UG/KG	8.2 U	7.6 U	7.6 U	8.0 U	8.1 U	7.7 U
BENZO[B]FLUORANTHENE	2100	224	12120	UG/KG	8.2 U	7.6 U	3 J	8.0 U	8.1 U	7.7 U
BENZO[GHI]PERYLENE	2900000			UG/KG	8.2 U	7.6 U	7.6 U	8.0 U	8.1 U	7.7 U
BENZO[K]FLUORANTHENE	21000	224	12120	UG/KG	8.2 U	7.6 U	4.9 J	8.0 U	8.1 U	7.7 U

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW	WW	WW	WW	WW	WW
				Excavation:	X41	X42	X55	X56	X56	X75
				Sample Name:	C7-CWM-SO-X41-WW01-6	C7-CWM-SO-X42-WW01-6	C7-CWM-SO-X55-WW01-8	C7-CWM-SO-X56-WG01-7.5	C7-CWM-SO-DUP13	C7-CWM-SO-X75-WW01-6
				Sample Depth:	6 FT	5.5 FT	8 FT	7.5 FT	7.5 FT	6 FT
				Sample Date:	9/6/2006	9/6/2006	9/11/2006	9/12/2006	9/12/2006	9/19/2006
				Parent Name:					C7-CWM-SO-X56-WG01-7.5	
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	372100000	UG/KG	8.2 U	7.6 U	30	8.0 U	8.1 U	7.7 U
CARBAZOLE	86000		1135	UG/KG	8.2 U	7.6 U	7.6 U	8.0 U	8.1 U	7.7 U
DIBENZ[A,H]ANTHRACENE	210	14.3	172300	UG/KG	8.2 U	7.6 U	7.6 U	8.0 U	8.1 U	7.7 U
DIBENZOFURAN	160000		462500	UG/KG	8.2 U	7.6 U	3 J	8.0 U	8.1 U	7.7 U
DIETHYL PHTHALATE	10000000	6000000		UG/KG	8.2 U	7.6 U	6.1 J	8.0 U	8.1 U	7.7 U
DI-N-BUTYL PHTHALATE	6200000	800000	8358000	UG/KG	8.2 U	7.6 U	130	8.0 U	8.1 U	7.7 U
FLUORANTHENE	2200000	300000	26370000	UG/KG	8.2 U	7.6 U	5.3 J	8.0 U	2.8 J	7.7 U
FLUORENE	2600000	300000	1952000	UG/KG	8.2 U	7.6 U	7.6 U	8.0 U	8.1 U	7.7 U
HEXACHLORO-1,3-BUTADIENE	18000		132400	UG/KG	8.2 U	7.6 U	7.6 U	8.0 U	8.1 U	7.7 U
HEXACHLOROBENZENE	1100	410	10850	UG/KG	8.2 U	7.6 U	7.6 U	8.0 U	8.1 U	7.7 U
HEXACHLOROCYCLOPENTADIENE	370000		42590	UG/KG	8.2 U	7.6 U	7.6 U	8.0 U	8.1 U	7.7 U
INDENO[1,2,3-CD]PYRENE	2100		34200	UG/KG	8.2 U	7.6 U	7.6 U	8.0 U	8.1 U	7.7 U
ISOPHORONE	510000	1707000	28020	UG/KG	8.2 U	7.6 U	7.6 U	8.0 U	8.1 U	7.7 U
NAPHTHALENE	19000	30000	60240	UG/KG	8.2 U	7.6 U	6.5 J	8.0 U	8.1 U	7.7 U
PHENANTHRENE	19000		1189000	UG/KG	8.2 U	7.6 U	8.7	8.0 U	8.1 U	7.7 U
PHENOL	10000000	5000000	250.1	UG/KG	41 U	38 U	38 U	40 U	40 U	39 U
PYRENE	2900000	200000	16760000	UG/KG	8.2 U	7.6 U	4.9 J	8.0 U	8.1 U	7.7 U
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	10000	2900	6608000	UG/KG	21 U	38 U	1.9 U	2.0 U	2.0 U	1.9 U
4,4'-DDE	7000	2100	2592000	UG/KG	63 J	100 J	0.27 J	2.0 U	2.0 U	1.9 U
4,4'-DDT	7000	2100	85.5	UG/KG	**400 J**	**660 J**	1.9 U	2.0 U	2.0 U	1.9 U
ALPHA-CHLORDANE	6500		29570	UG/KG	21 U	17 J	1.9 U	2.0 U	2.0 U	1.9 U
AROCLOR 1232	740	1000	45780	UG/KG	1000 U	190 U	19 U	20 U	20 U	19 U
AROCLOR 1254	740	1000	335400	UG/KG	1000 U	190 U	19 U	20 U	20 U	19 U
AROCLOR 1260	740	1000	918200	UG/KG	**11000 J**	**2500**	19 U	20 U	20 U	19 U
BETA-BHC	1300	3890	252.7	UG/KG	21 U	38 U	1.9 U	2.0 U	2.0 U	1.9 U
DELTA-BHC	360		2320	UG/KG	21 U	38 U	1.9 U	2.0 U	2.0 U	1.9 U
DIELDRIN	110	44	422.3	UG/KG	**230 J**	38 U	1.9 U	2.0 U	2.0 U	1.9 U
ENDOSULFAN I	370000		2344000	UG/KG	21 U	38 U	1.9 U	2.0 U	2.0 U	1.9 U
ENDOSULFAN II	370000		2344000	UG/KG	21 U	38 U	1.9 U	2.0 U	2.0 U	1.9 U
ENDRIN	18000	20000	667900	UG/KG	21 U	38 U	1.9 U	2.0 U	2.0 U	1.9 U
ENDRIN ALDEHYDE	18000		303600	UG/KG	320 J	520 J	1.9 U	2.0 U	2.0 U	1.9 U
GAMMA-BHC	1700	2000	269	UG/KG	21 U	38 U	1.9 U	2.0 U	2.0 U	1.9 U
HEPTACHLOR EPOXIDE	190	77	12300	UG/KG	21 U	38 U	1.9 U	2.0 U	2.0 U	1.9 U
Explosives (8330)										

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW	WW	WW	WW	WW	WW
				Excavation:	X41	X42	X55	X56	X56	X75
				Sample Name:	C7-CWM-SO-X41-WW01-6	C7-CWM-SO-X42-WW01-6	C7-CWM-SO-X55-WW01-8	C7-CWM-SO-X56-WG01-7.5	C7-CWM-SO-DUP13	C7-CWM-SO-X75-WW01-6
				Sample Depth:	6 FT	5.5 FT	8 FT	7.5 FT	7.5 FT	6 FT
				Sample Date:	9/6/2006	9/6/2006	9/11/2006	9/12/2006	9/12/2006	9/19/2006
				Parent Name:					C7-CWM-SO-X56-WG01-7.5	
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
NITROBENZENE	10000	4000	419	UG/KG	120 J	58 J	53 J	83 J	87 J	99 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	10000		54000000	MG/KG	**13000**	9740	6540 J	**13400 J**	**14500 J**	**11400**
ANTIMONY	41		135.3	MG/KG	1 U	1 U	.99 U	0.85 U	0.91 U	.95 U
ARSENIC	1.6		5003	MG/KG	**3.1 J**	**2.2 J**	**3.2 J**	**3.4 J**	**3.8 J**	**3.2 J**
BARIUM	6700		41110	MG/KG	107 J	64.2 J	56.5	128 J	304 J	78.7
BERYLLIUM	190		2370	MG/KG	0.57	0.43	0.3	0.57	0.65	0.47
BORON	10000		3107	MG/KG	6 J	2.2 J	19.9 U	9 J	8.7 J	19 U
CADMIUM	45		375.5	MG/KG	0.15 J	0.56	.5 U	0.17 J	0.15 J	0.17 J
CALCIUM				MG/KG	94500	48600	31400	64300	49000	60300
CHROMIUM	64		90000000	MG/KG	16.5	12.1	12 J	17.2 J	18.8 J	16.5
COBALT	1900		32930	MG/KG	8.6	5.7	5.3	9.1	9.7	7.2
COPPER	4100		85620	MG/KG	22.2	22.2	26.3	25.6	26	20.3
IRON	10000		7532	MG/KG	**21000**	**16700**	**14400**	**23000**	**23800**	**18100**
LEAD	800		22500	MG/KG	7.5	12	5.3	9.3	6.7	8.3
LITHIUM	2000			MG/KG	22.4	15.6	10.8	23.1	24.3	18.6
MAGNESIUM				MG/KG	18400	11600	5950	17600 J	10900 J	12700
MANGANESE	1900		19530	MG/KG	692	571	759	724 J	705 J	689
MERCURY	31		36.53	MG/KG	0.014 J	0.017 J	0.023 J	0.013 J	0.015 J	0.0093 J
MOLYBDENUM	510		3619	MG/KG	0.39 J	5.2 U	0.4 J	4.2 U	4.5 U	0.29 J
NICKEL	2000		602.1	MG/KG	18.6	14	12.4	19.6	21.7	17.2
POTASSIUM				MG/KG	3050 J	1370 J	993 U	2570 J	3010 J	1860
SELENIUM	510		3001	MG/KG	5.1 U	5.2 U	5 U	0.92 J	4.5 U	4.7 U
SILVER	510		420.4	MG/KG	0.04 J	0.035 J	0.031 J	0.051 J	0.034 J	0.051 J
SODIUM				MG/KG	203 J	119 J	993 U	159 J	154 J	128 J
THALLIUM	6.7		750.1	MG/KG	0.22 J	2.1 U	2 U	1.7 U	1.8 U	1.9 U
VANADIUM	100		36000	MG/KG	27.1	21.5	17.2	27.6	29.7	22.7
ZINC	10000		124200	MG/KG	44.8 J	183 J	29.1 J	44 J	44.6 J	55.4 J
General Chemistry										
CYANIDE	1200		2001	MG/KG	0.17 U	0.18 U	0.15 U	0.20 U	0.20 U	0.15 U
PERCENT SOLIDS				%	81	87	88	83.00	83	

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999

TABLE 5-13 SUMMARY OF REPORTED CONC_ _TRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW	WW	WW	WW	WW	WW
				Excavation:	X41	X42	X55	X56	X56	X75
				Sample Name:	C7-CWM-SO-X41-WW01-6	C7-CWM-SO-X42-WW01-6	C7-CWM-SO-X55-WW01-8	C7-CWM-SO-X56-WG01-7.5	C7-CWM-SO-DUP13	C7-CWM-SO-X75-WW01-6
				Sample Depth:	6 FT	5.5 FT	8 FT	7.5 FT	7.5 FT	6 FT
				Sample Date:	9/6/2006	9/6/2006	9/11/2006	9/12/2006	9/12/2006	9/19/2006
				Parent Name:					C7-CWM-SO-X56-WG01-7.5	
Analyte	Crit1	Crit2	Crit3	Unit						

Crit3: Site Specific Soil Screening Levels (SSLs)

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW	WW	WW
				Excavation:	X75	X76	X78
				Sample Name:	C7-CWM-SO-DUP15	C7-CWM-SO-X76-WW01-4	C7-CWM-SO-X78-WW01-6.5
				Sample Depth:	6 FT	4 FT	6.5 FT
				Sample Date:	9/19/2006	9/19/2006	9/20/2006
				Parent Name:	C7-CWM-SO-X75-WW01-6		
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**			
Volatile Organic Compounds (8260B)							
1,1,1-TRICHLOROETHANE	120000	700000	4619	UG/KG	4.4 U	5.8 U	5.1 U
1,1-DICHLOROETHANE	170000	800000	2047	UG/KG	4.4 U	5.8 U	5.1 U
1,2-DICHLOROBENZENE	60000		6914	UG/KG	4.4 U	5.8 U	5.1 U
1,3-DICHLOROBENZENE	60000		6796	UG/KG	4.4 U	5.8 U	5.1 U
1,4-DICHLOROBENZENE	7900		6790	UG/KG	4.4 U	5.8 U	5.1 U
2-BUTANONE	11000000	400000	6476	UG/KG	8.9 U	12 U	10 U
ACETONE	5400000	800000	5514	UG/KG	8.9 U	12 U	10 U
BENZENE	1400	24000	453.8	UG/KG	4.4 U	5.8 U	5.1 U
CARBON DISULFIDE	72000	800000	32890	UG/KG	4.4 U	5.8 U	5.1 U
CHLOROFORM	470	80000	2770	UG/KG	4.4 U	5.8 U	5.1 U
CIS-1,2-DICHLOROETHENE	15000	80000	1575	UG/KG	4.4 U	5.8 U	5.1 U
ISOPROPYLBENZENE	200000		21090	UG/KG	4.4 U	5.8 U	5.1 U
M+P-XYLENE	42000	20000000		UG/KG	4.4 U	5.8 U	5.1 U
METHYLENE CHLORIDE	21000	93000	862.5	UG/KG	8.9 U	12 U	3.8 J
TETRACHLOROETHENE	1300	14000	7858	UG/KG	4.4 U	5.8 U	5.1 U
TOLUENE	52000	2000000	4226	UG/KG	4.4 U	5.8 U	5.1 U
TRANS-1,2-DICHLOROETHENE	23000	200000	1811	UG/KG	4.4 U	5.8 U	5.1 U
TRICHLOROETHYLENE	6500	64000	3227	UG/KG	4.4 U	5.8 U	5.1 U
VINYL CHLORIDE	750	360	794.4	UG/KG	8.9 U	12 U	10 U
Semi-Volatile Organic Compounds (8151/8270C/8310)							
1,2,4-TRICHLOROBENZENE	22000		18270	UG/KG	7.6 U	7.0 U	7.2 U
1,2-BENZPHENANTHRACENE	210000		3943	UG/KG	7.6 U	2.8 J	11
1,2-DICHLOROBENZENE	60000		6914	UG/KG			
1,3-DICHLOROBENZENE	60000		6796	UG/KG			
1,4-DICHLOROBENZENE	7900		6790	UG/KG			
2-METHYLNAPHTHALENE	19000		147800	UG/KG	7.6 U	7.0 U	7.2 U
ACENAPHTHENE	2900000	500000	485100	UG/KG	7.6 U	7.0 U	7.2 U
ACENAPHTHYLENE	2900000		199500	UG/KG	7.6 U	7.0 U	7.2 U
ANTHRACENE	10000000	2000000	5919000	UG/KG	7.6 U	7.0 U	7.2 U
BENZ[A]ANTHRACENE	2100	224	3923	UG/KG	7.6 U	2.1 J	8
BENZO[A]PYRENE	210	60.9		UG/KG	7.6 U	7.0 U	9.4
BENZO[B]FLUORANTHENE	2100	224	12120	UG/KG	7.6 U	7.0 U	13
BENZO[GHI]PERYLENE	2900000			UG/KG	7.6 U	7.0 U	6.9 J
BENZO[K]FLUORANTHENE	21000	224	12120	UG/KG	7.6 U	7.0 U	11 J

TABLE 5-13 SUMMARY OF REPORTED CONC[illegible]TRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW	WW	WW
				Excavation:	X75	X76	X78
				Sample Name:	C7-CWM-SO-DUP15	C7-CWM-SO-X76-WW01-4	C7-CWM-SO-X78-WW01-6.5
				Sample Depth:	6 FT	4 FT	6.5 FT
				Sample Date:	9/19/2006	9/19/2006	9/20/2006
				Parent Name:	C7-CWM-SO-X75-WW01-6		
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**			
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	372100000	UG/KG	7.6 U	7.0 U	7.2 U
CARBAZOLE	86000		1135	UG/KG	7.6 U	7.0 U	7.2 U
DIBENZ[A,H]ANTHRACENE	210	14.3	172300	UG/KG	7.6 U	7.0 U	3.6 J
DIBENZOFURAN	160000		462500	UG/KG	7.6 U	7.0 U	7.2 U
DIETHYL PHTHALATE	10000000	6000000		UG/KG	7.6 U	5.9 J	5.1 J
DI-N-BUTYL PHTHALATE	6200000	800000	8358000	UG/KG	7.6 U	7.0 U	7.2 U
FLUORANTHENE	2200000	300000	26370000	UG/KG	7.6 U	4.9 J	5.8 J
FLUORENE	2600000	300000	1952000	UG/KG	7.6 U	7.0 U	7.2 U
HEXACHLORO-1,3-BUTADIENE	18000		132400	UG/KG	7.6 U	7.0 U	7.2 U
HEXACHLOROBENZENE	1100	410	10850	UG/KG	7.6 U	7.0 U	7.2 U
HEXACHLOROCYCLOPENTADIENE	370000		42590	UG/KG	7.6 U	7.0 U	7.2 U
INDENO[1,2,3-CD]PYRENE	2100		34200	UG/KG	7.6 U	7.0 U	6.1 J
ISOPHORONE	510000	1707000	28020	UG/KG	7.6 U	7.0 U	7.2 U
NAPHTHALENE	19000	30000	60240	UG/KG	7.6 U	7.0 U	7.2 U
PHENANTHRENE	19000		1189000	UG/KG	7.6 U	7.0 U	7.2 U
PHENOL	10000000	5000000	250.1	UG/KG	38 U	35 U	36 U
PYRENE	2900000	200000	16760000	UG/KG	7.6 U	3.1 J	4 J
Pesticides (8081)/Polychlorinated Biphenyls(8082)							
4,4'-DDD	10000	2900	6608000	UG/KG	1.9 U	1.8 U	1.8 U
4,4'-DDE	7000	2100	2592000	UG/KG	1.9 U	1.8 U	0.67 J
4,4'-DDT	7000	2100	85.5	UG/KG	1.9 U	1.8 U	1.8 U
ALPHA-CHLORDANE	6500		29570	UG/KG	1.9 U	1.8 U	1.8 U
AROCLOR 1232	740	1000	45780	UG/KG	19 U	17 U	18 U
AROCLOR 1254	740	1000	335400	UG/KG	19 U	17 U	18 U
AROCLOR 1260	740	1000	918200	UG/KG	19 U	17 U	18 U
BETA-BHC	1300	3890	252.7	UG/KG	1.9 U	1.8 U	1.8 U
DELTA-BHC	360		2320	UG/KG	1.9 U	1.8 U	1.8 U
DIELDRIN	110	44	422.3	UG/KG	1.9 U	1.8 U	1.8 U
ENDOSULFAN I	370000		2344000	UG/KG	1.9 U	1.8 U	1.8 U
ENDOSULFAN II	370000		2344000	UG/KG	1.9 U	1.8 U	1.8 U
ENDRIN	18000	20000	667900	UG/KG	1.9 U	1.8 U	1.8 U
ENDRIN ALDEHYDE	18000		303600	UG/KG	1.9 U	1.8 U	1.8 U
GAMMA-BHC	1700	2000	269	UG/KG	1.9 U	1.8 U	1.8 U
HEPTACHLOR EPOXIDE	190	77	12300	UG/KG	1.9 U	1.8 U	1.8 U
Explosives (8330)							

TABLE 5-13 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW	WW	WW
				Excavation:	X75	X76	X78
				Sample Name:	C7-CWM-SO-DUP15	C7-CWM-SO-X76-WW01-4	C7-CWM-SO-X78-WW01-6.5
				Sample Depth:	6 FT	4 FT	6.5 FT
				Sample Date:	9/19/2006	9/19/2006	9/20/2006
				Parent Name:	C7-CWM-SO-X75-WW01-6		
Analyte	Crit1	Crit2	Crit3	Unit			
NITROBENZENE	10000	4000	419	UG/KG	99 U	100 U	100 U
Metals (6010B/6020/7841/7470A/7471A)							
ALUMINUM	10000		54000000	MG/KG	**10800**	5030	**11300**
ANTIMONY	41		135.3	MG/KG	.89 U	.81 U	0.83 U
ARSENIC	1.6		5003	MG/KG	**3.9 J**	**1.8 J**	**2.3 J**
BARIUM	6700		41110	MG/KG	78.5	38.4	79.5
BERYLLIUM	190		2370	MG/KG	0.52	0.25	0.44
BORON	10000		3107	MG/KG	17.8 U	16.1 U	17 U
CADMIUM	45		375.5	MG/KG	0.22 J	4 U	0.14 J
CALCIUM				MG/KG	65300	3790	14200
CHROMIUM	64		90000000	MG/KG	15.1	6.2	14.7
COBALT	1900		32930	MG/KG	8.4	4.1	5.8
COPPER	4100		85620	MG/KG	24.8	23.1	20.9
IRON	10000		7532	MG/KG	**19600**	**11500**	**17300**
LEAD	800		22500	MG/KG	6.7	3.6	7.4
LITHIUM	2000			MG/KG	16.3	8.2	17.7
MAGNESIUM				MG/KG	13100	3080	4140
MANGANESE	1900		19530	MG/KG	864	758	424
MERCURY	31		36.53	MG/KG	0.017 J	0.016 J	0.015 J
MOLYBDENUM	510		3619	MG/KG	0.31 J	4 U	0.34 J
NICKEL	2000		602.1	MG/KG	18.6	9.2	13.5
POTASSIUM				MG/KG	2030	537 J	987
SELENIUM	510		3001	MG/KG	4.4 U	4 U	4.2 U
SILVER	510		420.4	MG/KG	0.037 J	0.016 J	0.25 U
SODIUM				MG/KG	137 J	63.9 J	111 J
THALLIUM	6.7		750.1	MG/KG	1.8 U	1.6 U	1.7 U
VANADIUM	100		36000	MG/KG	22.7	12.4	19.9
ZINC	10000		124200	MG/KG	54.5 J	25.7 J	81.4 J
General Chemistry							
CYANIDE	1200		2001	MG/KG	0.18 U	0.14 U	0.27 U
PERCENT SOLIDS				%			92

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999

TABLE 5-13 SUMMARY OF REPORTED CONC... TRATIONS IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW	WW	WW
				Excavation:	X75	X76	X78
				Sample Name:	C7-CWM-SO-DUP15	C7-CWM-SO-X76-WW01-4	C7-CWM-SO-X78-WW01-6.5
				Sample Depth:	6 FT	4 FT	6.5 FT
				Sample Date:	9/19/2006	9/19/2006	9/20/2006
				Parent Name:	C7-CWM-SO-X75-WW01-6		
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**			

Crit3: Site Specific Soil Screening Levels (SSLs)

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-14 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	AW	AW	DW	SN	SN	SN
				Excavation:	X15	X23	X10	X26	X28	X30
				Sample Name:	C7-SOM-SO-X15-UN01-6.5	C7-SOM-SO-X23-AW01-8	C7-SOM-SO-X10-DW01-1.5	C7-SOM-SO-X26-SN01-8	C7-SOM-SO-X28-SN01-8	C7-SOM-SO-X30-SN01-8
				Sample Depth:	6.5 FT	8 FT	1.5 FT	8 FT	8 FT	8 FT
				Sample Date:	7/17/2006	7/19/2006	7/13/2006	7/20/2006	7/21/2006	7/24/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
2-BUTANONE	2200000	400000	6476	UG/KG	12 U	9.7 U	11 U	8.9 U	23 J	12 U
ACETONE	1400000	800000	5514	UG/KG	12 U	9.7 U	11 U	8.9 U	66 J	12 U
BENZENE	640	24000	453.8	UG/KG	6.0 U	4.9 U	5.6 U	4.5 U	5.5 U	6.1 U
CHLOROBENZENE	15000	200000	7253	UG/KG	6.0 U	4.9 U	5.6 U	4.5 U	5.5 U	6.1 U
CIS-1,2-DICHLOROETHENE	4300	80000	1575	UG/KG	6.0 U	4.9 U	5.6 U	4.5 U	5.5 U	1.6 J
ETHYLBENZENE	40000	800000	5749	UG/KG	6.0 U	4.9 U	5.6 U	33	5.5 U	6.1 U
ISOPROPYLBENZENE	57000		21090	UG/KG	6.0 U	4.9 U	5.6 U	17 J	5.5 U	6.1 U
M+P-XYLENE	27000	20000000		UG/KG	6.0 U	4.9 U	5.6 U	5.6	5.5 U	6.1 U
METHYLENE CHLORIDE	9100	93000	862.5	UG/KG	4.1 J	3.7 J	11 U	8.9 U	11 U	12 U
O-XYLENE	27000	20000000		UG/KG	6.0 U	4.9 U	5.6 U	2.6 J	5.5 U	6.1 U
STYRENE	170000		13390	UG/KG	6.0 U	4.9 U	5.6 U	4.5 U	5.5 U	6.1 U
TOLUENE	52000	2000000	4226	UG/KG	6.0 U	4.9 U	5.6 U	4.5 U	5.5 U	6.1 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2-BENZPHENANTHRACENE	62000		3943	UG/KG	8.4 U	8.1 U	16	7.9 U	8.3 U	8.1 U
2-METHYLNAPHTHALENE	5600		147800	UG/KG	8.4 U	8.1 U	3.9 U	420	8.3 U	8.1 U
4-METHYLPHENOL	31000	400000	90940	UG/KG	42 U	40 U	19 U	39 U	42 U	41 U
ACENAPHTHENE	370000	500000	485100	UG/KG	8.4 U	8.1 U	3.9 U	120	8.3 U	8.1 U
ACENAPHTHYLENE	370000		199500	UG/KG	8.4 U	8.1 U	3.9 U	7.9 U	8.3 U	8.1 U
ANTHRACENE	2200000	2000000	5919000	UG/KG	8.4 U	8.1 U	3.9 U	7.9 U	8.3 U	8.1 U
BENZ[A]ANTHRACENE	620	224	3923	UG/KG	8.4 U	8.1 U	15	7.9 U	8.3 U	8.1 U
BENZO[A]PYRENE	62	60.9		UG/KG	8.4 U	8.1 U	15	7.9 U	8.3 U	8.1 U
BENZO[B]FLUORANTHENE	620	224	12120	UG/KG	8.4 U	8.1 U	23	7.9 U	8.3 U	8.1 U
BENZO[GHI]PERYLENE	230000			UG/KG	8.4 U	8.1 U	9.3 J	7.9 U	8.3 U	8.1 U
BENZO[K]FLUORANTHENE	6200	224	12120	UG/KG	8.4 U	8.1 U	10	7.9 U	8.3 U	8.1 U
CARBAZOLE	24000		1135	UG/KG	8.4 U	8.1 U	19 U	7.9 U	8.3 U	8.1 U
DIBENZ[A,H]ANTHRACENE	62	14.3	172300	UG/KG	8.4 U	8.1 U	3.9 U	7.9 U	8.3 U	8.1 U
DIBENZOFURAN	15000		462500	UG/KG	8.4 U	8.1 U	19 U	77	8.3 U	8.1 U
DI-N-BUTYL PHTHALATE	610000	800000	8358000	UG/KG	8.4 U	5.6 J	19 U	7.9 U	8.3 U	8.1 U
FLUORANTHENE	230000	300000	26370000	UG/KG	8.4 U	8.1 U	21	7.9 U	8.3 U	8.1 U
FLUORENE	270000	300000	1952000	UG/KG	8.4 U	8.1 U	3.9 U	150	8.3 U	8.1 U
HEXACHLORO-1,3-BUTADIENE	1800		132400	UG/KG	12	8.1 U	19 U	7.9 U	8.3 U	8.1 U
INDENO[1,2,3-CD]PYRENE	620		34200	UG/KG	8.4 U	8.1 U	8.9 J	7.9 U	8.3 U	8.1 U
ISOPHORONE	510000	1707000	28020	UG/KG	8.4 U	8.1 U	19 U	12	8.3 U	8.1 U
NAPHTHALENE	5600	30000	60240	UG/KG	8.4 U	8.1 U	3.9 U	65	8.3 U	8.1 U

TABLE 5-14 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	AW	AW	DW	SN	SN	SN
				Excavation:	X15	X23	X10	X26	X28	X30
				Sample Name:	C7-SOM-SO-X15-UN01-6.5	C7-SOM-SO-X23-AW01-8	C7-SOM-SO-X10-DW01-1.5	C7-SOM-SO-X26-SN01-8	C7-SOM-SO-X28-SN01-8	C7-SOM-SO-X30-SN01-8
				Sample Depth:	6.5 FT	8 FT	1.5 FT	8 FT	8 FT	8 FT
				Sample Date:	7/17/2006	7/19/2006	7/13/2006	7/20/2006	7/21/2006	7/24/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
PHENANTHRENE	5600		1189000	UG/KG	8.4 U	8.1 U	3.9 J	330	8.3 U	8.1 U
PHENOL	1800000	5000000	250.1	UG/KG	42 U	40 U	19 U	39 U	42 U	41 U
PYRENE	230000	200000	16760000	UG/KG	8.4 U	8.1 U	15	21	8.3 U	8.1 U
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	2400	2900	6608000	UG/KG	2.1 U	2.0 U	1.9 U	2.0 U	2.1 U	2.0 U
4,4'-DDE	1700	2100	2592000	UG/KG	2.1 U	2.0 U	1.9 U	2.0 U	2.1 U	2.0 U
4,4'-DDT	1700	2100	85.5	UG/KG	2.1 U	2.0 U	1.9 U	2.0 U	2.1 U	2.0 U
AROCLOR 1254	110	1000	335400	UG/KG	21 U	20 U	19 U	20 U	21 U	20 U
ENDOSULFAN I	37000		2344000	UG/KG	2.1 U	2.0 U	1.9 U	2.0 U	2.1 U	2.0 U
ENDRIN	1800	20000	667900	UG/KG	2.1 U	2.0 U	1.9 U	2.0 U	2.1 U	2.0 U
ENDRIN ALDEHYDE	1800		303600	UG/KG	2.1 U	2.0 U	1.9 U	2.0 U	2.1 U	2.0 U
Explosives (8330)										
4-NITROTOLUENE	12000		8150	UG/KG	200 U	200 U	200 U	550 J	200 U	200 U
NITROBENZENE	2000	4000	419	UG/KG	76 J	99 U	100 U	100 U	100 U	100 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	7600		54000000	MG/KG	**13400**	**17300**	**18700**	**13600**	**13400**	**11700**
ANTIMONY	3.1		135.3	MG/KG	.98 U	.96 U	0.83 U	.83 U	.88 U	.82 U
ARSENIC	0.39		5003	MG/KG	**3.2 J**	**4.3 J**	**4.1 J**	**2.7 J**	**2.6 J**	**3.7 J**
BARIUM	540		41110	MG/KG	94.3	152	151	134 J	92.4	92.3
BERYLLIUM	15		2370	MG/KG	0.64	0.75	0.82	0.62	0.42	0.52
BORON	1600		3107	MG/KG	8.8 J	5.6 J	16.7 U	16.6 U	17.6 U	16.4 U
CADMIUM	3.7		375.5	MG/KG	0.22 J	0.29 J	0.31 J	0.2	0.18 J	0.18 J
CALCIUM				MG/KG	64400	12400	4500	46800	5220	29800
CHROMIUM	22		90000000	MG/KG	20.2	**28.4**	**22**	18.5	14.4	16.5
COBALT	140		32930	MG/KG	9.4	10.6	8.9	9.8	6.1	8.6
COPPER	310		85620	MG/KG	2 U	28.4	1.7 U	22.6	13.4	29.9
IRON	2300		7532	MG/KG	**24500**	**26900**	**25700**	**23900**	**17100**	**20300**
LEAD	400		22500	MG/KG	26.5	7.8	8.1	6.6	7.7	5.9
LITHIUM	160			MG/KG	23.4	21.1	28.2	23.5	15.3	24
MAGNESIUM				MG/KG	16900	8040	4760 J	9470	3020 J	8270 J
MANGANESE	180		19530	MG/KG	**587**	**985**	**589**	**1040**	**476**	**540**
MERCURY	2.3		36.53	MG/KG	0.023 J	0.024 J	0.044	0.012 J	0.039 J	0.021 J
MOLYBDENUM	39		3619	MG/KG	0.42 J	0.37 J	0.6 J	4.2 U	0.4 J	0.55 J
NICKEL	160		602.1	MG/KG	21.1 J	22.9 J	20.4	21.1	10.6	18.2
POTASSIUM				MG/KG	2480 J	1930 J	1190 J	2130 J	882 U	1980 J

TABLE 5-14 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	AW	AW	DW	SN	SN	SN
				Excavation:	X15	X23	X10	X26	X28	X30
				Sample Name:	C7-SOM-SO-X15-UN01-6.5	C7-SOM-SO-X23-AW01-8	C7-SOM-SO-X10-DW01-1.5	C7-SOM-SO-X26-SN01-8	C7-SOM-SO-X28-SN01-8	C7-SOM-SO-X30-SN01-8
				Sample Depth:	6.5 FT	8 FT	1.5 FT	8 FT	8 FT	8 FT
				Sample Date:	7/17/2006	7/19/2006	7/13/2006	7/20/2006	7/21/2006	7/24/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
SELENIUM	39		3001	MG/KG	4.9 U	4.8 U	1 J	4.2 U	4.4 U	0.87 J
SILVER	39		420.4	MG/KG	0.047 J	0.052 J	0.073 J	0.055 J	.26 U	0.045 J
SODIUM				MG/KG	165 J	103 J	834 U	831 U	882 U	820 U
VANADIUM	7.8		36000	MG/KG	**30.3**	**32.8**	**37.5 J**	**26.2 J**	**25 J**	**24.6 J**
ZINC	2300		124200	MG/KG	9.8 U	9.6 U	8.3 U	8.3 U	8.8 U	8.2 U
General Chemistry										
PERCENT SOLIDS				%			86	85	80	82
TOTAL ORGANIC CARBON				MG/KG						

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.
Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-14 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	UN	UN	UN	UN	UN
				Excavation:	X33	X01	X02	X02	X03	X04
				Sample Name:	C7-SOM-SO-X33-SN01-4.5	C7-SOM-SO-X01-UN01-1	C7-SOM-SO-X02-UN01-1	C7-SOM-SO-X02-UN02-4	C7-SOM-SO-X03-UN01-1	C7-SOM-SO-X04-UN01-4
				Sample Depth:	4.5 FT	1 FT	1 FT	4 FT	1 FT	4 FT
				Sample Date:	7/25/2006	7/10/2006	7/10/2006	7/10/2006	7/11/2006	7/11/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
2-BUTANONE	2200000	400000	6476	UG/KG	11 U	10 U	12 U	9.1 U	9.6 U	9.4 U
ACETONE	1400000	800000	5514	UG/KG	30 J	10 U	12 U	9.1 U	13 U	9.4 U
BENZENE	640	24000	453.8	UG/KG	5.5 U	5.1 U	5.8 U	4.5 U	4.8 U	4.7 U
CHLOROBENZENE	15000	200000	7253	UG/KG	2.1 J	5.1 U	5.8 U	4.5 U	4.8 U	4.7 U
CIS-1,2-DICHLOROETHENE	4300	80000	1575	UG/KG	5.5 U	5.1 U	5.8 U	4.5 U	4.8 U	4.7 U
ETHYLBENZENE	40000	800000	5749	UG/KG	5.5 U	5.1 U	5.8 U	4.5 U	4.8 U	4.7 U
ISOPROPYLBENZENE	57000		21090	UG/KG	5.5 U	5.1 U	5.8 U	4.5 U	4.8 U	4.7 U
M+P-XYLENE	27000	20000000		UG/KG	5.5 U	5.1 U	5.8 U	4.5 U	4.8 U	4.7 U
METHYLENE CHLORIDE	9100	93000	862.5	UG/KG	11 U	6.7 J	12 U	3.9 J	4.3 J	3.1 U
O-XYLENE	27000	20000000		UG/KG	5.5 U	5.1 U	5.8 U	4.5 U	4.8 U	4.7 U
STYRENE	170000		13390	UG/KG	5.5 U	5.1 U	5.8 U	4.5 U	4.8 U	4.7 U
TOLUENE	52000	2000000	4226	UG/KG	5.5 U	5.1 U	5.8 U	4.5 U	4.8 U	4.7 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2-BENZPHENANTHRACENE	62000		3943	UG/KG	180	730	52	29	16	7.5 U
2-METHYLNAPHTHALENE	5600		147800	UG/KG	7.3 J	11 J	3.8 U	3.8 U	39 U	37 U
4-METHYLPHENOL	31000	400000	90940	UG/KG	41 U	39 U	38 U	38 U	39 U	37 U
ACENAPHTHENE	370000	500000	485100	UG/KG	61	80	3.8 U	3.8 U	7.8 U	7.5 U
ACENAPHTHYLENE	370000		199500	UG/KG	8.1 U	7.9 U	3.8 U	3.8 U	7.8 U	7.5 U
ANTHRACENE	2200000	2000000	5919000	UG/KG	160	220	12	6.8	7.8 U	7.5 U
BENZ[A]ANTHRACENE	620	224	3923	UG/KG	240	**780**	70	20	16	7.5 U
BENZO[A]PYRENE	62	60.9		UG/KG	**180**	**530**	45	24	14	7.5 U
BENZO[B]FLUORANTHENE	620	224	12120	UG/KG	220	**780**	49	34	17	7.5 U
BENZO[GHI]PERYLENE	230000			UG/KG	92	170 J	73 J	48 J	7 J	7.5 U
BENZO[K]FLUORANTHENE	6200	224	12120	UG/KG	67	240	33	19	7.4 J	7.5 U
CARBAZOLE	24000		1135	UG/KG	53 J	160	4.9 J	6.1 J	7.8 U	7.5 U
DIBENZ[A,H]ANTHRACENE	62	14.3	172300	UG/KG	30	**67 J**	24 J	14 J	7.8 U	7.5 U
DIBENZOFURAN	15000		462500	UG/KG	22	28	19 U	19 U	7.8 U	7.5 U
DI-N-BUTYL PHTHALATE	610000	800000	8358000	UG/KG	8.1 U	7.9 U	19 U	19 U	7.8 U	7.5 U
FLUORANTHENE	230000	300000	26370000	UG/KG	520	790	92	45	34	3.7 J
FLUORENE	270000	300000	1952000	UG/KG	66	61	3.8 U	3.8 U	7.8 U	7.5 U
HEXACHLORO-1,3-BUTADIENE	1800		132400	UG/KG	8.1 U	7.9 U	19 U	19 U	7.8 U	7.5 U
INDENO[1,2,3-CD]PYRENE	620		34200	UG/KG	86	170 J	62 J	45 J	7.8 U	7.5 U
ISOPHORONE	510000	1707000	28020	UG/KG	8.1 U	7.9 U	19 U	19 U	7.8 U	7.5 U
NAPHTHALENE	5600	30000	60240	UG/KG	9.7	18	3.8 U	3.8 U	7.8 U	7.5 U

TABLE 5-14 SUMMARY OF REPORTED CONCENTRAT...S IN SUBSURFACE SOIL, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	UN	UN	UN	UN	UN
				Excavation:	X33	X01	X02	X02	X03	X04
				Sample Name:	C7-SOM-SO-X33-SN01-4.5	C7-SOM-SO-X01-UN01-1	C7-SOM-SO-X02-UN01-1	C7-SOM-SO-X02-UN02-4	C7-SOM-SO-X03-UN01-1	C7-SOM-SO-X04-UN01-4
				Sample Depth:	4.5 FT	1 FT	1 FT	4 FT	1 FT	4 FT
				Sample Date:	7/25/2006	7/10/2006	7/10/2006	7/10/2006	7/11/2006	7/11/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
PHENANTHRENE	5600		1189000	UG/KG	410	640	32	26	10	7.5 U
PHENOL	1800000	5000000	250.1	UG/KG	41 U	39 U	38 U	38 U	39 U	37 U
PYRENE	230000	200000	16760000	UG/KG	300 J	680 J	110	52	24	3.4 J
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	2400	2900	6608000	UG/KG	2	2 U	1.9 U	1.9 U	1.9 U	1.9 U
4,4'-DDE	1700	2100	2592000	UG/KG	2.0 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U
4,4'-DDT	1700	2100	85.5	UG/KG	2.0 U	2 U	1.9 U	1.4 J	1.9 U	1.9 U
AROCLOR 1254	110	1000	335400	UG/KG	20 U	20 U	19 U	12 J	19 U	19 U
ENDOSULFAN I	37000		2344000	UG/KG	2.0 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U
ENDRIN	1800	20000	667900	UG/KG	2.0 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U
ENDRIN ALDEHYDE	1800		303600	UG/KG	2.0 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U
Explosives (8330)										
4-NITROTOLUENE	12000		8150	UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
NITROBENZENE	2000	4000	419	UG/KG	99 U	100 U	99 U	100 U	100 U	98 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	7600		54000000	MG/KG	**15900**	**12300**	**13800**	**12200**	**14400**	**12600**
ANTIMONY	3.1		135.3	MG/KG	1 U	0.87 U	0.78 U	0.82 U	.84 U	0.17 J
ARSENIC	0.39		5003	MG/KG	**1.7 J**	**5.2**	**3.5 J**	**4.1 J**	**6**	**5.5 D**
BARIUM	540		41110	MG/KG	152	120	198	102 D	137 J	105 J
BERYLLIUM	15		2370	MG/KG	0.79	0.66	0.65	0.57	0.74	0.61
BORON	1600		3107	MG/KG	4.3 J	17.5 U	15.6 U	16.4 U	16.9 U	17.2 U
CADMIUM	3.7		375.5	MG/KG	0.28 J	0.27 J	0.25 J	0.13 J	0.3 J	0.22 J
CALCIUM				MG/KG	21700	5630	21400	53500	3480	56700
CHROMIUM	22		90000000	MG/KG	20.6	17	**30.7**	**23.7**	19.5	**23.2**
COBALT	140		32930	MG/KG	8.2	7.4	7.3	9.1	13	8.9
COPPER	310		85620	MG/KG	25.9	1.7 U	1.6 U	1.6 U	1.7 U	1.7 U
IRON	2300		7532	MG/KG	**20400**	**23300**	**19300**	**22400**	**35100**	**25400**
LEAD	400		22500	MG/KG	6.8	8.5	20.2	5.8	6.7	6.9
LITHIUM	160			MG/KG	23.8	18.5	20.6	19.4	18.7	20.2
MAGNESIUM				MG/KG	5970	3400 J	7120 J	9380 J	5200	9230
MANGANESE	180		19530	MG/KG	**494**	**285**	**967**	**855**	**466**	**741**
MERCURY	2.3		36.53	MG/KG	.036 U	0.034	0.014 J	0.028 U	.031 U	0.0089 J
MOLYBDENUM	39		3619	MG/KG	0.33 J	1 J	0.55 J	0.43 J	4.2 U	4.3 U
NICKEL	160		602.1	MG/KG	19.2 J	15.5	17.9	20.4	25.2	20.1
POTASSIUM				MG/KG	1770 J	875 U	1110 J	2000 J	1320 J	1930 J

TABLE 5-14 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	UN	UN	UN	UN	UN
				Excavation:	X33	X01	X02	X02	X03	X04
				Sample Name:	C7-SOM-SO-X33-SN01-4.5	C7-SOM-SO-X01-UN01-1	C7-SOM-SO-X02-UN01-1	C7-SOM-SO-X02-UN02-4	C7-SOM-SO-X03-UN01-1	C7-SOM-SO-X04-UN01-4
				Sample Depth:	4.5 FT	1 FT	1 FT	4 FT	1 FT	4 FT
				Sample Date:	7/25/2006	7/10/2006	7/10/2006	7/10/2006	7/11/2006	7/11/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
SELENIUM	39		3001	MG/KG	5 U	1.3 J	0.77 J	0.84 J	1.2 J	4.3 U
SILVER	39		420.4	MG/KG	0.047 J	0.079 J	0.063 J	0.046 J	0.049 J	0.052 J
SODIUM				MG/KG	119 J	875 U	781 U	819 U	843 U	858 U
VANADIUM	7.8		36000	MG/KG	**29.6**	**33 J**	**26.3 J**	**26 J**	**32.7 J**	**30 J**
ZINC	2300		124200	MG/KG	10 U	8.7 U	7.8 U	8.2 U	8.4 U	8.6 U
General Chemistry										
PERCENT SOLIDS				%	82	85	88	88	86	89
TOTAL ORGANIC CARBON				MG/KG						6600

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004

Crit2: New York State TAGM 4046 Soil, 1999

Crit3: Site Specific Soil Screening Levels (SSLs)

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-14 SUMMARY OF REPORTED CONCENTRA1. .S IN SUBSURFACE SOIL, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	UN	UN	UN
				Excavation:	X06	X07	X09	X09	X18	X20
				Sample Name:	C7-SOM-SO-X06-UN01-4	C7-SOM-SO-X07-UN01-9	C7-SOM-SO-X09-UN01-4	C7-SOM-SO-DUP1	C7-SOM-SO-X18-UN01-3.5	C7-SOM-SO-X20-UN01-2.5
				Sample Depth:	4 FT	9 FT	4 FT	4 FT	3.5 FT	2.5 FT
				Sample Date:	7/11/2006	7/12/2006	7/13/2006	7/13/2006	7/18/2006	7/19/2006
				Parent Name:				C7-SOM-SO-X09-UN01-4		
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
2-BUTANONE	2200000	400000	6476	UG/KG	10 U	11 U	9.4 U	9.4 U	9.4 U	11 U
ACETONE	1400000	800000	5514	UG/KG	10 U	11 U			9.4 U	11 U
BENZENE	640	24000	453.8	UG/KG	5.1 U	5.5 U	4.7 U	4.7 U	4.7 U	5.4 U
CHLOROBENZENE	15000	200000	7253	UG/KG	5.1 U	5.5 U	4.7 U	4.7 U	4.7 U	5.4 U
CIS-1,2-DICHLOROETHENE	4300	80000	1575	UG/KG	5.1 U	5.5 U	4.7 U	4.7 U	4.7 U	5.4 U
ETHYLBENZENE	40000	800000	5749	UG/KG	5.1 U	5.5 U	4.7 U	4.7 U	4.7 U	5.4 U
ISOPROPYLBENZENE	57000		21090	UG/KG	5.1 U	5.5 U	4.7 U	4.7 U	4.7 U	5.4 U
M+P-XYLENE	27000	20000000		UG/KG	5.4 U	5.5 U	4.7 U	4.7 U	4.7 U	5.4 U
METHYLENE CHLORIDE	9100	93000	862.5	UG/KG	5.3 J	11 U	4.7 U	9.4 U	8.5 J	3.4 J
O-XYLENE	27000	20000000		UG/KG	5.4 U	5.5 U	4.7 U	4.7 U	4.7 U	5.4 U
STYRENE	170000		13390	UG/KG	5.1 J	5.5 U	4.7 U	4.7 U	4.7 U	5.4 U
TOLUENE	52000	2000000	4226	UG/KG	5.1 U	5.5 U	4.7 U	4.7 U	4.7 U	5.4 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2-BENZPHENANTHRACENE	62000		3943	UG/KG	5.4	7.5 U	3.4 J	3.8 U	7.6 U	8.1 U
2-METHYLNAPHTHALENE	5600		147800	UG/KG	3.6 U	37 U	3.8 U	3.8 U	7.6 U	8.1 U
4-METHYLPHENOL	31000	400000	90940	UG/KG	36 U	37 U	19 U	19 U	7.6 U	41 U
ACENAPHTHENE	370000	500000	485100	UG/KG	3.6 U	7.5 U	3.8 U	3.8 U	7.6 U	8.1 U
ACENAPHTHYLENE	370000		199500	UG/KG	3.6 U	7.5 U	3.8 U	3.8 U	7.6 U	8.1 U
ANTHRACENE	2200000	2000000	5919000	UG/KG	3.6 U	7.5 U	3.8 U	3.8 U	7.6 U	8.1 U
BENZ[A]ANTHRACENE	620	224	3923	UG/KG	4.7	7.5 U	4.6	3.8 U	7.6 U	8.1 U
BENZO[A]PYRENE	62	60.9		UG/KG	14	7.5 U	3.8 U	3.8 U	7.6 U	8.1 U
BENZO[B]FLUORANTHENE	620	224	12120	UG/KG	16	7.5 U	3.8 U	3.8 U	7.6 U	8.1 U
BENZO[GHI]PERYLENE	230000			UG/KG	21 J	7.5 U	3.8 U	3.8 U	7.6 U	8.1 U
BENZO[K]FLUORANTHENE	6200	224	12120	UG/KG	7.2	7.5 U	3.8 U	3.8 U	7.6 U	8.1 U
CARBAZOLE	24000		1135	UG/KG	18 U	7.5 U	19 U	19 U	7.6 U	8.1 U
DIBENZ[A,H]ANTHRACENE	62	14.3	172300	UG/KG	3.6 U	7.5 U	3.8 U	3.8 U	7.6 U	8.1 U
DIBENZOFURAN	15000		462500	UG/KG	18 U	7.5 U	19 U	19 U	7.6 U	8.1 U
DI-N-BUTYL PHTHALATE	610000	800000	8358000	UG/KG	18 U	7.5 U	19 U	19 U	7.6 U	8.1 U
FLUORANTHENE	230000	300000	26370000	UG/KG	7.6	2.6 J	6.5	3.8 J	7.6 U	8.1 U
FLUORENE	270000	300000	1952000	UG/KG	3.6 U	7.5 U	3.8 U	3.8 U	7.6 U	8.1 U
HEXACHLORO-1,3-BUTADIENE	1800		132400	UG/KG	18 U	7.5 U	19 U	19 U	7.6 U	8.1 U
INDENO[1,2,3-CD]PYRENE	620		34200	UG/KG	22 J	7.5 U	3.8 U	3.8 U	7.6 U	8.1 U
ISOPHORONE	510000	1707000	28020	UG/KG	18 U	7.5 U	19 U	19 U	7.6 U	8.1 U
NAPHTHALENE	5600	30000	60240	UG/KG	3.6 U	7.5 U	3.8 U	3.8 U	7.6 U	8.1 U

TABLE 5-14 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	UN	UN	UN
				Excavation:	X06	X07	X09	X09	X18	X20
				Sample Name:	C7-SOM-SO-X06-UN01-4	C7-SOM-SO-X07-UN01-9	C7-SOM-SO-X09-UN01-4	C7-SOM-SO-DUP1	C7-SOM-SO-X18-UN01-3.5	C7-SOM-SO-X20-UN01-2.5
				Sample Depth:	4 FT	9 FT	4 FT	4 FT	3.5 FT	2.5 FT
				Sample Date:	7/11/2006	7/12/2006	7/13/2006	7/13/2006	7/18/2006	7/19/2006
				Parent Name:				C7-SOM-SO-X09-UN01-4		
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
PHENANTHRENE	5600		1189000	UG/KG	2.9 J	7.5 U	3.8 U	3.8 U	7.6 U	8.1 U
PHENOL	1800000	5000000	250.1	UG/KG	36 U	37 U	19 U	19 U	38 U	41 U
PYRENE	230000	200000	16760000	UG/KG	7.9	7.5 U	5	3.8 U	7.6 U	8.1 U
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	2400	2900	6608000	UG/KG	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U
4,4'-DDE	1700	2100	2592000	UG/KG	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U
4,4'-DDT	1700	2100	85.5	UG/KG	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U
AROCLOR 1254	110	1000	335400	UG/KG	18 U	19 U	19 U	19 U	19 U	20 U
ENDOSULFAN I	37000		2344000	UG/KG	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U
ENDRIN	1800	20000	667900	UG/KG	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U
ENDRIN ALDEHYDE	1800		303600	UG/KG	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U
Explosives (8330)										
4-NITROTOLUENE	12000		8150	UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
NITROBENZENE	2000	4000	419	UG/KG	100 U	100 U	100 U	100 U	35 J	40 J
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	7600		54000000	MG/KG	**12500**	**11300**	**12700**	**12100**	**13500**	**18100**
ANTIMONY	3.1		135.3	MG/KG	.81 U	0.75 U	0.87 U	0.85 U	.86 U	.98 U
ARSENIC	0.39		5003	MG/KG	**3.9 J**	**4.2**	**4.4**	**4.3**	**4 J**	**5.2**
BARIUM	540		41110	MG/KG	118 J	142 J	246 J	164 J	111 J	129
BERYLLIUM	15		2370	MG/KG	0.56	0.5	0.58 J	0.58 J	0.63	0.86
BORON	1600		3107	MG/KG	16.1 U	15 U	17.3 U	17 U	17.2 U	11.3 J
CADMIUM	3.7		375.5	MG/KG	0.26 J	0.23 J	0.13 J	0.15 J	0.19 J	0.18 J
CALCIUM				MG/KG	53000	47100	59300	63600	55100	87600
CHROMIUM	22		90000000	MG/KG	17.1	15.6	**63.9**	**54.6**	19	**26.8**
COBALT	140		32930	MG/KG	8.4	8.1	9.6	10.6	10.7	14.3
COPPER	310		85620	MG/KG	1.6 U	1.5 U	1.7 U	1.7 U	1.7 U	2 U
IRON	2300		7532	MG/KG	**22800**	**21600**	**26500**	**27000**	**25300**	**30900**
LEAD	400		22500	MG/KG	6.3	5.9	6.4	6.5	6.7	8.6
LITHIUM	160			MG/KG	21.6	19.4	20.3	19.8	21.4	71.8
MAGNESIUM				MG/KG	8310	9020	9470 J	9370 J	9680	12300
MANGANESE	180		19530	MG/KG	**777**	**874**	**815**	**1040**	**851**	**820**
MERCURY	2.3		36.53	MG/KG	0.014 J	0.033 U	0.0082 J	0.03 U	0.02 J	0.017 J
MOLYBDENUM	39		3619	MG/KG	4 U	3.8 U	0.51 J	0.54 J	4.3 U	0.61 J
NICKEL	160		602.1	MG/KG	19.8	18.5	20.7	21.3	23	29.7 J
POTASSIUM				MG/KG	1600 J	1480 J	2040 J	2100 J	1970 J	3060 J

TABLE 5-14 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	UN	UN	UN
				Excavation:	X06	X07	X09	X09	X18	X20
				Sample Name:	C7-SOM-SO-X06-UN01-4	C7-SOM-SO-X07-UN01-9	C7-SOM-SO-X09-UN01-4	C7-SOM-SO-DUP1	C7-SOM-SO-X18-UN01-3.5	C7-SOM-SO-X20-UN01-2.5
				Sample Depth:	4 FT	9 FT	4 FT	4 FT	3.5 FT	2.5 FT
				Sample Date:	7/11/2006	7/12/2006	7/13/2006	7/13/2006	7/18/2006	7/19/2006
				Parent Name:				C7-SOM-SO-X09-UN01-4		
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
SELENIUM	39		3001	MG/KG	4 U	0.74 J	0.86 J	1 J	4.3 U	4.9 U
SILVER	39		420.4	MG/KG	0.065 J	0.045 J	0.04 J	0.05 J	0.03 J	0.044 J
SODIUM				MG/KG	806 U	751 U	867 U	852 U	861 U	189 J
VANADIUM	7.8		36000	MG/KG	**25.9 J**	**25 J**	**27.1 J**	**26 J**	**27.9 J**	**38.8**
ZINC	2300		124200	MG/KG	8.1 U	7.5 U	8.7 U	8.5 U	8.6 U	9.8 U
General Chemistry										
PERCENT SOLIDS				%	93	89	87	87	88	
TOTAL ORGANIC CARBON				MG/KG						

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004

Crit2: New York State TAGM 4046 Soil, 1999

Crit3: Site Specific Soil Screening Levels (SSLs)

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-14 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	UN	UN	UN
				Excavation:	X22	X27	X35	X36	X36	X37
				Sample Name:	C7-SOM-SO-X22-UN01-3	C7-SOM-SO-X27-UN01-5.5	C7-SOM-SO-X35-UN01-5.5	C7-SOM-SO-X36-UN01-3.5	C7-SOM-SO-X36-UN01-4	C7-SOM-SO-X37-UN01-7
				Sample Depth:	3 FT	5.5 FT	5.5 FT	3.5 FT	4 FT	7 FT
				Sample Date:	7/19/2006	7/21/2006	7/25/2006	7/26/2006	7/26/2006	7/26/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
2-BUTANONE	2200000	400000	6476	UG/KG	9.5 U	9.7 U	11 U	11 U	10 U	10 U
ACETONE	1400000	800000	5514	UG/KG	9.5 U	9.7 U	11 U	11 U	10 U	10 U
BENZENE	640	24000	453.8	UG/KG	4.8 U	4.9 U	5.7 U	5.4 U	5.0 U	5.1 U
CHLOROBENZENE	15000	200000	7253	UG/KG	4.8 U	4.9 U	5.7 U	5.4 U	5.0 U	5.1 U
CIS-1,2-DICHLOROETHENE	4300	80000	1575	UG/KG	4.8 U	4.9 U	5.7 U	5.4 U	5.0 U	5.1 U
ETHYLBENZENE	40000	800000	5749	UG/KG	4.8 U	4.9 U	5.7 U	5.4 U	5.0 U	5.1 U
ISOPROPYLBENZENE	57000		21090	UG/KG	4.8 U	4.9 U	5.7 U	5.4 U	5.0 U	5.1 U
M+P-XYLENE	27000	20000000		UG/KG	4.8 U	4.9 U	5.7 U	5.4 U	5.0 U	5.1 U
METHYLENE CHLORIDE	9100	93000	862.5	UG/KG	3.1 J	9.7 U	11 U	11 U	10 U	10 U
O-XYLENE	27000	20000000		UG/KG	4.8 U	4.9 U	5.7 U	5.4 U	5.0 U	5.1 U
STYRENE	170000		13390	UG/KG	4.8 U	4.9 U	5.7 U	5.4 U	5.0 U	5.1 U
TOLUENE	52000	2000000	4226	UG/KG	4.8 U	4.9 U	5.7 U	5.4 U	5.0 U	5.1 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2-BENZPHENANTHRACENE	62000		3943	UG/KG	7.8 U	7.9 U	8.4 U	200 J	8.0 U	8.4 U
2-METHYLNAPHTHALENE	5600		147800	UG/KG	7.8 U	7.9 U	8.4 U	8.2 U	8.0 U	8.4 U
4-METHYLPHENOL	31000	400000	90940	UG/KG	39 U	40 U	42 U	9 J	40 U	42 U
ACENAPHTHENE	370000	500000	485100	UG/KG	7.8 U	7.9 U	8.4 U	5.3 J	8.0 U	8.4 U
ACENAPHTHYLENE	370000		199500	UG/KG	7.8 U	7.9 U	8.4 U	13 J	8.0 U	8.4 U
ANTHRACENE	2200000	2000000	5919000	UG/KG	7.8 U	7.9 U	8.4 U	42 J	8.0 U	8.4 U
BENZ[A]ANTHRACENE	620	224	3923	UG/KG	7.8 U	7.9 U	8.4 U	220 J	8.0 U	4.6 J
BENZO[A]PYRENE	62	60.9		UG/KG	7.8 U	7.9 U	8.4 U	**180 J**	8.0 U	8.4 U
BENZO[B]FLUORANTHENE	620	224	12120	UG/KG	7.8 U	7.9 U	8.4 U	300 J	8.0 U	4.6 J
BENZO[GHI]PERYLENE	230000			UG/KG	7.8 U	7.9 U	8.4 U	52 J	8.0 U	8.4 U
BENZO[K]FLUORANTHENE	6200	224	12120	UG/KG	7.8 U	7.9 U	8.4 U	88 J	8.0 U	8.4 U
CARBAZOLE	24000		1135	UG/KG	7.8 U	7.9 U	8.4 U	17 J	8.0 U	8.4 U
DIBENZ[A,H]ANTHRACENE	62	14.3	172300	UG/KG	7.8 U	7.9 U	8.4 U	17 J	8.0 U	8.4 U
DIBENZOFURAN	15000		462500	UG/KG	7.8 U	7.9 U	8.4 U	8.2 U	8.0 U	8.4 U
DI-N-BUTYL PHTHALATE	610000	800000	8358000	UG/KG	4.7 J	7.9 U	8.4 U	8.2 U	8 U	8.4 U
FLUORANTHENE	230000	300000	26370000	UG/KG	7.8 U	7.9 U	8.4 U	210 J	8.0 U	5.5 J
FLUORENE	270000	300000	1952000	UG/KG	7.8 U	7.9 U	8.4 U	9 J	8.0 U	8.4 U
HEXACHLORO-1,3-BUTADIENE	1800		132400	UG/KG	7.8 U	7.9 U	8.4 U	8.2 U	8.0 U	8.4 U
INDENO[1,2,3-CD]PYRENE	620		34200	UG/KG	7.8 U	7.9 U	8.4 U	56 J	8.0 U	8.4 U
ISOPHORONE	510000	1707000	28020	UG/KG	7.8 U	7.9 U	8.4 U	8.2 U	8.0 U	8.4 U
NAPHTHALENE	5600	30000	60240	UG/KG	7.8 U	7.9 U	8.4 U	8.2 U	8.0 U	8.4 U

TABLE 5-14 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	UN	UN	UN
				Excavation:	X22	X27	X35	X36	X36	X37
				Sample Name:	C7-SOM-SO-X22-UN01-3	C7-SOM-SO-X27-UN01-5.5	C7-SOM-SO-X35-UN01-5.5	C7-SOM-SO-X36-UN01-3.5	C7-SOM-SO-X36-UN01-4	C7-SOM-SO-X37-UN01-7
				Sample Depth:	3 FT	5.5 FT	5.5 FT	3.5 FT	4 FT	7 FT
				Sample Date:	7/19/2006	7/21/2006	7/25/2006	7/26/2006	7/26/2006	7/26/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
PHENANTHRENE	5600		1189000	UG/KG	7.8 U	7.9 U	8.4 U	130 J	8.0 U	8.4 U
PHENOL	1800000	5000000	250.1	UG/KG	39 U	40 U	42 U	12 J	40 U	42 U
PYRENE	230000	200000	16760000	UG/KG	7.8 U	7.9 U	8.4 U	230 J	8.0 U	5.5 J
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	2400	2900	6608000	UG/KG	1.9 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U
4,4'-DDE	1700	2100	2592000	UG/KG	1.9 U	2.0 U	2.1 U	13 J	2.0 U	2.1 U
4,4'-DDT	1700	2100	85.5	UG/KG	1.9 U	2.0 U	2.1 U	37 J	2.0 U	2.1 U
AROCLOR 1254	110	1000	335400	UG/KG	19 U	20 U	21 U	**1100**	20 U	21 U
ENDOSULFAN I	37000		2344000	UG/KG	1.9 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U
ENDRIN	1800	20000	667900	UG/KG	1.9 U	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U
ENDRIN ALDEHYDE	1800		303600	UG/KG	1.9 U	2.0 U	2.1 U	4.6 J	2.0 U	2.1 U
Explosives (8330)										
4-NITROTOLUENE	12000		8150	UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
NITROBENZENE	2000	4000	419	UG/KG	26 J	99 U	100 U	100 U	29 J	17 J
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	7600		54000000	MG/KG	**15500**	**13600**	**10500**	2660	**16900**	**12200**
ANTIMONY	3.1		135.3	MG/KG	.89 U	.89 U	.96 U	3 J	0.15 J	1 U
ARSENIC	0.39		5003	MG/KG	**4.1 J**	**4.6**	**1.3 J**	**34.8**	**4.9**	**3.9 J**
BARIUM	540		41110	MG/KG	157	106	93.3	178	109	125
BERYLLIUM	15		2370	MG/KG	0.66	0.56	0.33	0.18 J	0.8	0.65
BORON	1600		3107	MG/KG	4 J	17.7 U	19.2 U	22.8	7 J	6 J
CADMIUM	3.7		375.5	MG/KG	0.19 J	0.17 J	0.16 J	**11.1**	0.22 J	0.27 J
CALCIUM				MG/KG	4060	32400	1980	51900	23900	22300
CHROMIUM	22		90000000	MG/KG	21.8	17.1	13.5	**191**	**32.6**	**44.5**
COBALT	140		32930	MG/KG	9.1	9	5	55.9	11.3	7.9
COPPER	310		85620	MG/KG	35.8	31.2	23.6	285	30.1	22
IRON	2300		7532	MG/KG	**26000**	**24400**	**16400**	**429000**	**29800**	**21500**
LEAD	400		22500	MG/KG	5.8	7	4.8	186	9.3	8.9
LITHIUM	160			MG/KG	22.9	23.2	13.4	16.8	47.9	22.8
MAGNESIUM				MG/KG	5040	7610 J	2320	3900	8290	5830
MANGANESE	180		19530	MG/KG	**652**	**811**	**331**	**4890**	**655**	**698**
MERCURY	2.3		36.53	MG/KG	.036 U	0.015 J	0.012 J	0.022 J	0.026 J	0.034
MOLYBDENUM	39		3619	MG/KG	0.42 J	0.45 J	4.8 U	17.9	0.76 J	0.56 J
NICKEL	160		602.1	MG/KG	22 J	19.1	11.5 J	84.2 J	24.4 J	14.9 J
POTASSIUM				MG/KG	1610 J	1640 J	961 U	907 U	2280 J	1430 J

TABLE 5-14 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	UN	UN	UN
				Excavation:	X22	X27	X35	X36	X36	X37
				Sample Name:	C7-SOM-SO-X22-UN01-3	C7-SOM-SO-X27-UN01-5.5	C7-SOM-SO-X35-UN01-5.5	C7-SOM-SO-X36-UN01-3.5	C7-SOM-SO-X36-UN01-4	C7-SOM-SO-X37-UN01-7
				Sample Depth:	3 FT	5.5 FT	5.5 FT	3.5 FT	4 FT	7 FT
				Sample Date:	7/19/2006	7/21/2006	7/25/2006	7/26/2006	7/26/2006	7/26/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
SELENIUM	39		3001	MG/KG	4.5 U	0.91 J	4.8 U	4.5 U	4.4 U	2.8 J
SILVER	39		420.4	MG/KG	0.061 J	0.04 J	0.028 J	0.12 J	0.042 J	0.045 J
SODIUM				MG/KG	83.3 J	885 U	47.7 J	124 J	112 J	92.1 J
VANADIUM	7.8		36000	MG/KG	**31.4**	**28 J**	**23.2**	**24.8**	**36.3**	**27.2**
ZINC	2300		124200	MG/KG	8.9 U	8.9 U	9.6 U	658 J	8.7 U	10 U
General Chemistry										
PERCENT SOLIDS				%		84	79	82	84	79
TOTAL ORGANIC CARBON				MG/KG					6500	

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004

Crit2: New York State TAGM 4046 Soil, 1999

Crit3: Site Specific Soil Screening Levels (SSLs)

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-14 SUMMARY OF REPORTED CONCENTRA... NS IN SUBSURFACE SOIL, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	WC	WC	WP
				Excavation:	X38	X38	X38	X16	X17	X14
				Sample Name:	C7-SOM-SO-X38-UN01-2.5	C7-SOM-SO-X38-UN02-2.5	C7-SOM-SO-X38-UN03-7	C7-SOM-SO-X16-CW01-6.5	C7-SOM-SO-X17-CW01-8.5	C7-SOM-SO-X14-UN01-6.5
				Sample Depth:	2.5 FT	2.5 FT	7 FT	6.5 FT	8.5 FT	6.5 FT
				Sample Date:	7/26/2006	7/26/2006	7/26/2006	7/18/2006	7/18/2006	7/17/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
2-BUTANONE	2200000	400000	6476	UG/KG	12 U	11 U	13 U	11 U	9.3 U	9.4 U
ACETONE	1400000	800000	5514	UG/KG	84 J	11 U	13 U	11 U	9.3 U	9.4 U
BENZENE	640	24000	453.8	UG/KG	5.8 U	5.7 U	6.3 U	5.5 U	4.6 U	4.7 U
CHLOROBENZENE	15000	200000	7253	UG/KG	5.8 U	5.7 U	6.3 U	5.5 U	4.6 U	4.7 U
CIS-1,2-DICHLOROETHENE	4300	80000	1575	UG/KG	5.8 U	5.7 U	6.3 U	5.5 U	4.6 U	4.7 U
ETHYLBENZENE	40000	800000	5749	UG/KG	5.8 U	5.7 U	6.3 U	5.5 U	4.6 U	4.7 U
ISOPROPYLBENZENE	57000		21090	UG/KG	5.8 U	5.7 U	6.3 U	5.5 U	4.6 U	4.7 U
M+P-XYLENE	27000	20000000		UG/KG	5.8 U	5.7 U	6.3 U	5.5 U	4.6 U	4.7 U
METHYLENE CHLORIDE	9100	93000	862.5	UG/KG	12 U	11 U	13 U	11 U	9.3 U	5.9 J
O-XYLENE	27000	20000000		UG/KG	5.8 U	5.7 U	6.3 U	5.5 U	4.6 U	4.7 U
STYRENE	170000		13390	UG/KG	5.8 U	5.7 U	6.3 U	5.5 U	4.6 U	4.7 U
TOLUENE	52000	2000000	4226	UG/KG	5.8 U	5.7 U	6.3 U	5.5 U	4.6 U	4.7 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2-BENZPHENANTHRACENE	62000		3943	UG/KG	3.4 J	7.7 U	8.1 U	8.1 U	7.7 U	28
2-METHYLNAPHTHALENE	5600		147800	UG/KG	7.6 U	7.7 U	4.9 J	8.1 U	7.7 U	7.7 U
4-METHYLPHENOL	31000	400000	90940	UG/KG	38 U	38 U	41 U	8.1 U	7.7 U	38 U
ACENAPHTHENE	370000	500000	485100	UG/KG	7.6 U	7.7 U	8.1 U	8.1 U	7.7 U	7.7 U
ACENAPHTHYLENE	370000		199500	UG/KG	7.6 U	7.7 U	8.1 U	8.1 U	7.7 U	7.7 U
ANTHRACENE	2200000	2000000	5919000	UG/KG	7.6 U	7.7 U	6.9 J	8.1 U	7.7 U	16
BENZ[A]ANTHRACENE	620	224	3923	UG/KG	4.6 J	7.7 U	8.1 U	8.1 U	7.7 U	43
BENZO[A]PYRENE	62	60.9		UG/KG	3.8 J	7.7 U	8.1 U	8.1 U	7.7 U	33
BENZO[B]FLUORANTHENE	620	224	12120	UG/KG	7.6 U	7.7 U	8.1 U	8.1 U	7.7 U	42
BENZO[GHI]PERYLENE	230000			UG/KG	7.6 U	7.7 U	8.1 U	8.1 U	7.7 U	20
BENZO[K]FLUORANTHENE	6200	224	12120	UG/KG	7.6 U	7.7 U	8.1 U	8.1 U	7.7 U	15
CARBAZOLE	24000		1135	UG/KG	7.6 U	7.7 U	8.1 U	8.1 U	7.7 U	16
DIBENZ[A,H]ANTHRACENE	62	14.3	172300	UG/KG	7.6 U	7.7 U	8.1 U	8.1 U	7.7 U	6.5 J
DIBENZOFURAN	15000		462500	UG/KG	7.6 U	7.7 U	8.1 U	8.1 U	7.7 U	5 J
DI-N-BUTYL PHTHALATE	610000	800000	8358000	UG/KG	7.6 U	7.7 U	8.1 U	8.1 U	7.7 U	7.7 U
FLUORANTHENE	230000	300000	26370000	UG/KG	8	7.7 U	5.7 J	8.1 U	7.7 U	88
FLUORENE	270000	300000	1952000	UG/KG	7.6 U	7.7 U	8.1 U	8.1 U	7.7 U	9.6
HEXACHLORO-1,3-BUTADIENE	1800		132400	UG/KG	7.6 U	7.7 U	8.1 U	8.1 U	7.7 U	7.7 U
INDENO[1,2,3-CD]PYRENE	620		34200	UG/KG	7.6 U	7.7 U	8.1 U	8.1 U	7.7 U	23
ISOPHORONE	510000	1707000	28020	UG/KG	7.6 U	7.7 U	8.1 U	8.1 U	7.7 U	7.7 U
NAPHTHALENE	5600	30000	60240	UG/KG	7.6 U	7.7 U	8.1 U	8.1 U	7.7 U	7.7 U

TABLE 5-14 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	WC	WC	WP
				Excavation:	X38	X38	X38	X16	X17	X14
				Sample Name:	C7-SOM-SO-X38-UN01-2.5	C7-SOM-SO-X38-UN02-2.5	C7-SOM-SO-X38-UN03-7	C7-SOM-SO-X16-CW01-6.5	C7-SOM-SO-X17-CW01-8.5	C7-SOM-SO-X14-UN01-6.5
				Sample Depth:	2.5 FT	2.5 FT	7 FT	6.5 FT	8.5 FT	6.5 FT
				Sample Date:	7/26/2006	7/26/2006	7/26/2006	7/18/2006	7/18/2006	7/17/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
PHENANTHRENE	5600		1189000	UG/KG	6.1 J	7.7 U	8.1 U	8.1 U	7.7 U	63
PHENOL	1800000	5000000	250.1	UG/KG	38 U	38 U	41 U	40 U	39 U	38 U
PYRENE	230000	200000	16760000	UG/KG	5.7 J	7.7 U	16	8.1 U	7.7 U	55
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	2400	2900	6608000	UG/KG	1.9 U	1.9 U	4.1 J	2.0 U	1.9 U	3.4 J
4,4'-DDE	1700	2100	2592000	UG/KG	1.9 U	1.9 U	2.0 U	2.0 U	1.9 U	1.6 J
4,4'-DDT	1700	2100	85.5	UG/KG	1.9 U	1.9 U	2.0 U	2.0 U	1.9 U	15
AROCLOR 1254	110	1000	335400	UG/KG	19 U	19 U	20 U	20 U	19 U	19 U
ENDOSULFAN I	37000		2344000	UG/KG	1.9 U	1.9 U	0.43 J	2.0 U	1.9 U	1.9 U
ENDRIN	1800	20000	667900	UG/KG	1.9 U	1.9 U	2.2 J	2.0 U	1.9 U	1.9 U
ENDRIN ALDEHYDE	1800		303600	UG/KG	1.9 U	1.9 U	2.0 U	2.0 U	1.9 U	1.9 U
Explosives (8330)										
4-NITROTOLUENE	12000		8150	UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
NITROBENZENE	2000	4000	419	UG/KG	19 J	99 U	20 J	29 J	24 J	42 J
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	7600		54000000	MG/KG	**16400**	**16600**	**16300**	**7760**	**12500**	**9100**
ANTIMONY	3.1		135.3	MG/KG	.88 U	.84 U	0.39 J	.85 U	.85 U	.9 U
ARSENIC	0.39		5003	MG/KG	**4.8**	**4.1 J**	**3.8 J**	**4.4**	**4.8**	**4.3 J**
BARIUM	540		41110	MG/KG	147	119	125	61.8 J	62.2 J	88.7
BERYLLIUM	15		2370	MG/KG	0.7	0.77	0.72	0.37	0.55	0.44
BORON	1600		3107	MG/KG	3.8 J	8.5 J	7.2 J	17 U	17 U	4.9 J
CADMIUM	3.7		375.5	MG/KG	0.2 J	0.2 J	0.54	0.23 J	0.28 J	0.15 J
CALCIUM				MG/KG	16200	59600	32800	43500	47600	49300
CHROMIUM	22		90000000	MG/KG	**22.5**	**25.1**	**43.8**	11.5	18.2	16.5
COBALT	140		32930	MG/KG	10.9	10.6	8.9	6.8	10.1	7.7
COPPER	310		85620	MG/KG	23	23.9	30.3	1.7 U	1.7 U	1.8 U
IRON	2300		7532	MG/KG	**27000**	**26900**	**24600**	**18700**	**25300**	**19400**
LEAD	400		22500	MG/KG	9.4	10.4	27.4	4.6	6.6	5.1
LITHIUM	160			MG/KG	49.9	41.1	114	13.8	22.4	17.2
MAGNESIUM				MG/KG	6190	12000	6830	8740	11000	9250
MANGANESE	180		19530	MG/KG	**879**	**638**	**473**	**637**	**793**	**736**
MERCURY	2.3		36.53	MG/KG	0.027 J	.027 U	0.31	0.015 J	0.011 J	.034 U
MOLYBDENUM	39		3619	MG/KG	0.42 J	0.35 J	2.1 J	4.3 U	4.3 U	0.3 J
NICKEL	160		602.1	MG/KG	21.8 J	24.5 J	41.6 J	14.3	21.9	16.5 J
POTASSIUM				MG/KG	1810 J	2610 J	2190 J	1260 J	2430 J	1520 J

TABLE 5-14 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	UN	UN	UN	WC	WC	WP
				Excavation:	X38	X38	X38	X16	X17	X14
				Sample Name:	C7-SOM-SO-X38-UN01-2.5	C7-SOM-SO-X38-UN02-2.5	C7-SOM-SO-X38-UN03-7	C7-SOM-SO-X16-CW01-6.5	C7-SOM-SO-X17-CW01-8.5	C7-SOM-SO-X14-UN01-6.5
				Sample Depth:	2.5 FT	2.5 FT	7 FT	6.5 FT	8.5 FT	6.5 FT
				Sample Date:	7/26/2006	7/26/2006	7/26/2006	7/18/2006	7/18/2006	7/17/2006
				Parent Name:						
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
SELENIUM	39		3001	MG/KG	4.4 U	4.2 U	4.8 U	4.3 U	4.3 U	4.5 U
SILVER	39		420.4	MG/KG	0.059 J	0.057 J	0.51	0.033 J	0.041 J	0.029 J
SODIUM				MG/KG	95.1 J	165 J	111 J	851 U	852 U	120 J
VANADIUM	7.8		36000	MG/KG	**34.2**	**35.4**	**31.6**	**19.6 J**	**27.7 J**	**21.7**
ZINC	2300		124200	MG/KG	8.8 U	8.4 U	9.5 U	8.5 U	8.5 U	9 U
General Chemistry										
PERCENT SOLIDS				%	88	87	82	83	86	
TOTAL ORGANIC CARBON				MG/KG			34000			

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.
Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-14 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WP	WW	WW	WW	WW	WW
				Excavation:	X34	X12	X13	X14	X16	X16
				Sample Name:	C7-SOM-SO-X34-WP01-6	C7-SOM-SO-X12-WW01-9	C7-SOM-SO-X13-WW01-7	C7-SOM-SO-X14-WW01-6	C7-SOM-SO-X16-WW01-5.5	C7-SOM-SO-DUP2
				Sample Depth:	6 FT	9 FT	7 FT	6 FT	5.5 FT	5.5 FT
				Sample Date:	7/25/2006	7/13/2006	7/14/2006	7/26/2006	7/18/2006	7/18/2006
				Parent Name:						C7-SOM-SO-X16-WW01-5.5
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Volatile Organic Compounds (8260B)										
2-BUTANONE	2200000	400000	6476	UG/KG	73 J	8.8 U	12 U	10 U	9.9 U	11 U
ACETONE	1400000	800000	5514	UG/KG	220 J		12 U	10 U	9.9 U	11 U
BENZENE	640	24000	453.8	UG/KG	5.7 U	4.4 U	6.1 U	5.0 U	4.9 U	5.7 U
CHLOROBENZENE	15000	200000	7253	UG/KG	5.7 U	4.4 U	6.1 U	5.0 U	4.9 U	5.7 U
CIS-1,2-DICHLOROETHENE	4300	80000	1575	UG/KG	5.7 U	4.4 U	6.1 U	5.0 U	4.9 U	5.7 U
ETHYLBENZENE	40000	800000	5749	UG/KG	5.7 U	4.4 U	6.1 U	5.0 U	4.9 U	5.7 U
ISOPROPYLBENZENE	57000		21090	UG/KG	5.7 U	4.4 U	6.1 U	5.0 U	4.9 U	5.7 U
M+P-XYLENE	27000	20000000		UG/KG	5.7 U	4.4 U	6.1 U	5.0 U	4.9 U	5.7 U
METHYLENE CHLORIDE	9100	93000	862.5	UG/KG	11 U	8.8 U	12 U	10 U	9.9 U	11 U
O-XYLENE	27000	20000000		UG/KG	5.7 U	4.4 U	6.1 U	5.0 U	4.9 U	5.7 U
STYRENE	170000		13390	UG/KG	5.7 U	4.4 U	6.1 U	5.0 U	4.9 U	5.7 U
TOLUENE	52000	2000000	4226	UG/KG	5.7 U	4.4 U	6.1 U	5.0 U	4.9 U	5.7 U
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2-BENZPHENANTHRACENE	62000		3943	UG/KG	4.1 J	44	8.8 U	6.9 J	8.1 U	8.0 U
2-METHYLNAPHTHALENE	5600		147800	UG/KG	8.2 U	3.8 U	8.8 U	8.7 U	8.1 U	8.0 U
4-METHYLPHENOL	31000	400000	90940	UG/KG	41 U	19 U	8.8 U	43 U	8.1 U	8.0 U
ACENAPHTHENE	370000	500000	485100	UG/KG	8.2 U	11	8.8 U	8.7 U	8.1 U	8.0 U
ACENAPHTHYLENE	370000		199500	UG/KG	8.2 U	3.8 U	8.8 U	8.7 U	8.1 U	8.0 U
ANTHRACENE	2200000	2000000	5919000	UG/KG	8.2 U	28	8.8 U	8.7 U	8.1 U	8.0 U
BENZ[A]ANTHRACENE	620	224	3923	UG/KG	4.9 J	42	8.8 U	9.1	8.1 U	8.0 U
BENZO[A]PYRENE	62	60.9		UG/KG	5.4 J	**450**	8.8 U	9.5	8.1 U	8.0 U
BENZO[B]FLUORANTHENE	620	224	12120	UG/KG	8.6 J	430	8.8 U	9.5	8.1 U	8.0 U
BENZO[GHI]PERYLENE	230000			UG/KG	4.9 J	250 J	8.8 U	6.1 J	8.1 U	8.0 U
BENZO[K]FLUORANTHENE	6200	224	12120	UG/KG	8.2 U	220	8.8 U	4.8 J	8.1 U	8.0 U
CARBAZOLE	24000		1135	UG/KG	8.2 U	16 J	8.8 U	8.7 U	8.1 U	8.0 U
DIBENZ[A,H]ANTHRACENE	62	14.3	172300	UG/KG	8.2 U	**88 J**	8.8 U	8.7 U	8.1 U	8.0 U
DIBENZOFURAN	15000		462500	UG/KG	8.2 U	5 J	8.8 U	8.7 U	8.1 U	8.0 U
DI-N-BUTYL PHTHALATE	610000	800000	8358000	UG/KG	8.2 U	19 U	8.8 U	8.7 U	8.1 U	8.0 U
FLUORANTHENE	230000	300000	26370000	UG/KG	8.2 U	72	8.8 U	12	8.1 U	8.0 U
FLUORENE	270000	300000	1952000	UG/KG	8.2 U	11	8.8 U	8.7 U	8.1 U	8.0 U
HEXACHLORO-1,3-BUTADIENE	1800		132400	UG/KG	8.2 U	19 U	8.8 U	8.7 U	8.1 U	8.0 U
INDENO[1,2,3-CD]PYRENE	620		34200	UG/KG	4.5 J	310 J	8.8 U	5.6 J	8.1 U	8.0 U
ISOPHORONE	510000	1707000	28020	UG/KG	8.2 U	19 U	8.8 U	8.7 U	8.1 U	8.0 U
NAPHTHALENE	5600	30000	60240	UG/KG	8.2 U	3.8 U	8.8 U	8.7 U	8.1 U	8.0 U

TABLE 5-14 SUMMARY OF REPORTED CONCENTRAT...NS IN SUBSURFACE SOIL, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WP	WW	WW	WW	WW	WW
				Excavation:	X34	X12	X13	X14	X16	X16
				Sample Name:	C7-SOM-SO-X34-WP01-6	C7-SOM-SO-X12-WW01-9	C7-SOM-SO-X13-WW01-7	C7-SOM-SO-X14-WW01-6	C7-SOM-SO-X16-WW01-5.5	C7-SOM-SO-DUP2
				Sample Depth:	6 FT	9 FT	7 FT	6 FT	5.5 FT	5.5 FT
				Sample Date:	7/25/2006	7/13/2006	7/14/2006	7/26/2006	7/18/2006	7/18/2006
				Parent Name:						C7-SOM-SO-X16-WW01-5.5
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
PHENANTHRENE	5600		1189000	UG/KG	8.2 U	65	8.8 U	8.7 U	8.1 U	8.0 U
PHENOL	1800000	5000000	250.1	UG/KG	41 U	19 U	44 U	43 U	40 U	40 U
PYRENE	230000	200000	16760000	UG/KG	8.2 U	71	8.8 U	10	8.1 U	8.0 U
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	2400	2900	6608000	UG/KG	2.1 U	1.9 U	2.2 U	2.2 U	2.0 U	2.0 U
4,4'-DDE	1700	2100	2592000	UG/KG	0.35 J	1.9 U	2.2 U	2.2 U	2.0 U	2.0 U
4,4'-DDT	1700	2100	85.5	UG/KG	2.1 U	1.9 U	2.2 U	2.2 U	2.0 U	2.0 U
AROCLOR 1254	110	1000	335400	UG/KG	21 U	19 U	22 U	22 U	20 U	20 U
ENDOSULFAN I	37000		2344000	UG/KG	2.1 U	1.9 U	2.2 U	2.2 U	2.0 U	2.0 U
ENDRIN	1800	20000	667900	UG/KG	2.1 U	1.9 U	2.2 U	2.2 U	2.0 U	2.0 U
ENDRIN ALDEHYDE	1800		303600	UG/KG	2.1 U	1.9 U	2.2 U	2.2 U	2.0 U	2.0 U
Explosives (8330)										
4-NITROTOLUENE	12000		8150	UG/KG	200 U	200 U	200 U	200 U	200 U	200 U
NITROBENZENE	2000	4000	419	UG/KG	100 U	100 U	100 U	18 J	100 U	100 U
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	7600		54000000	MG/KG	**11100**	**12400**	**15500**	5480	**11800**	**10200**
ANTIMONY	3.1		135.3	MG/KG	.95 U	0.77 U	.98 U	.98 U	.93 U	.91 U
ARSENIC	0.39		5003	MG/KG	**3.4 J**	**4.7**	**3.9 J**	**4.4 J**	**4.3 J**	**4.5 J**
BARIUM	540		41110	MG/KG	91.3	124	105	42.5	122 J	93.5 J
BERYLLIUM	15		2370	MG/KG	0.45	0.56	0.74	0.24	0.58	0.51
BORON	1600		3107	MG/KG	19 U	15.4 U	19.7 U	3.1 J	18.6 U	18.2 U
CADMIUM	3.7		375.5	MG/KG	0.26 J	0.14 J	0.18 J	.49 U	0.2 J	0.21 J
CALCIUM				MG/KG	8800	51000	50100	45700	50200	51800
CHROMIUM	22		90000000	MG/KG	14.3	17.2	19.6	9.5	20.1	15.6
COBALT	140		32930	MG/KG	7	9.4	10.3	5.8	8.8	8.2
COPPER	310		85620	MG/KG	23	1.5 U	2 U	2 U	1.9 U	1.8 U
IRON	2300		7532	MG/KG	**19100**	**23700**	**24600**	**15000**	**22900**	**21300**
LEAD	400		22500	MG/KG	7.5	7.7	6.7	4.1	6.6	5.5
LITHIUM	160			MG/KG	29.5	20.1	24.5	10.1	23.9	18.7
MAGNESIUM				MG/KG	3200	12300 J	7990 J	9610	8970	8930
MANGANESE	180		19530	MG/KG	**733**	**767**	**908**	**723**	**683**	**757**
MERCURY	2.3		36.53	MG/KG	0.016 J	0.013 J	0.026 J	.041 U	0.032 J	.037 U
MOLYBDENUM	39		3619	MG/KG	0.37 J	0.46 J	0.37 J	0.46 J	4.6 U	4.5 U
NICKEL	160		602.1	MG/KG	12.4 J	19.9	21.8	11.5 J	19.2	17.6
POTASSIUM				MG/KG	951 U	2170 J	2430 J	977 U	1840 J	1640 J

TABLE 5-14 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WP	WW	WW	WW	WW	WW
				Excavation:	X34	X12	X13	X14	X16	X16
				Sample Name:	C7-SOM-SO-X34-WP01-6	C7-SOM-SO-X12-WW01-9	C7-SOM-SO-X13-WW01-7	C7-SOM-SO-X14-WW01-6	C7-SOM-SO-X16-WW01-5.5	C7-SOM-SO-DUP2
				Sample Depth:	6 FT	9 FT	7 FT	6 FT	5.5 FT	5.5 FT
				Sample Date:	7/25/2006	7/13/2006	7/14/2006	7/26/2006	7/18/2006	7/18/2006
				Parent Name:						C7-SOM-SO-X16-WW01-5.5
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
SELENIUM	39		3001	MG/KG	4.8 U	0.94 J	4.9 U	4.9 U	0.91 J	4.5 U
SILVER	39		420.4	MG/KG	0.039 J	0.044 J	0.047 J	0.029 J	0.031 J	0.039 J
SODIUM				MG/KG	71.2 J	768 U	984 U	124 J	929 U	909 U
VANADIUM	7.8		36000	MG/KG	**24.3**	**26.4 J**	**31 J**	**15.8**	**25.8 J**	**23.5 J**
ZINC	2300		124200	MG/KG	9.5 U	7.7 U	9.8 U	9.8 U	9.3 U	9.1 U
General Chemistry										
PERCENT SOLIDS				%	81	87	76		83	83
TOTAL ORGANIC CARBON				MG/KG						

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.
Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-14 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW	WW	WW	WW	WW
				Excavation:	X17	X21	X28	X28	X29
				Sample Name:	C7-SOM-SO-X17-WW01-6	C7-SOM-SO-X21-WW01-5.5	C7-SOM-SO-X28-WW01-5	C7-SOM-SO-DUP3	C7-SOM-SO-X29-WW01-5
				Sample Depth:	6 FT	5.5 FT	5 FT	5 FT	5 FT
				Sample Date:	7/18/2006	7/19/2006	7/21/2006	7/21/2006	7/24/2006
				Parent Name:				C7-SOM-SO-X28-WW01-5	
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**					
Volatile Organic Compounds (8260B)									
2-BUTANONE	2200000	400000	6476	UG/KG	9.7 U	11 U	8.9 U	8.7 U	12 U
ACETONE	1400000	800000	5514	UG/KG	9.7 U	11 U	8.9 U	8.7 U	12 U
BENZENE	640	24000	453.8	UG/KG	4.9 U	5.3 U	4.5 U	4.3 U	1.8 J
CHLOROBENZENE	15000	200000	7253	UG/KG	4.9 U	5.3 U	4.5 U	4.3 U	6.0 U
CIS-1,2-DICHLOROETHENE	4300	80000	1575	UG/KG	4.9 U	5.3 U	4.5 U	4.3 U	6.0 U
ETHYLBENZENE	40000	800000	5749	UG/KG	4.9 U	5.3 U	4.5 U	4.3 U	6.0 U
ISOPROPYLBENZENE	57000		21090	UG/KG	4.9 U	5.3 U	4.5 U	4.3 U	6.0 U
M+P-XYLENE	27000	20000000		UG/KG	4.9 U	5.3 U	4.5 U	4.3 U	6.0 U
METHYLENE CHLORIDE	9100	93000	862.5	UG/KG	9.7 U	3.9 J	8.9 U	8.7 U	12 U
O-XYLENE	27000	20000000		UG/KG	4.9 U	5.3 U	4.5 U	4.3 U	6.0 U
STYRENE	170000		13390	UG/KG	4.9 U	5.3 U	4.5 U	4.3 U	6.0 U
TOLUENE	52000	2000000	4226	UG/KG	4.9 U	5.3 U	4.5 U	4.3 U	1.5 J
Semi-Volatile Organic Compounds (8151/8270C/8310)									
1,2-BENZPHENANTHRACENE	62000		3943	UG/KG	7.6 U	7.6 U	7.5 U	7.6 U	23
2-METHYLNAPHTHALENE	5600		147800	UG/KG	7.6 U	7.6 U	7.5 U	7.6 U	8.0 U
4-METHYLPHENOL	31000	400000	90940	UG/KG	7.6 U	38 U	38 U	38 U	40 U
ACENAPHTHENE	370000	500000	485100	UG/KG	7.6 U	7.6 U	7.5 U	7.6 U	8.0 U
ACENAPHTHYLENE	370000		199500	UG/KG	7.6 U	7.6 U	7.5 U	7.6 U	8.0 U
ANTHRACENE	2200000	2000000	5919000	UG/KG	7.6 U	7.6 U	7.5 U	7.6 U	21
BENZ[A]ANTHRACENE	620	224	3923	UG/KG	7.6 U	7.6 U	7.5 U	7.6 U	26
BENZO[A]PYRENE	62	60.9		UG/KG	7.6 U	7.6 U	7.5 U	7.6 U	24
BENZO[B]FLUORANTHENE	620	224	12120	UG/KG	7.6 U	7.6 U	7.5 U	7.6 U	32
BENZO[GHI]PERYLENE	230000			UG/KG	7.6 U	7.6 U	7.5 U	7.6 U	15
BENZO[K]FLUORANTHENE	6200	224	12120	UG/KG	7.6 U	7.6 U	7.5 U	7.6 U	11
CARBAZOLE	24000		1135	UG/KG	7.6 U	7.6 U	7.5 U	7.6 U	8.0 U
DIBENZ[A,H]ANTHRACENE	62	14.3	172300	UG/KG	7.6 U	7.6 U	7.5 U	7.6 U	4.4 J
DIBENZOFURAN	15000		462500	UG/KG	7.6 U	7.6 U	7.5 U	7.6 U	8.0 U
DI-N-BUTYL PHTHALATE	610000	800000	8358000	UG/KG	7.6 U	5.3 J	7.5 U	7.6 U	8.0 U
FLUORANTHENE	230000	300000	26370000	UG/KG	7.6 U	7.6 U	7.5 U	7.6 U	82
FLUORENE	270000	300000	1952000	UG/KG	7.6 U	7.6 U	7.5 U	7.6 U	8.0 U
HEXACHLORO-1,3-BUTADIENE	1800		132400	UG/KG	7.6 U	7.6 U	7.5 U	7.6 U	8.0 U
INDENO[1,2,3-CD]PYRENE	620		34200	UG/KG	7.6 U	7.6 U	7.5 U	7.6 U	13
ISOPHORONE	510000	1707000	28020	UG/KG	7.6 U	7.6 U	7.5 U	7.6 U	8.0 U
NAPHTHALENE	5600	30000	60240	UG/KG	7.6 U	7.6 U	7.5 U	7.6 U	8.0 U

TABLE 5-14 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW	WW	WW	WW	WW
				Excavation:	X17	X21	X28	X28	X29
				Sample Name:	C7-SOM-SO-X17-WW01-6	C7-SOM-SO-X21-WW01-5.5	C7-SOM-SO-X28-WW01-5	C7-SOM-SO-DUP3	C7-SOM-SO-X29-WW01-5
				Sample Depth:	6 FT	5.5 FT	5 FT	5 FT	5 FT
				Sample Date:	7/18/2006	7/19/2006	7/21/2006	7/21/2006	7/24/2006
				Parent Name:				C7-SOM-SO-X28-WW01-5	
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**					
PHENANTHRENE	5600		1189000	UG/KG	7.6 U	7.6 U	7.5 U	7.6 U	36
PHENOL	1800000	5000000	250.1	UG/KG	38 U	38 U	38 U	38 U	40 U
PYRENE	230000	200000	16760000	UG/KG	7.6 U	7.6 U	7.5 U	7.6 U	66 J
Pesticides (8081)/Polychlorinated Biphenyls(8082)									
4,4'-DDD	2400	2900	6608000	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U
4,4'-DDE	1700	2100	2592000	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U
4,4'-DDT	1700	2100	85.5	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U
AROCLOR 1254	110	1000	335400	UG/KG	19 U	19 U	19 U	19 U	20 U
ENDOSULFAN I	37000		2344000	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U
ENDRIN	1800	20000	667900	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U
ENDRIN ALDEHYDE	1800		303600	UG/KG	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U
Explosives (8330)									
4-NITROTOLUENE	12000		8150	UG/KG	200 U	200 U	200 U	200 U	200 U
NITROBENZENE	2000	4000	419	UG/KG	29 J	100 U	100 U	99 U	100 U
Metals (6010B/6020/7841/7470A/7471A)									
ALUMINUM	7600		54000000	MG/KG	**12800**	**13700**	**11900**	**10900**	**13200**
ANTIMONY	3.1		135.3	MG/KG	.79 U	.93 U	.86 U	.86 U	.87 U
ARSENIC	0.39		5003	MG/KG	**5.2**	**4.1 J**	**4.4**	**4.4**	**4.4**
BARIUM	540		41110	MG/KG	103 J	108	95.5	117	119
BERYLLIUM	15		2370	MG/KG	0.62	0.66	0.53	0.5	0.56
BORON	1600		3107	MG/KG	15.8 U	9.1 J	17.3 U	17.1 U	17.5 U
CADMIUM	3.7		375.5	MG/KG	0.21 J	0.34 J	0.15 J	0.12 J	0.17 J
CALCIUM				MG/KG	56100	50100	53000	49200	32200
CHROMIUM	22		90000000	MG/KG	18.5	19.8	16.9	15.4	17.3
COBALT	140		32930	MG/KG	10.7	9.9	9.7	8.7	8.7
COPPER	310		85620	MG/KG	1.6 U	38.6	30.8	26.9	30
IRON	2300		7532	MG/KG	**25900**	**25100**	**23300**	**21800**	**22300**
LEAD	400		22500	MG/KG	6.8	6.2	6.4	5.8	7.3
LITHIUM	160			MG/KG	22.9	25.4	19.9	18.7	19.9
MAGNESIUM				MG/KG	12900	10400	10400 J	11200 J	8810 J
MANGANESE	180		19530	MG/KG	**979**	**738**	**856**	**976**	**650**
MERCURY	2.3		36.53	MG/KG	.026 U	0.014 J	.034 U	0.012 J	0.018 J
MOLYBDENUM	39		3619	MG/KG	4 U	0.41 J	0.5 J	0.47 J	0.45 J
NICKEL	160		602.1	MG/KG	23.2	20.2 J	21	18.3	18.8
POTASSIUM				MG/KG	2410 J	2600 J	2220 J	2020 J	1800 J

TABLE 5-14 SUMMARY OF REPORTED CONCENTRATIONS IN SUBSURFACE SOIL, SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW	WW	WW	WW	WW
				Excavation:	X17	X21	X28	X28	X29
				Sample Name:	C7-SOM-SO-X17-WW01-6	C7-SOM-SO-X21-WW01-5.5	C7-SOM-SO-X28-WW01-5	C7-SOM-SO-DUP3	C7-SOM-SO-X29-WW01-5
				Sample Depth:	6 FT	5.5 FT	5 FT	5 FT	5 FT
				Sample Date:	7/18/2006	7/19/2006	7/21/2006	7/21/2006	7/24/2006
				Parent Name:				C7-SOM-SO-X28-WW01-5	
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**					
SELENIUM	39		3001	MG/KG	4 U	4.7 U	4.3 U	0.86 J	4.4 U
SILVER	39		420.4	MG/KG	0.047 J	0.036 J	0.034 J	0.04 J	0.071 J
SODIUM				MG/KG	792 U	135 J	864 U	855 U	875 U
VANADIUM	7.8		36000	MG/KG	**27.6 J**	**31.3**	**26.2 J**	**23.1 J**	**27.3 J**
ZINC	2300		124200	MG/KG	7.9 U	9.3 U	8.6 U	8.6 U	8.7 U
General Chemistry									
PERCENT SOLIDS				%	88		88	87	83
TOTAL ORGANIC CARBON				MG/KG					

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.
Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-15 SUMMARY OF REPORTED CONCENTRATIONS IN BEDDING MATERIAL WATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	CW	WW	WW	WW	WW
			Excavation:	X62	X37	X37	X41	X56
			Sample Name:	C7-CWM-WW-X62-WG01-5	C7-CWM-WW-X37-WG01-6	C7-CWM-WW-DUP5	C7-CWM-WW-X41-WG01-6	C7-CWM-WW-X56-WG01-7
			Sample Depth:	5 FT	6 FT	6 FT	6 FT	7 FT
			Sample Date:	9/13/2006	9/5/2006	9/5/2006	9/6/2006	9/12/2006
			Parent Name:			C7-CWM-WW-X37-WG01-6		
Analyte	**Crit1**	**Crit2**	**Unit**					
Volatile Organic Compounds (8260B)								
1,1,1-TRICHLOROETHANE	320	5	UG/L	1.0 U	**5**	3.8	**320**	1.0 U
1,1,2-TRICHLOROETHANE	0.2	1	UG/L	1.0 U	1.0 U	1.0 U	**0.68 J**	1.0 U
1,1-DICHLOROETHANE	81	5	UG/L	1.0 U	**19**	**19**	**56**	1.0 U
1,1-DICHLOROETHYLENE	34	0.7	UG/L	1.0 U	1.0 U	1.0 U	**8.6**	1.0 U
ACETONE	550	50	UG/L	5.0 U	5.0 U	8 J	5.0 U	8.4 J
CHLOROBENZENE	11	400	UG/L	1.0 U	0.78 J	1.6	1.0 U	1.0 U
CHLOROFORM	0.017	7	UG/L	1.0 U	1.0 U	1.0 U	**0.92 J**	1.0 U
CIS-1,2-DICHLOROETHENE	6.1	5	UG/L	1.0 U	**170**	**180**	**17**	1.0 U
METHYLENE CHLORIDE	4.3	200	UG/L	1.0 U	1 U	1 U	1 U	1.0 U
TETRACHLOROETHENE	0.1	1	UG/L	**0.6 J**	**0.84 J**	**0.66 J**	1.0 U	1.0 U
TRANS-1,2-DICHLOROETHENE	12	5	UG/L	1.0 U	4.5	4.6	1.2	1.0 U
TRICHLOROETHYLENE	1.4	40	UG/L	0.63 J	**14**	**14**	**10**	1.0 U
VINYL CHLORIDE	0.02	0.3	UG/L	1.0 U	**3.9 J**	**5.6 J**	1.0 U	1.0 U
Semi-Volatile Organic Compounds (8151/8270C/8310)								
1,2,4-TRICHLOROBENZENE	0.72	5	UG/L	0.23 U	**440**	**540**	0.21 U	0.20 U
1,2-DICHLOROBENZENE	37	5	UG/L	0.23 U	**18**	**22**	0.21 U	0.20 U
1,3-DICHLOROBENZENE	18	5	UG/L	0.23 U	**36**	**45**	0.21 U	0.20 U
1,4-DICHLOROBENZENE	0.5	5	UG/L	0.23 U	**5.6**	**6.8**	0.21 U	0.20 U
2,4,5-TRICHLOROPHENOL	360		UG/L	1.2 U	1.6	2	1.1 U	1.0 U
2,4,6-TRICHLOROPHENOL	0.36		UG/L	1.2 U	**1.6**	**2.3**	1.1 U	1.0 U
2,4-DICHLOROPHENOL	11	0.3	UG/L	1.2 U	**1 J**	**1.4**	1.1 U	1.0 U
2-METHYLNAPHTHALENE	0.62	4.7	UG/L	0.23 U	0.34	0.31	0.21 U	0.20 U
2-METHYLPHENOL	180		UG/L	1.2 U	1.1 U	0.93 J	1.1 U	1.0 U
4-METHYLPHENOL	18		UG/L	1.2 U	0.74 J	0.92 J	1.1 U	1.0 U
BIS(2-ETHYLHEXYL) PHTHALATE	4.8	0.6	UG/L	**2.6**	**0.99 J**	**0.8 J**	**0.88**	**2**
DI-N-BUTYL PHTHALATE	360	50	UG/L	0.23 U	0.22 U	0.22 U	0.19 J	0.13 J
HEXACHLOROBENZENE	0.042	0.00003	UG/L	0.23 U	**0.68**	**0.44**	0.21 U	0.20 U
NAPHTHALENE	0.62	13	UG/L	0.23 U	0.26	0.24	0.21 U	0.20 U
PHENOL	1100	1	UG/L	1.2 U	**2.7 J**	**3.3 J**	1.1 U	1.0 U
Pesticides (8081)/Polychlorinated Biphenyls(8082)								
AROCLOR 1254	0.034		UG/L	0.54 U	**37 J**	**51 J**	0.56 U	52 U
AROCLOR 1260	0.034		UG/L	0.54 U	5.2 U	2.6 U	0.56 U	**790 J**
Metals (6010B/6020/7841/7470A/7471A)								
ALUMINUM	3600	100	UG/L	**30700 J**	**3770 J**	**2820 J**	99.8 J	**482**

TABLE 5-15 SUMMARY OF REPORTED CONCENTRATIONS IN BEDDING MATERIAL WATER, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	CW	WW	WW	WW	WW
			Excavation:	X62	X37	X37	X41	X56
			Sample Name:	C7-CWM-WW-X62-WG01-5	C7-CWM-WW-X37-WG01-6	C7-CWM-WW-DUP5	C7-CWM-WW-X41-WG01-6	C7-CWM-WW-X56-WG01-7
			Sample Depth:	5 FT	6 FT	6 FT	6 FT	7 FT
			Sample Date:	9/13/2006	9/5/2006	9/5/2006	9/6/2006	9/12/2006
			Parent Name:			C7-CWM-WW-X37-WG01-6		
Analyte	**Crit1**	**Crit2**	**Unit**					
ANTIMONY	1.5	3	UG/L	0.81 J	0.27 J	0.25 J	0.76 J	1.0 U
ARSENIC	0.045		UG/L	**9.6**	5.0 U	5.0 U	5 U	**2.7 J**
BARIUM	260	1000	UG/L	**372**	95.5	85.2	23	66.4
BERYLLIUM	7.3	3	UG/L	1.2	0.21	0.1 J	.2 U	0.20 U
BORON	730	10000	UG/L	218	262	228	70.6 J	157
CADMIUM	1.8	5	UG/L	1.6	1.5	1.4	0.44 J	0.50 U
CALCIUM			UG/L	266000	230000	201000	134000	154000
CHROMIUM	11		UG/L	**450**	5.7	4.4	5.2	2.0 U
COBALT	73	5	UG/L	**18.4**	3.3	2.5	0.078 J	0.074 J
COPPER	150	200	UG/L	**214**	14.4	11.9	8.3	2.2
IRON	1100	300	UG/L	**54600**	**5120 J**	**3920 J**	**443**	**3300**
LEAD	15		UG/L	**67.3**	**30.6 J**	14.4 J	**18.2**	3.1
LITHIUM	73		UG/L	57.7	17.3	15	15.2	41.8
MAGNESIUM		35000	UG/L	**54700**	**64700 J**	**51400 J**	34400	**43000**
MANGANESE	88	300	UG/L	**1800**	**689**	**656**	41.2	**265**
MOLYBDENUM	18		UG/L	**20.7**	0.74 J	0.8 J	5 U	1.2 J
NICKEL	73		UG/L	45.8	16	13.2	9.3	1.1
POTASSIUM			UG/L	10700	9110	8970	15100	2860
SELENIUM	18		UG/L	2.9 J	2.7 J	2.5 J	1.4 J	5.0 U
SILVER	18	0.1	UG/L	**0.14 J**	0.067 J	0.059 J	.3 U	0.30 U
SODIUM			UG/L	476000	15400	15800	7100	13600
THALLIUM	0.24	8	UG/L	**0.41 J**	**2 U**	**2 U**	**2 U**	2.0 U
VANADIUM	3.6	14	UG/L	**66**	**7.7 J**	**5.7 J**	10 U	2.5 J
ZINC	1100		UG/L	333	172 J	120 J	609	8.9 J

Crit1: U.S. EPA Region 9 PRG Tap Water, 2004

Crit2: New York State TOG Surface Water, 1998

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-16 SUMMARY OF REPORTED CONCENTRATIO... IN SURFACE SOIL (OUTFALL LOCATIONS), WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	WW	WW	WW	WW	WW
			Excavation:	OF08		OF07	OF09	OF11	OF12
			Sample Name:	C7-CWM-SS-OF08-SN01-0.5	C1-8-SO-BP3-0.5	C7-CWM-SS-OF07-WW01-0.5	C7-CWM-SS-OF09-UN01-0.5	C7-CWM-SS-OF11-WW01-0.5	C7-CWM-SS-OF12-WW02-0.5
			Sample Depth:	0.5 FT	0.5 FT	0.5 FT	0.5 FT	0.5 FT	0.5 FT
			Sample Date:	10/18/2006	10/11/2000	10/18/2006	10/18/2006	10/18/2006	10/18/2006
			Parent Name:						
Analyte	**Crit1**	**Crit2**	**Unit**						
Volatile Organic Compounds (8260B)									
4-METHYL-2-PENTANONE	4700000	400000	UG/KG	15 U	14 J	10 U	10 U	10 U	11 U
ACETONE	5400000	800000	UG/KG	15 U	140 J	10 U	10 U	10 U	11 U
BENZENE	1400	24000	UG/KG	7.4 U	7 J	5.1 U	5.0 U	5.1 U	5.3 U
CARBON DISULFIDE	72000	800000	UG/KG	7.4 U	3 J	5.1 U	5.0 U	5.1 U	5.3 U
CIS-1,2-DICHLOROETHENE	15000	80000	UG/KG	7.4 U	1 U	5.1 U	5.0 U	5.1 U	5.3 U
ETHYLBENZENE	40000	800000	UG/KG	7.4 U	4 J	5.1 U	5.0 U	5.1 U	5.3 U
TOLUENE	52000	2000000	UG/KG	7.4 U	17 J	5.1 U	5.0 U	5.1 U	5.3 U
TRICHLOROETHYLENE	6500	64000	UG/KG	7.4 U	1 U	5.1 U	5.0 U	5.1 U	5.3 U
XYLENES (TOTAL)	42000	20000000	UG/KG		44 J				
Semi-Volatile Organic Compounds (8151/8270C/8310)									
1,2-BENZPHENANTHRACENE	210000		UG/KG	100	69	180	5.5 J	6700	6500
2-METHYLNAPHTHALENE	19000		UG/KG	8.8 U	58 J	8.2 U	8.4 U	210	140
ACENAPHTHENE	2900000	500000	UG/KG	3.1 J	51 J	8.2 U	8.4 U	1800	1200
ACENAPHTHYLENE	2900000		UG/KG	7.4 J	37 U	4.1 J	8.4 U	79 U	78 U
ANTHRACENE	10000000	2000000	UG/KG	18	12	25	8.4 U	1800	1400
BENZ[A]ANTHRACENE	2100	224	UG/KG	120	23	250	8.8	**7000 J**	**6600**
BENZO[A]PYRENE	210	60.9	UG/KG	110	43	180	6.7 J	**6600 J**	**7000**
BENZO[B]FLUORANTHENE	2100	224	UG/KG	200	51 J	320	14	**10000 J**	**8000 J**
BENZO[GHI]PERYLENE	2900000		UG/KG	70	30 J	91	5 J	4500	3000
BENZO[K]FLUORANTHENE	21000	224	UG/KG	8.8 U	23	8.2 U	8.4 U	79 U	78 U
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	UG/KG	8.8 U	470	190	640	79 U	78 U
CARBAZOLE	86000		UG/KG	14	72 U	18	8.4 U	1300	920
DIBENZ[A,H]ANTHRACENE	210	14.3	UG/KG	25	11	22	8.4 U	**1700**	**1200**
DIBENZOFURAN	160000		UG/KG	8.8 U	110 U	8.2 U	8.4 U	530	390
DI-N-BUTYL PHTHALATE	6200000	800000	UG/KG	8.8 U	72 U	9.8	8.4 U	79 U	78 U
FLUORANTHENE	2200000	300000	UG/KG	200	96	440	15	9300 J	8000
FLUORENE	2600000	300000	UG/KG	4.4 J	5.3 U	8.2 U	8.4 U	930	640
INDENO[1,2,3-CD]PYRENE	2100		UG/KG	67	23	93	5 J	**4400**	**2900**
NAPHTHALENE	19000	30000	UG/KG	1.8 J	180	8.2 U	8.4 U	580	370
PHENANTHRENE	19000		UG/KG	67	50	100	3.4 J	5000 J	5700
PYRENE	2900000	200000	UG/KG	190	66	350	12	8400 J	6800
Pesticides (8081)/Polychlorinated Biphenyls(8082)									
4,4'-DDE	7000	2100	UG/KG	2.2 U	6.4 J	2.1 U	2.1 U	2.0 U	1.9 U

TABLE 5-16 SUMMARY OF REPORTED CONCENTRATIONS IN SURFACE SOIL (OUTFALL LOCATIONS), WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	WW	WW	WW	WW	WW
			Excavation:	OF08		OF07	OF09	OF11	OF12
			Sample Name:	C7-CWM-SS-OF08-SN01-0.5	C1-8-SO-BP3-0.5	C7-CWM-SS-OF07-WW01-0.5	C7-CWM-SS-OF09-UN01-0.5	C7-CWM-SS-OF11-WW01-0.5	C7-CWM-SS-OF12-WW02-0.5
			Sample Depth:	0.5 FT	0.5 FT	0.5 FT	0.5 FT	0.5 FT	0.5 FT
			Sample Date:	10/18/2006	10/11/2000	10/18/2006	10/18/2006	10/18/2006	10/18/2006
			Parent Name:						
Analyte	**Crit1**	**Crit2**	**Unit**						
4,4'-DDT	7000	2100	UG/KG	7.4 J	16 J	2.1 U	2.1 U	6.6 J	2.2 J
AROCLOR 1254	740	1000	UG/KG	22 U	150	20 U	21 U	20 U	19 U
AROCLOR 1260	740	1000	UG/KG	22 U	51 J	20 U	21 U	20 U	19 U
DIELDRIN	110	44	UG/KG	2.2 J	1.6 J	2.1 U	2.1 U	2.0 U	1.9 U
ENDOSULFAN II	370000		UG/KG	2.2 U	0.56 U	2.1 U	2.1 U	2.0 U	1.2 J
ENDRIN ALDEHYDE	18000		UG/KG	2.2 U	1.5 U	2.1 U	2.1 U	11 J	1.9 U
GAMMA-CHLORDANE	6500	500	UG/KG	2.2 U	1.9	2.1 U	2.1 U	2.0 U	1.9 U
Explosives (8330)									
NITROBENZENE	10000	4000	UG/KG	74 J	170 U	100 U	57 J	100 U	3800 J
Metals (6010B/6020/7841/7470A/7471A)									
ALUMINUM	10000		MG/KG	6990	**10800**	**10800**	**13400**	7880	**10500**
ANTIMONY	41		MG/KG	0.23 J	4.6 J	.96 U	1 U	.97 U	.97 U
ARSENIC	1.6		MG/KG	5 U	**7.6**	4.8 U	5.1 U	4.8 U	4.8 U
BARIUM	6700		MG/KG	120 J	110 J	99 J	94.4 J	98.8 J	476 J
BERYLLIUM	190		MG/KG	0.35	0.63 J	0.52	0.62	0.4	0.73
BORON	10000		MG/KG	19.9 U	17.9 J	19.2 U	20.2 U	19.4 U	19.4 U
CADMIUM	45		MG/KG	0.84	14	0.23 J	0.23 J	0.48 J	1.5
CALCIUM			MG/KG	115000	50100	53500	49300	28900	34600
CHROMIUM	64		MG/KG	21.8 J	**118 J**	16.9 J	19.4 J	12.8 J	36.1 J
COBALT	1900		MG/KG	8.4	20.2 J	8.1	9.6	7.5	22.3
COPPER	4100		MG/KG	50.8	99.9 J	34.7	27.9	24.5	23.5
IRON	10000		MG/KG	**22100**	**46600**	**20900**	**22900**	**18100**	**63900**
LEAD	800		MG/KG	29	105	16.7	11.9	21.5	82.8
LITHIUM	2000		MG/KG	11.5	15.6	18.1	22.3	12.9	15.4
MAGNESIUM			MG/KG	5480	14900 J	7610	8770	5720	5200
MANGANESE	1900		MG/KG	1220	931	840	873 J	1230	**5290**
MERCURY	31		MG/KG	0.039 J	0.73	0.031 U	0.042 J	0.024 U	0.035 J
MOLYBDENUM	510		MG/KG	1.1 J		0.4 J	0.45 J	0.53 J	0.98 J
NICKEL	2000		MG/KG	25.9	31.5 J	18	21.8	15.9	20.5
POTASSIUM			MG/KG	1020	1860	1470	2040	1430	1450
SILVER	510		MG/KG	0.06 J	0.16 U	0.027 J	0.045 J	0.041 J	0.038 J
SODIUM			MG/KG	101 J	212 J	99.5 J	108 J	74.6 J	80.1 J
VANADIUM	100		MG/KG	16.9	21.5 J	22.3	26.9	19.3	34.8

TABLE 5-16 SUMMARY OF REPORTED CONCENTRATIONS IN SURFACE SOIL (OUTFALL LOCATIONS), WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	SN	WW	WW	WW	WW	WW
			Excavation:	OF08		OF07	OF09	OF11	OF12
			Sample Name:	C7-CWM-SS-OF08-SN01-0.5	C1-8-SO-BP3-0.5	C7-CWM-SS-OF07-WW01-0.5	C7-CWM-SS-OF09-UN01-0.5	C7-CWM-SS-OF11-WW01-0.5	C7-CWM-SS-OF12-WW02-0.5
			Sample Depth:	0.5 FT	0.5 FT	0.5 FT	0.5 FT	0.5 FT	0.5 FT
			Sample Date:	10/18/2006	10/11/2000	10/18/2006	10/18/2006	10/18/2006	10/18/2006
			Parent Name:						
Analyte	**Crit1**	**Crit2**	**Unit**						
ZINC	10000		MG/KG	90.6 J	729	77.9 J	58.8 J	112 J	184 J
General Chemistry									
PERCENT SOLIDS			%	76	60.1	81	79	84	86

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-16 SUMMARY OF REPORTED CONCENTRATIONS IN SURFACE SOIL (OUTFALL LOCATIONS), WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	WW	WW	WW
			Excavation:	OF14	OF14	OF15
			Sample Name:	C7-CWM-SS-OF14-WW02-0.5	C7-CWM-SS-DUP2	C7-CWM-SS-OF15-WW01-0.5
			Sample Depth:	0.5 FT	0.5 FT	0.5 FT
			Sample Date:	10/18/2006	10/18/2006	10/18/2006
			Parent Name:		C7-CWM-SS-OF14-WW02-0.5	
Analyte	**Crit1**	**Crit2**	**Unit**			
Volatile Organic Compounds (8260B)						
4-METHYL-2-PENTANONE	4700000	400000	UG/KG	11 U	12 U	21 U
ACETONE	5400000	800000	UG/KG	11 U	12 U	21 U
BENZENE	1400	24000	UG/KG	5.4 U	6.0 U	10 U
CARBON DISULFIDE	72000	800000	UG/KG	5.4 U	6.0 U	10 U
CIS-1,2-DICHLOROETHENE	15000	80000	UG/KG	5.4 U	6 U	10 U
ETHYLBENZENE	40000	800000	UG/KG	5.4 U	6.0 U	10 U
TOLUENE	52000	2000000	UG/KG	5.4 U	6.0 U	10 U
TRICHLOROETHYLENE	6500	64000	UG/KG	7.2	9.6	38
XYLENES (TOTAL)	42000	20000000	UG/KG			
Semi-Volatile Organic Compounds (8151/8270C/8310)						
1,2-BENZPHENANTHRACENE	210000		UG/KG	100 J	310 J	110 U
2-METHYLNAPHTHALENE	19000		UG/KG	8.6 U	95 U	110 U
ACENAPHTHENE	2900000	500000	UG/KG	5.2 J	28 J	110 U
ACENAPHTHYLENE	2900000		UG/KG	2.2 J	95 U	110 U
ANTHRACENE	10000000	2000000	UG/KG	12	66 J	110 U
BENZ[A]ANTHRACENE	2100	224	UG/KG	120 J	420 J	110 U
BENZO[A]PYRENE	210	60.9	UG/KG	110 J	**330 J**	110 U
BENZO[B]FLUORANTHENE	2100	224	UG/KG	210 J	620 J	110 U
BENZO[GHI]PERYLENE	2900000		UG/KG	60 J	190 J	110 U
BENZO[K]FLUORANTHENE	21000	224	UG/KG	8.6 U	95 U	110 U
BIS(2-ETHYLHEXYL) PHTHALATE	120000	50000	UG/KG	8.6 U	95 U	2000 J
CARBAZOLE	86000		UG/KG	12	71 J	110 U
DIBENZ[A,H]ANTHRACENE	210	14.3	UG/KG	19 J	95 U	110 U
DIBENZOFURAN	160000		UG/KG	3.4 J	95 U	110 U
DI-N-BUTYL PHTHALATE	6200000	800000	UG/KG	8.6 U	95 U	110 U
FLUORANTHENE	2200000	300000	UG/KG	190 J	620 J	260 J
FLUORENE	2600000	300000	UG/KG	6.5 J	95 U	110 U
INDENO[1,2,3-CD]PYRENE	2100		UG/KG	56 J	180 J	110 U
NAPHTHALENE	19000	30000	UG/KG	2.2 J	38 J	110 U
PHENANTHRENE	19000		UG/KG	76 J	410 J	110 U
PYRENE	2900000	200000	UG/KG	120 J	480 J	860 J
Pesticides (8081)/Polychlorinated Biphenyls(8082)						
4,4'-DDE	7000	2100	UG/KG	2.2 U	2.4 U	2.5 J

TABLE 5-16 SUMMARY OF REPORTED CONCENTRATIC IN SURFACE SOIL (OUTFALL LOCATIONS), WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	WW	WW	WW
			Excavation:	OF14	OF14	OF15
			Sample Name:	C7-CWM-SS-OF14-WW02-0.5	C7-CWM-SS-DUP2	C7-CWM-SS-OF15-WW01-0.5
			Sample Depth:	0.5 FT	0.5 FT	0.5 FT
			Sample Date:	10/18/2006	10/18/2006	10/18/2006
			Parent Name:		C7-CWM-SS-OF14-WW02-0.5	
Analyte	**Crit1**	**Crit2**	**Unit**			
4,4'-DDT	7000	2100	UG/KG	2.2 U	4.6 J	2.9 U
AROCLOR 1254	740	1000	UG/KG	22 U	24 U	29 U
AROCLOR 1260	740	1000	UG/KG	22 U	24 U	29 U
DIELDRIN	110	44	UG/KG	0.33 J	1.5 J	3.3 J
ENDOSULFAN II	370000		UG/KG	2.2 U	2.4 U	2.9 U
ENDRIN ALDEHYDE	18000		UG/KG	2.2 U	2.4 U	2.9 U
GAMMA-CHLORDANE	6500	500	UG/KG	2.2 U	2.4 U	2.9 U
Explosives (8330)						
NITROBENZENE	10000	4000	UG/KG	68 J	58 J	48 J
Metals (6010B/6020/7841/7470A/7471A)						
ALUMINUM	10000		MG/KG	9040	**10400**	**14900**
ANTIMONY	41		MG/KG	1.3 J	1.7 J	0.76 J
ARSENIC	1.6		MG/KG	**13.1 J**	**18.8 J**	**23.3 J**
BARIUM	6700		MG/KG	62.4 J	100 J	93.7 J
BERYLLIUM	190		MG/KG	0.42	0.48	0.69
BORON	10000		MG/KG	17.1 U	21.7 U	25 U
CADMIUM	45		MG/KG	0.25 J	0.44 J	0.73
CALCIUM			MG/KG	26600	21600	8620
CHROMIUM	64		MG/KG	27.2 J	44.3 J	**292 J**
COBALT	1900		MG/KG	9 J	12.5 J	12.9
COPPER	4100		MG/KG	139 J	228	629
IRON	10000		MG/KG	**45000 J**	**62700**	**53800**
LEAD	800		MG/KG	16.2	28	95.6
LITHIUM	2000		MG/KG	15.4	17.2	26.5
MAGNESIUM			MG/KG	6240	5930	7040
MANGANESE	1900		MG/KG	1050 J	1790 J	338
MERCURY	31		MG/KG	0.018 J	0.037 U	0.43
MOLYBDENUM	510		MG/KG	2 J	3.1 J	1.9 J
NICKEL	2000		MG/KG	29.9 J	42.1	57
POTASSIUM			MG/KG	1550	1800	2870
SILVER	510		MG/KG	0.12 J	0.29 J	0.1 J
SODIUM			MG/KG	2190	2900	3510
VANADIUM	100		MG/KG	27.4	34.1	44.8

TABLE 5-16 SUMMARY OF REPORTED CONCENTRATIONS IN SURFACE SOIL (OUTFALL LOCATIONS), WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			Line Type:	WW	WW	WW
			Excavation:	OF14	OF14	OF15
			Sample Name:	C7-CWM-SS-OF14-WW02-0.5	C7-CWM-SS-DUP2	C7-CWM-SS-OF15-WW01-0.5
			Sample Depth:	0.5 FT	0.5 FT	0.5 FT
			Sample Date:	10/18/2006	10/18/2006	10/18/2006
			Parent Name:		C7-CWM-SS-OF14-WW02-0.5	
Analyte	**Crit1**	**Crit2**	**Unit**			
ZINC	10000		MG/KG	59.3 J	92 J	425 J
General Chemistry						
PERCENT SOLIDS			%	77	70	58

Crit1: U.S. EPA Region 9 PRG Industrial Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-17 SUMMARY OF REPORTED CONCENTRATIONS IN SURFACE SOIL (OUTFALL LOCATIONS), SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	ST	ST	ST	ST	UN
				Excavation:	OF01	OF02	OF03	OF03	OF04	OF06
				Sample Name:	C7-SOM-SS-OF01-SN01-0.5	C7-SOM-SS-OF02-ST03-0.5	C7-SOM-SS-OF03-ST02-0.5	C7-SOM-SS-DUP1	C7-SOM-SS-OF04-ST01-0.5	C7-SOM-SS-OF06-UN01-0.5
				Sample Depth:	0.5 FT	0.5 FT	0.5 FT	0.5 FT	0.5 FT	0.5 FT
				Sample Date:	8/3/2006	8/3/2006	8/3/2006	8/3/2006	8/3/2006	8/3/2006
				Parent Name:				C7-SOM-SS-OF03-ST02-0.5		
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Semi-Volatile Organic Compounds (8151/8270C/8310)										
1,2-BENZPHENANTHRACENE	62000		3943	UG/KG	84 U	260	32	22	5700 J	47
2-METHYLNAPHTHALENE	5600		147800	UG/KG	84 U	13	9.4 U	8.2 U	670	8.0 U
2-METHYLPHENOL	310000		412300	UG/KG	420 U	38 U	47 U	41 U	19 J	40 U
2-NITROPHENOL	880			UG/KG	420 U	38 U	47 U	41 U	55 J	40 U
4-METHYLPHENOL	31000	400000	90940	UG/KG	420 U	38 U	47 U	72 J	280 J	40 U
ACENAPHTHENE	370000	500000	485100	UG/KG	84 U	120	9.4 U	8.2 U	2400	8.0 U
ANTHRACENE	2200000	2000000	5919000	UG/KG	84 U	180	11	7.4 J	5900 J	24
BENZ[A]ANTHRACENE	620	224	3923	UG/KG	84 U	310	34	22	**6000 J**	46
BENZO[A]PYRENE	62	60.9		UG/KG	84 U	**220**	27	38	**4400**	40
BENZO[B]FLUORANTHENE	620	224	12120	UG/KG	84 U	320	43	41	**4500 J**	64
BENZO[GHI]PERYLENE	230000			UG/KG	84 U	96	14	13	2200	15
BENZO[K]FLUORANTHENE	6200	224	12120	UG/KG	84 U	110 J	13 J	14 J	3000 J	22 J
BIS(2-ETHYLHEXYL) PHTHALATE	35000	50000	372100000	UG/KG	84 U	7.7 U	2500 J	8.2 U	11 U	8.0 U
CARBAZOLE	24000		1135	UG/KG	84 U	110	6.1 J	5.3 J	3300	18
DIBENZ[A,H]ANTHRACENE	62	14.3	172300	UG/KG	84 U	35	9.4 U	8.2 U	**680**	8.0 U
DIBENZOFURAN	15000		462500	UG/KG	84 U	53	9.4 U	8.2 U	1500	4.8 J
DIETHYL PHTHALATE	4900000	6000000		UG/KG	84 U	38	13	16	11 U	8.8
FLUORANTHENE	230000	300000	26370000	UG/KG	42 J	490	64 J	35 J	7700	82
FLUORENE	270000	300000	1952000	UG/KG	84 U	100	9.4 U	8.2 U	2300	9.2
INDENO[1,2,3-CD]PYRENE	620		34200	UG/KG	84 U	100	15	16	**2300**	15
NAPHTHALENE	5600	30000	60240	UG/KG	84 U	18	9.4 U	8.2 U	880	8.0 U
PHENANTHRENE	5600		1189000	UG/KG	84 U	600	40	26	**9400**	78
PHENOL	1800000	5000000	250.1	UG/KG	420 U	38 U	47 U	41 U	83	21 J
PYRENE	230000	200000	16760000	UG/KG	54 J	510 J	60 J	41 J	7200 J	94 J
Pesticides (8081)/Polychlorinated Biphenyls(8082)										
4,4'-DDD	2400	2900	6608000	UG/KG	2.1 U	1.9 U	2.4 U	2.0 U	2.7 U	2.0 U
4,4'-DDE	1700	2100	2592000	UG/KG	2.1 U	1.9 U	2.4 U	2.0 U	1.6 J	2.0 U
4,4'-DDT	1700	2100	85.5	UG/KG	8.2 J	6.4 J	21 J	2.0 U	2.7 U	2.0 U
AROCLOR 1254	110	1000	335400	UG/KG	21 U	64	24 U	20 U	27 U	20 U
AROCLOR 1260	110	1000	918200	UG/KG	69	19 U	27 J	20 U	34	20 U
GAMMA-CHLORDANE	1600	500	29570	UG/KG	0.88 J	1.9 U	2.4 U	2.0 U	2.7 U	2.0 U
Explosives (8330)										
NITROBENZENE	2000	4000	419	UG/KG	100 U	99 U	100 U	100 U	250 J	99 U

TABLE 5-17 SUMMARY OF REPORTED CONCENTRATIONS IN SURFACE SOIL (OUTFALL LOCATIONS), SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	SN	ST	ST	ST	ST	UN
				Excavation:	OF01	OF02	OF03	OF03	OF04	OF06
				Sample Name:	C7-SOM-SS-OF01-SN01-0.5	C7-SOM-SS-OF02-ST03-0.5	C7-SOM-SS-OF03-ST02-0.5	C7-SOM-SS-DUP1	C7-SOM-SS-OF04-ST01-0.5	C7-SOM-SS-OF06-UN01-0.5
				Sample Depth:	0.5 FT	0.5 FT	0.5 FT	0.5 FT	0.5 FT	0.5 FT
				Sample Date:	8/3/2006	8/3/2006	8/3/2006	8/3/2006	8/3/2006	8/3/2006
				Parent Name:				C7-SOM-SS-OF03-ST02-0.5		
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**						
Metals (6010B/6020/7841/7470A/7471A)										
ALUMINUM	7600		54000000	MG/KG	**11400**	6870	**9150**	**8410**	**11600**	**8530**
ANTIMONY	3.1		135.3	MG/KG	0.19 J	.88 U	.9 U	.73 U	1.1 U	0.41 J
ARSENIC	0.39		5003	MG/KG	**5.9**	**2.4 J**	**4.4 J**	**3.4 J**	**3.1 J**	**6.8**
BARIUM	540		41110	MG/KG	105 J	73 J	99.2 J	82.8 J	82.6 J	168 J
BERYLLIUM	15		2370	MG/KG	0.47	0.32	0.48	0.4	0.62	0.39
BORON	1600		3107	MG/KG	10 J	5.8 J	6.3 J	5.2 J	9.9 J	4.3 J
CADMIUM	3.7		375.5	MG/KG	0.56	2.6	0.48	0.39	0.42 J	0.8
CALCIUM				MG/KG	35500	67000	66100 J	42100 J	35800	59900
CHROMIUM	22		90000000	MG/KG	**66.1**	**23.7**	**23.9**	**23.7**	**26.2**	**33.3**
COBALT	140		32930	MG/KG	13.2	6.5	8.6	7.7	8.7	14.9
COPPER	310		85620	MG/KG	132	44.3	46.3	43.6	35.5	47.5
IRON	2300		7532	MG/KG	**22600**	**16200**	**20600**	**17500**	**19600**	**57900**
LEAD	400		22500	MG/KG	23.1	30.6	12.9	12.2	14.9	17
LITHIUM	160			MG/KG	18.1	10.9	15.7	14.7	19.3	13.3
MAGNESIUM				MG/KG	8100	24500	8650	8160	9570	6980
MANGANESE	180		19530	MG/KG	**987**	**827**	**881**	**792**	**818**	**3190**
MERCURY	2.3		36.53	MG/KG	0.03 U	0.023 U	.036 U	0.032 U	.033 U	0.039 U
MOLYBDENUM	39		3619	MG/KG	0.86 J	0.55 J	0.38 J	0.29 J	0.54 J	2.9 J
NICKEL	160		602.1	MG/KG	33.2	14.7	18.3	16.9	19.4	25.9
POTASSIUM				MG/KG	1940 J	1250 J	1680 J	1440 J	2090 J	1450 J
SILVER	39		420.4	MG/KG	0.15 J	0.22 J	0.05 J	0.045 J	0.056 J	0.44
SODIUM				MG/KG	141 J	123 J	137 J	116 J	192 J	101 J
VANADIUM	7.8		36000	MG/KG	**25.4**	**17.6**	**24.6**	**19.7**	**24.6**	**24.6**
ZINC	2300		124200	MG/KG	147 J	2050 J	101 J	84.1 J	323 J	109 J
General Chemistry										
PERCENT SOLIDS				%	80	87	71	82	61	83

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004

Crit2: New York State TAGM 4046 Soil, 1999

Blank Cell = Not Analyzed

See Table 5-2 for complete footnotes and explanation of shading.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-17 SUMMARY OF REPORTED CONCENTRATIONS IN SURFACE SOIL (OUTFALL LOCATIONS), SOMERSET GROUP PROPERTY,
UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW
				Excavation:	OF05
				Sample Name:	C7-SOM-SS-OF05-WW01-0.5
				Sample Depth:	0.5 FT
				Sample Date:	8/3/2006
				Parent Name:	
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**	
Semi-Volatile Organic Compounds (8151/8270C/8310)					
1,2-BENZPHENANTHRACENE	62000		3943	UG/KG	31
2-METHYLNAPHTHALENE	5600		147800	UG/KG	9.3 U
2-METHYLPHENOL	310000		412300	UG/KG	47 U
2-NITROPHENOL	880			UG/KG	47 U
4-METHYLPHENOL	31000	400000	90940	UG/KG	40 J
ACENAPHTHENE	370000	500000	485100	UG/KG	9.3 U
ANTHRACENE	2200000	2000000	5919000	UG/KG	8.4 J
BENZ[A]ANTHRACENE	620	224	3923	UG/KG	35
BENZO[A]PYRENE	62	60.9		UG/KG	29
BENZO[B]FLUORANTHENE	620	224	12120	UG/KG	45
BENZO[GHI]PERYLENE	230000			UG/KG	11
BENZO[K]FLUORANTHENE	6200	224	12120	UG/KG	17 J
BIS(2-ETHYLHEXYL) PHTHALATE	35000	50000	372100000	UG/KG	9.3 U
CARBAZOLE	24000		1135	UG/KG	9.3 U
DIBENZ[A,H]ANTHRACENE	62	14.3	172300	UG/KG	9.3 U
DIBENZOFURAN	15000		462500	UG/KG	9.3 U
DIETHYL PHTHALATE	4900000	6000000		UG/KG	9.8
FLUORANTHENE	230000	300000	26370000	UG/KG	53
FLUORENE	270000	300000	1952000	UG/KG	9.3 U
INDENO[1,2,3-CD]PYRENE	620		34200	UG/KG	9.8
NAPHTHALENE	5600	30000	60240	UG/KG	9.3 U
PHENANTHRENE	5600		1189000	UG/KG	34
PHENOL	1800000	5000000	250.1	UG/KG	26 J
PYRENE	230000	200000	16760000	UG/KG	64 J
Pesticides (8081)/Polychlorinated Biphenyls(8082)					
4,4'-DDD	2400	2900	6608000	UG/KG	1.2 J
4,4'-DDE	1700	2100	2592000	UG/KG	2.3 U
4,4'-DDT	1700	2100	85.5	UG/KG	2.3 U
AROCLOR 1254	110	1000	335400	UG/KG	23 U
AROCLOR 1260	110	1000	918200	UG/KG	23 U
GAMMA-CHLORDANE	1600	500	29570	UG/KG	2.3 U
Explosives (8330)					
NITROBENZENE	2000	4000	419	UG/KG	100 U

TABLE 5-17 SUMMARY OF REPORTED CONCENTRATIONS IN SURFACE SOIL (OUTFALL LOCATIONS), SOMERSET GROUP PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	WW
				Excavation:	OF05
				Sample Name:	C7-SOM-SS-OF05-WW01-0.5
				Sample Depth:	0.5 FT
				Sample Date:	8/3/2006
				Parent Name:	
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**	
Metals (6010B/6020/7841/7470A/7471A)					
ALUMINUM	7600		54000000	MG/KG	**9260**
ANTIMONY	3.1		135.3	MG/KG	.85 U
ARSENIC	0.39		5003	MG/KG	**3.9 J**
BARIUM	540		41110	MG/KG	138 J
BERYLLIUM	15		2370	MG/KG	0.4
BORON	1600		3107	MG/KG	4.9 J
CADMIUM	3.7		375.5	MG/KG	0.54
CALCIUM				MG/KG	55800
CHROMIUM	22		90000000	MG/KG	**31**
COBALT	140		32930	MG/KG	10
COPPER	310		85620	MG/KG	40.1
IRON	2300		7532	MG/KG	**20700**
LEAD	400		22500	MG/KG	14.3
LITHIUM	160			MG/KG	18.1
MAGNESIUM				MG/KG	8010
MANGANESE	180		19530	MG/KG	**1610**
MERCURY	2.3		36.53	MG/KG	0.033 U
MOLYBDENUM	39		3619	MG/KG	0.49 J
NICKEL	160		602.1	MG/KG	17.8
POTASSIUM				MG/KG	1400 J
SILVER	39		420.4	MG/KG	0.038 J
SODIUM				MG/KG	90.7 J
VANADIUM	7.8		36000	MG/KG	**22.3**
ZINC	2300		124200	MG/KG	89.4 J
General Chemistry					
PERCENT SOLIDS				%	72

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.
Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-18 SUMMARY OF REPORTED CONCENTRATIONS IN SEDIMENT, 30-INCH OUTFALL LINE, SOUTHWEST DRAINAGE DITCH, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

			ine Type:	30IN
			cavation:	X00
			le Name:	C7-OCC-SS-X00-SN01-0.5
			le Depth:	0.5 FT
			ple Date:	8/7/2006
			nt Name:	
Analyte	**Crit1**	**Crit2**	**Unit**	
Metals (6010B/6020/7841/7470A/7471A)				
BORON	1600		MG/KG	20.4 J
LITHIUM	160		MG/KG	18.2
General Chemistry				
PERCENT SOLIDS			%	75

Crit1: U.S. EPA Region 9 PRG Residential Soil, 2004
Crit2: New York State TAGM 4046 Soil, 1999
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes and explanation of shading.
Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-19 SUMMARY OF REPORTED CONCENTRATIONS IN SURFACE WATER, 30-INCH OUTFALL LINE, SOUTHWEST DRAINAGE DITCH, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

				Line Type:	30IN
				Excavation:	X00
				Sample Name:	C7-OCC-SW-X00-SN01-1
				Sample Depth:	1 FT
				Sample Date:	8/7/2006
				Parent Name:	
Analyte	**Crit1**	**Crit2**	**Crit3**	**Unit**	
Metals (6010B/6020/7841/7470A/7471A)					
BORON	730	10000		UG/L	187
LITHIUM	73			UG/L	5.4

Crit1: U.S. EPA Region 9 PRG Tap Water, 2004
Crit2: New York State TOG Surface Water, 1998
Blank Cell = Not Analyzed
See Table 5-2 for complete footnotes.

Reporting limits for some non-detected analytes may exceed decision criteria - see Section 4.4.3 and Tables 4-8 through 4-13.

TABLE 5-20 SUMMARY OF BACKGROUND EVALUATION RESULTS
ACID WASTE LINES

Line Type	Constituent	Unit	Number of Results in Background Data Set	Median Concentration in Background Data Set [1]	Number of Results in Line Type Data Set	Frequency of Detection in Line Type Data Set	Median Concentration in Line Type Data Set [1]	Wilcox Rank Sum Test		COPC
								Z	Right-Tail Probability	
Acid Waste Line	ALUMINUM	MG/KG	34	10600	16	1.00	14300	2.23	0.0153	Yes
Acid Waste Line	ANTIMONY	MG/KG	34	BQL	16	0.06	BQL	-5.20	1.0000	No
Acid Waste Line	ARSENIC	MG/KG	34	3.85	16	0.81	3.4	-2.05	0.9772	No
Acid Waste Line	BARIUM	MG/KG	34	99.45	16	1.00	121	1.67	0.0502	No
Acid Waste Line	BERYLLIUM	MG/KG	34	0.59	16	1.00	0.685	0.72	0.2382	No
Acid Waste Line	BORON	MG/KG	34	3.65	16	0.44	BQL	3.21	0.0012	Yes
Acid Waste Line	CADMIUM	MG/KG	34	BQL	16	1.00	0.185	4.74	0.0000	Yes
Acid Waste Line	CALCIUM	MG/KG	34	24750	16	1.00	45050	2.29	0.0133	Yes
Acid Waste Line	CHROMIUM	MG/KG	34	16.95	16	1.00	20.6	1.92	0.0301	Yes
Acid Waste Line	COBALT	MG/KG	34	10.4	16	1.00	9.3	-0.64	0.7390	No
Acid Waste Line	COPPER	MG/KG	34	23.85	16	0.94	25.7	0.78	0.2196	No
Acid Waste Line	IRON	MG/KG	34	22500	16	1.00	24700	1.51	0.0690	No
Acid Waste Line	LEAD	MG/KG	34	8.35	16	1.00	7.75	-0.38	0.6490	No
Acid Waste Line	LITHIUM	MG/KG	34	19.95	16	1.00	22.75	1.24	0.1109	No
Acid Waste Line	MAGNESIUM	MG/KG	34	6655	16	1.00	10150	2.55	0.0070	Yes
Acid Waste Line	MANGANESE	MG/KG	34	602.5	16	1.00	734	2.32	0.0123	Yes
Acid Waste Line	MERCURY	MG/KG	34	BQL	16	0.69	0.0185	-3.53	0.9995	No
Acid Waste Line	NICKEL	MG/KG	34	21.25	16	1.00	20.6	-0.45	0.6716	No
Acid Waste Line	POTASSIUM	MG/KG	34	1070	16	1.00	2280	3.77	0.0002	Yes
Acid Waste Line	SELENIUM	MG/KG	34	BQL	16	0.06	BQL	5.32	0.0000	Yes
Acid Waste Line	SILVER	MG/KG	34	BQL	16	1.00	0.0435	-4.96	1.0000	No
Acid Waste Line	SODIUM	MG/KG	34	158	16	1.00	157.5	-0.32	0.6257	No
Acid Waste Line	THALLIUM	MG/KG	34	BQL	16	0.06	BQL	-0.64	0.7367	No
Acid Waste Line	VANADIUM	MG/KG	34	23.15	16	1.00	30	2.86	0.0031	Yes
Acid Waste Line	ZINC	MG/KG	34	53.9	16	0.88	48.35	-1.13	0.8687	No

[1] BQL = The median concentration is below the quantitation limit.
COPC = Constituent of Potential Concern
MG/KG = Milligram per kilogram
If the right-tailed probability is less than 0.05 then the constituent exceeds background and is considered a COPC.
Shading = essential human nutrient.

TABLE 5-21 SUMMARY OF BACKGROUND EVALUATION RESULTS
CHEMICAL WASTE LINES

Line Type	Constituent	Unit	Number of Results in Background Data Set	Median Concentration in Background Data Set [1]	Number of Results in Line Type Data Set	Frequency of Detection in Line Type Data Set	Median Concentration in Line Type Data Set [1]	Wilcox Rank Sum Test Z	Wilcox Rank Sum Test Right-Tail Probability	COPC
Chemical Waste Line	ALUMINUM	MG/KG	34	10600	14	1.00	13000	1.05	0.1484	No
Chemical Waste Line	ANTIMONY	MG/KG	34	BQL	14	0.21	BQL	-3.65	0.9997	No
Chemical Waste Line	ARSENIC	MG/KG	34	3.85	14	1.00	3.35	-0.84	0.7974	No
Chemical Waste Line	BARIUM	MG/KG	34	99.45	14	1.00	111	0.73	0.2358	No
Chemical Waste Line	BERYLLIUM	MG/KG	34	0.59	14	1.00	0.58	-0.71	0.7608	No
Chemical Waste Line	BORON	MG/KG	34	3.65	14	0.64	5.05	1.37	0.0882	No
Chemical Waste Line	CADMIUM	MG/KG	34	BQL	14	0.71	0.2	4.20	0.0001	Yes
Chemical Waste Line	CALCIUM	MG/KG	34	24750	14	1.00	36700	1.55	0.0635	No
Chemical Waste Line	CHROMIUM	MG/KG	34	16.95	14	1.00	18.25	0.77	0.2222	No
Chemical Waste Line	COBALT	MG/KG	34	10.4	14	1.00	8.9	-0.95	0.8272	No
Chemical Waste Line	COPPER	MG/KG	34	23.85	14	1.00	26.1	1.41	0.0831	No
Chemical Waste Line	IRON	MG/KG	34	22500	14	1.00	23175	0.60	0.2753	No
Chemical Waste Line	LEAD	MG/KG	34	8.35	14	1.00	8	-0.58	0.7172	No
Chemical Waste Line	LITHIUM	MG/KG	34	19.95	14	1.00	20.35	0.18	0.4284	No
Chemical Waste Line	MAGNESIUM	MG/KG	34	6655	14	1.00	7960	0.65	0.2606	No
Chemical Waste Line	MANGANESE	MG/KG	34	602.5	14	1.00	769	2.05	0.0228	Yes
Chemical Waste Line	MERCURY	MG/KG	34	BQL	14	0.79	0.021	-1.79	0.9605	No
Chemical Waste Line	NICKEL	MG/KG	34	21.25	14	1.00	19.6	-0.70	0.7573	No
Chemical Waste Line	POTASSIUM	MG/KG	34	1070	14	1.00	2050	2.76	0.0042	Yes
Chemical Waste Line	SELENIUM	MG/KG	34	BQL	14	0.14	BQL	5.10	0.0000	Yes
Chemical Waste Line	SILVER	MG/KG	34	BQL	14	1.00	0.0435	-4.31	1.0000	No
Chemical Waste Line	SODIUM	MG/KG	34	158	14	0.64	108.75	-2.67	0.9947	No
Chemical Waste Line	THALLIUM	MG/KG	34	BQL	14	0.00	BQL	-0.49	0.6874	No
Chemical Waste Line	VANADIUM	MG/KG	34	23.15	14	1.00	27.35	2.33	0.0122	Yes
Chemical Waste Line	ZINC	MG/KG	34	53.9	14	1.00	51.975	-0.65	0.7395	No

[1] BQL = The median concentration is below the quantitation limit.
COPC = Constituent of Potential Concern
MG/KG = Milligram per kilogram
If the right-tailed probability is less than 0.05 then the constituent exceeds background and is considered a COPC.
Shading = essential human nutrient.

TABLE 5-22 SUMMARY OF BACKGROUND EVALUATION RESULTS
DRAINS, PITS, SUMPS, AND VAULTS

Line Type	Constituent	Unit	Number of Results in Background Data Set	Median Concentration in Background Data Set [1]	Number of Results in Line Type Data Set	Frequency of Detection in Line Type Data Set	Median Concentration in Line Type Data Set [1]	Wilcox Rank Sum Test		COPC
								Z	Right-Tail Probability	
Dry Well, Pits, Vaults, Sumps	ALUMINUM	MG/KG	34	10600	5	1.00	12900	1.26	0.1076	No
Dry Well, Pits, Vaults, Sumps	ANTIMONY	MG/KG	34	BQL	5	0.20	BQL	-1.75	0.9557	No
Dry Well, Pits, Vaults, Sumps	ARSENIC	MG/KG	34	3.85	5	1.00	3.6	-0.63	0.7340	No
Dry Well, Pits, Vaults, Sumps	BARIUM	MG/KG	34	99.45	5	1.00	151	1.53	0.0667	No
Dry Well, Pits, Vaults, Sumps	BERYLLIUM	MG/KG	34	0.59	5	1.00	0.6	0.42	0.3383	No
Dry Well, Pits, Vaults, Sumps	BORON	MG/KG	34	3.65	5	0.20	BQL	1.18	0.1234	No
Dry Well, Pits, Vaults, Sumps	CADMIUM	MG/KG	34	BQL	5	1.00	0.31	3.36	0.0009	Yes
Dry Well, Pits, Vaults, Sumps	CALCIUM	MG/KG	34	24750	5	1.00	26100	0.02	0.4917	No
Dry Well, Pits, Vaults, Sumps	CHROMIUM	MG/KG	34	16.95	5	1.00	19.8	1.45	0.0777	No
Dry Well, Pits, Vaults, Sumps	COBALT	MG/KG	34	10.4	5	1.00	8.8	-0.82	0.7911	No
Dry Well, Pits, Vaults, Sumps	COPPER	MG/KG	34	23.85	5	0.80	24.6	0.00	0.5000	No
Dry Well, Pits, Vaults, Sumps	IRON	MG/KG	34	22500	5	1.00	25700	1.74	0.0446	Yes
Dry Well, Pits, Vaults, Sumps	LEAD	MG/KG	34	8.35	5	1.00	8.1	-0.92	0.8195	No
Dry Well, Pits, Vaults, Sumps	LITHIUM	MG/KG	34	19.95	5	1.00	22.6	1.24	0.1114	No
Dry Well, Pits, Vaults, Sumps	MAGNESIUM	MG/KG	34	6655	5	1.00	7110	0.19	0.4255	No
Dry Well, Pits, Vaults, Sumps	MANGANESE	MG/KG	34	602.5	5	1.00	790	1.01	0.1599	No
Dry Well, Pits, Vaults, Sumps	MERCURY	MG/KG	34	BQL	5	0.60	0.021	-0.75	0.7700	No
Dry Well, Pits, Vaults, Sumps	NICKEL	MG/KG	34	21.25	5	1.00	20.4	-0.19	0.5745	No
Dry Well, Pits, Vaults, Sumps	POTASSIUM	MG/KG	34	1070	5	1.00	1910	2.21	0.0168	Yes
Dry Well, Pits, Vaults, Sumps	SELENIUM	MG/KG	34	BQL	5	0.20	BQL	3.35	0.0009	Yes
Dry Well, Pits, Vaults, Sumps	SILVER	MG/KG	34	BQL	5	1.00	0.042	-3.07	0.9980	No
Dry Well, Pits, Vaults, Sumps	SODIUM	MG/KG	34	158	5	0.80	110	-1.16	0.8724	No
Dry Well, Pits, Vaults, Sumps	THALLIUM	MG/KG	34	BQL	5	0.00	BQL	-1.93	0.9694	N0
Dry Well, Pits, Vaults, Sumps	VANADIUM	MG/KG	34	23.15	5	1.00	25.1	1.41	0.0837	No
Dry Well, Pits, Vaults, Sumps	ZINC	MG/KG	34	53.9	5	0.80	47.2	-0.40	0.6540	No

[1] BQL = The median concentration is below the quantitation limit.
COPC = Constituent of Potential Concern
MG/KG = Milligram per kilogram
If the right-tailed probability is less than 0.05 then the constituent is considered a COPC.
Shading = essential human nutrient.

TABLE 5-23 SUMMARY OF BACKGROUND EVALUATION RESULTS
SANITARY SEWER LINES

Line Type	Constituent	Unit	Number of Results in Background Data Set	Median Concentration in Background Data Set [1]	Number of Results in Line Type Data Set	Frequency of Detection in Line Type Data Set	Median Concentration in Line Type Data Set [1]	Wilcox Rank Sum Test Z	Wilcox Rank Sum Test Right-Tail Probability	COPC
Sanitary Sewer Line	ALUMINUM	MG/KG	34	10600	47	1.00	13500	1.46	0.0742	No
Sanitary Sewer Line	ANTIMONY	MG/KG	34	BQL	47	0.11	BQL	-6.51	1.0000	No
Sanitary Sewer Line	ARSENIC	MG/KG	34	3.85	47	0.94	3.1	-2.81	0.9969	No
Sanitary Sewer Line	BARIUM	MG/KG	34	99.45	47	1.00	113	1.07	0.1435	No
Sanitary Sewer Line	BERYLLIUM	MG/KG	34	0.59	47	1.00	0.59	-0.49	0.6866	No
Sanitary Sewer Line	BORON	MG/KG	34	3.65	47	0.30	BQL	1.86	0.0335	Yes
Sanitary Sewer Line	CADMIUM	MG/KG	34	BQL	47	0.85	0.18	5.99	0.0000	Yes
Sanitary Sewer Line	CALCIUM	MG/KG	34	24750	47	1.00	39300	2.27	0.0129	Yes
Sanitary Sewer Line	CHROMIUM	MG/KG	34	16.95	47	1.00	17.75	0.45	0.3253	No
Sanitary Sewer Line	COBALT	MG/KG	34	10.4	47	1.00	8.8	-1.54	0.9364	No
Sanitary Sewer Line	COPPER	MG/KG	34	23.85	47	1.00	27.8	2.10	0.0194	Yes
Sanitary Sewer Line	IRON	MG/KG	34	22500	47	1.00	21900	-0.14	0.5569	No
Sanitary Sewer Line	LEAD	MG/KG	34	8.35	47	1.00	7	-0.39	0.6521	No
Sanitary Sewer Line	LITHIUM	MG/KG	34	19.95	47	1.00	22.2	0.41	0.3426	No
Sanitary Sewer Line	MAGNESIUM	MG/KG	34	6655	47	1.00	8270	1.08	0.1414	No
Sanitary Sewer Line	MANGANESE	MG/KG	34	602.5	47	1.00	709	1.93	0.0284	Yes
Sanitary Sewer Line	MERCURY	MG/KG	34	BQL	47	0.70	0.016	-4.07	0.9999	No
Sanitary Sewer Line	NICKEL	MG/KG	34	21.25	47	1.00	19.3	-0.87	0.8055	No
Sanitary Sewer Line	POTASSIUM	MG/KG	34	1070	47	0.94	1840	3.26	0.0008	Yes
Sanitary Sewer Line	SELENIUM	MG/KG	34	BQL	47	0.19	BQL	7.21	0.0000	Yes
Sanitary Sewer Line	SILVER	MG/KG	34	BQL	47	0.94	0.045	-5.54	1.0000	No
Sanitary Sewer Line	SODIUM	MG/KG	34	158	47	0.77	116	-2.96	0.9980	No
Sanitary Sewer Line	THALLIUM	MG/KG	34	BQL	47	0.06	BQL	-1.99	0.9752	No
Sanitary Sewer Line	VANADIUM	MG/KG	34	23.15	47	1.00	27	2.31	0.0118	Yes
Sanitary Sewer Line	ZINC	MG/KG	34	53.9	47	0.91	46.7	-1.65	0.9482	No

[1] BQL = The median concentration is below the quantitation limit.
COPC = Constituent of Potential Concern
MG/KG = Milligram per kilogram
If the right-tailed probability is less than 0.05 then the constituent is considered a COPC.
Shading = essential human nutrient.

TABLE 5-24 SUMMARY OF BAC ROUND EVALUATION RESULTS
WASTEWATER LINES

Line Type	Constituent	Unit	Number of Results in Background Data Set	Median Concentration in Background Data Set [1]	Number of Results in Line Type Data Set	Frequency of Detection in Line Type Data Set	Median Concentration in Line Type Data Set [1]	Wilcox Rank Sum Test		COPC
								Z	Right-Tail Probability	
Wastewater Line	ALUMINUM	MG/KG	34	10600	43	1.00	11300	0.03	0.4878	No
Wastewater Line	ANTIMONY	MG/KG	34	BQL	43	0.21	BQL	-5.02	1.0000	No
Wastewater Line	ARSENIC	MG/KG	34	3.85	43	0.91	3.4	-1.70	0.9533	No
Wastewater Line	BARIUM	MG/KG	34	99.45	43	1.00	99	-0.11	0.5448	No
Wastewater Line	BERYLLIUM	MG/KG	34	0.59	43	1.00	0.545	-1.48	0.9289	No
Wastewater Line	BORON	MG/KG	34	3.65	43	0.30	BQL	0.91	0.1820	No
Wastewater Line	CADMIUM	MG/KG	34	BQL	43	0.91	0.195	5.96	0.0000	Yes
Wastewater Line	CALCIUM	MG/KG	34	24750	43	1.00	34600	2.30	0.0120	Yes
Wastewater Line	CHROMIUM	MG/KG	34	16.95	43	1.00	16.6	-0.29	0.6146	No
Wastewater Line	COBALT	MG/KG	34	10.4	43	1.00	8.7	-1.74	0.9574	No
Wastewater Line	COPPER	MG/KG	34	23.85	43	0.88	24.3	0.66	0.2551	No
Wastewater Line	IRON	MG/KG	34	22500	43	1.00	22100	-0.39	0.6530	No
Wastewater Line	LEAD	MG/KG	34	8.35	43	1.00	7.5	-0.01	0.5041	No
Wastewater Line	LITHIUM	MG/KG	34	19.95	43	1.00	18.6	-0.75	0.7734	No
Wastewater Line	MAGNESIUM	MG/KG	34	6655	43	1.00	7880	0.90	0.1848	No
Wastewater Line	MANGANESE	MG/KG	34	602.5	43	1.00	758	2.59	0.0058	Yes
Wastewater Line	MERCURY	MG/KG	34	BQL	43	0.88	0.018	-3.04	0.9984	No
Wastewater Line	NICKEL	MG/KG	34	21.25	43	1.00	18.3	-1.57	0.9397	No
Wastewater Line	POTASSIUM	MG/KG	34	1070	43	0.95	1620	2.04	0.0223	Yes
Wastewater Line	SELENIUM	MG/KG	34	BQL	43	0.12	BQL	6.18	0.0000	Yes
Wastewater Line	SILVER	MG/KG	34	BQL	43	0.74	0.04	-6.60	1.0000	No
Wastewater Line	SODIUM	MG/KG	34	158	43	0.67	111	-2.05	0.9782	No
Wastewater Line	THALLIUM	MG/KG	34	BQL	43	0.02	BQL	-2.23	0.9857	No
Wastewater Line	VANADIUM	MG/KG	34	23.15	43	1.00	24.65	1.20	0.1179	No
Wastewater Line	ZINC	MG/KG	34	53.9	43	0.81	44.5	-1.07	0.8564	No

[1] BQL = The median concentration is below the quantitation limit.
COPC = Constituent of Potential Concern
MG/KG = Milligram per kilogram
If the right-tailed probability is less than 0.05 then the constituent is considered a COPC.
Shading = essential human nutrient.

TABLE 5-25 SUMMARY OF BAC ROUND EVALUATION RESULTS
STORM SEWER LINES

Line Type	Constituent	Unit	Number of Results in Line Type Data Set	Frequency of Detection in Line Type Data Set	Maximum Concentration in Line Type Data Set	Background Threshold (UPL)	COPC
Storm Sewer Line	ALUMINUM	MG/KG	4	1.00	12100	18500	No
Storm Sewer Line	ANTIMONY	MG/KG	4	0.00	NA	0.94	No
Storm Sewer Line	ARSENIC	MG/KG	4	1.00	3.9	7.25	No
Storm Sewer Line	BARIUM	MG/KG	4	1.00	112	211	No
Storm Sewer Line	BERYLLIUM	MG/KG	4	1.00	0.62	0.996	No
Storm Sewer Line	BORON	MG/KG	4	0.75	9.9	10.1	No
Storm Sewer Line	CADMIUM	MG/KG	4	1.00	2.6	0.53	Yes
Storm Sewer Line	CALCIUM	MG/KG	4	1.00	67000	58900	Yes
Storm Sewer Line	CHROMIUM	MG/KG	4	1.00	26.2	26.2	Yes
Storm Sewer Line	COBALT	MG/KG	4	1.00	8.7	27	No
Storm Sewer Line	COPPER	MG/KG	4	1.00	44.95	46.7	No
Storm Sewer Line	IRON	MG/KG	4	1.00	21400	34700	No
Storm Sewer Line	LEAD	MG/KG	4	1.00	30.6	26.8	Yes
Storm Sewer Line	LITHIUM	MG/KG	4	1.00	20	34.8	No
Storm Sewer Line	MAGNESIUM	MG/KG	4	1.00	24500	13900	Yes
Storm Sewer Line	MANGANESE	MG/KG	4	1.00	836.5	6650	No
Storm Sewer Line	MERCURY	MG/KG	4	0.25	0.026	0.27	No
Storm Sewer Line	NICKEL	MG/KG	4	1.00	19.4	34.7	No
Storm Sewer Line	POTASSIUM	MG/KG	4	1.00	2090	2500	No
Storm Sewer Line	SELENIUM	MG/KG	4	0.25	0.95	0.37	Yes
Storm Sewer Line	SILVER	MG/KG	4	1.00	0.22	0.27	No
Storm Sewer Line	SODIUM	MG/KG	4	1.00	192	316	No
Storm Sewer Line	THALLIUM	MG/KG	4	0.00	NA	0.5	No
Storm Sewer Line	VANADIUM	MG/KG	4	1.00	25.8	34.9	No
Storm Sewer Line	ZINC	MG/KG	4	1.00	2050	266	Yes

Shading = essential human nutrient.
COPC = Constituent of Potential Concern
MG/KG = Milligram per kilogram
If the maximum concentration exceeds the UPL then the constituent exceeds background and is considered a COPC.

TABLE 5-26 SUMMARY OF BACKGROUND EVALUATION RESULTS
UNKNOWN LINES

Line Type	Constituent	Unit	Number of Results in Background Data Set	Median Concentration in Background Data Set [1]	Number of Results in Line Type Data Set	Frequency of Detection in Line Type Data Set	Median Concentration in Line Type Data Set [1]	Wilcox Rank Sum Test		COPC
								Z	Right-Tail Probability	
Unknown Line	ALUMINUM	MG/KG	34	10600	46	1.00	12950	2.04	0.0224	Yes
Unknown Line	ANTIMONY	MG/KG	34	BQL	46	0.20	BQL	-5.40	1.0000	No
Unknown Line	ARSENIC	MG/KG	34	3.85	46	1.00	3.9	0.18	0.4287	No
Unknown Line	BARIUM	MG/KG	34	99.45	46	1.00	118.5	1.79	0.0386	Yes
Unknown Line	BERYLLIUM	MG/KG	34	0.59	46	1.00	0.63	0.05	0.4806	No
Unknown Line	BORON	MG/KG	34	3.65	46	0.43	BQL	2.01	0.0237	Yes
Unknown Line	CADMIUM	MG/KG	34	BQL	46	0.96	0.215	6.53	0.0000	Yes
Unknown Line	CALCIUM	MG/KG	34	24750	46	1.00	37500	2.20	0.0154	Yes
Unknown Line	CHROMIUM	MG/KG	34	16.95	46	1.00	19.25	2.23	0.0143	Yes
Unknown Line	COBALT	MG/KG	34	10.4	46	1.00	8.95	-0.89	0.8121	No
Unknown Line	COPPER	MG/KG	34	23.85	46	0.78	24.4	1.06	0.1471	No
Unknown Line	IRON	MG/KG	34	22500	46	1.00	23800	1.59	0.0577	No
Unknown Line	LEAD	MG/KG	34	8.35	46	1.00	9.3	1.81	0.0370	Yes
Unknown Line	LITHIUM	MG/KG	34	19.95	46	1.00	21.4	0.96	0.1703	No
Unknown Line	MAGNESIUM	MG/KG	34	6655	46	1.00	8030	0.98	0.1655	No
Unknown Line	MANGANESE	MG/KG	34	602.5	46	1.00	741	1.99	0.0253	Yes
Unknown Line	MERCURY	MG/KG	34	BQL	46	0.78	0.018	-3.42	0.9995	No
Unknown Line	NICKEL	MG/KG	34	21.25	46	1.00	19.95	-0.26	0.6033	No
Unknown Line	POTASSIUM	MG/KG	34	1070	44	0.93	1605	2.53	0.0067	Yes
Unknown Line	SELENIUM	MG/KG	34	BQL	46	0.20	BQL	7.18	0.0000	Yes
Unknown Line	SILVER	MG/KG	34	BQL	46	0.96	0.049	-5.19	1.0000	No
Unknown Line	SODIUM	MG/KG	34	158	46	0.65	118	-1.77	0.9594	No
Unknown Line	THALLIUM	MG/KG	34	BQL	46	0.07	BQL	-1.68	0.9517	No
Unknown Line	VANADIUM	MG/KG	34	23.15	46	1.00	26.775	2.98	0.0019	Yes
Unknown Line	ZINC	MG/KG	34	53.9	46	0.61	38.2	-2.34	0.9891	No

[1] BQL = The median concentration is below the quantitation limit.
COPC = Constituent of Potential Concern
MG/KG = Milligram per kilogram
If the right-tailed probability is less than 0.05 then the constituent is considered a COPC.
Shading = essential human nutrient.

TABLE 5-27 SUMMARY OF BACKGROUND EVALUATION RESULTS
POTABLE WATER WATER LINES

Line Type	Constituent	Unit	Number of Results in Line Type Data Set	Frequency of Detection in Line Type Data Set	Maximum Concentration in Line Type Data Set	Background Threshold (UPL)	COPC
Potable Water	ALUMINUM	MG/KG	2	1.00	11100	18500	No
Potable Water	ANTIMONY	MG/KG	2	0.00	NA	0.94	No
Potable Water	ARSENIC	MG/KG	2	1.00	4.3	7.25	No
Potable Water	BARIUM	MG/KG	2	1.00	91.3	211	No
Potable Water	BERYLLIUM	MG/KG	2	1.00	0.45	0.996	No
Potable Water	BORON	MG/KG	2	0.50	4.9	10.1	No
Potable Water	CADMIUM	MG/KG	2	1.00	0.26	0.53	No
Potable Water	CALCIUM	MG/KG	2	1.00	49300	58900	No
Potable Water	CHROMIUM	MG/KG	2	1.00	16.5	26.2	No
Potable Water	COBALT	MG/KG	2	1.00	7.7	27	No
Potable Water	COPPER	MG/KG	2	0.50	23	46.7	No
Potable Water	IRON	MG/KG	2	1.00	19400	34700	No
Potable Water	LEAD	MG/KG	2	1.00	7.5	26.8	No
Potable Water	LITHIUM	MG/KG	2	1.00	29.5	34.8	No
Potable Water	MAGNESIUM	MG/KG	2	1.00	9250	13900	No
Potable Water	MANGANESE	MG/KG	2	1.00	736	6650	No
Potable Water	MERCURY	MG/KG	2	0.50	0.016	0.27	No
Potable Water	NICKEL	MG/KG	2	1.00	16.5	34.7	No
Potable Water	POTASSIUM	MG/KG	2	0.50	1520	2500	No
Potable Water	SELENIUM	MG/KG	2	0.00	NA	0.37	No
Potable Water	SILVER	MG/KG	2	1.00	0.039	0.27	No
Potable Water	SODIUM	MG/KG	2	1.00	120	316	No
Potable Water	THALLIUM	MG/KG	2	0.00	NA	0.5	No
Potable Water	VANADIUM	MG/KG	2	1.00	24.3	34.9	No
Potable Water	ZINC	MG/KG	2	0.00	NA	266	No

Shading = essential human nutrient.
COPC = Constituent of Potential Concern
MG/KG = Milligram per kilogram
If the maximum concentration exceeds the UPL then the constituent exceeds background and is considered a COPC.

TABLE 5-28 SUMMARY OF BACKGROUND EVALUATION RESULTS
COOLING WATER LINES

Line Type	Constituent	Unit	Number of Results in Line Type Data Set	Frequency of Detection in Line Type Data Set	Maximum Concentration in Line Type Data Set	Background Threshold (UPL)	COPC
Cooling Water	ALUMINUM	MG/KG	2	1.00	12500	18500	No
Cooling Water	ANTIMONY	MG/KG	2	0.00	NA	0.94	No
Cooling Water	ARSENIC	MG/KG	2	1.00	4.8	7.25	No
Cooling Water	BARIUM	MG/KG	2	1.00	62.2	211	No
Cooling Water	BERYLLIUM	MG/KG	2	1.00	0.55	0.996	No
Cooling Water	BORON	MG/KG	2	0.00	NA	10.1	No
Cooling Water	CADMIUM	MG/KG	2	1.00	0.28	0.53	No
Cooling Water	CALCIUM	MG/KG	2	1.00	47600	58900	No
Cooling Water	CHROMIUM	MG/KG	2	1.00	18.2	26.2	No
Cooling Water	COBALT	MG/KG	2	1.00	10.1	27	No
Cooling Water	COPPER	MG/KG	2	0.00	NA	46.7	No
Cooling Water	IRON	MG/KG	2	1.00	25300	34700	No
Cooling Water	LEAD	MG/KG	2	1.00	6.6	26.8	No
Cooling Water	LITHIUM	MG/KG	2	1.00	22.4	34.8	No
Cooling Water	MAGNESIUM	MG/KG	2	1.00	11000	13900	No
Cooling Water	MANGANESE	MG/KG	2	1.00	793	6650	No
Cooling Water	MERCURY	MG/KG	2	1.00	0.015	0.27	No
Cooling Water	NICKEL	MG/KG	2	1.00	21.9	34.7	No
Cooling Water	POTASSIUM	MG/KG	2	1.00	2430	2500	No
Cooling Water	SELENIUM	MG/KG	2	0.00	NA	0.37	No
Cooling Water	SILVER	MG/KG	2	1.00	0.041	0.27	No
Cooling Water	SODIUM	MG/KG	2	0.00	NA	316	No
Cooling Water	THALLIUM	MG/KG	2	0.00	NA	0.5	No
Cooling Water	VANADIUM	MG/KG	2	1.00	27.7	34.9	No
Cooling Water	ZINC	MG/KG	2	0.00	NA	266	No

Shading = essential human nutrient.
COPC = Constituent of Potential Concern
MG/KG = Milligram per kilogram
If the maximum concentration exceeds the UPL then the constituent exceeds background and is considered a COPC.

TABLE 5-29 SUMMARY OF BAC ROUND EVALUATION RESULTS
30-INCH LINE

Line Type	Constituent	Unit	Number of Results in Background Data Set	Median Concentration in Background Data Set [1]	Number of Results in Line Type Data Set	Frequency of Detection in Line Type Data Set	Median Concentration in Line Type Data Set [1]	Wilcox Rank Sum Test[1]		COPC
								Z	Right-Tail Probability	
30 Inch Outfall Line	ALUMINUM	MG/KG	34	10600	26	1.00	15750	4.04	0.0001	Yes
30 Inch Outfall Line	ANTIMONY	MG/KG	34	BQL	26	0.08	BQL	-6.01	1.0000	No
30 Inch Outfall Line	ARSENIC	MG/KG	34	3.85	26	1.00	4.5	1.84	0.0351	Yes
30 Inch Outfall Line	BARIUM	MG/KG	34	99.45	26	1.00	128.5	2.28	0.0130	Yes
30 Inch Outfall Line	BERYLLIUM	MG/KG	34	0.59	26	1.00	0.78	2.70	0.0046	Yes
30 Inch Outfall Line	BORON	MG/KG	34	3.65	26	0.54	7.55	4.74	0.0000	Yes
30 Inch Outfall Line	CADMIUM	MG/KG	34	BQL	26	1.00	0.215	5.67	0.0000	Yes
30 Inch Outfall Line	CALCIUM	MG/KG	34	24750	26	1.00	57075	5.29	0.0000	Yes
30 Inch Outfall Line	CHROMIUM	MG/KG	34	16.95	26	1.00	21.05	3.36	0.0007	Yes
30 Inch Outfall Line	COBALT	MG/KG	34	10.4	26	1.00	10.775	0.05	0.4793	No
30 Inch Outfall Line	COPPER	MG/KG	34	23.85	26	1.00	27.2	1.30	0.0997	No
30 Inch Outfall Line	IRON	MG/KG	34	22500	26	1.00	26550	2.76	0.0038	Yes
30 Inch Outfall Line	LEAD	MG/KG	34	8.35	26	1.00	6.8	-0.67	0.7477	No
30 Inch Outfall Line	LITHIUM	MG/KG	34	19.95	26	1.00	26.3	2.40	0.0097	Yes
30 Inch Outfall Line	MAGNESIUM	MG/KG	34	6655	26	1.00	11000	3.98	0.0001	Yes
30 Inch Outfall Line	MANGANESE	MG/KG	34	602.5	26	1.00	743	2.82	0.0033	Yes
30 Inch Outfall Line	MERCURY	MG/KG	34	BQL	26	0.23	BQL	-3.85	0.9999	No
30 Inch Outfall Line	NICKEL	MG/KG	34	21.25	26	1.00	23.65	1.52	0.0667	No
30 Inch Outfall Line	SELENIUM	MG/KG	34	BQL	26	0.08	BQL	6.21	0.0000	Yes
30 Inch Outfall Line	SILVER	MG/KG	34	BQL	26	0.92	0.0455	-5.34	1.0000	No
30 Inch Outfall Line	SODIUM	MG/KG	34	158	26	0.73	145	-0.94	0.8244	No
30 Inch Outfall Line	THALLIUM	MG/KG	34	BQL	26	0.04	BQL	0.22	0.4115	No
30 Inch Outfall Line	VANADIUM	MG/KG	34	23.15	26	1.00	33.725	5.42	0.0000	Yes
30 Inch Outfall Line	ZINC	MG/KG	34	53.9	26	1.00	47.25	-1.52	0.9333	No

[1] BQL = The median concentration is below the quantitation limit.
COPC = Constituent of Potential Concern
MG/KG = Milligram per kilogram
If the right-tailed probability is less than 0.05 then the constituent is considered a COPC.
Shading = essential human nutrient.

TABLE 5-30 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, SOMERSET PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	AW	AW	DW	SN	SN	SN	SN
		Excavation:	X15	X23	X10	X26	X28	X30	X33
		Sample Name:	C7-SOM-SO-X15-UN01-6.5	C7-SOM-SO-X23-AW01-8	C7-SOM-SO-X10-DW01-1.5	C7-SOM-SO-X26-SN01-8	C7-SOM-SO-X28-SN01-8	C7-SOM-SO-X30-SN01-8	C7-SOM-SO-X33-SN01-4.5
		Sample Depth:	6.5 FT	8 FT	1.5 FT	8 FT	8 FT	8 FT	4.5 FT
		Sample Date:	7/17/2006	7/19/2006	7/13/2006	7/20/2006	7/21/2006	7/24/2006	7/25/2006
		Parent Name:							
Analyte	**Crit3**	**Unit**							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	**24500**	**26900**	**25700**	**23900**	**17100**	**20300**	**20400**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-30 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, SOMERSET PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	UN	UN	UN	UN	UN	UN	UN
		Excavation:	X01	X02	X02	X03	X04	X06	X07
		Sample Name:	C7-SOM-SO-X01-UN01-1	C7-SOM-SO-X02-UN01-1	C7-SOM-SO-X02-UN02-4	C7-SOM-SO-X03-UN01-1	C7-SOM-SO-X04-UN01-4	C7-SOM-SO-X06-UN01-4	C7-SOM-SO-X07-UN01-9
		Sample Depth:	1 FT	1 FT	4 FT	1 FT	4 FT	4 FT	9 FT
		Sample Date:	7/10/2006	7/10/2006	7/10/2006	7/11/2006	7/11/2006	7/11/2006	7/12/2006
		Parent Name:							
Analyte	**Crit3**	**Unit**							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	**23300**	**19300**	**22400**	**35100**	**25400**	**22800**	**21600**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-30 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, SOMERSET PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	UN	UN	UN	UN	UN	UN	UN
		Excavation:	X09	X09	X18	X20	X22	X27	X35
		Sample Name:	C7-SOM-SO-X09-UN01-4	C7-SOM-SO-DUP1	C7-SOM-SO-X18-UN01-3.5	C7-SOM-SO-X20-UN01-2.5	C7-SOM-SO-X22-UN01-3	C7-SOM-SO-X27-UN01-5.5	C7-SOM-SO-X35-UN01-5.5
		Sample Depth:	4 FT	4 FT	3.5 FT	2.5 FT	3 FT	5.5 FT	5.5 FT
		Sample Date:	7/13/2006	7/13/2006	7/18/2006	7/19/2006	7/19/2006	7/21/2006	7/25/2006
		Parent Name:		C7-SOM-SO-X09-UN01-4					
Analyte	**Crit3**	**Unit**							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	**26500**	**27000**	**25300**	**30900**	**26000**	**24400**	**16400**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-30 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, SOMERSET PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	UN	UN	UN	UN	UN	UN	WC
		Excavation:	X36	X36	X37	X38	X38	X38	X16
		Sample Name:	C7-SOM-SO-X36-UN01-3.5	C7-SOM-SO-X36-UN01-4	C7-SOM-SO-X37-UN01-7	C7-SOM-SO-X38-UN01-2.5	C7-SOM-SO-X38-UN02-2.5	C7-SOM-SO-X38-UN03-7	C7-SOM-SO-X16-CW01-6.5
		Sample Depth:	3.5 FT	4 FT	7 FT	2.5 FT	2.5 FT	7 FT	6.5 FT
		Sample Date:	7/26/2006	7/26/2006	7/26/2006	7/26/2006	7/26/2006	7/26/2006	7/18/2006
		Parent Name:							
Analyte	**Crit3**	**Unit**							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	**429000**	**29800**	**21500**	**27000**	**26900**	**24600**	**18700**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-30 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, SOMERSET PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	WC	WP	WP	WW	WW	WW	WW
		Excavation:	X17	X14	X34	X12	X13	X14	X16
		Sample Name:	C7-SOM-SO-X17-CW01-8.5	C7-SOM-SO-X14-UN01-6.5	C7-SOM-SO-X34-WP01-6	C7-SOM-SO-X12-WW01-9	C7-SOM-SO-X13-WW01-7	C7-SOM-SO-X14-WW01-6	C7-SOM-SO-X16-WW01-5.5
		Sample Depth:	8.5 FT	6.5 FT	6 FT	9 FT	7 FT	6 FT	5.5 FT
		Sample Date:	7/18/2006	7/17/2006	7/25/2006	7/13/2006	7/14/2006	7/26/2006	7/18/2006
		Parent Name:							
Analyte	**Crit3**	**Unit**							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	**25300**	**19400**	**19100**	**23700**	**24600**	**15000**	**22900**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-30 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, SOMERSET PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	WW	WW	WW	WW	WW	WW
		Excavation:	X16	X17	X21	X28	X28	X29
		Sample Name:	C7-SOM-SO-DUP2	C7-SOM-SO-X17-WW01-6	C7-SOM-SO-X21-WW01-5.5	C7-SOM-SO-X28-WW01-5	C7-SOM-SO-DUP3	C7-SOM-SO-X29-WW01-5
		Sample Depth:	5.5 FT	6 FT	5.5 FT	5 FT	5 FT	5 FT
		Sample Date:	7/18/2006	7/18/2006	7/19/2006	7/21/2006	7/21/2006	7/24/2006
		Parent Name:	C7-SOM-SO-X16-WW01-5.5				C7-SOM-SO-X28-WW01-5	
Analyte	**Crit3**	**Unit**						
Metals (6010B/6020/7841/7470A/7471A)								
IRON	7532	MG/KG	**21300**	**25900**	**25100**	**23300**	**21800**	**22300**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-31 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	AW	AW	AW	AW	AW	AW	AW
		Excavation:	X27	X41	X87	X88	X89	X89	X90
		Sample Name:	C7-CWM-SO-X27-CW01-6.5	C7-CWM-SO-X41-AW01-4.5	C7-CWM-SO-X87-AW01-16	C7-CWM-SO-X88-AW01-16	C7-CWM-SO-X89-AW01-17	C7-CWM-SO-DUP16	C7-CWM-SO-X90-AW01-16
		Sample Depth:	6.5 FT	4.5 FT	16 FT	16 FT	17 FT	17 FT	17 FT
		Sample Date:	8/30/2006	9/6/2006	9/25/2006	9/25/2006	9/26/2006	9/26/2006	9/26/2006
		Parent Name:						C7-CWM-SO-X89-AW01-17	
Analyte	**Crit3**	**Unit**							
Volatile Organic Compounds (8260B)									
1,1,1-TRICHLOROETHANE	4619	UG/KG							
1,2-DICHLOROBENZENE	6914	UG/KG							
1,4-DICHLOROBENZENE	6790	UG/KG							
BENZENE	453.8	UG/KG							
CHLOROFORM	2.77	UG/KG							
CIS-1,2-DICHLOROETHENE	1575	UG/KG							
ETHYLBENZENE	5749	UG/KG							
ISOPROPYLBENZENE	21090	UG/KG							
TOLUENE	4226	UG/KG							
TRICHLOROETHYLENE	3227	UG/KG							
Semi-Volatile Organic Compounds (8151/8270C/8310)									
BENZ[A]ANTHRACENE	3923	UG/KG							
CARBAZOLE	1135	UG/KG							
Pesticides (8081)/Polychlorinated Biphenyls(8082)									
4,4'-DDT	85.5	UG/KG							
AROCLOR 1232	45780	UG/KG							
AROCLOR 1254	335400	UG/KG							
BETA-BHC	252.7	UG/KG							
Explosives (8330)									
NITROBENZENE	419	UG/KG							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	**55300**	**24900**	**16500**	**29800**	**17600**	**16400**	**34300**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-31 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	AW	AW	AW	AW	AW	CW	CW
		Excavation:	X91	X92	X94	X95	X96	X22A	X32
		Sample Name:	C7-CWM-SO-X91-AW01-18	C7-CWM-SO-X92-AW01-14	C7-CWM-SO-X94-AW01-10	C7-CWM-SO-X95-AW01-11	C7-CWM-SO-X96-AW01-10	C7-CWM-SO-X22A UN01-5.5	C7-CWM-SO-X32-CW01-5
		Sample Depth:	18 FT	14 FT	10 FT	11 FT	10 FT	5.5 FT	5 FT
		Sample Date:	9/27/2006	10/5/2006	9/29/2006	9/29/2006	9/29/2006	8/29/2006	8/31/2006
		Parent Name:							
Analyte	**Crit3**	**Unit**							
Volatile Organic Compounds (8260B)									
1,1,1-TRICHLOROETHANE	4619	UG/KG							
1,2-DICHLOROBENZENE	6914	UG/KG							
1,4-DICHLOROBENZENE	6790	UG/KG							
BENZENE	453.8	UG/KG							
CHLOROFORM	2.77	UG/KG							
CIS-1,2-DICHLOROETHENE	1575	UG/KG							
ETHYLBENZENE	5749	UG/KG							
ISOPROPYLBENZENE	21090	UG/KG							
TOLUENE	4226	UG/KG							
TRICHLOROETHYLENE	3227	UG/KG							
Semi-Volatile Organic Compounds (8151/8270C/8310)									
BENZ[A]ANTHRACENE	3923	UG/KG							
CARBAZOLE	1135	UG/KG							
Pesticides (8081)/Polychlorinated Biphenyls(8082)									
4,4'-DDT	85.5	UG/KG							
AROCLOR 1232	45780	UG/KG							
AROCLOR 1254	335400	UG/KG							
BETA-BHC	252.7	UG/KG							
Explosives (8330)									
NITROBENZENE	419	UG/KG							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	**23000**	**16100**	**27400**	**25000**	**23200**	**297000**	**23000**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-31 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	CW	CW	CW	CW	CW	CW	CW
		Excavation:	X42	X43	X44	X47	X48	X49	X49
		Sample Name:	C7-CWM-SO-X42-CW01-3	C7-CWM-SO-X43-CW01-5.5	C7-CWM-SO-X44-CW01-3	C7-CWM-SO-X47-CW01-5	C7-CWM-SO-X48-CW01-5	C7-CWM-SO-X49-CW01-4	C7-CWM-SO-DUP12
		Sample Depth:	3 FT	5.5 FT	3.5 FT	5 FT	5 FT	4 FT	4 FT
		Sample Date:	9/6/2006	9/7/2006	9/7/2006	9/7/2006	9/8/2006	9/11/2006	9/11/2006
		Parent Name:							C7-CWM-SO-X49-CW01-4
Analyte	**Crit3**	**Unit**							
Volatile Organic Compounds (8260B)									
1,1,1-TRICHLOROETHANE	4619	UG/KG							
1,2-DICHLOROBENZENE	6914	UG/KG							
1,4-DICHLOROBENZENE	6790	UG/KG							
BENZENE	453.8	UG/KG							
CHLOROFORM	2.77	UG/KG							
CIS-1,2-DICHLOROETHENE	1575	UG/KG							
ETHYLBENZENE	5749	UG/KG							
ISOPROPYLBENZENE	21090	UG/KG							
TOLUENE	4226	UG/KG							
TRICHLOROETHYLENE	3227	UG/KG							
Semi-Volatile Organic Compounds (8151/8270C/8310)									
BENZ[A]ANTHRACENE	3923	UG/KG							
CARBAZOLE	1135	UG/KG							
Pesticides (8081)/Polychlorinated Biphenyls(8082)									
4,4'-DDT	85.5	UG/KG	**160 J**						
AROCLOR 1232	45780	UG/KG							
AROCLOR 1254	335400	UG/KG							
BETA-BHC	252.7	UG/KG							
Explosives (8330)									
NITROBENZENE	419	UG/KG							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	**17900**	**24300**	**21200**	**25600**	**25300**	**19700**	**27000**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-31 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	CW	CW	CW	CW	CW	CW	CW
		Excavation:	X49	X59	X60	X61	X62	X62	X73
		Sample Name:	C7-CWM-SO-X49-CW02-5	C7-CWM-SO-X59-CW01-6	C7-CWM-SO-X60-CW01-5.5	C7-CWM-SO-X61-CW01-6	C7-CWM-SO-X62-CW01-5	C7-CWM-SO-DUP14	C7-CWM-SO-X73-CW01-7.5
		Sample Depth:	5 FT	6 FT	5.5 FT	6 FT	5 FT	5 FT	7.5 FT
		Sample Date:	9/11/2006	9/12/2006	9/12/2006	9/13/2006	9/13/2006	9/13/2006	9/18/2006
		Parent Name:						C7-CWM-SO-X62-CW01-5	
Analyte	**Crit3**	**Unit**							
Volatile Organic Compounds (8260B)									
1,1,1-TRICHLOROETHANE	4619	UG/KG							
1,2-DICHLOROBENZENE	6914	UG/KG							
1,4-DICHLOROBENZENE	6790	UG/KG							
BENZENE	453.8	UG/KG							
CHLOROFORM	2.77	UG/KG							
CIS-1,2-DICHLOROETHENE	1575	UG/KG							
ETHYLBENZENE	5749	UG/KG							
ISOPROPYLBENZENE	21090	UG/KG							
TOLUENE	4226	UG/KG							
TRICHLOROETHYLENE	3227	UG/KG							
Semi-Volatile Organic Compounds (8151/8270C/8310)									
BENZ[A]ANTHRACENE	3923	UG/KG							
CARBAZOLE	1135	UG/KG							
Pesticides (8081)/Polychlorinated Biphenyls(8082)									
4,4'-DDT	85.5	UG/KG							
AROCLOR 1232	45780	UG/KG							
AROCLOR 1254	335400	UG/KG							
BETA-BHC	252.7	UG/KG							
Explosives (8330)									
NITROBENZENE	419	UG/KG							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	**23600**	**21500**	**23800 D**	**19600**	**30700 J**	**14500 J**	**16300**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-31 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	DW	DW	DW	DW	SN	SN	SN
		Excavation:	X35	X38	X77A	X116		X01	X02
		Sample Name:	C7-CWM-SO-X35-DW01-3.5	C7-CWM-SO-X38-DW01-3	C7-CWM-SO-X77A DW01-3	C7-CWM-SO-X116-DW01-7	C1-NH-SO-PIPE1	C7-CWM-SO-X01-SN01-6.5	C7-CWM-SO-X02-SN01-10
		Sample Depth:	3.5 FT	3 FT	3 FT	7 FT	4	6.5 FT	10 FT
		Sample Date:	9/5/2006	9/5/2006	9/19/2006	10/10/2006	6/29/1998	8/21/2006	8/21/2006
		Parent Name:							
Analyte	**Crit3**	**Unit**							
Volatile Organic Compounds (8260B)									
1,1,1-TRICHLOROETHANE	4619	UG/KG							
1,2-DICHLOROBENZENE	6914	UG/KG							
1,4-DICHLOROBENZENE	6790	UG/KG							
BENZENE	453.8	UG/KG							
CHLOROFORM	2.77	UG/KG							
CIS-1,2-DICHLOROETHENE	1575	UG/KG							
ETHYLBENZENE	5749	UG/KG							
ISOPROPYLBENZENE	21090	UG/KG							
TOLUENE	4226	UG/KG							
TRICHLOROETHYLENE	3227	UG/KG							
Semi-Volatile Organic Compounds (8151/8270C/8310)									
BENZ[A]ANTHRACENE	3923	UG/KG							
CARBAZOLE	1135	UG/KG							
Pesticides (8081)/Polychlorinated Biphenyls(8082)									
4,4'-DDT	85.5	UG/KG							
AROCLOR 1232	45780	UG/KG							
AROCLOR 1254	335400	UG/KG							
BETA-BHC	252.7	UG/KG							
Explosives (8330)									
NITROBENZENE	419	UG/KG							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	34500	20300	24900	78400	19000	21700	23600

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-31 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	SN	SN	SN	SN	SN	SN	SN
		Excavation:	X02	X03	X04	X05	X06	X14	X15
		Sample Name:	C7-CWM-SO-DUP8	C7-CWM-SO-X03-SN01-5.5	C7-CWM-SO-X04-SN01-4.5	C7-CWM-SO-X05-SN01-4.5	C7-CWM-SO-X06-SN01-4	C7-CWM-SO-X14-SN01-9	C7-CWM-SO-X15-SN01-2
		Sample Depth:	10 FT	5.5 FT	4.5 FT	4.5 FT	4 FT	9 FT	2 FT
		Sample Date:	8/21/2006	8/21/2006	8/21/2006	8/22/2006	8/22/2006	8/24/2006	8/24/2006
		Parent Name:	C7-CWM-SO-X02-SN01-10						
Analyte	**Crit3**	**Unit**							
Volatile Organic Compounds (8260B)									
1,1,1-TRICHLOROETHANE	4619	UG/KG							
1,2-DICHLOROBENZENE	6914	UG/KG							
1,4-DICHLOROBENZENE	6790	UG/KG							
BENZENE	453.8	UG/KG							
CHLOROFORM	2.77	UG/KG							
CIS-1,2-DICHLOROETHENE	1575	UG/KG							
ETHYLBENZENE	5749	UG/KG							
ISOPROPYLBENZENE	21090	UG/KG							
TOLUENE	4226	UG/KG							
TRICHLOROETHYLENE	3227	UG/KG							
Semi-Volatile Organic Compounds (8151/8270C/8310)									
BENZ[A]ANTHRACENE	3923	UG/KG							
CARBAZOLE	1135	UG/KG			**1300 J**				
Pesticides (8081)/Polychlorinated Biphenyls(8082)									
4,4'-DDT	85.5	UG/KG							
AROCLOR 1232	45780	UG/KG							
AROCLOR 1254	335400	UG/KG							
BETA-BHC	252.7	UG/KG							
Explosives (8330)									
NITROBENZENE	419	UG/KG							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	**21700**	**22600**	**30100**	**18700**	**21900**	**21700**	**22100**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-31 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	SN	SN	SN	SN	SN	SN	SN
		Excavation:	X15	X27	X31	X31	X32	X39	X40
		Sample Name:	C7-CWM-SO-DUP9	C7-CWM-SO-X27-SN01-7.5	C7-CWM-SO-X31-SN01-4.5	C7-CWM-SO-DUP11	C7-CWM-SO-X32-SN01-3.5	C7-CWM-SO-X39-SN01-5	C7-CWM-SO-X40-SN01-6
		Sample Depth:	2 FT	7.5 FT	4.5 FT	4.5 FT	3.5 FT	5 FT	6 FT
		Sample Date:	8/24/2006	8/30/2006	8/31/2006	8/31/2006	8/31/2006	9/5/2006	9/6/2006
		Parent Name:	C7-CWM-SO-X15-SN01-2			C7-CWM-SO-X31-SN01-4.5			
Analyte	**Crit3**	**Unit**							
Volatile Organic Compounds (8260B)									
1,1,1-TRICHLOROETHANE	4619	UG/KG							
1,2-DICHLOROBENZENE	6914	UG/KG							
1,4-DICHLOROBENZENE	6790	UG/KG							
BENZENE	453.8	UG/KG							
CHLOROFORM	2.77	UG/KG			**4.3 J**	**5.1 J**			
CIS-1,2-DICHLOROETHENE	1575	UG/KG							
ETHYLBENZENE	5749	UG/KG							
ISOPROPYLBENZENE	21090	UG/KG							
TOLUENE	4226	UG/KG							
TRICHLOROETHYLENE	3227	UG/KG							
Semi-Volatile Organic Compounds (8151/8270C/8310)									
BENZ[A]ANTHRACENE	3923	UG/KG							
CARBAZOLE	1135	UG/KG							
Pesticides (8081)/Polychlorinated Biphenyls(8082)									
4,4'-DDT	85.5	UG/KG							
AROCLOR 1232	45780	UG/KG							
AROCLOR 1254	335400	UG/KG							
BETA-BHC	252.7	UG/KG							
Explosives (8330)									
NITROBENZENE	419	UG/KG							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	**23600**	**24400**	**14400**	**14200**	**21200**	**18000**	**21300**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-31 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	SN	SN	SN	SN	SN	SN	SN
		Excavation:	X41	X42	X48	X53	X55	X58	X63
		Sample Name:	C7-CWM-SO-X41-SN01-6.5	C7-CWM-SO-X42-SN01-3	C7-CWM-SO-X48-SN01-2.5	C7-CWM-SO-X53-SN01-7	C7-CWM-SO-X55-SN01-7.5	C7-CWM-SO-X58-SN01-3.5	C7-CWM-SO-X63-SN01-12.5
		Sample Depth:	6.5 FT	3 FT	2.5 FT	7 FT	7.5 FT	3.5 FT	12.5 FT
		Sample Date:	9/6/2006	9/6/2006	9/8/2006	9/11/2006	9/11/2006	9/12/2006	9/14/2006
		Parent Name:							
Analyte	**Crit3**	**Unit**							
Volatile Organic Compounds (8260B)									
1,1,1-TRICHLOROETHANE	4619	UG/KG							
1,2-DICHLOROBENZENE	6914	UG/KG							
1,4-DICHLOROBENZENE	6790	UG/KG							
BENZENE	453.8	UG/KG							
CHLOROFORM	2.77	UG/KG							
CIS-1,2-DICHLOROETHENE	1575	UG/KG							
ETHYLBENZENE	5749	UG/KG							
ISOPROPYLBENZENE	21090	UG/KG							
TOLUENE	4226	UG/KG							
TRICHLOROETHYLENE	3227	UG/KG							
Semi-Volatile Organic Compounds (8151/8270C/8310)									
BENZ[A]ANTHRACENE	3923	UG/KG							
CARBAZOLE	1135	UG/KG							
Pesticides (8081)/Polychlorinated Biphenyls(8082)									
4,4'-DDT	85.5	UG/KG		**560 J**					
AROCLOR 1232	45780	UG/KG							
AROCLOR 1254	335400	UG/KG							
BETA-BHC	252.7	UG/KG							
Explosives (8330)									
NITROBENZENE	419	UG/KG							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	**23700**	**19800**	**21400**	**21500**	**15100**	**20600**	**23800**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-31 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	SN	SN	SN	SN	SN	SN	SN
		Excavation:	X64	X65	X66	X83	X86	X97	X98
		Sample Name:	C7-CWM-SO-X64-SN01-12	C7-CWM-SO-X65-SN01-10	C7-CWM-SO-X66-SN01-5.5	C7-CWM-SO-X83-SN01-7.5	C7-CWM-SO-X86-SN01-7	C7-CWM-SO-X97-SN01-12	C7-CWM-SO-X98-SN01-15
		Sample Depth:	12 FT	10 FT	5.5 FT	7.5 FT	7 FT	15 FT	15 FT
		Sample Date:	9/14/2006	9/14/2006	9/14/2006	9/21/2006	9/22/2006	10/2/2006	10/2/2006
		Parent Name:							
Analyte	**Crit3**	**Unit**							
Volatile Organic Compounds (8260B)									
1,1,1-TRICHLOROETHANE	4619	UG/KG							
1,2-DICHLOROBENZENE	6914	UG/KG							
1,4-DICHLOROBENZENE	6790	UG/KG							
BENZENE	453.8	UG/KG							
CHLOROFORM	2.77	UG/KG							
CIS-1,2-DICHLOROETHENE	1575	UG/KG							
ETHYLBENZENE	5749	UG/KG							
ISOPROPYLBENZENE	21090	UG/KG							
TOLUENE	4226	UG/KG							
TRICHLOROETHYLENE	3227	UG/KG							
Semi-Volatile Organic Compounds (8151/8270C/8310)									
BENZ[A]ANTHRACENE	3923	UG/KG							
CARBAZOLE	1135	UG/KG							
Pesticides (8081)/Polychlorinated Biphenyls(8082)									
4,4'-DDT	85.5	UG/KG							
AROCLOR 1232	45780	UG/KG							
AROCLOR 1254	335400	UG/KG							
BETA-BHC	252.7	UG/KG							
Explosives (8330)									
NITROBENZENE	419	UG/KG							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	**25000**	**24300**	**19000**	**12300**	**10000**	**25300**	**18500**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and
explanation of shading.

TABLE 5-31 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

Analyte	Crit3	Unit							
		Line Type:	SN	SN	SN	SN	SN	SN	SN
		Excavation:	X99	X100	X101	X103	X104	X105	X106
		Sample Name:	C7-CWM-SO-X99-SN01-15	C7-CWM-SO-X100-SN01-15	C7-CWM-SO-X101-SN01-14	C7-CWM-SO-X103-SN01-13	C7-CWM-SO-X104-SN01-14	C7-CWM-SO-X105-SN01-12	C7-CWM-SO-X106-SN01-14
		Sample Depth:	15 FT	15 FT	14 FT	13 FT	14 FT	12 FT	14 FT
		Sample Date:	10/2/2006	10/2/2006	10/5/2006	10/6/2006	10/6/2006	10/3/2006	9/29/2006
		Parent Name:							
Volatile Organic Compounds (8260B)									
1,1,1-TRICHLOROETHANE	4619	UG/KG							
1,2-DICHLOROBENZENE	6914	UG/KG							
1,4-DICHLOROBENZENE	6790	UG/KG							
BENZENE	453.8	UG/KG							
CHLOROFORM	2.77	UG/KG				14	85		
CIS-1,2-DICHLOROETHENE	1575	UG/KG							
ETHYLBENZENE	5749	UG/KG							
ISOPROPYLBENZENE	21090	UG/KG							
TOLUENE	4226	UG/KG							
TRICHLOROETHYLENE	3227	UG/KG							
Semi-Volatile Organic Compounds (8151/8270C/8310)									
BENZ[A]ANTHRACENE	3923	UG/KG							
CARBAZOLE	1135	UG/KG							
Pesticides (8081)/Polychlorinated Biphenyls(8082)									
4,4'-DDT	85.5	UG/KG							
AROCLOR 1232	45780	UG/KG							
AROCLOR 1254	335400	UG/KG							
BETA-BHC	252.7	UG/KG							
Explosives (8330)									
NITROBENZENE	419	UG/KG							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	17800	33400	21900	15000	23400	22200	29900

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-31 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	SN	ST	UN	UN	UN	UN	UN
		Excavation:	X114	X05	X11	X13	X22	X22	X27
		Sample Name:	C7-CWM-SO-X114-SN01-1.5	C7-CWM-SO-X06-WW01-6.5	C7-CWM-SO-X11-WW01-3.5	C7-CWM-SO-X13-UN01-3.5	C7-CWM-SO-X22-UN01-6	C7-CWM-SO-DUP10	C7-CWM-SO-X27-UN01-3.5
		Sample Depth:	1.5 FT	6.5 FT	3.5 FT	3.5 FT	6 FT	6 FT	3.5 FT
		Sample Date:	10/10/2006	8/22/2006	8/23/2006	8/24/2006	8/28/2006	8/28/2006	8/30/2006
		Parent Name:						C7-CWM-SO-X22-UN01-6	
Analyte	**Crit3**	**Unit**							
Volatile Organic Compounds (8260B)									
1,1,1-TRICHLOROETHANE	4619	UG/KG							
1,2-DICHLOROBENZENE	6914	UG/KG							
1,4-DICHLOROBENZENE	6790	UG/KG							
BENZENE	453.8	UG/KG							
CHLOROFORM	2.77	UG/KG							
CIS-1,2-DICHLOROETHENE	1575	UG/KG							
ETHYLBENZENE	5749	UG/KG							
ISOPROPYLBENZENE	21090	UG/KG							
TOLUENE	4226	UG/KG							
TRICHLOROETHYLENE	3227	UG/KG							
Semi-Volatile Organic Compounds (8151/8270C/8310)									
BENZ[A]ANTHRACENE	3923	UG/KG							
CARBAZOLE	1135	UG/KG							
Pesticides (8081)/Polychlorinated Biphenyls(8082)									
4,4'-DDT	85.5	UG/KG							
AROCLOR 1232	45780	UG/KG							
AROCLOR 1254	335400	UG/KG							
BETA-BHC	252.7	UG/KG							
Explosives (8330)									
NITROBENZENE	419	UG/KG							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	**18300**	**21400**	**34200**	**23300**	**13700**	**15800**	**16900**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-31 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	UN	UN	UN	UN	UN	UN	UN
		Excavation:	X28	X28	X45	X47	X74	X85	X85
		Sample Name:	C7-CWM-SO-X28-UN01-2.5	C7-CWM-SO-X28-WW01-3	C7-CWM-SO-X45-UN01-3	C7-CWM-SO-X47-UN02-1.5	C7-CWM-SO-X74-UN01-5	C7-CWM-SO-X85-UN01-6.5	C7-CWM-SO-X85-UN02-4.5
		Sample Depth:	2.5 FT	3 FT	3 FT	1.5 FT	5 FT	6.5 FT	4.5 FT
		Sample Date:	8/31/2006	8/30/2006	9/7/2006	9/7/2006	9/18/2006	9/22/2006	9/22/2006
		Parent Name:							
Analyte	**Crit3**	**Unit**							
Volatile Organic Compounds (8260B)									
1,1,1-TRICHLOROETHANE	4619	UG/KG	**6300 J**						
1,2-DICHLOROBENZENE	6914	UG/KG	**50000 J**						
1,4-DICHLOROBENZENE	6790	UG/KG	**9500**						
BENZENE	453.8	UG/KG	**1600**	**1200 J**					
CHLOROFORM	2.77	UG/KG	**760 J**	**260 J**					
CIS-1,2-DICHLOROETHENE	1575	UG/KG	**7400**						
ETHYLBENZENE	5749	UG/KG	**30000**						
ISOPROPYLBENZENE	21090	UG/KG							**59000 J**
TOLUENE	4226	UG/KG	**13000**						
TRICHLOROETHYLENE	3227	UG/KG	**38000**						
Semi-Volatile Organic Compounds (8151/8270C/8310)									
BENZ[A]ANTHRACENE	3923	UG/KG							
CARBAZOLE	1135	UG/KG							
Pesticides (8081)/Polychlorinated Biphenyls(8082)									
4,4'-DDT	85.5	UG/KG							
AROCLOR 1232	45780	UG/KG		**110000 J**					
AROCLOR 1254	335400	UG/KG							
BETA-BHC	252.7	UG/KG		**430 J**					
Explosives (8330)									
NITROBENZENE	419	UG/KG							**970 J**
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	**21400**	**29100**	**18500**	**23300**	**13600**	**22400**	**11200**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-31 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	UN	UN	UN	UN	UN	UN	UN
		Excavation:	X107	X108	X109	X109	X113	X113	X115
		Sample Name:	C7-CWM-SO-X107-UN01-4	C7-CWM-SO-X108-UN01-4	C7-CWM-SO-X109-UN01-4	C7-CWM-SO-DUP17	C7-CWM-SO-X113-UN01-4	C7-CWM-SO-X113-UN02-3	C7-CWM-SO-X115-UN01-1.5
		Sample Depth:	4 FT	4 FT	4 FT	4 FT	4 FT	3 FT	1.5 FT
		Sample Date:	10/9/2006	10/9/2006	10/9/2006	10/9/2006	10/9/2006	10/9/2006	10/10/2006
		Parent Name:				C7-CWM-SO-X109-UN01-4			
Analyte	**Crit3**	**Unit**							
Volatile Organic Compounds (8260B)									
1,1,1-TRICHLOROETHANE	4619	UG/KG							
1,2-DICHLOROBENZENE	6914	UG/KG							
1,4-DICHLOROBENZENE	6790	UG/KG							
BENZENE	453.8	UG/KG							
CHLOROFORM	2.77	UG/KG							
CIS-1,2-DICHLOROETHENE	1575	UG/KG							
ETHYLBENZENE	5749	UG/KG							
ISOPROPYLBENZENE	21090	UG/KG							
TOLUENE	4226	UG/KG							
TRICHLOROETHYLENE	3227	UG/KG							
Semi-Volatile Organic Compounds (8151/8270C/8310)									
BENZ[A]ANTHRACENE	3923	UG/KG							**5600**
CARBAZOLE	1135	UG/KG							
Pesticides (8081)/Polychlorinated Biphenyls(8082)									
4,4'-DDT	85.5	UG/KG							
AROCLOR 1232	45780	UG/KG							
AROCLOR 1254	335400	UG/KG							
BETA-BHC	252.7	UG/KG							
Explosives (8330)									
NITROBENZENE	419	UG/KG							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	**26500**	**22300**	**20700**	**20500**	**18000**	**18300**	**20500**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-31 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	UN	UN	UN	UN	UN	UN	UN
		Excavation:	X116	X116	X116	X117	X118	X119	X119
		Sample Name:	C7-CWM-SO-X116-UN01-4.5	C7-CWM-SO-X116-UN02-4.5	C7-CWM-SO-X116-UN03-4.5	C7-CWM-SO-X117-UN01-3	C7-CWM-SO-X118-UN01-4.5	C7-CWM-SO-X119-UN01-4.5	C7-CWM-SO-DUP18
		Sample Depth:	4.5 FT	4.5 FT	4.5 FT	3 FT	4.5 FT	4.5 FT	4.5 FT
		Sample Date:	10/13/2006	10/13/2006	10/13/2006	10/10/2006	10/10/2006	10/10/2006	10/10/2006
		Parent Name:							C7-CWM-SO-X119-UN01-4.5
Analyte	**Crit3**	**Unit**							
Volatile Organic Compounds (8260B)									
1,1,1-TRICHLOROETHANE	4619	UG/KG							
1,2-DICHLOROBENZENE	6914	UG/KG							
1,4-DICHLOROBENZENE	6790	UG/KG							
BENZENE	453.8	UG/KG							
CHLOROFORM	2.77	UG/KG							
CIS-1,2-DICHLOROETHENE	1575	UG/KG							
ETHYLBENZENE	5749	UG/KG							
ISOPROPYLBENZENE	21090	UG/KG							
TOLUENE	4226	UG/KG							
TRICHLOROETHYLENE	3227	UG/KG							
Semi-Volatile Organic Compounds (8151/8270C/8310)									
BENZ[A]ANTHRACENE	3923	UG/KG							
CARBAZOLE	1135	UG/KG							
Pesticides (8081)/Polychlorinated Biphenyls(8082)									
4,4'-DDT	85.5	UG/KG							
AROCLOR 1232	45780	UG/KG							
AROCLOR 1254	335400	UG/KG							
BETA-BHC	252.7	UG/KG							
Explosives (8330)									
NITROBENZENE	419	UG/KG							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	**29000**	**27800**	**33100**	**24300**	**35300**	**28500**	**22200**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-31 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	UN	UN	UN	WW	WW	WW	WW
		Excavation:	X120	X121	X125				
		Sample Name:	C7-CWM-SO-X120-UN01-4.5	C7-CWM-SO-X121-UN01-12	C7-CWM-SO-X125-UN02-1	C1-NH-SO-BP7A	C1-NH-SO-BP8A	C1-NH-SO-BP10A	C1-NH-SO-BP12A
		Sample Depth:	4.5 FT	12 FT	1 FT	5.5 FT	5.5 FT	5.5 FT	5.5 FT
		Sample Date:	10/10/2006	10/12/2006	10/12/2006	10/3/2000	10/3/2000	10/3/2000	10/3/2000
		Parent Name:							
Analyte	**Crit3**	**Unit**							
Volatile Organic Compounds (8260B)									
1,1,1-TRICHLOROETHANE	4619	UG/KG							
1,2-DICHLOROBENZENE	6914	UG/KG							
1,4-DICHLOROBENZENE	6790	UG/KG							
BENZENE	453.8	UG/KG							
CHLOROFORM	2.77	UG/KG							
CIS-1,2-DICHLOROETHENE	1575	UG/KG							
ETHYLBENZENE	5749	UG/KG							
ISOPROPYLBENZENE	21090	UG/KG							
TOLUENE	4226	UG/KG							
TRICHLOROETHYLENE	3227	UG/KG							
Semi-Volatile Organic Compounds (8151/8270C/8310)									
BENZ[A]ANTHRACENE	3923	UG/KG							
CARBAZOLE	1135	UG/KG							
Pesticides (8081)/Polychlorinated Biphenyls(8082)									
4,4'-DDT	85.5	UG/KG							
AROCLOR 1232	45780	UG/KG							
AROCLOR 1254	335400	UG/KG							
BETA-BHC	252.7	UG/KG							
Explosives (8330)									
NITROBENZENE	419	UG/KG							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	**22200**	**20700**	**28100**	**15300**	**15400**	**13800**	**16800**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-31 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	WW	WW	WW	WW	WW	WW	WW
		Excavation:	X03	X04	X07	X12	X15	X16	X16
		Sample Name:	C7-CWM-SO-X03-WW01-7	C7-CWM-SO-X04-WW01-4.5	C7-CWM-SO-X07-WW01-7.5	C7-CWM-SO-X12-WW01-3	C7-CWM-SO-X15-WW01-3.5	C7-CWM-SO-X16-WW01-3	C7-CWM-SO-X16-WW02-4.5
		Sample Depth:	7 FT	4.5 FT	7.5 FT	3 FT	3.5 FT	3.5 FT	4.5 FT
		Sample Date:	8/21/2006	8/21/2006	8/22/2006	8/23/2006	8/24/2006	8/25/2006	8/25/2006
		Parent Name:							
Analyte	**Crit3**	**Unit**							
Volatile Organic Compounds (8260B)									
1,1,1-TRICHLOROETHANE	4619	UG/KG							
1,2-DICHLOROBENZENE	6914	UG/KG							
1,4-DICHLOROBENZENE	6790	UG/KG							
BENZENE	453.8	UG/KG							
CHLOROFORM	2.77	UG/KG							
CIS-1,2-DICHLOROETHENE	1575	UG/KG							
ETHYLBENZENE	5749	UG/KG							
ISOPROPYLBENZENE	21090	UG/KG							
TOLUENE	4226	UG/KG							
TRICHLOROETHYLENE	3227	UG/KG							
Semi-Volatile Organic Compounds (8151/8270C/8310)									
BENZ[A]ANTHRACENE	3923	UG/KG							
CARBAZOLE	1135	UG/KG							
Pesticides (8081)/Polychlorinated Biphenyls(8082)									
4,4'-DDT	85.5	UG/KG							
AROCLOR 1232	45780	UG/KG							
AROCLOR 1254	335400	UG/KG							
BETA-BHC	252.7	UG/KG							
Explosives (8330)									
NITROBENZENE	419	UG/KG							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	**22900**	**20000**	**23000**	**29300**	**22300**	**27300**	**26000**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-31 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	WW	WW	WW	WW	WW	WW	WW
		Excavation:	X17	X17	X18	X21	X21	X24	X29
		Sample Name:	C7-CWM-SO-X17-WW01-3.5	C7-CWM-SO-X17-WW02-5	C7-CWM-SO-X18-WW01-6	C7-CWM-SO-X21-WW01-4	C7-CWM-SO-X21-WW02-6	C7-CWM-SO-X24-WW01-6	C7-CWM-SO-X29-WW01-4.5
		Sample Depth:	3.5 FT	5 FT	6 FT	4 FT	6 FT	6 FT	4.5 FT
		Sample Date:	8/25/2006	8/25/2006	8/25/2006	8/28/2006	8/28/2006	8/29/2006	8/30/2006
		Parent Name:							
Analyte	**Crit3**	**Unit**							
Volatile Organic Compounds (8260B)									
1,1,1-TRICHLOROETHANE	4619	UG/KG							
1,2-DICHLOROBENZENE	6914	UG/KG							
1,4-DICHLOROBENZENE	6790	UG/KG							
BENZENE	453.8	UG/KG							
CHLOROFORM	2.77	UG/KG							
CIS-1,2-DICHLOROETHENE	1575	UG/KG							
ETHYLBENZENE	5749	UG/KG							
ISOPROPYLBENZENE	21090	UG/KG							
TOLUENE	4226	UG/KG							
TRICHLOROETHYLENE	3227	UG/KG							
Semi-Volatile Organic Compounds (8151/8270C/8310)									
BENZ[A]ANTHRACENE	3923	UG/KG							
CARBAZOLE	1135	UG/KG							
Pesticides (8081)/Polychlorinated Biphenyls(8082)									
4,4'-DDT	85.5	UG/KG							
AROCLOR 1232	45780	UG/KG							**57000**
AROCLOR 1254	335400	UG/KG							
BETA-BHC	252.7	UG/KG							**310 J**
Explosives (8330)									
NITROBENZENE	419	UG/KG							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	**15900**	**24700**	**36700**	**19100**	**15700**	**15100**	**24600**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-31 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	WW	WW	WW	WW	WW	WW	WW
		Excavation:	X37	X41	X42	X55	X56	X56	X75
		Sample Name:	C7-CWM-SO-X37-WW01-6.5	C7-CWM-SO-X41-WW01-6	C7-CWM-SO-X42-WW01-6	C7-CWM-SO-X55-WW01-8	C7-CWM-SO-X56-WG01-7.5	C7-CWM-SO-DUP13	C7-CWM-SO-X75-WW01-6
		Sample Depth:	6.5 FT	6 FT	5.5 FT	8 FT	7.5 FT	7.5 FT	6 FT
		Sample Date:	9/5/2006	9/6/2006	9/6/2006	9/11/2006	9/12/2006	9/12/2006	9/19/2006
		Parent Name:						C7-CWM-SO-X56-WG01-7.5	
Analyte	**Crit3**	**Unit**							
Volatile Organic Compounds (8260B)									
1,1,1-TRICHLOROETHANE	4619	UG/KG							
1,2-DICHLOROBENZENE	6914	UG/KG							
1,4-DICHLOROBENZENE	6790	UG/KG							
BENZENE	453.8	UG/KG							
CHLOROFORM	2.77	UG/KG							
CIS-1,2-DICHLOROETHENE	1575	UG/KG							
ETHYLBENZENE	5749	UG/KG							
ISOPROPYLBENZENE	21090	UG/KG							
TOLUENE	4226	UG/KG							
TRICHLOROETHYLENE	3227	UG/KG							
Semi-Volatile Organic Compounds (8151/8270C/8310)									
BENZ[A]ANTHRACENE	3923	UG/KG							
CARBAZOLE	1135	UG/KG							
Pesticides (8081)/Polychlorinated Biphenyls(8082)									
4,4'-DDT	85.5	UG/KG		**400 J**	**660 J**				
AROCLOR 1232	45780	UG/KG							
AROCLOR 1254	335400	UG/KG	**620000**						
BETA-BHC	252.7	UG/KG							
Explosives (8330)									
NITROBENZENE	419	UG/KG							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	**20300**	**21000**	**16700**	**14400**	**23000**	**23800**	**18100**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-31 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, WM PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	WW	WW	WW
		Excavation:	X75	X76	X78
		Sample Name:	C7-CWM-SO-DUP15	C7-CWM-SO-X76-WW01-4	C7-CWM-SO-X78-WW01-6.5
		Sample Depth:	6 FT	4 FT	6.5 FT
		Sample Date:	9/19/2006	9/19/2006	9/20/2006
		Parent Name:	C7-CWM-SO-X75-WW01-6		
Analyte	**Crit3**	**Unit**			
Volatile Organic Compounds (8260B)					
1,1,1-TRICHLOROETHANE	4619	UG/KG			
1,2-DICHLOROBENZENE	6914	UG/KG			
1,4-DICHLOROBENZENE	6790	UG/KG			
BENZENE	453.8	UG/KG			
CHLOROFORM	2.77	UG/KG			
CIS-1,2-DICHLOROETHENE	1575	UG/KG			
ETHYLBENZENE	5749	UG/KG			
ISOPROPYLBENZENE	21090	UG/KG			
TOLUENE	4226	UG/KG			
TRICHLOROETHYLENE	3227	UG/KG			
Semi-Volatile Organic Compounds (8151/8270C/8310)					
BENZ[A]ANTHRACENE	3923	UG/KG			
CARBAZOLE	1135	UG/KG			
Pesticides (8081)/Polychlorinated Biphenyls(8082)					
4,4'-DDT	85.5	UG/KG			
AROCLOR 1232	45780	UG/KG			
AROCLOR 1254	335400	UG/KG			
BETA-BHC	252.7	UG/KG			
Explosives (8330)					
NITROBENZENE	419	UG/KG			
Metals (6010B/6020/7841/7470A/7471A)					
IRON	7532	MG/KG	**19600**	**11500**	**17300**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-32 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, TOWN OF LEWISTON PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	AW	AW	AW	SN	SN	SN	SN
		Excavation:	X06	X07	X09	X01	X02	X02	X03
		Sample Name:	C7-LEW-SO-X06-AW01-5.5	C7-LEW-SO-X07-AW01-4	C7-LEW-SO-X09-AW01-19	C7-LEW-SO-X01-SN01-16	C7-LEW-SO-X02-SN01-10	C7-LEW-SO-DUP7	C7-LEW-SO-X03-SN01-6
		Sample Depth:	5.5 FT	4 FT	19 FT	16 FT	10 FT	10 FT	6 FT
		Sample Date:	8/16/2006	8/16/2006	8/18/2006	8/15/2006	8/15/2006	8/15/2006	8/15/2006
		Parent Name:						C7-LEW-SO-X02-SN01-10	
Analyte	**Crit3**	**Unit**							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	**20200**	**22000**	**29900**	**29600**	**21000**	**25400**	**24700**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-32 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, TOWN OF LEWISTON PROPERTY, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	SN	SN	WW
		Excavation:	X04	X05	X10
		Sample Name:	C7-LEW-SO-X04-SN01-4	C7-LEW-SO-X05-SN01-5	C7-LEW-SO-X10-WW01-6
		Sample Depth:	4 FT	5 FT	6 FT
		Sample Date:	8/16/2006	8/16/2006	8/17/2006
		Parent Name:			
Analyte	**Crit3**	**Unit**			
Metals (6010B/6020/7841/7470A/7471A)					
IRON	7532	MG/KG	**25600**	**24800**	**20400**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-33 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, 30-INCH OUTFALL LINE, VARIOUS PROPERTY OWNERS, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	30IN	30IN	30IN	30IN	30IN	30IN	30IN
		Excavation:	X01	X02	X03	X04	X05	X06	X07
		Sample Name:	C7-OCC-SO-X01-SN01-7	C7-OCC-SO-X02-SN01-7	C7-OCC-SO-X03-SN01-7	C7-OCC-SO-X04-SN01-7	C7-OCC-SO-X05-SN01-7	C7-OCC-SO-X06-SN01-6	C7-OCC-SO-X07-SN01-7
		Sample Depth:	7 FT	7 FT	7 FT	7 FT	7 FT	6 FT	7 FT
		Sample Date:	8/8/2006	8/8/2006	8/8/2006	8/8/2006	8/8/2006	8/9/2006	8/9/2006
		Parent Name:							
Analyte	**Crit3**	**Unit**							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	**26100**	**25100**	**27400**	**26400**	**24900**	**24700**	**27400**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-33 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, 30-INCH OUTFALL LINE, VARIOUS PROPERTY OWNERS, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	30IN	30IN	30IN	30IN	30IN	30IN	30IN
		Excavation:	X08	X09	X10	X11	X11	X12	X13
		Sample Name:	C7-OCC-SO-X08-SN01-6	C7-OCC-SO-X09-SN01-6	C7-OCC-SO-X10-SN01-6	C7-OCC-SO-X11-SN01-7	C7-OCC-SO-DUP4	C7-OCC-SO-X12-SN01-7	C7-OCC-SO-X13-SN01-6
		Sample Depth:	6 FT	6 FT	6 FT	7 FT	7 FT	7 FT	6 FT
		Sample Date:	8/9/2006	8/9/2006	8/9/2006	8/9/2006	8/9/2006	8/10/2006	8/10/2006
		Parent Name:					C7-OCC-SO-X11-SN01-7		
Analyte	**Crit3**	**Unit**							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	**25600**	**24200**	**29800**	**28000**	**27500**	**24700**	**27500**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-33 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, 30-INCH OUTFALL LINE, VARIOUS PROPERTY OWNERS, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	30IN	30IN	30IN	30IN	30IN	30IN	30IN
		Excavation:	X14	X15	X16	X16	X17	X18	X19
		Sample Name:	C7-OCC-SO-X14-SN01-6	C7-OCC-SO-X15-SN01-7	C7-OCC-SO-X16-SN01-7	C7-OCC-SO-DUP5	C7-OCC-SO-X17-SN01-6	C7-OCC-SO-X18-SN01-6	C7-OCC-SO-X19-SN01-6
		Sample Depth:	6 FT	7 FT	7 FT	7 FT	6 FT	6 FT	6 FT
		Sample Date:	8/10/2006	8/10/2006	8/10/2006	8/10/2006	8/11/2006	8/11/2006	8/11/2006
		Parent Name:				C7-OCC-SO-X16-SN01-7			
Analyte	**Crit3**	**Unit**							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	**25900**	**14700**	**26300**	**28100**	**27400**	**27400**	**26600**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

TABLE 5-33 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, 30-INCH OUTFALL LINE, VARIOUS PROPERTY OWNERS, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	30IN	30IN	30IN	30IN	30IN	30IN	30IN
		Excavation:	X20	X21	X22	X22	X23	X24	X25
		Sample Name:	C7-OCC-SO-X20-SN01-7	C7-OCC-SO-X21-SN01-6	C7-OCC-SO-X22-SN01-5	C7-OCC-SO-DUP6	C7-OCC-SO-X23-SN01-6.5	C7-OCC-SO-X24-SN01-6	C7-OCC-SO-X25-SN01-6
		Sample Depth:	7 FT	6 FT	5 FT	5 FT	6.5 FT	6 FT	6 FT
		Sample Date:	8/11/2006	8/14/2006	8/14/2006	8/14/2006	8/14/2006	8/14/2006	8/14/2006
		Parent Name:				C7-OCC-SO-X22-SN01-5			
Analyte	**Crit3**	**Unit**							
Metals (6010B/6020/7841/7470A/7471A)									
IRON	7532	MG/KG	**27500**	**25200**	**27600**	**28900**	**26500**	**26200**	**28300**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and
explanation of shading.

TABLE 5-33 SUMMARY OF REPORTED CONCENTRATIONS EXCEEDING SSLs IN SUBSURFACE SOIL, 30-INCH OUTFALL LINE, VARIOUS PROPERTY OWNERS, UNDERGROUND UTILITY REMEDIAL INVESTIGATION

		Line Type:	UN
		Excavation:	X26
		Sample Name:	C7-OCC-SO-X26-SN01-6
		Sample Depth:	6 FT
		Sample Date:	8/14/2006
		Parent Name:	
Analyte	**Crit3**	**Unit**	
Metals (6010B/6020/7841/7470A/7471A)			
IRON	7532	MG/KG	**28200**

Crit3: Site Specific Soil Screening Levels (SSLs)
Blank Cell = SSL not exceeded
See Table 5-2 for complete footnotes and explanation of shading.

CHAPTER 6

6. CONTAMINANT FATE AND TRANSPORT

6.1 POTENTIAL ROUTES OF MIGRATION

The primary routes of migration for constituents reported within the underground lines are the lines themselves. With the exception of those portions of lines that have been sealed, the underground line creates a preferential pathway for migration of constituents. Many of these potential pathways are discussed within Chapter 5 as they pertain to potential migration pathways from specific sampling locations. General migration pathways and possible final destinations of COPCs for different line types are discussed below.

6.1.1 Final Destination of Underground Lines

Destination of underground lines, and potentially the constituents within the lines, is dependent primarily on two factors:

- The facility with which the line was originally associated (i.e., AFP-68, LOOW, NIKE Base)
- The line type

6.1.1.1 LOOW Lines

As described in Section 1.2.3, the ultimate destination for the majority of the LOOW underground waste lines within the project study area was the LOOW WWTP. The LOOW TNT waste lines (currently undergoing an IRA), acid waste sewer lines, and sanitary sewer lines were gravity feed lines that originally discharged to the WWTP prior to ultimate disposition through the 30-in. outfall line to the Niagara River. The LOOW acid waste sewer and sanitary sewer lines have been plugged in the area just north of M Street as part of the consent order issued by NYSDEC in 1978 to SCA, the predecessor of WM . Additionally, the sanitary sewer line has been plugged at the final sanitary sewer manhole (prior to discharge to the pump house) within the WWTP on the Town of Lewiston property. Therefore, wastes potentially entering the acid waste and sanitary sewer lines east of the WWTP no longer discharge to the WWTP.

Stormwater was discharged to manmade surface water bodies such as the CDD, B Ditch, and H Ditch.

Other possible lines included process lines that traversed between buildings. The lines designated as "unknown" during this UURI may fall into this category (e.g., lines conveying toluene and nitric acid from holding tanks south of the nitration houses to the Mononitration House, lines conveying nitrotoluene to the Bi-trinitration House, and lines conveying recovered acid waste from the fume recovery buildings back into the process). The ultimate destination of these lines was either into a process facility (i.e., the acid fume recovery building), a stack discharge or release valve (if the material was gas), a waste line, a tank (either stationary or rail tanker car), or a drain. Based on historical information and details obtained during the UURI, drains typically led to waste lines, sumps, and/or drain fields.

The final destination of LOOW water lines was the point of use. Potable water originated from a 10-in. diameter potable water main (owned by the City of Niagara Falls). Process, cooling, and fire protection water originated from the Niagara River and were conveyed to the former LOOW freshwater treatment facility (on NFSS property) through a 42-in. diameter freshwater water intake line that paralleled Pletcher Road. Water was conveyed through the site through cast iron and steel lines.

Steam and air were also conveyed in lines to support LOOW. These lines were not included in the UURI.

6.1.1.2 AFP-68 Lines

The primary waste lines supporting AFP-68 include the sanitary sewer, the acid waste sewer, chemical waste sewer, and wastewater lines. The wastewater and sanitary sewer lines installed during construction of AFP-68 tied into existing LOOW lines that discharged to the LOOW WWTP. The WWTP was utilized by AFP-68 subsequent to the closing of LOOW.

AFP-68 underground chemical and acid waste sewer lines originating from within process areas terminated in main chemical and acid waste sewer lines east of Wesson Street and eventually into collection tanks and sumps that eventually tied into the LOOW TNT waste lines at a point west of AFP-68 Building 22-01. The TNT waste lines terminated at the mixing house of the LOOW WWTP. The main trunk lines of the underground chemical and acid lines, and associated sumps, are undergoing an IRA and were not included in the UURI. Secondary lines accepted waste from within various AFP-68 process areas and are included in the UURI.

The sanitary sewer lines from the northern portion of AFP-68 terminated into a lift station just east of Cedar Street on Somerset Group property. From the lift station, sewage was pumped to a forced cast iron main line trending south, located east of Cedar Street, where it eventually tied into an 8-in. diameter, vitreous clay, LOOW underground sanitary sewer line west of the TNT wash house associated with the existing Nitration Houses. Additional sanitary sewer lines from the southern portion of AFP-68 trended east into this main 8-in. (increasing to 10-in.) diameter LOOW line. This is the only portion of the sanitary sewer line that was not gravity fed. The LOOW sanitary sewer line traversed south to eventual discharge to the WWTP. However, similar to the acid waste sewer line, the sanitary sewer line has been sealed and/or removed at several locations north of M Street in the area just north of M Street as part of the consent order issued by NYSDEC in 1978 to SCA, the predecessor of WM and; therefore, potential wastes entering the sanitary sewer line no longer reach the WWTP (see Figure 1-6). Additional sanitary sewer lines were located during the UURI that do not terminate into the main sanitary sewer line (with final disposition at the WWTP). These other sanitary sewer lines were associated with what appeared to be temporary septic tanks. These tanks and associated lines were located in AFP-68 Process Areas T1T2 (west of the building foundations), northeast of Area 29, and Process Area 10 and are discussed in more detail in Section 5.3.4.1 and 5.3.4.2 with regard to specific sampling locations.

Wastewater lines from AFP-68 terminated in man-made surface water bodies such as the CDD and B Ditch. In the northern portion of AFP-68, wastewater lines from within the process areas trended to a westward flowing main trunk line that terminated in the CDD on property currently owned by the Somerset Group. In the southern portion of AFP-68, available plans indicate that the wastewater lines trended east out of the process areas and tied into a 15-in. (increasing to 24-in.) diameter LOOW acid waste sewer line west of the existing Nitration Houses. Flow from the acid waste sewer line appears to have been redirected from eventual termination into the WWTP to H Ditch (south of M Street).

According to available historical plans and confirmation during the non-intrusive investigation, stormwater lines associated with AFP-68 were located in the northwestern portion of the facility (near Areas 29, 35, and 39) and discharged east to the CDD.

During the UURI, a small oil water separator was found in the southern portion of Building 41-01, the former AFP-68 maintenance shop. Connection between this oil water separator and the AFP-68 sanitary sewer line was confirmed during the UURI.

Also confirmed during the UURI was the connection of the lab waste line exiting Building 31-01 to the AFP-68 sanitary sewer line.

Although not included in the UURI, some steam lines were located underground within AFP-68. Steam lines terminated in relief valves, recirculating return flows, and drains. Most drains terminated in wastewater lines.

Like LOOW, water lines for AFP-68 terminated at the point of use, with the possible exception of cooling water lines, which may have had recirculation loops.

6.1.1.3 NIKE Base

Ultimate termination of underground lines within the NIKE Base is not completely understood. However, field investigation results from the UURI indicate that many of the lines appear to be associated with a sump located southwest of the Barracks Building and a silo-like structure located south of the two northern Control Buildings (designated Buildings A and B). Buildings B and C, the two southern control buildings, each contained a lavatory that housed what appeared to be sludge/wastewater injector pits. Connection between the drain and waste lines from the facilities within the lavatory and the pit was confirmed during the non-intrusive investigation.

6.1.2 Bedding Material

Constituents also appear to be migrating within the bedding material (Section 5.1, Table 5-1). Results of the RI indicate probable movement of COPCs along the bedding material of the wastewater line traversing from AFP-68 Process Area 2 through Process Area 20 and possibly further east. Results also indicated probable movement of COPCs along the wastewater line traversing southeast between Process Areas 4 and 7. Although bedding material water samples were not collected, wet bedding material was observed in the secondary wastewater lines in Process Areas 4 and 8 as well, indicating possible additional migration pathways. Other line types observed with wet bedding material include the main AFP-68 acid waste sewer line trending south from Somerset Group property onto WM property (this portion of the line is undergoing an IRA) and secondary AFP-68 chemical waste sewer lines west of Area 7 and within Area 8.

The majority of the lines underlain by bedding material were associated with AFP-68, with the exception of an unknown line encountered near one of the southern buildings in the control area of the NIKE Base. LOOW lines did not appear to have bedding material, and many (main trunk lines of the sanitary and acid waste sewers) were encased in concreted.

6.2 CONTAMINANT PERSISTENCE

Physical pathways of migration, as described in Section 6.1, play a major role in determining migration pathways and defining possible exposure routes for potential receptors. Other factors that determine possible exposure are the constituent's persistence and/or rate of degradation in the environment.

Compounds within the following constituent groups were identified as COPCs and/or constituents of particular interest to the USACE due to known site use (i.e., explosive compounds) during the UURI: VOCs (including fuel constituents as well as chlorinated solvents), SVOCs (primarily PAHs, but also phenols and phthalates), pesticides, PCBs, and explosives. Metals were also reported in concentrations exceeding the screening values. The sections below describe the general persistence and environmental fate of the compounds or analytes within those constituent groups. Analyte specific information was obtained from the Agency for Toxic Substances and Disease Registry (ATSDR) ToxFAQs™ website (ASTDR 2007).

<u>VOCs</u>

After introduction to the environment, VOCs undergo various processes, which determine their fate in the environment. These process may include, among others, volatilization, dissolution, adsorption/ion exchange, diffusion, abiotic degradation, and aerobic and anaerobic microbial degradation. The extent to which compounds undergo these processes depends in part on the physical properties of the compounds such as vapor pressure, solubility, Henry's constant, organic carbon partition coefficient, soil-water partition coefficient, air and water diffusion coefficients, and octanol-water partition coefficient.

A compound's physical and chemical properties correlate directly with its mobility once it is released to an aquifer. The more soluble, less adsorptive compounds will readily dissolve in the ground water and will migrate at a rate similar to the average ground water velocity. In contrast, compounds with lower solubilities and higher adsorptive properties will tend to remain in the pure phase and adsorb to aquifer solids, thereby retarding their movement relative to the rate of ground water flow.

VOCs generally have lower molecular weights than the other organic compounds and are, therefore, more volatile (i.e., have a higher vapor pressure) and more soluble in water. Chlorinated compounds have a high vapor pressure, are highly soluble, and have low adsorption characteristics; therefore, they are not likely to persist in the vadose zone. They will tend to volatilize into soil gas and eventually be released to the atmosphere or leach into the ground water. Chlorinated VOCs will tend to persist in ground water unless their concentrations are reduced through biodegradation (ASTDR 2007).

Biodegradation of chlorinated aliphatics occurs by three different mechanisms (oxidation, reduction, and cometabolism). However, because of the electronegative character of the chlorine in these compounds, they tend to act as the electron acceptor (i.e., are reduced by the microbes) in most cases, particularly for the more chlorinated compounds. The use of chlorinated organic compounds as electron acceptors becomes more favorable as conditions in the aquifer become more reduced. Favorable reduction conditions typically occur in anaerobic environments. Reductive dehalogenation is the process that involves the sequential removal of chlorine atoms from the molecular structure. Under suitable environmental conditions, natural biodegradation processes within the subsurface results in the breakdown of PCE into TCE, into cis-1,2-DCE, into vinyl chloride, into ethylene via reductive dehalogenation. Natural degradation of 1,1,1-TCA is more complex, since it involves both abiotic and biotic transformations. The natural biodegradation process is the breakdown of 1,1,1-TCA into 1,1-dicholorethane into chloroethane via reductive dehalogenation (National Resource Council 2000).

Petroleum hydrocarbons have high vapor pressure and are, therefore, more volatile and more soluble in water. The first and most significant indicator of microbial degradation of petroleum hydrocarbons (benzene, toluene, m&p-xylenes, and o-xylenes) is low dissolved oxygen concentrations observed in ground water. Microbes in the subsurface reduce the concentration of electron acceptors (oxygen) and electron donors (petroleum hydrocarbons) by combining the electron acceptors and donors, using enzymes as catalysts, to produce energy. When the microbes have depleted the dissolved oxygen as an electron acceptor, nitrate is used as the next terminal electron acceptor. However, nitrate is a much less desirable terminal electron acceptor than oxygen and results in a slower rate of microbial degradation of fuel hydrocarbon.

While anaerobic conditions are not suitable for rapid degradation of petroleum hydrocarbons, it is possible that the petroleum hydrocarbons are still being degraded. This degradation could take place as petroleum hydrocarbons are used as electron donors for chlorinated hydrocarbons during reductive dechlorination. Aerobic conditions in ground water are ideal for microbial degradation (Wiedemeir, et. al. 1999).

PAHs

Because of their low water-solubility and hydrophobic nature, PAHs tend to be associated primarily with inorganic and organic material and tend to partition into sediments and soils, with relatively small concentrations of PAHs occurring in water. The partitioning organic carbon coefficient (Koc) indicates the potential to bind to organic carbon in soil and sediment (ATSDR 2002). The low molecular weight PAHs (e.g., 2-ring compounds such as acenaphthylene, naphthalene, 1-methylnaphthalene, 2-methylnaphthalene) have Koc values in the range of 10^3 to 10^4, which indicates a moderate potential to be adsorbed to organic carbon in the soil and sediments. The medium molecular weight compounds (e.g., 3-ring compounds such as anthracene, fluorene, phenanthrene) have Koc values in the 10^4 range. High molecular weight PAHs (e.g., 4-ring compounds such as benzo(a)anthracene, fluoranthene, pyrene and 5-ring compounds such as chrysene, benzo(a)pyrene, benzo(e)pyrene, dibenz(a,h)anthracene, perylene) have Koc values in the range of 10^5 to 10^6, which indicates stronger tendencies to adsorb to organic carbon. Sorption of PAHs to soil and sediments also increases with increasing organic carbon content and is also directly dependent on particle size. Except for the more soluble and two-ring compounds, dissolution into water is not expected to be a prevalent migration pathway. In addition, volatilization of lower molecular weight PAHs may be substantial.

The most important processes contributing to the degradation of PAHs are chemical oxidation, photo-oxidation, and biodegradation by microorganisms. The heavier (4-, 5-, and 6-ring) PAHs are more persistent than the lighter (2- and 3-ring) PAHs (ATSDR 2002).

Non-PAH SVOCs

SVOCs have a higher molecular weight, lower vapor pressure, and lower water-solubility; therefore, SVOCs tend to be associated with inorganic and organic materials. SVOCs tend to partition into sediments and soils, with relatively small concentrations occurring in water. The higher molecular weight SVOCs tend to have greater Koc and will adsorb more strongly to an organic rich soil.

Chlorinated benzenes (i.e., mono-, di-, tri-, tetra-) are highly volatile and are moderately soluble in water. When released to the air, the chlorinated benzenes are slowly broken down by reactions with other chemicals and sunlight or can be removed by rain. When released to soil, they are broken down rapidly by bacteria, but some will evaporate to the air and some may filter into the ground water. When released in water, chlorinated benzenes will rapidly evaporate to the air and/or be broken down by bacteria.

The degradation of chlorinated benzenes, via aromatic ring hydroxylation, produces chlorophenols, which can be methylated by microbes to form chloroanisoles or transformed to chlorcatechols.

Phenols (i.e., 4-methylphenol, pentachlorophenol, chlorophenol, phenol) have high water solubilities and low Koc values; they tend to leach to ground water. However, the rate of phenol biodegradation in the soil may be so rapid that the probability of ground water contamination may be low. Phenols will primarily exist as the protonated acid at environmental pH values. In alkaline soils and water, phenols will partially exist as an anion, which can affect the fate and transport process.

The gas-phase reaction of phenol with photochemically produced hydroxyl radicals is a major removal mechanism in the atmosphere. Phenol is readily biodegradable in natural water, provided the concentrations are not high enough to cause significant inhibition through microbial toxicity. The rates of degradation are affected by the concentration of organic and inorganic nutrients in the water. In some situations, the concentration of phenol may be too high or the populations of microorganisms may not be present in sufficient concentration for biodegradation to occur. Phenols have a tendency to biodegrade in soil under both aerobic and anaerobic soil conditions.

Based on the wastewater sample and sludge sample results obtained in this UURI, it appears that the SVOCs found in the wastewater samples are primarily PAHs, and they appear to be mostly adsorbing to sludge and soil particles, as expected.

Pesticides

Pesticides have a higher molecular weight, lower vapor pressure, and lower water-solubility (hydrophobic); therefore, pesticides are strongly adsorbed to soils that are high in clay or organic materials. Pesticides tend to partition into sediments and soils, with relatively small concentrations occurring in water.

Pesticides are broken down by microbes, chemical reactions, and light or photo-degradation. Pesticides in the environment are slow to degrade and can persist in the environment for long periods of time.

DDT, DDE, and DDD have low water-solubility and are strongly adsorbed to soil and sediments. Therefore, they generally remain in the surface layers of soil. DDT, DDE, and DDD in air are rapidly broken down by sunlight. Most DDT in soil is broken down slowly to DDE and DDD by microorganisms.

Aldrin and dieldrin have low water-solubility and adsorb to soil and sediments. Dieldrin can travel by attaching to dust particles, which can be transported great distances by the wind. Dieldrin can evaporate slowly from surface water or soil; therefore, dieldrin in soil or water degrades very slowly. Aldrin rapidly converts to dieldrin by sunlight and bacteria; therefore, dieldrin is more commonly found in the environment. Aldrin undergoes photolysis to dieldrin, which will be degraded by ultraviolet radiation or microbial action into the more persistent compound, photo dieldrin.

Heptachlor adsorbs to soil very strongly and evaporates slowly into the air. Heptachlor does not dissolve easily in water. Heptachlor epoxide dissolves more easily in water than heptachlor, and evaporates slowly from water. Like heptachlor, heptachlor epoxide adsorbs to soil. Both compounds are volatile and can be released into the air by volatilization of contaminated soil and surface water. Heptachlor is least likely to leach from soil with high organic matter content. When released into water, it adsorbs strongly to suspended and bottom sediments.

Heptachlor is broken down to heptachlor epoxide by bacteria and degrades more slowly, which is the reason heptachlor epoxide can be found in the environment more than heptachlor.

Endrin does not dissolve very well in water. It has been found in ground water and surface water, but at very low levels. It is more likely to adsorb to soil and sediments. Endrin is generally not found in the air except when it was applied to fields during agricultural applications. The persistence of endrin in the environment depends highly on local conditions. Migration to ground water might occur at sites where endrin residues become mixed with organic solvents. Endrin may be broken down by exposure to high temperatures or light to form primarily endrin ketone and endrin aldehyde.

Endrin aldehyde is highly insoluble in water, highly immobile in soil, and will not volatilize significantly from water or soil. Endrin aldehyde in air should exist predominantly in the adsorbed phase.

PCBs

PCBs exhibit low water solubility (hydrophobic), are moderately volatile, strongly absorb to organics, and preferentially partition to sediments. The major fate process for PCBs in water is adsorption to sediment or other organic matter. Based on this sediment adsorption of PCBs, bioaccumulation and biomagnifications are common endpoints for PCBs.

The less-chlorinated PCBs (example Aroclor 1242) are less persistent in the environment due to volatilization, solubility, and aerobic degradations. The more highly chlorinated PCBs (such as Aroclor 1254 and 1260) are extremely persistent in the environment due to adsorption, as natural attenuation requires anaerobic reductive dechlorination to remove the chlorine, followed by aerobic bioremediation to break the biphenyl ring. However, dechlorination of the PCB Aroclor is rarely complete. Dechlorination alters the type of PCB, rather than changing the total amount of PCBs.

Aerobic attenuation of PCBs is generally confined to compounds with fewer chlorine atoms; aerobic degradation affects the biphenyl ring to which the chlorine is attached. Of those Aroclors included in the analytical suite for the LOOW UURI, Aroclor 1260 has the highest number of chlorine atoms (60 % chlorine content by weight); therefore, it is more susceptible to anaerobic dechlorination because of the high chlorine content.

The estimated air to water distribution ratio (K_H) ranges from 10 atm L mol^{-1} for less chlorinated congeners to approximately 10^{-2} atm L mol^{-1} for more highly chlorinated congeners. As K_H decreases, the air to water ratio decreases; therefore, PCBs with smaller K_H values are less volatile (i.e., Aroclor 1254).

Explosives

RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine) is a synthetic explosive compound. RDX can enter the air during incineration through the release of particulate matter. It is mobile in soil and can leach into ground water or be transported to plants. The calculated soil sorption coefficient (K_{OC}) values for RDX (63.1 to 270), combined with the experimental data, indicate that RDX has medium-to-high mobility in soil; therefore, it is expected that RDX will leach into ground water. Sorption to sediment and particulate matter in aquatic environments is not expected to be significant; however, the presence of organic matter or clay content appears to increase the adsorption to sediment. RDX has low to negligible solubility in water (approximately 21.8 and 38.6 mg/L at 10° and 20° C, respectively) and is slightly soluble in methanol, ether, ethyl acetate, and acetic acid.

When RDX is released to water, hydrolysis is not expected to occur under typical naturally-occurring pH conditions. RDX may react with light (ultraviolet [UV] wavelengths generally between 240 and 350 nanometers [nm]) and undergo photolysis, producing formaldehyde and nitrosamines (typical half-life of 9 to 13 hours). Therefore, RDX would be expected to transform quickly in surface water. When light is not present (e.g., the RDX is present in a deeper lagoon or in ground water), RDX may undergo biodegradation under anaerobic conditions. The biodegradation products of RDX include hexahydro-1-nitroso-3,5-dinitro-1,3,5-triazine; hexahydro-1,3-dinitroso-5-nitro-1,3,5-triazine (DNX); hexahydro-1,3,5-trinitroso-1,3,5-triazine (TNX); hydrazine; 1,1-dimethyl hydrazine; 1,2-dimethyl hydrazine; formaldehyde; and methanol.

HMX (high melting explosives) is a highly explosive chemical. HMX can enter the environmental media from discharges of wastewaters from manufacture and processing of the chemical. HMX is persistent in the environment, with little transport from water to other media. The primary transformation process is photolysis. Biodegradation may occur in wastewaters and in water enriched with nutrients under aerobic and anaerobic conditions.

HMX is not volatile; however, if HMX is released to water or soil it may volatilize into air or be adsorbed onto soil and sediments. HMX is highly mobile in soil and is likely to migrate to ground water. However, the extent of migration to ground water is limited by the relatively low solubility in water. Therefore, the migration of HMX through soil is expected to be slow, resulting in low concentrations in ground water.

The breakdown products of HMX are nitrite, nitrate, formaldehyde, and 1,1-dimethylhydrazine. HMX degrades slowly in environmental media.

Dinitrobenzene and 4-nitrotoluene are structural analogues of dinitrotoluene. Dinitrotoluene has a large octanol-water partition coefficient, indicating that dinitrotoluene absorbs to soil organic matter. Dinitrotoluene is degraded by oxidation, photolysis, and biotransformation in water or soil. Dinitrotoluene may bind to clays and clay colloids and facilitate its oxidation. Dinitrotoluene is expected to be stable in water because it is not hydrolyzed. The relatively low volatility and high solubility of dinitrotoluene indicates that it will tend to remain in water for long periods of time, unless acted upon by light or oxygen, creating the potential for transportation to surface water or ground water.

Minute amounts of nitrotoluene are formed by the photochemical reaction of toluene, nitrogen oxides, and sunlight. Although dinitrotoluene could be formed subsequently, it would be subject to photolysis.

6.3 POTENTIAL ROUTES OF EXPOSURE TO RECEPTORS

Conceptual site models (CSMs) have been developed during the UURI that illustrate the potential receptors and routes of exposure to constituents that are within, beneath, or at the outfall of underground lines within the project boundaries. Exposure pathways begin from potential sources and progress through the environment through various fate and transport processes, as described in Sections 6.1 and 6.2, to potential human receptors. For the underground utilities, multiple exposure scenarios are possible based upon a multitude of permutations involving property boundaries, routes of contact, type of underground utility, impacted media, and potential receptors. A human health risk assessment will evaluate a wide variety of potential exposure scenarios. Refined CSMs, based on current and future site use, receptors and exposure routes, are included in Appendix H.

With regard to potential impact to ecological receptors, an ecological evaluation of habitat within selected exposure units was performed as part of the Phase II RI risk assessment. Those exposure units bordered and included manmade drainages and lagoons that accept discharge from DOD underground stormwater and wastewater lines. The underground lines are too deep to result in significant exposure of ecological receptors from direct contact with the contents (exposure of most ecological receptors occurs from constituents in the first 0 to 1 ft bgs). Therefore, the lagoons and drainages represent the only probable exposure of ecological receptors to potential COPCs from underground lines. However, it was determined that these are artificial drainages and structures that afford negligible aquatic habitat and screening against ecological benchmarks was not proposed. Therefore, screening against possible ecological risk benchmarks is not proposed. Furthermore, there is evidence that these drainages and structures may have been impacted by non-DOD site use, thereby limiting the scope of investigation under DERP-FUDS HTRW regulation.

CHAPTER 7

7. REMEDIAL INVESTIGATION SUMMARY AND CONCLUSIONS

7.1 SUMMARY

A summary of the general results of the UURI are included herein. The discussion is presented by line type (Sections 7.1.1) and by constituent group (Section 7.1.2).

7.1.1 Summary by Line Type

7.1.1.1 Acid Waste Sewer Lines

Acid waste lines in the southern process areas of AFP-68 were not specifically identified during the UURI. One SVOC and several metals were identified as COPCs associated with the acid waste sewer line in Process Area 6 on Somerset Group property. However, the down gradient portion of this line on Somerset Group property has been sealed as part of an interim remedial action by the USACE. Furthermore, the portion of the acid waste sewer line formerly on the WM was removed as part of the same interim remedial action. Therefore, it is unlikely that these constituents would migrate far along the acid waste sewer line in that area.

Acid lines associated with the former LOOW, specifically a branch originating from the sixth line of the nitration houses (which have been destroyed), are impacted by VOCs, SVOCs, pesticides, and metals. Although a reported concentration of Aroclor 1260 in the sludge sample in this area was rejected, it is likely that PCBs are present in the sludge. This concentration was rejected due to a high dual column relative percent difference. A subsurface soil sample was not collected directly beneath the acid waste sewer line, but was collected beneath a nearby wastewater line and indicated PCB in concentrations exceeding the PRG. The wastewater associated with acid waste sewer lines south of M Street were also impacted with VOCs, SVOCs, an explosive compound, and metals in exceedance of the PRG, particularly in the sample collected from the northern branch, closest to M Street. Lead was particularly high in the wastewater samples collected from the branch originating from the acid concentration area on NFSS. PCE exceeded the PRG in wastewater at several locations in the south of M Street portion of the acid waste sewer line. Concentrations of PCE decreased in the down gradient direction, toward the WWTP. High concentrations of Aroclor 1260 and 1254 were reported in a sludge sample collected from the Acid Neutralization Building. The presence of PCBs in the upper reaches of the acid waste sewer line and at the WWTP indicates that the acid waste sewer lines have acted as a pathway for constituent migration. However, subsurface soil associated with the acid waste sewer line does not appear to be impacted in the area south of M Street or at the WWTP, with the exception of lead reported in subsurface soil near the NFSS boundary. Because the lines are encased in concrete, it is unlikely that the lead leached from the acid waste sewer lines. However, there is the possibility of another source of lead that could be impacting the subsurface soil independent of the lead reported within the lines. The lack of impact to the subsurface soil at most locations is likely due to the fact that this section of the line is encased in concrete and appeared to be structurally sound during the UURI.

In addition, the acid waste sewer lines west of the existing nitration houses and adjacent to M Street have been sealed at several locations and are no longer likely to act as an open conduit for constituent migration. In addition, the line originating from the NFSS property was sealed during this UURI.

7.1.1.2 Chemical Waste Sewer Lines

Chemical waste lines encountered during the UURI were associated with the former AFP-68. The main chemical waste sewer line for this facility is undergoing an interim removal action. An interim remedial action (IRA) of these TNT waste lines was initiated by the USACE in 2000. Field work associated with the IRA has been completed; administrative closure is on-going. However, the secondary lines were targeted during the UURI.

Generally, chemical constituents reported in the AFP-68 chemical waste sewer lines were not as high a concentration as those reported in LOOW acid waste sewer lines. However, there did appear to be more impact to subsurface soil associated with the chemical lines, including metals, PAHs, and Aroclor 1260 in exceedance of the PRG. Similar COPCs were reported in sludge (with an additional Aroclor, 1254, identified as a COPC) and wastewater (with additional COPCs, including VOCs and pesticides, identified in wastewater).

The chemical waste sewer lines originate within Process Areas 4, 7, 11, 2 and 20 and generally trend west to a main chemical waste sewer line, which was removed as part of an IRA. The AFP-68 chemical waste sewer lines do not tie into LOOW lines. Although these lines conveyed chemical waste to the main line in the past, the lines were sealed during the IRA and no longer convey waste out of the process areas.

7.1.1.3 Drains, Pits, or Sumps

Drains, pits, sumps, and vaults refer to above ground features that may be associated with underground lines, based on site reconnaissance, but the connection to the underground line and/or the type of line associated with the feature was unknown prior to the UURI. These features were located on the Somerset Group, WM, and Town of Lewiston properties.

The greatest reported concentrations of VOCs (1,1,2,2-tetrachloroethane and toluene) were reported in the sludge samples collected from the chlorine contact tank and Imhoff tank at the WWTP on the Town of Lewiston property. Subsurface soil samples were not collected from beneath these structures. Therefore, it is difficult to assess whether subsurface soil in the area has been impacted. Reported VOCs (TCE and PCE) in wastewater collected from the drain in AFP-68 Process Area 2 also exceeded the PRG. TCE in subsurface soil was also reported at this location, indicating possible impact from the contents of the line.

Each of the drains, pits, and sumps that were sampled were impacted by PAHs in concentrations exceeding the PRG, with the exception of the drain for the tank area in the western portion of Process Area 4 and the sludge bed at the WWTP. At two of the locations with PAHs exceeding PRGs (SOM-DW16 and CWM-X38-DW01), the subsurface soil sample associated with the location also exhibited elevated PAH concentrations indicating a possible release to the subsurface. The highest concentrations of PAHs were generally reported in the sludge sample collected from the silo structure at the NIKE Base. Additional SVOCs were reported in concentrations exceeding the PRG. The highest concentrations were reported in sludge samples collected from the WWTP.

Concentrations of PCBs were reported in subsurface soil samples associated with drains on WM property (Aroclor 1260) and in the sludge sample collected from Somerset Group property (Aroclor 1254).

Although the features at the WWTP and NIKE Base appear to be most heavily impacted with generally the greatest concentration of constituents, no clear discernible trend was visible in the results for the drains, pits, sumps, and vaults.

Due in part to the nature of these features, there was no clear trend in concentration of COPCs. Similarly, possible impact to subsurface soil seemed to be dependent on the individual feature and varied from location to location.

7.1.1.4 Sanitary Sewer Lines

During construction of the TNT plant, main sanitary sewer lines and the WWTP were put in place. Following the closure of LOOW, additional sewer lines were placed during the construction of AFP-68. These lines tied into the LOOW sanitary sewer lines at a point just west of the existing nitration houses. Final disposition of sanitary waste for the majority of

AFP-68 was the WWTP. However, during the UURI temporary septic tanks were located in Process Areas 10, 29, and T1T2. Final disposition for sanitary waste entering these tanks was the CDD.

It appears as though the former control area of the NIKE Base may have used an on-site treatment system not connected to LOOW or AFP-68 sanitary sewer lines. The silo structure located in the control area may have been used for treatment and settling of sanitary wastes. Metals were reported in sludge, wastewater, and soil. PAHs were reported in sludge and wastewater. Pesticides were reported in sludge.

The up gradient portion of the AFP-68 sanitary sewer main (on Somerset Group property) was in deteriorated condition and was leaking wastewater at each of the excavation locations attempted. However, with the exception of PAHs and metals, very few constituents reported in sludge and wastewater were also reported in associated subsurface soil samples along this length of the line. This may be a reflection of the tight silty clay surrounding, and keeping the contents within, the line. These reported PAHs and metals in subsurface soil were ubiquitous throughout the area and may not represent an impact from the contents of the sanitary sewer. In the HHRA (presented under separate cover) arsenic in sludge was a risk driver. Therefore, the concentration of arsenic in sludge was compared to background concentrations of arsenic in soil. The background comparison revealed that arsenic in sludge for the sanitary sewer line is above background concentrations and is likely site related. Typical sources of PAHs include railroad beds (cresols), bituminous road beds, and roof drains. In locations CWM-X53, X39, and X55 within the southeast area of AFP-68 on WM property, the majority of PAHs and PCBs reported in sludge or wastewater was also reported in associated subsurface soil samples. The sanitary sewer line in these areas was also in disrepair. The portion of the sanitary sewer line south of M Street is encased in concrete, which may explain why subsurface soil in this portion does not appear to be impacted.

Generally, those portions of sanitary sewer observed to be most highly impacted include the upper portion south of M Street in the vicinity of excavations (CMW-X104, X103), in the existing Nitration House area, the portions within Process Areas 2, 20, and 8, and the main trunk line east of Cedar Street. Portions of the main line on Somerset Group property have also been impacted with COPCs. Those areas that are most up gradient (Process Areas 29, 35, 39, and 22) appear to have the least impact.

7.1.1.5 The 30-Inch Outfall Line

There was no COPC identified in the surface water and sediment sample collected from within the SWDD beneath the 30-in. outfall line.

Although the 30-in. outfall line received wastes from the former LOOW and AFP-68, sampling results indicate that this line is the least impacted of the lines included in the UURI. This is likely due to the treatment of these wastes at the LOOW WWTP prior to entering the 30-in. outfall line, and the fact that the line is encased in concrete. Sanitary sewer and acid wastewater were treated, and TNT wastewater was diluted, prior to discharge to the 30-in. line. Although there were some constituents identified as COPCs (metals only, with the exception of one subsurface soil sample collected from the beginning of the line on the Town of Lewiston property, one sludge sample with reported PAHs, and one wastewater sample with a reported concentration of dieldrin, a pesticide, exceeding the PRG) the reported concentrations were less than those reported in matrices collected from other line types.

7.1.1.6 Stormwater Lines

A total of three surface soil samples were collected from outfalls from stormwater lines discharging to the CDD. In addition, a subsurface soil and liquid sample was collected from a stormwater line leading to the CDD. Identified COPCs include PAHs, a phthalate, pesticides, and metals. Note that the stormwater and wastewater lines in the northwestern portion of the WM property are similar in function and appear to act as building drainage and convey water from the building (likely from roof drains) and stormwater run off from nearby grates to the CDD. They do not tie in to other AFP-68 lines.

7.1.1.7 Wastewater Lines

Each of the wastewater lines were associated with the former AFP-68, with the exception of an overflow line from an acid waste sewer manhole to the Western Drainage Ditch on the Town of Lewiston property (LEW-X10). Metals in sludge and subsurface soil were identified as COPCs on the Town of Lewiston property.

The wastewater associated with AFP-68 discharged to surface water drainages.

Generally, the wastewater lines in the northwestern AFP-68 Areas on WM property were impacted by SVOCs, primarily PAHs, and metals in sludge, wastewater, and subsurface soil. Similar trends and constituents were observed in the wastewater lines in the northern process areas on Somerset Group property. However subsurface soil concentrations did not exceed

PRGs with the exception of two PAHs in one sample (collected adjacent to a manhole on Somerset Group property), each of which exceeded the PRG. Sporadic concentrations of heptachlor epoxide and VOCs exceeded the PRG in wastewater as well.

With the exception of Process Area 4, the wastewater lines in the southern process areas were much more impacted, particularly in the vicinity of Areas 14, 2, and 20.

In Process Area 4, phthalates and metals were identified as COPCs in wastewater, and metals were identified as COPCs in subsurface soil.

Wastewater lines in Areas 16 and 22 were impacted primarily with PAHs and metals in sludge, metals in subsurface soil, and phthalates and metals in wastewater. The one exception is the wastewater sample from CWM-X49, with reported concentrations of pesticides and a PCB (Aroclor 1260) exceeding the PRG.

In Process Area 10, subsurface soil and sludge associated with wastewater lines were impacted by PAHs and metals exceeding the PRG. Wastewater samples were not collected in this area.

The wastewater line encountered in Process Area 14 was the most highly impacted. The line appears to be a drain line for the tank containment area. The second highest concentrations of non-PAH SVOCs and VOCs of the UURI were reported in the wastewater sample from this line. The highest concentrations reported during the UURI were associated with this same tank containment area, but were reported in the wastewater sample from what was designated as an unknown line type (as discussed in Section 5.3.8.2). Subsurface soil was also impacted in this area. In addition, the line may have discharged to the CDD, although this was not confirmed during the UURI.

Subsurface soil and wastewater within Area 8 were impacted with PCBs and metals exceeding the PRG. Wastewater was also impacted with VOCs and pesticides exceeding the PRG.

Within Areas 2 and 20, the wastewater lines are impacted by VOCs, SVOCs, pesticides, and metals exceeding the PRG. Subsurface soil is impacted with pesticides, Aroclor 1260, and metals exceeding the PRG. In addition, the bedding material water in this area is impacted, as discussed below.

The bedding material water sample collected from an excavation between Process Areas 4 and 7 had a high reported PCB concentration (790 µg/L of Aroclor 1260). This line continues to the southeast to the south-trending wastewater main east of Cedar Street, which was not underlain by bedding material. Water within the bedding material of the wastewater line traversing east from Area 2 to Area 20 was impacted with VOCs, SVOCs, and metals exceeding the PRG. In addition, Aroclor 1254 was reported at a concentration exceeding the PRG in the bedding material water sample collected from the excavation closest to Process Area 2 (CWM-X37). The bedding material may be providing a migration pathway for COPCs to the main south-trending wastewater line east of Cedar Street (which is not underlain with bedding material).

7.1.1.8 Unknown Lines

Unknown lines were encountered on each property during the UURI. By the very nature of the fact that the line type could not be definitively identified, general directions, lengths, and the former use of the lines are not easily discernible.

Due to the fact that these are unknown lines, final disposition of material conveyed through the lines and whether the lines tie in to other lines is unknown.

In the northern portion of AFP-68, several unknown line types were encountered in the vicinity of the T1T2 building foundations. Generally, subsurface soils were impacted with metals only exceeding PRG. However, PAHs exceeding the PRG were reported in one location, collected beneath a perforated drain line. This drain line may have been associated with a roof drain, in which case the PAHs may be due to runoff from asphalt shingles. A phthalate and metals were reported in the wastewater sample collected from the septic tank at concentrations exceeding the PRG.

Unknown line types were also encountered in other northern AFP-68 process areas, specifically Process Areas 3, 5, 6. In these areas, metals only were reported in concentrations exceeding the PRG in sludge and subsurface soil samples. However, PAHs, a phthalate, and several pesticides were reported in concentrations exceeding the PRG in a wastewater sample collected from an unknown line north of the former lithium storage building.

In the southern process areas of AFP-68, Process Areas 10 and 14 were the most impacted. In Process Area 10, wastewater collected from a pit located off of the northeast corner of Building 10 was impacted with VOCs (benzene), SVOCs (primarily PAHs), pesticides, and metals in exceedance of the PRG. Metals in particular were in very high concentration in comparison to other wastewater samples collected during the UURI. PAHs and metals in exceedance of the PRG were reported in the sludge sample from this location as well.

In Process Area 14, pipe stickups were observed in the eastern portion of the bermed tank area. The wastewater sample collected from the line exhibited the highest concentrations of VOCs and phenol reported during the UURI. Subsurface soil at this location was also impacted with VOCs and Aroclor 1232 exceeding the PRG. Metals were also reported in the subsurface soil and wastewater samples in concentrations that exceeded the PRG.

Unknown line types in the southeastern AFP-68 process areas were not as heavily impacted. However n-nitroso-di-n-propylamine exceeded the PRG in wastewater, dieldrin exceeded in the sludge sample, and metals exceeded the PRG in subsurface soil.

An unknown line was encountered in the central portion of the NIKE Base. The line corresponds to a linear ground scar observed in historical aerial photos. PAHs and metals exceeded the PRG in each wastewater sample. Metals exceeded the PRG in subsurface soil. However the concentrations of metals were indicative of background.

In the northern portion of the control area of the NIKE Base, PAHs and metals exceeded the PRG in sludge, wastewater, and subsurface soil. Metals concentrations in subsurface soils were generally indicative of background concentrations. In sludge, metals reported in the samples collected from the silo structure (CMW-X113) were elevated (particularly lead) in comparison to other sludge samples. Additional SVOCs (pentachlorophenol and bis 2-ethylhexyl phthalate) were reported in wastewater in concentrations exceeding the PRG. Pesticides also exceeded the PRG in sludge and wastewater, and were reported in subsurface soil but at concentrations that did not exceed the PRG.

In the southern portion of the control area of the NIKE Base, metals were the only COPCs (in subsurface soil and wastewater). However, the concentrations in subsurface soil appeared to be indicative of background concentrations. In wastewater, the sample collected from excavation CWM-X121 appeared to be the most impacted, with arsenic, chromium, cobalt, lithium, magnesium, and vanadium reported in concentrations that were elevated in comparison to other wastewater samples in the area.

Generally, the silo structure and the concrete sump located southwest of the barracks building were the more highly impacted structures within the NIKE Base.

7.1.1.9 Cooling and Potable Water Lines

Although water lines were not specifically targeted for sample collection, these samples were collected due to field observations indicating odor, and they were collected at the direction of the USACE oversight inspector. The water lines were associated with AFP-68.

Benzene and PAHs were identified as COPCs in the liquid sample collected from the water line on Somerset Group property. Metals were identified as COPCs in subsurface soil, although concentrations did not exceed background.

Cis-1,2-DCE, vinyl chloride, and metals were identified as COPCs in the liquid sample collected from a water line on WM property.

7.1.2 Summary By Constituent Group

7.1.2.1 VOCs

VOCs in concentrations indicative of product type material were identified as COPCs in wastewater and subsurface soil in an unknown line type associated with a former AST in AFP-68 Process Area 14 (CWM-X28), as well as the drain from the AST tank berm (CWM-X29). VOCs were also identified as COPCs in the chlorine contact tank and Imhoff tank (designated as a drain, pit, or sump line type) at the WWTP. Additional VOCs were identified as COPCs in the chemical and acid waste sewer lines, particularly in the Process Areas 8, 2, and 20, and the sanitary sewer line south of M Street, but closest to M Street.

7.1.2.2 SVOCs

Phthalates were reported in the majority of the wastewater samples. These phthalates were reported in the majority of the samples where a peristaltic pump was used to acquire the sample and may be from sampling equipment rather than site sources. Although not prevalent, other non-PAH SVOCs identified as COPCs include pentachlorophenol, hexachlorobenzene, dibenzofuran, carbazole, hexachloro-1,3-butadiene, hexachlorocyclopentadiene, etc. There was no discernible trend to the reported non-PAH SVOC concentrations.

PAHs were ubiquitous in subsurface soil and most sludge. However, the highly impacted areas with regard to PAHs were the sludge sample collected from the wastewater line east of AFP-68 Building 35-01 (CWM-X07), the wooden acid waste sewer discharge line (LEW-X11) at the WWTP, the silo-like structure (CWM-X116) and concrete pit (CWM-X113) at the NIKE Base, and the sludge collected from within unknown line UN01 at CWM-X85.

7.1.2.3 Explosives

TNT was not reported in samples collected during the UURI. However, various nitroaromatic compounds were reported, and some explosive compounds were identified as

COPCs in wastewater (e.g., 4-nitrotoluene, 2,4-dinitrotoluene, and RDX). Nitrobenzene in subsurface soil was ubiquitous and was reported in several locations in concentrations that did not represent a clear trend, although the second highest concentration was reported in the Nitration House area (CWM-X85-UN02). Nitrobenzene was also reported in surface soil samples collected from outfall locations. The highest concentration of nitrobenzene in soil was reported in a surface soil sample collected from a wastewater outfall location (CWM-OF12). The highest reported concentration of 2,4-DNT was on the Town of Lewiston property from the subsurface soil sample collected at LEW-X07. The highest concentration of 2,6-DNT was reported in CWM-X104 (sanitary sewer line south of M Street). The highest concentration of 2-amino-4,6-DNT was reported at the chlorine tank (LEW-X00-DW03).

There were sporadic reported concentrations of HMX and RDX in sludge and soil. RDX was reported in the subsurface soil sample collected from beneath the acid waste sewer line in CWM-X94. The highest concentration of HMX (as well as 4-amino-2,6-DNT) was reported in CWM-X85 near the Fortifier Building at the existing Nitration Houses. However, substantial concentrations of HMX were reported elsewhere (e.g., in sludge samples collected from chemical waste sewer and sanitary sewer lines at CMW-X48).

7.1.2.4 PCBs

PCBs were identified as COPCs. The most highly impacted area with regard to PCBs was the area in the vicinity of AFP-68 Process Areas 20 and 8 on the CWM property. Most of the line types encountered in these areas were impacted with PCBs. The bedding material water beneath the wastewater line in these areas was also impacted with PCBs. Aroclor 1260 was the most prevalent, although additional Aroclors were reported. In addition, in some samples (e.g., sludge collected from CWM-X41, CWM-X85, CWM-X05, LEW-X07), the SQL was very high for some Aroclors, due to interference from the reported Aroclors. In these instances, other Aroclors may be present in concentrations below the SQL. Sludge collected from UN01 in CWM-X85 was also impacted with a concentration (12,000 μg/kg) of Aroclor 1260 that exceeded the PRG.

The second most prevalent Aroclor was 1254. This was also the most widespread and was reported in sludge, wastewater, subsurface soil, and surface soil. The highest concentrations were reported in subsurface soil beneath the wastewater line (and bedding material water) at CWM-X37. The second highest concentration of this Aroclor was reported in the sludge sample collected from the acid waste sewer line at LEW-X07. Aroclor 1016 was reported in the wastewater collected from the wastewater line at CWM-X29. Elevated concentrations (greater than 10 mg/kg) of Aroclor 1232 were reported in subsurface soil samples collected beneath wastewater lines in CWM-X28 and CWM-X29. Aroclor 1242 was reported in sludge collected from the sanitary sewer line at CWM-X05 in the northwestern portion of AFP-68.

Lower concentrations of PCBs were reported at other locations throughout the study area (e.g., near the foundation of AFP-68 Area T1T2).

7.1.2.5 Pesticides

Pesticides were identified as COPCs but were ubiquitous and were reported in sludge, wastewater, and subsurface soil with no clear trend in concentrations. However, the highest concentrations were reported in sludge collected from the acid waste sewer and sanitary sewer lines at CWM-X41. Generally, many of the samples collected from within AFP-68 Area 20 and Area 8 were impacted by pesticides. The concrete drain southwest of the Barracks Building at the NIKE Base (CWM-X113-DW01) was a second area where pesticides (heptachlor epoxide in sludge) were reported at a concentration exceeding the PRG. The acid waste line on the Town of Lewiston property also reported beta-BHC in sludge exceeding the PRG. Additional pesticides exceeding the PRG were reported in wastewater samples collected from chemical waste lines within AFP-68 on WM property. Gamma-BHC was reported in concentrations exceeding the PRG in several of the wastewater samples collected from lines on WM property.

7.1.2.6 Cyanide

Cyanide was reported in ten samples collected on WM property. However, concentrations did not exceed the PRG or NYSDEC screening values, and it was not identified as a COPC.

7.1.2.7 Metals

Aluminum concentrations in subsurface soil associated with acid waste sewer lines were statistically higher than background. The highest concentration of aluminum associated with acid waste sewer lines was reported in the subsurface soil sample collected beneath the acid waste sewer line at CWM-X90. The highest concentration in sludge was reported in the sample collected from the sanitary sewer encountered in CWM-X41. However, the aluminum concentration reported in the sludge collected from the acid waste sewer line in CWM-X41 was also elevated in comparison to other reported aluminum concentrations.

Antimony concentrations in surface and subsurface soils associated with sanitary sewer, wastewater, and unknown lines were statistically higher than background. The highest concentration reported in soil from one of these line types was reported in the soil sample collected from beneath the unknown line in SOM-X36. The highest concentrations were reported in surface soil samples collected from the outfall of wastewater lines (CW-OF14 and CWM-OF15). Both of these outfalls discharge to B Ditch. The highest concentrations associated with the sanitary sewer were reported in the subsurface soil samples collected in the area south of M Street.

Arsenic concentrations in surface and subsurface soil associated with sanitary and wastewater lines were statistically higher than background concentrations. The highest concentrations in soil for these line types were reported in the surface soil samples collected from outfall locations associated with the wastewater line (CWM-OF14 and CWM-OF15). The highest concentrations reported in the sanitary sewer line (in soil and wastewater) were associated with the sanitary sewer lines south of M Street. The highest concentrations in sludge were reported in samples associated with the sanitary sewer lines in CWM-X103 (south of M Street) and X55 (near Area 4).

Barium was not reported in concentrations statistically greater than background in the surface and subsurface soil samples collected during the UURI. The highest concentration in soil was reported in the surface soil sample associated with outfall CWM-OF12 (from a wastewater line).

Beryllium was not reported in concentrations statistically greater than background in surface and subsurface soil samples collected during the UURI. The highest concentration in soil was reported in the sample collected from beneath the unknown line at location CWM-X125, although there were no particularly high beryllium concentrations in soil. The highest concentration reported in sludge was collected from within an unknown line in SOM-X07.

Boron was reported in subsurface soil associated with the acid waste sewer lines in concentrations statistically greater than background. Although the highest concentration in soil was reported in CWM-X35-DW01, several reported concentrations above 15 mg/kg were reported in subsurface soil beneath the portion of the acid waste sewer line located south of M Street. Boron was reported in particularly high concentrations in the sludge sample collected from the Imhoff tank (LEW-DW05) and in the wastewater collected from UN01 in CWM-X28 as well.

Cadmium was reported in subsurface soil associated with acid waste sewer, chemical waste sewer, and stormwater lines, as well as drains, pits, and sumps in concentrations statistically greater than background. The highest concentrations reported for these line types was reported in subsurface soil from chemical waste sewer lines encountered in CWM-X43 and CWM-X22A. The highest concentration in subsurface soil associated with acid waste sewer lines was located in the area south of M Street. The highest reported concentration in association with the stormwater line was collected from CWM-X06. The highest reported concentration of cadmium from the wastewater samples was collected from the sanitary sewer line at CWM-X41. This concentration was substantially higher than other cadmium concentrations reported during the UURI.

Chromium reported in surface and subsurface soil associated with acid waste sewer and stormwater lines was reported in concentrations statistically greater than background. The highest concentration in soil associated with the acid waste sewer lines was reported in the subsurface soil from the area south of M Street (CWM-X91). The highest concentrations reported in soil associated with the stormwater lines were in the surface soil samples at the outfall locations (SOM-OF2, 3, and 4). Concentrations of chromium exceeding the PRG were reported in wastewater samples as well. The highest concentrations in wastewater exceeded 1,000 µg/L and were reported in the wastewater samples associated with the unknown and sanitary sewer lines encountered in CWM-X28 and CWM-X41, respectively. Elevated chromium (exceeding 100 µg/L) was also reported in wastewater associated with wastewater and chemical waste sewer lines in CWM-X11 and CWM-X62, respectively.

Cobalt was reported in concentrations statistically greater than background in the subsurface soil collected during the UURI in association with wastewater lines. The highest concentration associated with wastewater lines was reported in CWM-X12. There was no discernible trend to reported cobalt concentrations in soil. Although there were a few locations where cobalt was noticeably elevated (in comparison to average concentrations) in sludge and wastewater, there were no real trends observed, and no concentrations exceeded the PRG, with the exception of the reported concentration in the wastewater in the unknown line at location X28 on WM property.

Copper was not reported in concentrations statistically greater than background in the surface or subsurface soil collected during the UURI. However, elevated concentrations were reported in sludge and wastewater. The highest concentrations in sludge were reported in CWM-X22A and CWM-X85 (both unknown line types) and CWM-X55 (sanitary sewer line type).

Iron was reported in concentrations statistically greater than background in subsurface soil collected during the UURI in association with drains, pits, sumps, and vaults. The highest concentration reported in subsurface soil associated with these types of features was reported in the silo like structure at the NIKE Base. The highest concentration in sludge associated with drains, pits, sumps, and vaults was collected from the concrete vault (CWM-X113) located at the NIKE Base. Higher concentrations of iron were reported in subsurface soil (as well as sludge) samples from other line types, but the data set as a whole did not statistically exceed the background concentration.

Lead was reported in concentrations statistically greater than background in the soil collected during the UURI in association with stormwater lines. The highest concentration reported in soil associated with the stormwater lines was reported in CWM-X06 in the northwestern portion of AFP-68. Higher concentrations of lead were reported in soil (as well as sludge) samples from other line types, but the data set as a whole did not statistically exceed the background concentration. Lead concentrations in the stormwater lines were statistically significant due in part to the data set for stormwater lines, which was very small.

Lithium was not reported in concentrations statistically greater than background in surface or subsurface soil collected during the UURI. Slightly elevated concentrations (in comparison to other samples collected during the UURI) were reported in the soil sample collected from CWM-X38.

Manganese was reported in concentrations statistically greater than background in the subsurface soil collected during the UURI in association with acid waste sewer and chemical waste sewer lines. The highest concentrations reported in subsurface soil associated with the acid waste sewer lines were collected from that portion of the line south of M Street. The highest concentrations reported in subsurface soil associated with the chemical waste sewer lines were from CWM-X22A near AFP-68 Building 16-01and CWM-X49 in AFP-68 Area 8. Higher concentrations of manganese were reported in subsurface soil (as well as sludge) samples from other line types, but the data set as a whole did not statistically exceed the background concentration.

Mercury was reported in concentrations statistically greater than background in the subsurface soil collected during the UURI in association with sanitary sewer, wastewater, and unknown lines. The highest concentration reported in subsurface soil associated with the sanitary sewer lines was from CWM-X32 in AFP-68 Process Area 2. The highest concentrations reported in subsurface soil associated with the wastewater lines was from CWM-X04 located in AFP-68 Process Area 10. The highest concentration in unknown lines was reported in subsurface soil collected from lines encountered at the east end of the 30-in. outfall on Town of Lewiston property. The highest concentration of mercury was reported in a sludge sample collected from within the sanitary sewer in CWM-X32, indicating impact to the subsurface from the contents of the line in that area.

Nickel was not reported in concentrations statistically greater than background in the surface or subsurface soil collected during the UURI in association. Slightly elevated concentrations (in comparison to other samples collected during the UURI) were reported in the soil sample collected from CWM-X22A located east of AFP-68 Building 16-01. The concentration of nickel in wastewater collected from within the unknown line in CWM-X28 (the material that appeared to be pure petroleum product from AFP-68 Area 14) was also noticeably elevated in comparison to average concentrations, and exceeded the PRG.

Selenium was reported in concentrations statistically greater than background in the subsurface soil collected during the UURI in association with acid waste sewer, chemical waste sewer, and stormwater lines, as well as drains, pits, sumps, and vaults. Of these line types, the highest reported concentration of selenium in subsurface soil was associated with the chemical waste sewer line encountered in CWM-X22A. Higher concentrations of selenium were reported in subsurface soil (as well as sludge) samples from other line types, but the data set as a whole did not statistically exceed the background concentration.

Silver was reported in concentrations statistically greater than background in the subsurface soil collected during the UURI in association with sanitary sewer, wastewater, and unknown lines. The highest concentration in subsurface soil was reported in association with the subsurface soil sample collected beneath the sanitary sewer line encountered in CWM-X26. The highest concentrations in sludge were reported in the sample collected from the Imhoff tank and chlorine contact tank at the LOOW WWTP.

Thallium was reported in concentrations statistically greater than background in the subsurface soil collected during the UURI in association with sanitary sewer, wastewater, and unknown line types. Thallium was reported in eight subsurface soil samples collected during the UURI. The concentrations of each sample were similar, ranging from 0.17 to 0.23 mg/kg. No clear trend or concentration exceeding the PRG for thallium in subsurface soil was observed.

Vanadium was reported in concentrations exceeding the PRG in wastewater and sludge samples collected from the majority of line types on each property, but no real trend was observed. Vanadium was reported in concentrations statistically greater than background in the subsurface soil collected during the UURI in association with acid waste sewer and chemical waste sewer lines. The highest concentration in subsurface soil associated with acid waste sewer lines was reported in the portion south of M Street. The highest concentration reported in association with chemical lines was from CWM-X62 on the east side of Wesson Street. However, vanadium concentrations in soil did not exceed the industrial PRG. The majority of the reported concentrations exceeded the residential PRG.

Although concentrations did not exceed the PRG, zinc was reported in concentrations statistically greater than background in the surface and subsurface soil collected during the UURI in association with stormwater and unknown line types. The highest concentration of zinc in soil reported during the UURI was reported in a surface soil sample collected from a stormwater outfall location OF02. This concentration did not exceed the PRG. Concentrations in subsurface soil beneath the unknown line in CWM-X115 at the NIKE Base and unknown line in CWM-X28 were also elevated in comparison to average sample concentrations, but did not exceed the PRG.

7.1.3 Summary By Property Owner

Possible remedial action, if required, will likely be performed on individual line types on specific properties. Therefore, the following the sections have been included to present a summary of the COPC identified during the UURI by property owner and line type within that property.

7.1.3.1 Waste Management

The following line types and associated matrices were investigated on the WM property:

- Acid waste sewers – wastewater, sludge, and subsurface soil
- Chemical waste sewers – wastewater, sludge, subsurface soil, and bedding water
- Drains, pits, vaults and sumps – wastewater, sludge, and subsurface soil
- Sanitary sewer – wastewater, sludge, subsurface soil, and surface soil
- Storm sewer – wastewater and subsurface soil
- Unknown lines – wastewater, sludge, and subsurface soil
- Wastewater – wastewater, sludge, subsurface soil, surface soil, and bedding water
- Water lines – wastewater

7.1.3.1.1 Acid Waste Sewers

COPCs in Soil

COPCs identified in soil for the WM acid waste sewer line, based on the Region 9 industrial soil PRG screen, include: aluminum, arsenic, chromium, lead, and Aroclor 1260. However, arsenic and lead concentrations in subsurface soil associated with the acid waste sewer lines were consistent with background concentrations.

COPCs in Sludge

COPCs identified in sludge for the WM acid waste sewer line, based on the Region 9 industrial soil PRG screen, include: aluminum, arsenic, lead, manganese, 4,4'-DDE, dieldrin, hexachlorobenzene, and 1,2,4-trichlorobenzene.

COPCs in Wastewater

COPCs identified in wastewater for the WM acid waste sewer line, based on comparison to the Region 9 tap water PRG screen, include: 2,4-dinitrotoluene, 4-nitrotoluene, aluminum, arsenic, barium, boron, cadmium, chromium, copper, lead, lithium, manganese, vanadium, Aroclor 1260, beta-BHC, delta-BHC, heptachlor epoxide, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, 2-methylnaphthalene, naphthalene, phenanthrene, pyrene, bis(2-ethylhexyl)phthalate, carbazole, dibenzofuran, hexachlorobenzene, 1,2,4-trichlorobenzene, benzene, chlorobenzene, chloroform, 1,2-dichlorobenzene, 1,4-dichlorobenzene, 1,1-dichloroethane, 1,2-dichloroethane, cis-1,2-dichloroethene, 1,2-dichloropropane, trans-1,3-dichloropropene, 1,1,2,2-tetrachloroethene, PCE, 1,1,2-trichloroethane, trichloroethylene, vinyl chloride, m&p-xylene, o-xylene.

7.1.3.1.2 Chemical Waste Sewers

COPCs in Soil

Several COPCs were identified in total soil for the WM chemical waste sewer line based on the Region 9 industrial soil PRG screen: aluminum, arsenic, chromium, Aroclor 1260, and benzo(a)pyrene. However, aluminum, arsenic, and chromium concentrations in soil associated with chemical waste sewers were consistent with background concentrations.

COPCs in Sludge

Several COPCs were identified in sludge for the WM chemical waste sewer line based on the Region 9 industrial soil PRG screen: aluminum, arsenic, chromium, copper, vanadium, Aroclor 1254, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, indeno(1,2,3-cd)pyrene, and hexachlorobenzene.

COPCs in Wastewater

Several COPCs were identified in wastewater for the chemical waste sewer line based on comparison to the Region 9 tap water PRG screen: aluminum, antimony, arsenic, barium, cadmium, chromium, copper, lead, lithium, manganese, molybdenum, selenium, thallium, vanadium, zinc, Aroclor 1260, dieldrin, heptachlor epoxide, hexachlorobenzene, and PCE.

COPCs in Bedding Water

One sample of liquid from bedding material associated with the chemical waste line was collected. COPCs identified in this sample, based on comparison with the Region 9 tap water PRGs, include: PCE, aluminum, arsenic, barium, chromium, copper, lead, manganese, molybdenum, thallium, and vanadium.

7.1.3.1.3 Drains, Pits, Vaults and Sumps

COPCs in Soil

COPCs were identified in total soil for the WM dry wells, pits, vaults, and sumps based on the Region 9 industrial soil PRG screen: aluminum, arsenic, Aroclor 1260, dieldrin, and benzo(a)pyrene. However, aluminum and arsenic concentrations in subsurface soil associated with drains was consistent with background concentrations.

COPCs in Sludge

COPCs were identified in sludge for the WM dry wells, pits, vaults, and sumps based on the Region 9 industrial soil PRG screen: aluminum, arsenic, cadmium, lead, zinc, heptachlor epoxide, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, phenanthrene, 1,2-benzphenanthracene, and bis(2-ethylhexyl)phthalate.

COPCs in Wastewater

COPCs were identified in wastewater for the WM dry wells, pits, vaults, and sumps based on comparison to the Region 9 tap water PRG screen: aluminum, antimony, arsenic, cadmium, chromium, lead, manganese, vanadium, dieldrin, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, phenanthrene, PCE, and TCE.

7.1.3.1.4 Sanitary Sewer

COPCs in Soil

COPCs were identified in total soil for the WM sanitary sewer line based on the Region 9 industrial soil PRG screen: aluminum, arsenic, chromium, Aroclor 1260, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene. However, concentrations of aluminum, arsenic, and chromium in subsurface soil associated with the sanitary sewer line were consistent with background concentrations.

COPCs in Sludge

COPCs were identified in sludge for WM sanitary sewer line based on the Region 9 industrial soil PRG screen: aluminum, arsenic, chromium, copper, lead, manganese, mercury, vanadium, Aroclor 1242, Aroclor 1260, aldrin, delta-BHC, gamma-chlordane, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, dieldrin, endrin, endrin aldehyde, heptachlor epoxide, benzo(a)pyrene, hexachloro-1,3-butadiene, hexachlorobenzene, hexachlorocyclopentadiene, pentachlorophenol, chloroform, and PCE.

COPCs in Wastewater

COPCs were identified in wastewater for the WM sanitary sewer line based on comparison to the Region 9 tap water PRG screen: 2,6-dinitrotoluene, 4-nitrotoluene, RDX, aluminum, antimony, arsenic, barium, boron, cadmium, chromium, copper, lead, lithium, manganese, molybdenum, vanadium, Aroclor 1260, alpha-BHC, delta-BHC, gamma-BHC, heptachlor, heptachlor epoxide, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, 2-methylnaphthalene, naphthalene, phenanthrene, bis(2-ethylhexyl)phthalate, 2-chlorophenol, hexachlorobenzene, 4-methylphenol, pentachlorophenol, phenol, 1,2,4-trichlorobenzene, benzene, carbon disulfide, carbon tetrachloride, chlorobenzene, chloroform, 1,2-dichlorobenzene, 1,4-dichlorobenzene, 1,1-dichloroethane, 1,2-dichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, methylene chloride, 1,1,2,2-tetrachloroethane, PCE, toluene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, trichloroethylene, vinyl chloride, m&p-xylene, and o-xylene.

7.1.3.1.5 Storm Sewer

COPCs in Soil

COPCs were identified in total soil for the WM storm sewer line based on the Region 9 industrial soil PRG screen: aluminum and arsenic. However, both of these metals concentrations in soil associated with storm sewer lines was consistent with background concentrations.

COPCs in Wastewater

COPCs were identified in wastewater for the WM storm sewer line based on comparison to the Region 9 tap water PRG screen: aluminum, arsenic, barium, chromium, lead, manganese, vanadium, heptachlor epoxide, and bis(2-ethylhexyl)phthalate.

7.1.3.1.6 Unknown Lines

COPCs in Total Soil

COPCs were identified in total soil for the WM unknown lines based on the Region 9 industrial soil PRG screen: aluminum, arsenic, lead, Aroclor 1232, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, benzene, carbon tetrachloride, chloroform, 1,4-dichlorobenzene, PCE, TCE, and m&p-xylene. However, the reported arsenic concentrations in soil associated with unknown lines were consistent with background concentrations.

COPCs in Sludge

COPCs were identified in sludge for the unknown lines on WM property based on the Region 9 industrial soil PRG screen: aluminum, antimony, arsenic, chromium, lead, manganese, Aroclor 1254, Aroclor 1260, dieldrin, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, and phenanthrene.

COPCs in Wastewater

COPCs were identified in wastewater for the unknown lines on WM property based on comparison to the Region 9 tap water PRG screen: 1,3-dinitrobenzene, 4-nitrotoluene, aluminum, antimony, arsenic, barium, boron, cadmium, chromium, cobalt, copper, lead, lithium, manganese, mercury, molybdenum, nickel, selenium, vanadium, zinc, beta-BHC, heptachlor, heptachlor epoxide, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, 2-methylnaphthalene, naphthalene, phenanthrene, 1,2-benphenanthracene, bis(2-ethylhexyl)phthalate, carbazole, 2-chlorophenol, dibenzofuran, 2-methylphenol, 4-methylphenol, n-nitroso-di-n-propylamine, 2,2'-oxybis(1-chloropropane), pentachlorophenol, phenol, acetone, benzene, 2-butanone, chlorobenzene, chloroform, 1,2-dichlorobenzene, 1,4-dichlorobenzene, 1,1-dichloroethane, 1,2-dichloroethane, cis-1,2-dichloroethene, ethylbenzene, isopropyl benzene, methylene chloride, PCE, toluene, 1,1,2-trichloroethane, TCE, vinyl chloride, m&p-xylene, and o-xylene.

7.1.3.1.7 Wastewater Water Lines

COPCs in Soil

COPCs were identified in total soil the WM wastewater line based on the Region 9 industrial soil PRG screen: aluminum, arsenic, chromium, manganese, Aroclor 1232, Aroclor 1254, Aroclor 1260, 4,4'-DDE, dieldrin, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene. However, concentrations of aluminum, arsenic, and chromium in soil associated with the wastewater lines were consistent with background concentrations.

COPCs in Sludge

COPCs were identified in sludge for the WM wastewater line based on the Region 9 industrial soil PRG screen: arsenic, chromium, manganese, vanadium, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, 2-methylnaphthalene, naphthalene, phenanthrene, 1,2-benzphenanthracene, and carbazole.

COPCs in Wastewater

COPCs were identified in wastewater for the WM wastewater line based on comparison to the Region 9 tap water PRG screen: aluminum, antimony, arsenic, barium, cadmium, chromium, copper, lead, lithium, manganese, mercury, molybdenum, nickel, vanadium, Aroclor 1016, Aroclor 1254, Aroclor 1260, beta-BHC, delta-BHC, dieldrin, heptachlor epoxide, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, indeno(1,2,3-cd)pyrene, 2-methylnaphthalene, naphthalene, bis(2-ethylhexyl)phthalate, hexachlorobenzene, 4-methylphenol, phenol, 1,2,4-trichlorobenzene, 2,4,6-trichlorophenol, carbon tetrachloride, chlorobenzene, chloroform, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,1-dichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, ethylbenzene, isopropyl benzene, methylene chloride, styrene, PCE, toluene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, TCE, vinyl chloride, m&p-xylene, and o-xylene.

COPCs in Bedding Water

Three samples were collected from liquid contained perched in the bedding material of wastewater lines on WM property. COPCs identified through comparison to Region 9 tap water PRGs include: 1,1,1-trichloroethane, 1,1,2-trichloroethane, chloroform, cis 1,2-dichloroethene, TCE, PCE, vinyl chloride, 1,2,4-trichlorobenzene, 1,3-dirchorobenzene, 1,4-dichlorobenzene, 2,4,6-trichlorophenol, hexachlorobenzene, Aroclor 1254, Aroclor 1260, aluminum, arsenic, lead, manganese, and vanadium.

7.1.3.1.8 Water Lines

COPCs in Wastewater

One wastewater sample was collected from a potable water line on WM property. COPCs, based on comparison to Region 9 tap water PRGs, include: cis-1,2-dichloroethene, vinyl chloride, and manganese.

7.1.3.2 Somerset Group

The following line types and associated matrices were investigated on the Somerset Group property:

- Acid waste sewers – wastewater and subsurface soil
- Drains, pits, vaults and sumps – wastewater, sludge, and subsurface soil
- Sanitary sewer – wastewater, sludge, subsurface soil, and surface soil
- Storm sewer – subsurface soil and surface soil
- Unknown lines – wastewater, sludge, and subsurface soil, and surface soil
- Wastewater – wastewater, sludge, subsurface soil, and surface soil
- Water lines – wastewater and subsurface soil

7.1.3.2.1 Acid Waste Sewers

COPCs in Soil

COPCs were identified in total soil for the Somerset Group Property acid waste sewer line based on the Region 9 residential soil PRG screen: aluminum, arsenic, chromium, manganese, and vanadium. However, concentrations of arsenic in soil associated with the acid waste lines were consistent with background concentrations.

COPCs in Wastewater

COPCs were identified in wastewater for the Somerset Group Property acid waste sewer line based on comparison to the Region 9 tap water PRG screen: aluminum, arsenic, chromium, lead, lithium, manganese, vanadium, and hexchloro-1,3-butadiene.

7.1.3.2.2 Drains, Pits, Vaults and Sumps

COPCs in Soil

COPCs were identified in total soil for the Somerset Group property dry wells, pits, vaults, and sumps based on the Region 9 residential soil PRG screen: aluminum, arsenic, chromium, manganese, and vanadium. However, concentrations of aluminum, arsenic, chromium, manganese, and vanadium in soil associated with the drains and pits were consistent with background concentrations.

COPCs in Sludge

COPCs were identified in sludge for the Somerset Group property dry wells, pits, vaults, and sumps based on the Region 9 residential soil PRG screen: aluminum, arsenic, manganese, vanadium, Aroclor 1254, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, and phenanthrene.

COPCs in Wastewater

COPCs were identified in wastewater for the Somerset Group property dry wells, pits, vaults, and sumps based on comparison to the Region 9 tap water PRG screen: lithium and heptachlor epoxide.

7.1.3.2.3 Sanitary Sewer

COPCs in Soil

COPCs were identified in total soil for the Somerset Group property sanitary sewer line based on the Region 9 residential soil PRG screen: aluminum, arsenic, chromium, manganese, vanadium, and benzo(a)pyrene. However, concentrations of aluminum, arsenic, and chromium reported in soil associated with the sanitary sewer lines were consistent with background concentrations.

COPCs in Sludge

COPCs were identified in sludge for the Somerset Group property sanitary sewer line based on the Region 9 residential soil PRG screen: aluminum, arsenic, chromium, manganese, vanadium, and benzo(a)pyrene.

COPCs in Wastewater

COPCs were identified in wastewater for the Somerset Group property sanitary sewer line based on comparison to the Region 9 tap water PRG screen: aluminum, antimony, arsenic, barium, cadmium, chromium, copper, lead, lithium, manganese, molybdenum, thallium, vanadium, zinc, 4,4'-DDT, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, indeno(1,2,3-cd)pyrene, bis(2-ethylhexyl)phthalate, 1,4-dichlorobenzene, pentachlorophenol, cis-1,2-dichloroethene, and vinyl chloride.

7.1.3.2.4 Storm Sewer

COPCs in Soil

COPCs identified in total soil for the Somerset Group property storm sewer line based on the Region 9 residential soil PRG screen: aluminum, arsenic, chromium, manganese, vanadium, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, and phenanthrene. However, concentrations of aluminum, arsenic, manganese, and vanadium reported in soil associated with storm sewer lines were consistent with background concentrations.

7.1.3.2.5 Unknown Lines

COPCs in Soil

COPCs were identified in total soil for the Somerset Group Somerset Group property unknown lines based on the Region 9 residential soil PRG screen: aluminum, arsenic, cadmium, chromium, manganese, vanadium, Aroclor 1254, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene. However, the reported concentrations of arsenic in soil associated with the unknown lines are consistent with background concentrations.

COPCs in Sludge

COPCs were identified in sludge the Somerset Group Somerset Group property unknown lines based on the Region 9 residential soil PRG screen: aluminum, antimony, arsenic, cadmium, chromium, copper, manganese, mercury, vanadium, zinc, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and 1,4-dichlorobenzene.

COPCs in Wastewater

COPCs were identified in wastewater for the Somerset Group property unknown lines based on comparison to the Region 9 tap water PRG screen: aluminum, antimony, arsenic, barium, boron, chromium, copper, lead, lithium, manganese, vanadium, gamma-chlordane, heptachlor, heptachlor epoxide, benz(a)anthracene, 2-methylnaphthalene, naphthalene, phenanthrene, bis(2-ethylhexyl)phthalate, carbazole, dibenzofuran, benzene, and vinyl chloride.

7.1.3.2.6 Wastewater Water Lines

COPCs in Soil

COPCs were identified in total soil for the Somerset Group property wastewater line based on the Region 9 residential soil PRG screen: aluminum, arsenic, chromium, manganese, vanadium, benzo(a)pyrene, and dibenz(a,h)anthracene. However, concentrations of aluminum, arsenic, chromium, and vanadium were consistent with background concentrations.

COPCs in Sludge

COPCs were identified in sludge for the Somerset Group property wastewater line based on the Region 9 residential soil PRG screen: arsenic, barium, cadmium, chromium, manganese, vanadium, benzo(a)pyrene, and dibenz(a,h)anthracene.

COPCs in Wastewater

COPCs were identified in wastewater for the Somerset Group property wastewater line based on comparison to the Region 9 tap water PRG screen: chromium, lead, lithium, manganese, phenanthrene, dibenzofuran, cis-1,2-dichloroethene, and vinyl chloride.

7.1.3.2.7 Water Lines

COPCs in Soil

Four soil samples were collected from beneath potable and cooling water lines on Somerset Group property. COPCs were identified in soil for the Somerset Group property water lines based on the Region 9 residential soil PRG screen include: aluminum, arsenic, manganese, and vanadium. However, the reported concentration of these metals was consistent with background concentrations.

COPCs in Wastewater

One wastewater sample was collected from a potable water line on Somerset Group property. COPCs, based on comparison to Region 9 tap water PRGs, include: benzene, 2-methylnapthalene, benz[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, indeno[1,2,3-c,d]pyrene, naphthalene, phenanthrene,

7.1.3.3 Town of Lewiston

The following line types and associated matrices were investigated on the WM property:

- Acid waste sewers – wastewater, sludge, and subsurface soil
- Drains, pits, vaults and sumps – wastewater and sludge
- Sanitary sewer – wastewater, sludge, and subsurface soil
- Wastewater – sludge and subsurface soil

7.1.3.3.1 Acid Waste Sewers

COPCs in Soil

COPCs were identified in total soil for the Town of Lewiston property acid waste sewer line based on the Region 9 residential soil PRG screen: aluminum, arsenic, chromium, manganese, and vanadium. However, concentrations of arsenic in subsurface soil associated with acid waste lines were consistent with background concentrations.

COPCs in Sludge

COPCs were identified in sludge for the Town of Lewiston property acid waste sewer line based on the Region 9 residential soil PRG screen: aluminum, antimony, arsenic, barium, cadmium, chromium, copper, manganese, mercury, vanadium, Aroclor 1254, Aroclor 1260, dieldrin, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, dibenz(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, pyrene, 1,2-benzphenanthracene, bis(2-ethylhexyl)phthalate, carbazole, and 4-chloroaniline.

COPCs in Wastewater

COPCs were identified in wastewater for the Town of Lewiston property acid waste sewer line based on comparison to the Region 9 tap water PRG screen: aluminum, arsenic, barium, cadmium, chromium, copper, lead, manganese, molybdenum, vanadium, and dibenz(a,h)anthracene

7.1.3.3.2 Drains, Pits, Vaults and Sumps

COPCs in Sludge

COPCs were identified in sludge for the Town of Lewiston property dry wells, pits, vaults, and sumps based on the Region 9 residential soil PRG screen: aluminum, antimony, arsenic, boron, cadmium, chromium, copper, lead, manganese, mercury, silver, vanadium, zinc, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, 2-methylnaphthalene, naphthalene, phenanthrene, dibenzofuran, 1,1,2,2-tetrachloroethane, and toluene.

COPCs in Wastewater

COPCs were identified in wastewater for the Town of Lewiston property dry wells, pits, vaults, and sumps based on comparison to the Region 9 tap water PRG screen: arsenic, manganese, vanadium, and heptachlor epoxide.

7.1.3.3.3 Sanitary Sewer Lines

COPCs in Soil

COPCs were identified in total soil for the Town of Lewiston property sanitary sewer line based on the Region 9 residential soil PRG screen: aluminum, arsenic, chromium, manganese, and vanadium. However, concentrations of aluminum, arsenic, and chromium reported in soil associated with sanitary sewer lines were consistent with background concentrations.

COPCs in Sludge

COPCs were identified in sludge for the Town of Lewiston property sanitary sewer line based on the Region 9 residential soil PRG screen: aluminum, arsenic, chromium, manganese, and vanadium.

COPCs in Wastewater

COPCs were identified in wastewater for the Town of Lewiston property sanitary sewer line based on comparison to the Region 9 tap water PRG screen: aluminum, arsenic, boron, chromium, manganese, vanadium, and heptachlor epoxide.

7.1.3.3.4 Wastewater Lines

COPCs in Soil

COPCs were identified in total soil for the Town of Lewiston Property Wastewater Line based on the Region 9 residential soil PRG screen: aluminum, arsenic, manganese, and vanadium. However, concentrations of aluminum, arsenic, and vanadium were consistent with background concentrations.

COPCs in Sludge

COPCs were identified in sludge for the Town of Lewiston Property Wastewater Line based on the Region 9 residential soil PRG screen: aluminum, arsenic, chromium, manganese, and vanadium.

7.1.3.4 30-Inch Outfall Line (Multiple Owners)

Because the 30-in. outfall line is the single line which ultimately received acid, chemical, TNT, and sanitary sewer wastes from LOOW and the former DOD facilities, it is best discussed as a single line type rather than on a per-property basis (see Section 7.1.1.5).

7.2 CONCLUSIONS AND RECOMMENDATIONS

Although this is not a comprehensive list, results indicate the most highly impacted matrices, line types, and areas include:

- The sludge, wastewater, subsurface soil, and possibly bedding material water associated with the majority of the line types (chemical waste sewer, wastewater, and sanitary sewer) within AFP-68 Area 8 south of the foundation and bermed tank area.
- The sludge, wastewater, subsurface soil, and bedding material water associated with several of the line types (acid waste sewer, sanitary sewer, and wastewater) within Process Area 20.
- The sludge, wastewater, subsurface soil, and possibly ground water (based on comparison to SSLs) associated with unknown and wastewater lines associated with the bermed tank area in Process Area 14.
- The bedding material water beneath that portion of the AFP-68 wastewater line between Process Areas 4 and 7.
- Primarily the sludge and wastewater associated with the unknown lines within the NIKE Base silo structure and concrete pit to the southwest of the Barracks.
- Primarily the wastewater associated with the acid waste sewer and sanitary sewer lines south of M Street. The most highly impacted area is the portion of the lines closest to M Street. Sludge was not accessible in this area. However, where present, the sludge is likely impacted as well.
- The sludge and wastewater associated with the unknown lines exiting the Fortifier Building in the existing Nitration House Area.

- Sludge and wastewater within the Imhoff tank, chlorine contact tank, and wooden discharge line (from the Acid Neutralization Building) at the LOOW WWTP on Town of Lewiston property.

COPCs for the following analytical groups were identified during the UURI: VOCs, SVOCs (including, but not limited to, PAHs), pesticides, PCBs, explosives, and metals and are summarized, by line type and property owner in Table 7-1.

Results indicated that several line types in several areas have been impacted by COPCs. In some lines, impact appears to be dependent on the area in which the lines are located rather than the actual line type, indicating that events occurred that impacted the different line types with similar COPCs (e.g., possible contaminant migration into the lines through surface water runoff, disposal of material into the lines, or infiltration of COPCs through breaching of the line). Whether the impact was strictly from DOD site use, or subsequent use by various non-DOD owners, is not clear. However, the high concentrations of PCBs appear to be anomalous with respect to the constituents that would be expected in association with AFP-68.

Impact to subsurface soil from COPCs reported in the sludge and/or wastewater was observed in AFP-68 Process Areas 2, 8, 14, 20 and lines exiting the Fortifier Building at the existing Nitration House area. Impact to the subsurface soil was most prevalent at Process Areas 14, 2, 20, and 8. Impact to subsurface soil was less pronounced in those line types encased in concrete (i.e., the 30-in. outfall line, the LOOW acid and sanitary sewer lines south of M Street, and acid and sanitary sewer lines in the central portion of the existing Nitration Houses).

Bedding material appears to be providing a pathway for COPC migration, primarily along the secondary wastewater lines associated with AFP-68 within Process Areas 2, 20, 8 and between Areas 4 and 7. However, these pathways are likely finite, because the main wastewater trunk line is not underlain with bedding material. Other portions of underground lines, primarily associated with the former AFP-68, are underlain with bedding material and also have the potential to act as migration routes.

Possible impact to ground water was evaluated indirectly by comparing subsurface soil concentrations to SSLs. Results indicated a potential for ground water impact from VOCs in the vicinity of Process Area 14 and from pesticides in Process Areas 2, 20, and 8.

7.3 RECOMMENDATIONS

Results of the UURI indicate the presence of COPCs associated with each of the line types in concentrations that may be a potential human health concern. Present and possible future site use may bring human receptors into contact with these COPCs. A human health risk assessment has been completed to evaluate the possible risk from these COPCs (EA 2008a, EA 2008b).

TABLE 7-1 SUMMARY OF ANALYTICAL GROUPS WITH COPC IDENTIFIED DURING THE UURI

Line Type	Acid Waste									Chemical Waste				Drains, Pits, Sumps, Vaults								Sanitary Sewer									
Property:	Somerset Group			WM			Town of Lewiston			Waste Management				Somerset Group			WM			Town of Lewiston		Somerset Group			WM				Town of Lewiston		
	SL	WW	SO	SL	WW	SO	SL	WW	SO	SL	WW	WB	SO	SL	WW	SO	SL	WW	SO	SL	WW	SL	WW	SO	SL	WW	SS	SO	SL	WW	SO
VOC					X						X	X						X		X			X		X	X					
SVOC		X		X	X		X	X		X	X		X					X		X		X	X	X	X	X		X			
Pesticides				X	X		X				X				X		X	X	X		X		X		X	X				X	
PCB					X	X	X			X	X		X	X					X						X	X					
Explosives					X																					X					
Metals		X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Line Type	Stormwater			Wastewater										Unknown Lines								Cooling and Potable Water			30-in. Outfall					
Property:	Somerset Group	WM		Somerset Group				WM				Town of Lewiston		Somerset Group				WM				Somerset Group		WM	Various Owners					
	SS	WW	SO	SL	WW	SS	SO	WW	WB	SS	SO	SL	SO	SL	WW	SS	SO	SL	WW	SS	SO	WW	SO	WW	WS	SD	SO	SL	WW	
VOC					X			X	X					X	X				X		X	X		X						
SVOC	X	X		X	X		X	X	X	X	X			X	X		X	X	X		X	X	X				X	X		
Pesticides		X						X			X				X		X	X	X										X	
PCB								X	X		X						X	X			X									
Explosives																			X											
Metals	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X			X			X	X	X	

Blank cell = no constituents identified as COPC
SL = sludge
SO = subsurface soil
SS = surface soil
SD =sediment
WS = Surface water
WW = wastewater

CHAPTER 8

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