APPENDIX H

Streamlined Risk Evaluation

APPENDIX H - STREAMLINED RISK EVALUATION

Table of Contents

1. Introduction 2
2. Methodology 2
   2.1. Media Evaluated 2
   2.2. Human Health Screening 3
   2.3. Ecological Screening 3
3. Results 4
4. Conclusions 7
References 7

List of Tables

Table 1 – SRA Overview
Table 2 – Lakeshore – Groundwater Human Health Screening
Table 3 – Lakeshore – Groundwater Ecological Screening
Table 4 – NMCSG - Groundwater Human Health Screening
Table 5 – NMCSG - Groundwater Ecological Screening
Table 6 – Lakeshore – Soil Human Health Screening
Table 7 – Lakeshore – Soil Ecological Screening
Table 8 – Ditch A – Sediment Human Health Screening
Table 9 – Ditch A – Sediment Ecological Screening
Table 10 – Lakeshore – Seep Water Human Health Screening
Table 11 – Lakeshore – Seep Water Ecological Screening
Table 12 – NMC – Seep Water Human Health Screening
Table 13 – NMC – Seep Water Ecological Screening
Table 14 - Sample Locations

List of Figures

Figure 1 – SRE Sample Locations

1. Introduction

This Streamlined Risk Evaluation (SRE) has been prepared in support of a Focused Feasibility Study (FFS) Report that documents the development and evaluation of Interim Remedial Measure (IRM) alternatives for the Wastebeds 1-8 Site (Site). The FFS is focused on the following pathways that have the potential to transfer Site-related constituents to Onondaga Lake and/or Ninemile Creek (NMC):

A. Shallow and intermediate groundwater discharge to Onondaga Lake
B. NMC Sand and Gravel (NMCSG) unit groundwater discharge to NMC and Onondaga Lake
C. Surface erosion of Solvay waste at the eastern shore to Onondaga Lake
D. Wind/wave erosion of Solvay waste along the surf zone of Onondaga Lake
E. Solvay waste substrate and sediment in the lower reaches of Ditch A to Onondaga Lake
F. Seep discharges to NMC and Onondaga Lake

The SRE provides an assessment of the potential threats to human health and the environment prior to any response action being taken. It provides an evaluation of potential risk associated with each of these pathways if there were no removal or cleanup actions undertaken at the Site. The screening associated with this SRE was completed using maximum concentrations and conservative screening criteria. In addition to this screening, constituents that were retained after screening were compared to the identified chemicals of concern (COC) in the Human Health Risk Assessment (HHRA) and the Baseline Ecological Risk Assessment (BERA) Reports for the Geddes Brook/NMC and Onondaga Lake Bottom Subsites. The Geddes Brook/NMC and Onondaga Lake Bottom Subsites HHRA and BERA Reports provide specific evaluation of the risks associated with the media at those sites.

This SRE focuses on a portion of the Wastebeds 1-8 Site and does not provide an evaluation of Site-wide risks. As part of the Remedial Investigation (RI)/ Feasibility Study (FS) process, the HHRA Report for the entire Wastebeds 1-8 Site was submitted to the NYSDEC on February 11, 2010 (O'Brien & Gere 2010). The BERA Report is anticipated to be submitted to the NYSDEC in April of 2010. These documents provide a detailed, Site-specific evaluation of the risks associated with media at the Wastebeds 1-8 Site.

2. Methodology

2.1. Media Evaluated

The study area and samples used in this SRE are presented on Figure H-1. **Table 1** presents the media type, depth interval and screening criteria used to evaluate each of the above-listed pathways. To address the pathways identified above, the following media were included in this SRE:

- Shallow and intermediate groundwater discharging from the eastern shore to Onondaga Lake
- NMCSG unit groundwater discharging to Onondaga Lake and NMC
- Solvay waste along the eastern shore (surface depths)
- Seeps discharging to Onondaga Lake and NMC
- Solvay waste substrate and sediment in the lower reach of Ditch A
- Surface water in the lower reach of Ditch A

2.2. Human Health Screening

The presence of chemicals of potential concern (COPCs) for human receptors was evaluated for Site eastern shore groundwater and seeps, NMC seeps, surface Solvay waste along the eastern shore, Solvay waste substrate and sediment in the lower reach of Ditch A, and surface water in the lower reach of Ditch A. To develop a list of COPCs for each of the above media, the maximum detected concentrations of the Site-related constituents were compared to the USEPA Regional Screening Levels (RSLs) (USEPA 2009a). RSLs are risk-based concentrations derived from standardized equations combining exposure assumptions with USEPA toxicity data. The USEPA considers RSLs to be protective for humans (including sensitive groups) over a lifetime (USEPA 2009b). Site Solvay waste data were compared to RSLs for residential soil. Groundwater, surface water and seep surface water were compared to RSLs for tap water. The selected RSLs are protective for the reasonably anticipated future land use of the Site (recreational). For example, the equations used to derive the residential soil RSLs include incidental ingestion, inhalation of particulates, and dermal contact. These RSLs were also derived using an exposure frequency of 350 days per year. These RSLs correspond to a cancer risk of 1×10^{-6} or a hazard quotient of 0.1.

For each medium, a constituent was identified as a COPC if the maximum detected concentration exceeded the RSL for that constituent. If the maximum detected constituent concentration was less than the RSL, it was concluded that exposure to the constituent does not represent an unacceptable risk to human health. Naturally occurring constituents were eliminated from the COPC list if they were essential nutrients; therefore calcium, magnesium, potassium, and sodium were not included as human health COPCs. All detected Group A carcinogens (e.g., arsenic, benzene, and hexavalent chromium) were selected as COPCs, regardless of concentration. Constituents that were detected but lacked an RSL were retained as COPCs.

2.3. Ecological Screening

Chemicals of potential ecological concern (COPECs) were identified by screening the maximum detected concentrations in Site media against the lowest available ecologically-based screening criteria for each medium. Surface Solvay waste samples along the eastern shore were screened against USEPA Ecological Soil Screening levels for plants, terrestrial invertebrates, birds, and mammals (USEPA 2007), values from Efroymson et al. (1997a and 1997b), as well as *NYSDEC Restricted Use Soil Cleanup Objectives for the Protection of Ecological Resources* (NYSDEC 2006, Table 375-6.8(b)).

Constituents detected in Ditch A Solvay waste substrate and sediment were screened against values found in the *NYSDEC Technical Guidance for Screening Contaminated Sediments* (NYSDEC 1999). These criteria included benthic aquatic life chronic toxicity values and wildlife bioaccumulation values (NYSDEC 1999). Groundwater and surface water constituents were screened against federal and state criteria - the National Recommended Water Quality Criteria (USEPA 2009b) and the NYSDEC Ambient Water Quality Criteria and Guidance Values for fresh water (fish propagation and wildlife protection) (NYSDEC 1998).

If the maximum detected constituent concentration exceeded the lowest available screening criterion, the constituent was identified as a COPEC; otherwise, it was concluded that exposure to the constituent does not represent an unacceptable risk to ecological receptors. Some naturally occurring essential nutrients (magnesium and potassium) were eliminated from the COPEC list. Calcium and sodium were retained as COPECs as they are major constituents of Solvay waste and have been identified as physical stressors to the lake (NYSDEC 2002).

3. Results

This section is organized according to the pathways listed in **Section 1** of this appendix. Constituents that were retained after screening were compared to the identified COCs in the HHRA and the BERA Reports for the Geddes Brook/NMC and the Onondaga Lake Bottom Subsites. This comparison identifies the constituents that were present in Wastebeds 1-8 environmental media that were also documented in the Onondaga Lake and NMC risk assessments as contributing to unacceptable human health and ecological risks in NMC and Onondaga Lake. The comparison of site COPECs to off-site COCs was conducted for surface water, sediment and fish. These media were selected because site groundwater and surface soil could impact off site surface water and sediment, and fish could then be exposed to surface water and sediment.

A. Shallow and intermediate groundwater discharge to Onondaga Lake

Human Health – This pathway was evaluated by comparing the maximum concentration of detected constituents from shallow and intermediate groundwater wells from the eastern shore to tap water RSLs (**Table 2**). Analytical data are available for 71 detected constituents from the shallow and intermediate groundwater wells located within this area. Of these 71 constituents, 52 were selected as groundwater COPCs. Arsenic, chromium, iron, thallium, 4-methylphenol, naphthalene, benzene, ethylbenzene, vinyl chloride, m & p xylenes, and total xylenes exceeded their respective screening criteria by two or more orders of magnitude.

None of the 52 groundwater COPCs listed in **Table 2** was identified as a surface water constituent that contributed to unacceptable risk in the Onondaga Lake HHRA Report (groundwater not evaluated therein) (NYSDEC 2002a). Of the groundwater COPCs indentified in **Table 2**, arsenic, PCBs (Aroclor 1268), and mercury were identified in the Onondaga Lake HHRA as constituents which contributed to unacceptable hazard and risk for the fish ingestion pathway.

Ecological Risk – Risk to ecological receptors from this potential pathway was evaluated by comparing the maximum concentration of detected constituents in shallow and intermediate groundwater wells from the eastern shore to the selected ecological screening criteria. Groundwater from these wells contained 65 constituents that were selected as COPECs (**Table 3**). Aluminum, chromium, copper, iron, lead, mercury, nickel, silver, thallium, zinc, 4,4-DDT, Aroclor-1268, naphthalene, benzene, chloride, and total xylenes exceeded their respective screening criteria by two or more orders of magnitude.

Of the 65 groundwater COPECs listed in **Table 3**, barium, copper, cyanide, lead, manganese, mercury, zinc, and bis(2-ethylhexyl)phthalate, were identified as surface water COCs in the Onondaga Lake BERA Report (groundwater not evaluated therein) (NYSDEC 2002b). In addition, antimony, arsenic, chromium, mercury, selenium, vanadium, zinc, DDT, and PCBs were identified in the Onondaga Lake BERA Report as surface water COCs impacting fish.

B. NMCSG unit groundwater discharge to NMC and Onondaga Lake

Human Health – This pathway was also evaluated by comparing the maximum concentrations of detected constituents from the NMCSG Unit groundwater wells to tap water RSLs (**Table 4**). Analytical data are available for 47 detected constituents from these wells and 23 constituents were selected as groundwater COPCs. Of the constituents that were selected as COPCs, arsenic, naphthalene, and benzene exceeded their respective screening criteria by two or more orders of magnitude.

None of the 23 NMCSG groundwater COPCs listed in **Table 4** was identified as a surface water constituent that contributed to unacceptable risk or hazard in the Onondaga Lake HHRA Report (NYSDEC 2002a) or the Geddes Brook/Ninemile Creek HHRA Report (NYSDEC 2003a). Of the NMCSG groundwater COPCs listed in **Table 4**, arsenic and mercury were identified in the Onondaga Lake HHRA as constituents that contributed to unacceptable risk for the fish ingestion pathway. None of the Wastebeds 1-8 COPECs **(Table 4)** contributed to unacceptable risk for the fish ingestion pathway in the Geddes Brook/Ninemile Creek HHRA Report (NYSDEC 2003a).

Ecological Risk – Risk to ecological receptors from this potential pathway was evaluated by comparing the maximum concentration of detected constituents from the NMCSG Unit groundwater wells to the selected ecological standards for surface water (**Table 5**). Groundwater from these wells contained 40 constituents that were selected as COPECs. Cyanide, iron, and mercury exceeded their respective screening criteria by two or more orders of magnitude.

Of the 40 NMCSG groundwater COPECs listed in **Table 5**, barium, copper, manganese, mercury, zinc, and bis(2-ethylhexyl)phthalate were identified as surface water COCs in the Onondaga Lake BERA Report (groundwater not evaluated therein) (NYSDEC 2002b). In addition, chromium, mercury, vanadium and zinc were identified in the Onondaga Lake BERA Report as COCs impacting fish (NYSDEC 2003b).

Of the 40 NMCSG groundwater COPECs listed in **Table 5**, barium, manganese, mercury, and sodium were identified as surface water COCs in the Geddes Brook/Ninemile Creek BERA Report (groundwater not evaluated therein) (NYSDEC 2003b). In addition, arsenic, mercury, and zinc were identified in the Geddes Brook/Ninemile Creek BERA Report as COCs impacting fish (NYSDEC 2003b).

C. Surface water erosion of Solvay waste at the eastern shore to Onondaga Lake, and wind and wave erosion of Solvay waste along the surf zone of Onondaga Lake

Human Health – The potential for Solvay waste to reach human receptors in Onondaga Lake via surface water or wind/wave erosion was evaluated by comparing the maximum detected Solvay waste (0-2 ft bgs) constituent concentrations to residential soil RSLs (**Table 6**). This comparison also addresses the direct contact and ingestion pathways between subsurface COPC and humans along the eastern shore. Analytical data are available for 71 detected constituents and 26 constituents were selected as COPCs. Arsenic was the only COPC that exceeded the screening criteria by one order of magnitude.

Of the 26 Solvay waste COPCs listed in **Table 6**, arsenic, benzo(a)pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene were identified as constituents in sediment that contributed to unacceptable risk in the Onondaga Lake HHRA Report (NYSDEC 2002a). Of the soil COPCs listed in **Table 6**, arsenic, PCBs, and mercury were identified in the Onondaga Lake HHRA as constituents that contributed to unacceptable hazard and risk for the fish ingestion pathway.

Ecological Risk - Risk to ecological receptors from this potential pathway was evaluated by comparing the maximum concentration of detected Solvay waste (0-2 ft bgs) constituents to the lowest ecological criteria for soil. Eastern shore surface soil contained 38 constituents that were designated as COPEC (**Table 7**). Aluminum and chromium exceeded their respective screening criteria by two or more orders of magnitude.

Of the 38 Solvay waste COPECs listed in **Table 7**, antimony, arsenic, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, vanadium, zinc, phenol, ethylbenzene, xylenes, dibenzofuran, PAHs, gamma-chlordane, DDT and metabolites, and PCBs were identified as sediment COCs in the Onondaga Lake BERA Report (NYSDEC 2002b). In addition, antimony, arsenic,

chromium, mercury, selenium, vanadium, DDT and metabolites, and zinc were identified in the Onondaga Lake BERA Report as COCs impacting fish (NYSDEC 2003b).

D. Solvay waste substrate and sediment in the lower reaches of Ditch A

Human Health – The potential for affected sediment from the lower reaches of Ditch A to impact Onondaga Lake was evaluated by comparing the maximum detected Solvay waste substrate and sediment (0-1 ft bgs) constituent concentrations to residential soil RSLs (**Table 8**). This comparison also addresses the direct contact and ingestion pathways between Solvay waste substrate and sediment COPC and humans in this area. Analytical data are available for 41 detected sediment constituents in the lower reaches of Ditch A. Of these 41 constituents, 10 were selected as COPCs. Arsenic and benzo(a)pyrene exceeded their screening criteria by approximately one order of magnitude.

Of the 10 Ditch A sediment COPCs listed in **Table 8**, arsenic, dibenz(a,h)anthracene, and benzo(a)pyrene were identified as constituents that contributed to unacceptable risk in the Onondaga Lake HHRA Report (NYSDEC 2002a). Of the sediment COPCs identified in **Table 8**, arsenic was identified in the Onondaga Lake HHRA Report as a constituent that contributed to unacceptable risk for the fish ingestion pathway (NYSDEC 2002a).

Ecological Risk - Risk to ecological receptors from this potential pathway was evaluated by comparing the maximum constituent concentration in Solvay waste substrate and sediment (0-1 ft bgs) to the lowest of the sediment criteria described in **Section 2.3**. The lower reach of Ditch A contained 26 constituents (**Table 9**), of which 16 were designated as COPECs because there were no applicable sediment screening criteria in the *NYSDEC Technical Guidance for Screening Contaminated Sediments* (NYSDEC 1999).

Of the 16 Ditch A sediment COPECs listed in **Table 9**, arsenic, chromium, copper, lead, mercury, nickel, selenium, vanadium, zinc, total PAHs, dieldrin, and PCBs were identified as sediment COCs in the Onondaga Lake BERA Report (NYSDEC 2002b). In addition, arsenic, chromium, mercury, selenium, vanadium, and zinc were identified in the Onondaga Lake BERA Report as COCs impacting fish (NYSDEC 2003b).

E1. Seep discharge to Onondaga Lake.

Human Health – The potential for affected seep water from the eastern shore area to impact human receptors in Onondaga Lake was evaluated by comparing the maximum detected seep surface water constituent concentrations to tap water RSLs (**Table 10**). This comparison addresses the potential ingestion pathway between seep water COPCs and human receptors in this area. Analytical data are available for 47 detected seep surface water constituents. Of these 47 constituents, 22 were selected as COPCs. Arsenic and naphthalene exceeded their respective screening criteria by two or more orders of magnitude.

None of the 22 seep surface water COPCs listed in **Table 10** was identified as a surface water constituent that contributed to unacceptable risk or hazard in the Onondaga Lake HHRA Report (NYSDEC 2002a). Of the surface water COPCs listed in **Table 10**, arsenic was identified in the Onondaga Lake HHRA as a constituent that contributed to unacceptable risk for the fish ingestion pathway (NYSDEC 2002a).

Ecological Risk - Risk to ecological receptors from this potential pathway was evaluated by comparing the maximum concentration of detected seep surface water constituents to the lowest of the surface water quality criteria described in **Section 3.2**. The seep surface water along the eastern shore contained 34 constituents that were designated as COPEC (**Table 11**). Only naphthalene exceeded its respective screening criteria by more than two orders of magnitude.

Of the 34 seep surface water COPECs listed in **Table 11**, barium, copper, lead, manganese, mercury, zinc, and cyanide were identified as surface water COCs in the Onondaga Lake BERA Report (NYSDEC 2002b). In addition, antimony, mercury, and zinc were identified in the Onondaga Lake BERA Report as COCs impacting fish (NYSDEC 2003b).

E2. Seep discharge to NMC

Human Health – The potential for affected seep surface water to impact human receptors in NMC was evaluated by comparing the maximum detected seep surface water constituent concentrations to tap water RSLs (**Table 12**). Analytical data are available for only one seep in this area. Of the 18 detected constituents in this seep, only 1 was selected as a COPC. Lead was selected as a COPC because there is no tap water RSL for this constituent.

One constituent (lead) was identified in **Table 12** as a seep surface water COPC for discharge to NMC. Lead was not selected as a constituent that contributed to unacceptable risk in the Geddes Brook/Ninemile Creek HHRA Report (NYSDEC 2003a). None of the Wastebeds 1-8 seep water COPECs **(Table 12)** contributed to unacceptable risk for the fish ingestion pathway in the Geddes Brook/Ninemile Creek HHRA Report (NYSDEC 2003a).

Ecological Risk - Risk to ecological receptors from this potential pathway was evaluated by comparing the maximum concentration of detected seep surface water constituents to the lowest of the surface water quality criteria described in **Section 2**. The NMC seep surface water contained 11 constituents that were designated as COPEC (**Table 13**). The concentration of lead was approximately six times greater than the selected screening criteria.

Of the 11 NMC shore seep water COPECs listed in **Table 13**, barium, lead, manganese, mercury, and sodium were identified as surface water COCs in the Geddes Brook/Ninemile Creek BERA Report (NYSDEC 2003b). In addition, mercury, and zinc were identified in the Geddes Brook/Ninemile Creek BERA Report as COCs impacting fish (NYSDEC 2003b).

4. Conclusions

The SRE results indicate that there is a potential threat to human health and the environment from the media and pathways evaluated in this SRE. Response actions in the areas of the Site being evaluated in the FFS are warranted based on the following factors from 40 CFR Part 300.415 (B)(2):

- Potential threat of exposure to nearby populations and ecological receptors from COPCs/COPECs
- Potential migration of COPCs/COPECs in surface soils/Solvay waste to Onondaga Lake
- Potential migration or release of COPCs/COPECs to Onondaga Lake due to wind/wave action.

These potential threats were identified through screening of media that identified potentially unacceptable risks due to elevated levels of COPCs in Solvay waste along the eastern shore, Solvay waste substrate and sediment in the lower reach of Ditch A, surface water in the lower reach of Ditch A, seep surface water discharging to Onondaga Lake and Ninemile Creek, groundwater discharging from the NMCSG unit to Onondaga Lake and NMC, and shallow and intermediate groundwater discharging from the eastern shore to Onondaga Lake.

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TABLE 1
AREAS, MEDIA, and SCREENING CRITERIA
HONEYWELL WASTEBEDS 1-8 IRM EVALUATION
GEDDES, NEW YORK

Potential Pathway	Media	Depth Interval	Human Health Criteria	Ecological Criteria	Screening Tables
A. Shallow and intermediate groundwater discharge to Onondaga Lake.	Lakeshore Area Groundwater Wells	Shallow and Intermediate wells (maximum screen depth = 36 ft bgs)	USEPA RSLs - Tapwater	NYSDEC Ambient Water Quality Standards and Guidance Values - Fish Propogation (NYSDEC TOGS 1.1.1. 1998); NYSDEC Water Quality Standards and Guidance Values - Wildlife Protection (NYSDEC TOGS 1.1.1. 1998); USEPA National Recommended Water Quality Criteria - Freshwater CCC (USEPA 2006)	HH - Table 2 Eco - Table 3
B. Ninemile Creek Sand and Gravel (NMCSG) unit groundwater discharge to NMC and Onondaga Lake.	SG Unit Groundwater Wells	NMC Sand and Gravel Unit wells (maximum screen depth = 85 ft bgs)	USEPA RSLs - Tapwater	NYSDEC Ambient Water Quality Standards and Guidance Values - Fish Propogation (NYSDEC TOGS 1.1.1. 1998); NYSDEC Water Quality Standards and Guidance Values - Wildlife Protection (NYSDEC TOGS 1.1.1. 1998); USEPA National Recommended Water Quality Criteria - Freshwater CCC (USEPA 2006)	HH - Table 4 Eco - Table 5
C. Surface water erosion of Solvay waste at the eastern shore to Onondaga Lake. D. Wind/wave erosion of Solvay waste along the surf zone of Onondaga Lake.	Eastern Shoreline Surface Soil (Note: no relevant surface soil data is available for the steep embankment area or the northern shoreline)	0-2 ft bgs	USEPA RSLs - Residential Soil	Microorganisms and Microbial Processes (Efroymson *et al*. 1997); Earthworms (Efroymson *et al*. 1997); Terrestrial Plants (Efroymson *et al.* 1997b); NYSDEC Part 375 Restricted Use Soil Cleanup Objectives (NYSDEC, 2006 [6 NYCRR Subpart 375-6]); USEPA Ecological Soil Screening Levels - Plants (USEPA 2008); USEPA Ecological Soil Screening Levels - Invertebrates (USEPA 2008); USEPA Ecological Soil Screening Levels - Aves (USEPA 2008); USEPA Ecological Soil Screening Levels - Mammals (USEPA 2008).	HH - Table 6 Eco - Table 7
E. Sediment in the lower reaches of Ditch A.	Ditch A South Sediment	0-1 ft bgs	USEPA RSLs - Residential Soil	NYSDEC Benthic Aquatic Life - Chronic Toxicity (NYSDEC 1999); NYSDEC Wildlife Bioaccumulation (NYSDEC 1999).	HH - Table 8 Eco - Table 9
F. Seeps in the upper reaches of Ditch A	No data available to evaluate this pathway, see qualitative evaluation in text.				none
G1. Seep discharge to Onondaga Lake	Lakeshore Area Seep Water	Surface	USEPA RSLs - Tapwater	NYSDEC Ambient Water Quality Standards and Guidance Values - Fish Propogation (NYSDEC TOGS 1.1.1. 1998); NYSDEC Water Quality Standards and Guidance Values - Wildlife Protection (NYSDEC TOGS 1.1.1. 1998); USEPA National Recommended Water Quality Criteria - Freshwater CCC (USEPA 2006)	HH - Table 10 Eco - Table 11
G2. Seep discharge to NMC.	NMC Seep Water	Surface	USEPA RSLs - Tapwater	NYSDEC Ambient Water Quality Standards and Guidance Values - Fish Propogation (NYSDEC TOGS 1.1.1. 1998); NMYSDEC Water Quality Standards and Guidance Values - Wildlife Protection (NYSDEC TOGS 1.1.1. 1998); USEPA National Recommended Water Quality Criteria - Freshwater CCC (USEPA 2006)	HH - Table 12 Eco - Table 13

TABLE 2
STREAMLINED RISK EVALUATION
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
HONEYWELL WASTEBEDS 1-8 SITE- GROUNDWATER
GEDDES, NEW YORK

Scenario Timeframe: Current/Future
Medium: Water
Exposure Medium: Groundwater

Exposure Point	CAS Numbers	Chemical	Minimum Concentration (1)	Maximum Concentration (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (ug/L) (2)	Background Value (3)	USEPA Regional Screening Levels (ug/L) (4)		Potential ARAR/TBC Value	Selected Screening Value (ug/L) (5)	COPC Flag (Y/N)	Rationale for Selection or Deletion (6)
Lakeshore - Groundwater	METALS															
	7429-90-5	ALUMINUM	0.066 J	70	mg/L	WB18-GWS-01S2	35/52	0.1-4	7.00E+04		3.70E+03	n		3.70E+03	Y	ASL
	7440-36-0	ANTIMONY	0.002 J	0.027 J	mg/L	WB18-GWS-03I	7/52	0.0425-3	2.70E+01		1.50E+00	n		1.50E+00	Y	ASL
	7440-38-2	ARSENIC	0.0061	0.139	mg/L	WB18-MW-03S	8/52	0.01-0.25	1.39E+02		4.50E-02	c		4.50E-02	Y	TOX
	7440-39-3	BARIUM	0.034 J	11	mg/L	WB18-GWS-06S	52/52	-	1.10E+04		7.30E+02	n		7.30E+02	Y	ASL
	7440-41-7	BERYLLIUM	0.00076 J	0.0043 J	mg/L	WB18-GWS-01S2	6/52	0.00005-0.5	4.30E+00		7.30E+00	n		7.30E+00	N	BSL
	7440-43-9	CADMIUM	0.0045 J	0.0067 J	mg/L	WB18-MW-03S	2/47	0.0028-0.5	6.70E+00		1.80E+00	n		1.80E+00	Y	ASL
	7440-70-2	CALCIUM	430 J	15000 J	mg/L	WB18-GWS-01S2	52/52	-	1.50E+07		NV			NV	N	NUT
	7440-47-3	CHROMIUM[a]	0.0023 J	1.2 J	mg/L	WB18-GWS-01S2	8/50	0.0066-0.5	1.20E+03		1.10E+01	n		1.10E+01	Y	ASL
	7440-50-8	COPPER	0.0091 J	0.37	mg/L	WB18-GWS-01S2	7/52	0.01-0.5	3.70E+02		1.50E+02	n		1.50E+02	Y	ASL
	57-12-5	CYANIDE	0.0036 J	0.36	mg/L	WB18-MW-01S	47/52	0.01-0.01	3.60E+02		7.30E+01	n		7.30E+01	Y	ASL
	7439-89-6	IRON	0.071 J	350	mg/L	WB18-GWS-01S2	37/48	0.0845-2	3.50E+05		2.60E+03	n		2.60E+03	Y	ASL
	7439-92-1	LEAD	0.0033 J	0.2 J	mg/L	WB18-GWS-01S2	32/52	0.005-0.25	2.00E+02		NV			NV	Y	NTX
	7439-95-4	MAGNESIUM	0.551	470	mg/L	WB18-GWS-06I	45/52	0.309-5	4.70E+05		NV			NV	N	NUT
	7439-96-5	MANGANESE	0.0054 J	6	mg/L	WB18-GWS-01S2	44/52	0.0053-0.5	6.00E+03		8.80E+01	n		8.80E+01	Y	ASL
	7439-97-6	MERCURY	0.00002 J	0.0025	mg/L	WB18-GWS-06S, WB18-GWS-01S	31/48	0.00002-0.0004	2.50E+00		5.70E-02	n		5.70E-02	Y	ASL
	7440-02-0	NICKEL	0.0053 J	0.47 J	mg/L	WB18-GWS-01S2	26/52	0.0087-2.5	4.70E+02		7.30E+01	n		7.30E+01	Y	ASL
	7440-09-7	POTASSIUM	13 J	300 J	mg/L	WB18-GWS-02S2	52/52	-	3.00E+05		NV			NV	N	NUT
	7782-49-2	SELENIUM	0.013 J	0.08 J	mg/L	WB18-GWS-06I	7/52	0.005-0.25	8.00E+01		1.80E+01	n		1.80E+01	Y	ASL
	7440-22-4	SILVER	0.0047 J	0.01 J	mg/L	WB18-MW-03S	4/52	0.0062-0.5	1.00E+01		1.80E+01	n		1.80E+01	N	BSL
	7440-23-5	SODIUM	130	71260	mg/L	WB18-MW-01I	52/52	-	7.13E+07		NV			NV	N	NUT
	7440-28-0	THALLIUM	0.025 J	1	mg/L	WB18-MW-01I	11/52	0.01-0.158	1.00E+03		2.40E-01	n		2.40E-01	Y	ASL
	7440-62-2	VANADIUM	0.0017 J	0.13 J	mg/L	WB18-GWS-01S2	14/52	0.0144-2.5	1.30E+02		2.60E+01	n		2.60E+01	Y	ASL
	7440-66-6	ZINC	0.0057 J	2.2	mg/L	WB18-GWS-01S2	12/52	0.016-0.5	2.20E+03		1.10E+03	n		1.10E+03	Y	ASL
	PCBs															
	11100-14-4	AROCLOR-1268[b]	0.34 J	0.34 J	ug/L	WB18-MW-02I	1/52	0.5-1.1	3.40E-01		3.40E-02	c		3.40E-02	Y	ASL
	PESTICIDES															
	50-29-3	4,4'-DDT	0.25 JN	0.25 JN	ug/L	WB18-GWS-06S	1/52	0.093-0.22	2.50E-01		2.00E-01	c		2.00E-01	Y	ASL
	60-57-1	DIELDRIN	0.099 J	0.11 JN	ug/L	WB18-GWS-04S2	2/52	0.093-0.22	1.10E-01		4.20E-03	c		4.20E-03	Y	ASL
	959-98-8	ENDOSULFAN I[c]	0.075	0.075	ug/L	WB18-MW-02S	1/52	0.047-0.11	7.50E-02		2.20E+01	n		2.20E+01	N	BSL
	1024-57-3	HEPTACHLOR EPOXIDE	0.13 J	0.19 JN	ug/L	WB18-GWS-05I	2/52	0.047-0.11	1.90E-01		7.40E-03	c		7.40E-03	Y	ASL
	SVOCs															
	6165-52-2	1-PHENYL-1-(2,4-DIMETHYLPHENYL) ETHANE	0.83 J	3.7 J	ug/L	WB18-MW-02S	4/14	9.4-300	3.70E+00		NV			NV	Y	NTX
	3717-68-8	1-PHENYL-1-(4-METHYLPHENYL) ETHANE	1.8 J	2.4 J	ug/L	WB18-MW-09S	3/14	9.4-300	2.40E+00		NV			NV	Y	NTX
	105-67-9	2,4-DIMETHYLPHENOL	1 J	4.4 J	ug/L	WB18-MW-01S	11/52	9.4-1000	4.40E+00		7.30E+01	n		7.30E+01	N	BSL
	95-57-8	2-CHLOROPHENOL	1.8 J	7.3 J	ug/L	WB18-MW-03S	5/52	9.4-1000	7.30E+00		1.80E+01	n		1.80E+01	N	BSL
	91-57-6	2-METHYLNAPHTHALENE	2.4 J	63 J	ug/L	WB18-GWS-03S2	18/52	9.4-1000	6.30E+01		1.50E+01	n		1.50E+01	Y	ASL
	95-48-7	2-METHYLPHENOL	1.4 J	440	ug/L	WB18-GWS-06S2	39/52	9.4-1000	4.40E+02		1.80E+02	n		1.80E+02	Y	ASL
	106-44-5	4-METHYLPHENOL	2.4 J	3600	ug/L	WB18-MW-03S	42/52	9.4-1000	3.60E+03		1.80E+01	n		1.80E+01	Y	ASL
	98-86-2	ACETOPHENONE	2.7 J	90 J	ug/L	WB18-MW-02S	11/21	9.4-300	9.00E+01		3.70E+02	n		3.70E+02	N	BSL
	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	1.6 J	6.1 J	ug/L	WB18-MW-09I	4/52	9.4-1000	6.10E+00		4.80E+00	c		4.80E+00	Y	ASL
	132-64-9	DIBENZOFURAN	1.2 J	1.2 J	ug/L	WB18-GWS-02S	1/52	9.4-1000	1.20E+00		NV			NV	Y	NTX
	84-66-2	DIETHYL PHTHALATE	0.47 J	0.47 J	ug/L	WB18-MW-09I	1/52	9.4-1000	4.70E-01		2.90E+03	n		2.90E+03	N	BSL
	84-74-2	DI-N-BUTYL PHTHALATE	1.8 J	2.6 J	ug/L	WB18-MW-09S	3/52	9.4-1000	2.60E+00		3.70E+02	n		3.70E+02	N	BSL
	117-84-0	DI-N-OCTYL PHTHALATE	1.5 J	1.5 J	ug/L	WB18-GWS-04S	1/52	9.4-1000	1.50E+00		NV			NV	Y	NTX
	91-20-3	NAPHTHALENE	1.1 J	5900	ug/L	WB18-GWS-03S2	50/52	200-500	5.90E+03		1.40E-01	c		1.40E-01	Y	ASL
	85-01-8	PHENANTHRENE	0.46 J	1.6 J	ug/L	WB18-MW-02S	5/52	9.4-1000	1.60E+00		NV			NV	Y	NTX
	108-95-2	PHENOL	1.5 J	2400	ug/L	WB18-MW-03S	48/52	9.4-1000	2.40E+03		1.10E+03	n		1.10E+03	Y	ASL

TABLE 2
STREAMLINED RISK EVALUATION
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
HONEYWELL WASTEBEDS 1-8 SITE- GROUNDWATER
GEDDES, NEW YORK

Scenario Timeframe: Current/Future
Medium: Water
Exposure Medium: Groundwater

Exposure Point	CAS Numbers	Chemical	Minimum Concentration (1)	Maximum Concentration (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (ug/L) (2)	Background Value (3)	USEPA Regional Screening Levels (ug/L) (4)		Potential ARAR/TBC Value	Selected Screening Value (ug/L) (5)	COPC Flag (Y/N)	Rationale for Selection or Deletion (6)
Lakeshore - Groundwater	VOCs															
	78-93-3	2-BUTANONE	3.7 J	110 J	ug/L	WB18-MW-03S	13/52	10-10000	1.10E+02		7.10E+02	n		7.10E+02	N	BSL
	591-78-6	2-HEXANONE	2.1 J	8	ug/L	WB18-MW-02S	4/52	5-5000	8.00E+00		NV			NV	Y	NTX
	108-10-1	4-METHYL-2-PENTANONE	0.71 J	15	ug/L	WB18-MW-01S	5/52	5-5000	1.50E+01		2.00E+02	n		2.00E+02	N	BSL
	67-64-1	ACETONE	11	300 J	ug/L	WB18-MW-02S	8/52	10-10000	3.00E+02		2.20E+03	n		2.20E+03	N	BSL
	71-43-2	BENZENE	0.85	14000	ug/L	WB18-GWS-06S2	51/52	9.1-9.1	1.40E+04		4.10E-01	c		4.10E-01	Y	TOX
	75-15-0	CARBON DISULFIDE	0.37 J	110 J	ug/L	WB18-MW-01S	11/52	0.5-1000	1.10E+02		1.00E+02	n		1.00E+02	Y	ASL
	108-90-7	CHLOROBENZENE	0.47 J	0.76 J	ug/L	WB18-MW-02S	3/52	0.5-500	7.60E-01		9.10E+00	n		9.10E+00	N	BSL
	67-66-3	CHLOROFORM	2.2 J	2.2 J	ug/L	WB18-MW-01I	1/52	0.5-500	2.20E+00		1.90E-01	c		1.90E-01	Y	ASL
	110-82-7	CYCLOHEXANE	0.52 J	3.4	ug/L	WB18-MW-02S	3/21	1-500	3.40E+00		1.30E+03	n		1.30E+03	N	BSL
	100-41-4	ETHYLBENZENE	1.7 J	260	ug/L	WB18-MW-02S	27/52	0.5-500	2.60E+02		1.50E+00	c		1.50E+00	Y	ASL
	98-82-8	ISOPROPYLBENZENE	1.9	19	ug/L	WB18-MW-02S	4/21	1-500	1.90E+01		6.80E+01	n		6.80E+01	N	BSL
	108-87-2	METHYLCYCLOHEXANE	0.39 J	0.42 J	ug/L	WB18-MW-02S	2/21	1-500	4.20E-01		NV			NV	Y	NTX
	75-09-2	METHYLENE CHLORIDE	4.8 J	23 J	ug/L	WB18-GWS-05S	3/52	0.21-2000	2.30E+01		4.80E+00	c		4.80E+00	Y	ASL
	95-47-6	O-XYLENE	0.3 J	750 J	ug/L	WB18-MW-02S	19/21	1-250	7.50E+02		1.40E+02	n		1.40E+02	Y	ASL
	79-09-4	PROPIONIC ACID	8.1	1400	mg/L	WB18-MW-01S	4/5	5-5	1.40E+06		NV			NV	Y	NTX
	100-42-5	STYRENE	5.8 J	540 J	ug/L	WB18-GWS-03S2	11/52	0.5-500	5.40E+02		1.60E+02	n		1.60E+02	Y	ASL
	108-88-3	TOLUENE	0.33 J	9200	ug/L	WB18-MW-03S	39/52	1-500	9.20E+03		2.30E+02	n		2.30E+02	Y	ASL
	75-01-4	VINYL CHLORIDE	0.79 J	2.8	ug/L	WB18-MW-02S	3/52	1-1000	2.80E+00		1.60E-02	c		1.60E-02	N	TOX
	XYLENES1341	XYLENES, M & P[d]	0.86 J	2500 J	ug/L	WB18-MW-02S	15/21	1-210	2.50E+03		2.00E+01	n		2.00E+01	Y	ASL
	1330-20-7	XYLENES, TOTAL	0.16 J	7500	ug/L	WB18-MW-02S	25/31	2.5-300	7.50E+03		2.00E+01	n		2.00E+01	Y	ASL
	OTHER															
	64-19-7	ACETIC ACID	1.3	190	mg/L	WB18-MW-03S	3/5	5-10	1.90E+05		NV			NV	Y	NTX
	7664-41-7	AMMONIA	10	72	mg/L	WB18-MW-01S	7/7	-	7.20E+04		NV			NV	Y	NTX
	24959-67-9	BROMIDE	3.69	86.7	mg/L	WB18-MW-01I	9/9	-	8.67E+04		NV			NV	Y	NTX
	16887-00-6	CHLORIDE	860	79500	mg/L	WB18-MW-01I	52/52	-	7.95E+07		NV			NV	Y	NTX
	64-18-6	FORMIC ACID	9.4	120	mg/L	WB18-MW-03S	4/5	1-1	1.20E+05		7.30E+03	n		7.30E+03	Y	ASL
	74-82-8	METHANE	58	8600	ug/L	WB18-MW-03S	5/5	-	8.60E+03		NV			NV	Y	NTX
	14808-79-8	SULFATE	3.27	4540	mg/L	WB18-MW-01I	51/52	2000-2000	4.54E+06		NV			NV	Y	NTX

Footnotes:
(1) J - estimated value; N - tentatively identified at an estimated value
(2) Concentration used for screening is the maximum detected concentration.
(3) No background screening performed.
(4) USEPA Regional Screening Levels (April 2009) for tap water; C = Cancer RSL; N = Noncancer RSL; NV = No RSL.
Noncancer RSLs adjusted by multiplying RSL by 0.1.
(5) The selected screening values are the USEPA RSLs.
(6) Selection Rationale: ASL - Above Screening Level; NTX - No Toxicity Information; TOX - Class A Carcinogen. Deletion Rationale: BSL - Below Screening Level, NUT - Essential Nutrient.
- = Compound detected in 100% of samples.
a = RSL value for chromium VI utilized.
b = RSL vlaue for arochlor 1254 utilized.
c = RSL value for endosulfan utilized.
d = RSL value for xylenes, total utilized.

Definitions:
ARAR: Applicable or Relevant and Appropriate Requirements
CAS: Chemical Abstact Service
COPC: Compound of Potential Concern
NV: No Value
PCBs: Polychlorinated Biphenyls
SVOCs: Semi-Volatile Organic Compounds
TBC: To Be Considered
USEPA: United States Environmental Protection Agency
VOCs: Volatile Organic Compounds

TABLE 3
STREAMLINED RISK EVALUATION
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL ECOLOGICAL CONCERN
HONEYWELL WASTEBEDS 1-8 SITE- GROUNDWATER
GEDDES, NEW YORK

Scenario Timeframe: Current/Future
Medium: Water
Exposure Medium: Groundwater

Exposure Point	CAS Numbers	Chemical	Minimum Concentration (1)	Maximum Concentration (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (mg/L) (2)	National Recommended Water Quality Criteria- Freshwater CCC (mg/L) (3)	NYSDEC Ambient Water Quality Criteria and Guidance Values (fish propogation) (mg/L) (4)	NYSDEC Ambient Water Quality Criteria and Guidance Values (wildlife protection) (mg/L) (4)	Selected Screening Value (mg/L) (5)	COPEC Flag (Y/N)	Rationale for Selection or Deletion (6)
Lakeshore - Groundwater	METALS														
	7429-90-5	ALUMINUM	0.066 J	70	mg/L	WB18-GWS-01S2	35/52	0.1-4	7.00E+01	8.70E-02	1.00E-01	NV	8.70E-02	Y	ASL
	7440-36-0	ANTIMONY	0.002 J	0.027 J	mg/L	WB18-GWS-03I	7/52	0.0425-3	2.70E-02	NV	NV	NV	NV	Y	NTX
	7440-38-2	ARSENIC	0.0061	0.139	mg/L	WB18-MW-03S	8/52	0.01-0.25	1.39E-01	1.50E-01	1.50E-01	NV	1.50E-01	N	BSL
	7440-39-3	BARIUM	0.034 J	11	mg/L	WB18-GWS-06S	52/52	-	1.10E+01	NV	NV	NV	NV	Y	NTX
	7440-41-7	BERYLLIUM	0.00076 J	0.0043 J	mg/L	WB18-GWS-01S2	6/52	0.00005-0.5	4.30E-03	NV	1.10E+00	NV	1.10E+00	N	BSL
	7440-43-9	CADMIUM	0.0045 J	0.0067 J	mg/L	WB18-MW-03S	2/47	0.0028-0.5	6.70E-03	2.50E-04	8.77E-04	NV	2.50E-04	Y	ASL
	7440-70-2	CALCIUM	430 J	15000 J	mg/L	WB18-GWS-01S2	52/52	-	1.50E+04	NV	NV	NV	NV	Y	KPS
	7440-47-3	CHROMIUM	0.0023 J	1.2 J	mg/L	WB18-GWS-01S2	8/50	0.0066-0.5	1.20E+00	1.10E-02	4.65E-03	NV	4.65E-03	Y	ASL
	7440-50-8	COPPER	0.0091 J	0.37	mg/L	WB18-GWS-01S2	7/52	0.01-0.5	3.70E-01	9.00E-03	2.69E-03	NV	2.69E-03	Y	ASL
	57-12-5	CYANIDE	0.0036 J	0.36	mg/L	WB18-MW-01S	47/52	0.01-0.01	3.60E-01	NV	5.20E-03	NV	5.20E-03	Y	ASL
	7439-89-6	IRON	0.071 J	350	mg/L	WB18-GWS-01S2	37/48	0.0845-2	3.50E+02	1.00E+00	3.00E-01	NV	3.00E-01	Y	ASL
	7439-92-1	LEAD	0.0033 J	0.2 J	mg/L	WB18-GWS-01S2	32/52	0.005-0.25	2.00E-01	2.50E-03	7.39E-04	NV	7.39E-04	Y	ASL
	7439-95-4	MAGNESIUM	0.551	470	mg/L	WB18-GWS-06I	45/52	0.309-5	4.70E+02	NV	NV	NV	NV	N	NUT
	7439-96-5	MANGANESE	0.0054 J	6	mg/L	WB18-GWS-01S2	44/52	0.0053-0.5	6.00E+00	NV	NV	NV	NV	Y	NTX
	7439-97-6	MERCURY	0.00002 J	0.0025	mg/L	WB18-GWS-06S, WB18-GWS-01S	31/48	0.00002-0.0004	2.50E-03	7.70E-04	7.70E-04	2.60E-06	2.60E-06	Y	ASL
	7440-02-0	NICKEL	0.0053 J	0.47 J	mg/L	WB18-GWS-01S2	26/52	0.0087-2.5	4.70E-01	5.20E-02	9.88E-04	NV	9.88E-04	Y	ASL
	7440-09-7	POTASSIUM	13 J	300 J	mg/L	WB18-GWS-02S2	52/52	-	3.00E+02	NV	NV	NV	NV	N	NUT
	7782-49-2	SELENIUM	0.013 J	0.08 J	mg/L	WB18-GWS-06I	7/52	0.005-0.25	8.00E-02	5.00E-03	4.60E-03	NV	4.60E-03	Y	ASL
	7440-22-4	SILVER	0.0047 J	0.01 J	mg/L	WB18-MW-03S	4/52	0.0062-0.5	1.00E-02	NV	1.00E-04	NV	1.00E-04	Y	ASL
	7440-23-5	SODIUM	130	71260	mg/L	WB18-MW-01I	52/52	-	7.13E+04	NV	NV	NV	NV	Y	KPS
	7440-28-0	THALLIUM	0.025 J	1	mg/L	WB18-MW-01I	11/52	0.01-0.158	1.00E+00	NV	8.00E-03	NV	8.00E-03	Y	ASL
	7440-62-2	VANADIUM	0.0017 J	0.13 J	mg/L	WB18-GWS-01S2	14/52	0.0144-2.5	1.30E-01	NV	1.40E-02	NV	1.40E-02	Y	ASL
	7440-66-6	ZINC	0.0057 J	2.2	mg/L	WB18-GWS-01S2	12/52	0.016-0.5	2.20E+00	1.20E-01	4.32E-03	NV	4.32E-03	Y	ASL
	PCBs														
	11100-14-4	AROCLOR-1268	0.34 J	0.34 J	ug/L	WB18-MW-02I	1/52	0.5-1.1	3.40E-04	1.40E-05	NV	1.20E-07	1.20E-07	Y	ASL
	PESTICIDES														
	50-29-3	4,4'-DDT	0.25 JN	0.25 JN	ug/L	WB18-GWS-06S	1/52	0.093-0.22	2.50E-04	1.00E-06	1.10E-08	NV	1.10E-08	Y	ASL
	60-57-1	DIELDRIN	0.099 J	0.11 JN	ug/L	WB18-GWS-04S2	2/52	0.093-0.22	1.10E-04	5.60E-05	5.60E-05	NV	5.60E-05	Y	ASL
	959-98-8	ENDOSULFAN I	0.075	0.075	ug/L	WB18-MW-02S	1/52	0.047-0.11	7.50E-05	5.60E-05	NV	NV	5.60E-05	Y	ASL
	1024-57-3	HEPTACHLOR EPOXIDE	0.13 J	0.19 JN	ug/L	WB18-GWS-05I	2/52	0.047-0.11	1.90E-04	3.80E-06	NV	NV	3.80E-06	Y	ASL
	SVOCs														
	6165-52-2	1-PHENYL-1-(2,4-DIMETHYLPHENYL) ETHANE	0.83 J	3.7 J	ug/L	WB18-MW-02S	4/14	9.4-300	3.70E-03	NV	NV	NV	NV	Y	NTX
	3717-68-8	1-PHENYL-1-(4-METHYLPHENYL) ETHANE	1.8 J	2.4 J	ug/L	WB18-MW-09S	3/14	9.4-300	2.40E-03	NV	NV	NV	NV	Y	NTX
	105-67-9	2,4-DIMETHYLPHENOL	1 J	4.4 J	ug/L	WB18-MW-01S	11/52	9.4-1000	4.40E-03	NV	NV	NV	NV	Y	NTX
	95-57-8	2-CHLOROPHENOL	1.8 J	7.3 J	ug/L	WB18-MW-03S	5/52	9.4-1000	7.30E-03	NV	NV	NV	NV	Y	NTX
	91-57-6	2-METHYLNAPHTHALENE	2.4 J	63 J	ug/L	WB18-GWS-03S2	18/52	9.4-1000	6.30E-02	NV	4.70E-03	NV	4.70E-03	Y	ASL
	95-48-7	2-METHYLPHENOL	1.4 J	440	ug/L	WB18-GWS-06S2	39/52	9.4-1000	4.40E-01	NV	NV	NV	NV	Y	NTX
	106-44-5	4-METHYLPHENOL	2.4 J	3600	ug/L	WB18-MW-03S	42/52	9.4-1000	3.60E+00	NV	NV	NV	NV	Y	NTX
	98-86-2	ACETOPHENONE	2.7 J	90 J	ug/L	WB18-MW-02S	11/21	9.4-300	9.00E-02	NV	NV	NV	NV	Y	NTX
	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	1.6 J	6.1 J	ug/L	WB18-MW-09I	4/52	9.4-1000	6.10E-03	NV	6.00E-04	NV	6.00E-04	Y	ASL
	132-64-9	DIBENZOFURAN	1.2 J	1.2 J	ug/L	WB18-GWS-02S	1/52	9.4-1000	1.20E-03	NV	NV	NV	NV	Y	NTX
	84-66-2	DIETHYL PHTHALATE	0.47 J	0.47 J	ug/L	WB18-MW-09I	1/52	9.4-1000	4.70E-04	NV	NV	NV	NV	Y	NTX
	84-74-2	DI-N-BUTYL PHTHALATE	1.8 J	2.6 J	ug/L	WB18-MW-09S	3/52	9.4-1000	2.60E-03	NV	NV	NV	NV	Y	NTX
	117-84-0	DI-N-OCTYL PHTHALATE	1.5 J	1.5 J	ug/L	WB18-GWS-04S	1/52	9.4-1000	1.50E-03	NV	NV	NV	NV	Y	NTX
	91-20-3	NAPHTHALENE	1.1 J	5900	ug/L	WB18-GWS-03S2	50/52	200-500	5.90E+00	NV	1.30E-02	NV	1.30E-02	Y	ASL
	85-01-8	PHENANTHRENE	0.46 J	1.6 J	ug/L	WB18-MW-02S	5/52	9.4-1000	1.60E-03	NV	5.00E-03	NV	5.00E-03	N	BSL
	108-95-2	PHENOL	1.5 J	2400	ug/L	WB18-MW-03S	48/52	9.4-1000	2.40E+00	NV	NV	NV	NV	Y	NTX
	VOCs														
	78-93-3	2-BUTANONE	3.7 J	110 J	ug/L	WB18-MW-03S	13/52	10-10000	1.10E-01	NV	NV	NV	NV	Y	NTX
	591-78-6	2-HEXANONE	2.1 J	8	ug/L	WB18-MW-02S	4/52	5-5000	8.00E-03	NV	NV	NV	NV	Y	NTX
	108-10-1	4-METHYL-2-PENTANONE	0.71 J	15	ug/L	WB18-MW-01S	5/52	5-5000	1.50E-02	NV	NV	NV	NV	Y	NTX
	67-64-1	ACETONE	11	300 J	ug/L	WB18-MW-02S	8/52	10-10000	3.00E-01	NV	NV	NV	NV	Y	NTX
	71-43-2	BENZENE	0.85	14000	ug/L	WB18-GWS-06S2	51/52	9.1-9.1	1.40E+01	NV	2.10E-01	NV	2.10E-01	Y	ASL
	75-15-0	CARBON DISULFIDE	0.37 J	110 J	ug/L	WB18-MW-01S	11/52	0.5-1000	1.10E-01	NV	NV	NV	NV	Y	NTX
	108-90-7	CHLOROBENZENE	0.47 J	0.76 J	ug/L	WB18-MW-02S	3/52	0.5-500	7.60E-04	NV	5.00E-03	NV	5.00E-03	N	BSL
	67-66-3	CHLOROFORM	2.2 J	2.2 J	ug/L	WB18-MW-01I	1/52	0.5-500	2.20E-03	NV	NV	NV	NV	Y	NTX
	110-82-7	CYCLOHEXANE	0.52 J	3.4	ug/L	WB18-MW-02S	3/21	1-500	3.40E-03	NV	NV	NV	NV	Y	NTX
	100-41-4	ETHYLBENZENE	1.7 J	260	ug/L	WB18-MW-02S	27/52	0.5-500	2.60E-01	NV	1.70E-02	NV	1.70E-02	Y	ASL
	98-82-8	ISOPROPYLBENZENE	1.9	19	ug/L	WB18-MW-02S	4/21	1-500	1.90E-02	NV	2.60E-03	NV	2.60E-03	Y	ASL
	108-87-2	METHYLCYCLOHEXANE	0.39 J	0.42 J	ug/L	WB18-MW-02S	2/21	1-500	4.20E-04	NV	NV	NV	NV	Y	NTX

TABLE 3
STREAMLINED RISK EVALUATION
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL ECOLOGICAL CONCERN
HONEYWELL WASTEBEDS 1-8 SITE- GROUNDWATER
GEDDES, NEW YORK

Scenario Timeframe: Current/Future
Medium: Water
Exposure Medium: Groundwater

Exposure Point	CAS Numbers	Chemical	Minimum Concentration (1)	Maximum Concentration (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (mg/L) (2)	National Recommended Water Quality Criteria Freshwater CCC (mg/L) (3)	NYSDEC Ambient Water Quality Criteria and Guidance Values (fish propogation) (mg/L) (4)	NYSDEC Ambient Water Quality Criteria and Guidance Values (wildlife protection) (mg/L) (4)	Selected Screening Value (mg/L) (5)	COPEC Flag (Y/N)	Rationale for Selection or Deletion (6)
Lakeshore - Groundwater	75-09-2	METHYLENE CHLORIDE	4.8 J	23 J	ug/L	WB18-GWS-05S	3/52	0.21-2000	2.30E-02	NV	NV	NV	NV	Y	NTX
	95-47-6	O-XYLENE	0.3 J	750 J	ug/L	WB18-MW-02S	19/21	1-250	7.50E-01	NV	6.50E-02	NV	6.50E-02	Y	ASL
	79-09-4	PROPIONIC ACID	8.1	1400	mg/L	WB18-MW-01S	4/5	5-5	1.40E+00	NV	NV	NV	NV	Y	NTX
	100-42-5	STYRENE	5.8 J	540 J	ug/L	WB18-GWS-03S2	11/52	0.5-500	5.40E-01	NV	NV	NV	NV	Y	NTX
	108-88-3	TOLUENE	0.33 J	9200	ug/L	WB18-MW-03S	39/52	1-500	9.20E+00	NV	1.00E-01	NV	1.00E-01	Y	ASL
	75-01-4	VINYL CHLORIDE	0.79 J	2.8	ug/L	WB18-MW-02S	3/52	1-1000	2.80E-03	NV	NV	NV	NV	Y	NTX
	XYLENES1314	XYLENES, M & P[a]	0.86 J	2500 J	ug/L	WB18-MW-02S	15/21	1-210	2.50E+00	NV	6.50E-02	NV	6.50E-02	Y	ASL
	1330-20-7	XYLENES, TOTAL	0.16 J	7500	ug/L	WB18-MW-02S	25/31	2.5-300	7.50E+00	NV	6.50E-02	NV	6.50E-02	Y	ASL
	OTHER														
	64-19-7	ACETIC ACID	1.3	190	mg/L	WB18-MW-03S	3/5	5-10	1.90E+02	NV	NV	NV	NV	Y	NTX
	7664-41-7	AMMONIA	10	72	mg/L	WB18-MW-01S	7/7	-	7.20E+01	NV	NV	NV	NV	Y	NTX
	24959-67-9	BROMIDE	3.69	86.7	mg/L	WB18-MW-01I	9/9	-	8.67E+01	NV	NV	NV	NV	Y	NTX
	16887-00-6	CHLORIDE	860	79500	mg/L	WB18-MW-01I	52/52	-	7.95E+04	2.30E+02	NV	NV	2.30E+02	Y	ASL
	64-18-6	FORMIC ACID	9.4	120	mg/L	WB18-MW-03S	4/5	1-1	1.20E+02	NV	NV	NV	NV	Y	NTX
	74-82-8	METHANE	58	8600	ug/L	WB18-MW-03S	5/5	-	8.60E+00	NV	NV	NV	NV	Y	NTX
	14808-79-8	SULFATE	3.27	4540	mg/L	WB18-MW-01I	51/52	2000-2000	4.54E+00	NV	NV	NV	NV	Y	NTX

Footnotes:
(1) J - estimated value; N - tentatively identified at an estimated value
(2) Concentration used for screening is the maximum detected concentration.
(3) Values are from USEPA, 2007. Current National Recommended Water Quality Criteria. Available online at: http://www.epa.gov/waterscience/criteria/wqcriteria.html
(4) Values are from NYSDEC TOGS 111, New York State Ambient Water Quality Criteria and Guidance Values, 1998. The lowest of the standard and guidance values was utilized. For hardness dependent values, maximum hardness of 840 mg/L used as representative surface water hardness.
(5) The Screening Toxicity Value represents the minimum of the presented values.
(6) Rationale: ASL - Above Screening Level; NTX - No Toxicity Information; KPS - Known Physical Stressor; BSL - Below Screening Level; NUT - Compound is an essential nutrient
Compounds are selected as COPECs if the selected screening concentration is greater than the selected criteria or if there are no screening criteria available.
- = Compound detected in 100% of samples.
a = Values for xylenes, total utilized.

Definitions:
ARAR: Applicable or Relevant and Appropriate Requirements
CAS: Chemical Abstact Service
COPEC: Compound of Potential Ecological Concern
NV: No Value
NYSDEC: New York State Department of Environmental Conservation
PCBs: Polychlorinated Biphenyls
PEST: Pesticides
SVOCs: Semi-Volatile Organic Compounds
TBC: To Be Considered
USEPA: United States Environmental Protection Agency
VOCs: Volatile Organic Compounds

TABLE 4
STREAMLINED RISK EVALUATION
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
HONEYWELL WASTEBEDS 1-8 SITE- GROUNDWATER
GEDDES, NEW YORK

Scenario Timeframe: Current/Future
Medium: Water
Exposure Medium: Groundwater

Exposure Point	CAS Numbers	Chemical	Minimum Concentration (1)	Maximum Concentration (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (ug/L) (2)	Background Value (3)	USEPA Regional Screening Levels (ug/L) (4)		Potential ARAR/TBC Value	Selected Screening Value (ug/L) (5)	COPC Flag (Y/N)	Rationale for Selection or Deletion (6)
NMCSG	METALS															
Groundwater	7429-90-5	ALUMINUM	0.234	1.82	mg/L	WB18-MW-28G	2/9	1-1	1.82E+03		3.70E+03	n		3.70E+03	N	BSL
	7440-38-2	ARSENIC	0.0074 J	0.0146 J	mg/L	WB18-MW-18G	2/9	0.05-0.05	1.46E+01		4.50E-02	c		4.50E-02	Y	TOX
	7440-39-3	BARIUM	1.38	15.3	mg/L	WB18-MW-04G	9/9	-	1.53E+04		7.30E+02	n		7.30E+02	Y	ASL
	7440-43-9	CADMIUM	0.0009 J	0.0009 J	mg/L	WB18-MW-04G	1/9	0.005-0.025	9.00E-01		1.8E+00	n		1.80E+00	N	BSL
	7440-70-2	CALCIUM	7580	20000	mg/L	WB18-MW-27G	9/9	-	2.00E+07		NV			NV	N	NUT
	7440-47-3	CHROMIUM[a]	0.0032 J	0.0159 J	mg/L	WB18-MW-18G	8/9	0.025-0.025	1.59E+01		1.10E+01	n		1.10E+01	Y	ASL
	7440-50-8	COPPER	0.0159 J	0.0526 J	mg/L	WB18-MW-04G	4/9	0.125-0.125	5.26E+01		1.50E+02	n		1.50E+02	N	BSL
	57-12-5	CYANIDE	0.0382 J	1.37 J	mg/L	WB18-MW-25G	8/9	0.01-0.01	1.37E+03		7.30E+01	n		7.30E+01	Y	ASL
	7439-89-6	IRON	1.41 J	41.9 J	mg/L	WB18-MW-04G	8/9	0.5-0.5	4.19E+04		2.60E+03	n		2.60E+03	Y	ASL
	7439-95-4	MAGNESIUM	2.08 J	137	mg/L	WB18-MW-24G	9/9	-	1.37E+05		NV			NV	N	NUT
	7439-96-5	MANGANESE	0.0455 J	4.11 J	mg/L	WB18-MW-04G	9/9	-	4.11E+03		8.8E+01	n		8.80E+01	Y	ASL
	7439-97-6	MERCURY	0.000049 J	0.00039	mg/L	WB18-MW-25G	4/9	0.0002-0.0002	3.90E-01		5.70E-02	n		5.70E-02	Y	ASL
	7440-02-0	NICKEL	0.0094 J	0.0507 J	mg/L	WB18-MW-25G	7/9	0.2-0.2	5.07E+01		7.30E+01	n		7.30E+01	N	BSL
	7440-09-7	POTASSIUM	184 J	511 J	mg/L	WB18-MW-27G	9/9	-	5.11E+05		NV			NV	N	NUT
	7440-23-5	SODIUM	4880	25200	mg/L	WB18-MW-24G	9/9	-	2.52E+07		NV			NV	N	NUT
	7440-62-2	VANADIUM	0.0078 B	0.0144 J	mg/L	WB18-MW-24G	2/9	0.25-0.25	1.44E+01		2.60E+01	n		2.60E+01	N	BSL
	7440-66-6	ZINC	0.0128 J	0.0234 J	mg/L	WB18-MW-04G	7/9	0.02-0.1	2.34E+01		1.10E+03	n		1.10E+03	N	BSL
	SVOC															
	105-67-9	2,4-DIMETHYLPHENOL	1 J	3.9 J	ug/L	WB18-MW-29G	5/9	24-66	3.90E+00		7.30E+01	n		7.30E+01	N	BSL
	95-57-8	2-CHLOROPHENOL	0.96 J	3.6 J	ug/L	WB18-MW-30G	4/9	0.94-47	3.60E+00		NV			NV	Y	NTX
	91-57-6	2-METHYLNAPHTHALENE	3.4 J	3.4 J	ug/L	WB18-MW-27G	1/9	0.19-13	3.40E+00		1.50E+01	n		1.50E+01	N	BSL
	95-48-7	2-METHYLPHENOL	0.93 J	670	ug/L	WB18-MW-30G	9/9	-	6.70E+02		1.80E+02	n		1.80E+02	Y	ASL
	106-44-5	4-METHYLPHENOL	0.52 J	1400	ug/L	WB18-MW-29G, WB18-MW-27G	9/9	-	1.40E+03		1.80E+01	n		1.80E+01	Y	ASL
	98-86-2	ACETOPHENONE	0.11 J	0.11 J	ug/L	WB18-MW-26G	1/9	9.4-66	1.10E-01		3.70E+02	n		3.70E+02	N	BSL
	56-55-3	BENZO(A)ANTHRACENE	0.079 J	0.079 J	ug/L	WB18-MW-26G	1/9	1.9-13	7.90E-02		2.90E-02	c		2.90E-02	Y	ASL
	50-32-8	BENZO(A)PYRENE	0.054 J	0.054 J	ug/L	WB18-MW-26G	1/9	1.9-13	5.40E-02		2.90E-03	c		2.90E-03	Y	ASL
	191-24-2	BENZO(GHI)PERYLENE	0.076 J	0.076 J	ug/L	WB18-MW-26G	1/9	1.9-13	7.60E-02		NV			NV	Y	NTX
	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	0.87 J	3.5 J	ug/L	WB18-MW-29G	2/9	9.4-66	3.50E+00		4.80E+00	c		4.80E+00	N	BSL
	218-01-9	CHRYSENE	0.07 J	0.07 J	ug/L	WB18-MW-26G	1/9	1.9-13	7.00E-02		2.90E+00	c		2.90E+00	N	BSL
	53-70-3	DIBENZ(A,H)ANTHRACENE	0.23	0.23	ug/L	WB18-MW-26G	1/9	1.9-13	2.30E-01		2.90E-03	c		2.90E-03	Y	ASL
	84-66-2	DIETHYL PHTHALATE	0.2 J	0.49 J	ug/L	WB18-MW-18G	2/9	9.4-66	4.90E-01		2.90E+03	n		2.90E+03	N	BSL
	84-74-2	DI-N-BUTYL PHTHALATE	0.044 J	0.044 J	ug/L	WB18-MW-26G	1/9	9.4-66	4.40E-02		3.70E+02	n		3.70E+02	N	BSL
	117-84-0	DI-N-OCTYL PHTHALATE	0.34 J	0.34 J	ug/L	WB18-MW-26G	1/9	9.4-66	3.40E-01		NV			NV	Y	NTX
	206-44-0	FLUORANTHENE	0.023 J	0.023 J	ug/L	WB18-MW-26G	1/9	1.9-13	2.30E-02		1.50E+02	n		1.50E+02	N	BSL
	86-73-7	FLUORENE	0.035 J	0.035 J	ug/L	WB18-MW-26G	1/9	1.9-13	3.50E-02		1.50E+02	n		1.50E+02	N	BSL
	193-39-5	INDENO(1,2,3-CD)PYRENE	0.28	0.28	ug/L	WB18-MW-26G	1/9	1.9-13	2.80E-01		2.90E-02	c		2.90E-02	Y	ASL
	78-59-1	ISOPHORONE	3.4 J	3.4 J	ug/L	WB18-MW-30G	1/9	0.94-47	3.40E+00		7.10E+01	c		7.10E+01	N	BSL
	91-20-3	NAPHTHALENE	0.42	100	ug/L	WB18-MW-27G	2/9	1.9-13	1.00E+02		1.40E-01	c		1.40E-01	Y	ASL
	85-01-8	PHENANTHRENE	0.058 J	0.058 J	ug/L	WB18-MW-26G	1/9	1.9-13	5.80E-02		NV			NV	Y	NTX
	108-95-2	PHENOL	0.55 J	1800	ug/L	WB18-MW-30G	9/9	-	1.80E+03		1.10E+03	n		1.10E+03	Y	ASL
	129-00-0	PYRENE	0.016 J	0.016 J	ug/L	WB18-MW-26G	1/9	1.9-13	1.60E-02		1.10E+02	n		1.10E+02	N	BSL
NMCSG	VOC															
Groundwater	78-93-3	2-BUTANONE	25 J	100	ug/L	WB18-MW-24G	4/9	5-500	1.00E+02		7.10E+02	n		7.10E+02	N	BSL
	591-78-6	2-HEXANONE	1.8 J	11 J	ug/L	WB18-MW-30G	4/9	12-500	1.10E+01		NV			NV	Y	NTX
	108-10-1	4-METHYL-2-PENTANONE	3 J	4.6 J	ug/L	WB18-MW-30G	4/9	25-500	4.60E+00		2.00E+02	n		2.00E+02	N	BSL
	67-64-1	ACETONE	82 J	350	ug/L	WB18-MW-30G	5/9	20-2000	3.50E+02		2.20E+03	n		2.20E+03	N	BSL
	71-43-2	BENZENE	29	6600	ug/L	WB18-MW-27G	7/9	15-25	6.60E+03		4.10E-01	c		4.10E-01	Y	TOX
	75-09-2	METHYLENE CHLORIDE	9.8 J	16 J	ug/L	WB18-MW-28G	3/9	5-500	1.60E+01		4.80E+00	c		4.80E+00	Y	ASL
	108-88-3	TOLUENE	14	3000	ug/L	WB18-MW-27G	2/9	5-50	3.00E+03		2.30E+02	n		2.30E+02	Y	ASL

Footnotes:
(1) J - estimated value; N - tentatively identified at an estimated value
(2) Concentration used for screening is the maximum detected concentration.
(3) No background screening performed.
(4) USEPA Regional Screening Levels (April 2009) for tap water; C = Cancer RSL; N = Noncancer RSL; NV = No RSL.
Noncancer RSLs adjusted by multiplying RSL by 0.1.
(5) The selected screening values are the USEPA RSLs.
(6) Selection Rationale: ASL - Above Screening Level; NTX - No Toxicity Information; TOX - Class A Carcinogen. Deletion Rationale: BSL - Below Screening Level, NUT - Essential Nutrient.
- = Compound detected in 100% of samples.
a = RSL value for chromium VI utilized.

Definitions:
ARAR: Applicable or Relevant and Appropriate Requirements
CAS: Chemical Abstact Service
COPC: Compound of Potential Concern
NV: No Value
PCBs: Polychlorinated Biphenyls
SVOCs: Semi-Volatile Organic Compounds
TBC: To Be Considered
USEPA: United States Environmental Protection Agency
VOCs: Volatile Organic Compounds

TABLE 5
STREAMLINED RISK EVALUATION
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL ECOLOGICAL CONCERN
HONEYWELL WASTEBEDS 1-8 SITE- GROUNDWATER
GEDDES, NEW YORK

Scenario Timeframe: Current/Future
Medium: Water
Exposure Medium: Groundwater

Exposure Point	CAS Numbers	Chemical	Minimum Concentration (1)	Maximum Concentration (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (mg/L) (2)	National Recommended Water Quality Criteria- Freshwater CCC (mg/L) (3)	NYSDEC Ambient Water Quality Criteria and Guidance Values (fish propogation) (mg/L) (4)	NYSDEC Ambient Water Quality Criteria and Guidance Values (wildlife protection) (mg/L) (4)	Selected Screening Value (mg/L) (5)	COPEC Flag (Y/N)	Rationale for Selection or Deletion (6)
NMCSG Groundwater	METALS														
	7429-90-5	ALUMINUM	0.234	1.82	mg/L	WB18-MW-28G	2/9	1-1	1.82E+00	8.70E-02	1.00E-01	NV	8.70E-02	Y	ASL
	7440-38-2	ARSENIC	0.0074 J	0.0146 J	mg/L	WB18-MW-18G	2/9	0.05-0.05	1.46E-02	1.50E-01	1.50E-01	NV	1.50E-01	N	BSL
	7440-39-3	BARIUM	1.38	15.3	mg/L	WB18-MW-04G	9/9	-	1.53E+01	NV	NV	NV	NV	Y	NTX
	7440-43-9	CADMIUM	0.0009 J	0.0009 J	mg/L	WB18-MW-04G	1/9	0.005-0.025	9.00E-04	2.50E-04	8.77E-04	NV	2.50E-04	Y	ASL
	7440-70-2	CALCIUM	7580	20000	mg/L	WB18-MW-27G	9/9	-	2.00E+04	NV	NV	NV	NV	Y	KPS
	7440-47-3	CHROMIUM	0.0032 J	0.0159 J	mg/L	WB18-MW-18G	8/9	0.025-0.025	1.59E-02	1.10E-02	4.65E-03	NV	4.65E-03	Y	ASL
	7440-50-8	COPPER	0.0159 J	0.0526 J	mg/L	WB18-MW-04G	4/9	0.125-0.125	5.26E-02	9.00E-03	2.69E-03	NV	2.69E-03	Y	ASL
	57-12-5	CYANIDE	0.0382 J	1.37 J	mg/L	WB18-MW-25G	8/9	0.01-0.01	1.37E+00	NV	5.20E-03	NV	5.20E-03	Y	ASL
	7439-89-6	IRON	1.41 J	41.9 J	mg/L	WB18-MW-04G	8/9	0.5-0.5	4.19E+01	1.00E+00	3.00E-01	NV	3.00E-01	Y	ASL
	7439-95-4	MAGNESIUM	2.08 J	137	mg/L	WB18-MW-24G	9/9	-	1.37E+02	NV	NV	NV	NV	N	NUT
	7439-96-5	MANGANESE	0.0455 J	4.11 J	mg/L	WB18-MW-04G	9/9	-	4.11E+00	NV	NV	NV	NV	Y	NTX
	7439-97-6	MERCURY	0.000049 J	0.00039	mg/L	WB18-MW-25G	4/9	0.0002-0.0002	3.90E-04	7.70E-04	7.70E-04	2.60E-06	2.60E-06	Y	ASL
	7440-02-0	NICKEL	0.0094 J	0.0507 J	mg/L	WB18-MW-25G	7/9	0.2-0.2	5.07E-02	5.20E-02	9.88E-04	NV	9.88E-04	Y	ASL
	7440-09-7	POTASSIUM	184 J	511 J	mg/L	WB18-MW-27G	9/9	-	5.11E+02	NV	NV	NV	NV	N	NUT
	7440-23-5	SODIUM	4880	25200	mg/L	WB18-MW-24G	9/9	-	2.52E+04	NV	NV	NV	NV	Y	KPS
	7440-62-2	VANADIUM	0.0078 B	0.0144 J	mg/L	WB18-MW-24G	2/9	0.25-0.25	1.44E-02	NV	1.40E-02	NV	1.40E-02	Y	ASL
	7440-66-6	ZINC	0.0128 J	0.0234 J	mg/L	WB18-MW-04G	7/9	0.02-0.1	2.34E-02	1.20E-01	4.32E-03	NV	4.32E-03	Y	ASL
	SVOCs														
	105-67-9	2,4-DIMETHYLPHENOL	1 J	3.9 J	ug/L	WB18-MW-29G	5/9	24-66	3.90E-03	NV	NV	NV	NV	Y	NTX
	95-57-8	2-CHLOROPHENOL	0.96 J	3.6 J	ug/L	WB18-MW-30G	4/9	0.94-47	3.60E-03	NV	NV	NV	NV	Y	NTX
	91-57-6	2-METHYLNAPHTHALENE	3.4 J	3.4 J	ug/L	WB18-MW-27G	1/9	0.19-13	3.40E-03	NV	4.70E-03	NV	4.70E-03	N	BSL
	95-48-7	2-METHYLPHENOL	0.93 J	670	ug/L	WB18-MW-30G	9/9	-	6.70E-01	NV	NV	NV	NV	Y	NTX
	106-44-5	4-METHYLPHENOL	0.52 J	1400	ug/L	WB18-MW-29G, WB18-MW-27G	9/9	-	1.40E+00	NV	NV	NV	NV	Y	NTX
	98-86-2	ACETOPHENONE	0.11 J	0.11 J	ug/L	WB18-MW-26G	1/9	9.4-66	1.10E-04	NV	NV	NV	NV	Y	NTX
	56-55-3	BENZO(A)ANTHRACENE	0.079 J	0.079 J	ug/L	WB18-MW-26G	1/9	1.9-13	7.90E-05	NV	3.00E-05	NV	3.00E-05	Y	ASL
	50-32-8	BENZO(A)PYRENE	0.054 J	0.054 J	ug/L	WB18-MW-26G	1/9	1.9-13	5.40E-05	NV	NV	NV	NV	Y	NTX
	191-24-2	BENZO(GHI)PERYLENE	0.076 J	0.076 J	ug/L	WB18-MW-26G	1/9	1.9-13	7.60E-05	NV	NV	NV	NV	Y	NTX
	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	0.87 J	3.5 J	ug/L	WB18-MW-29G	2/9	9.4-66	3.50E-03	NV	6.00E-04	NV	6.00E-04	Y	ASL
	218-01-9	CHRYSENE	0.07 J	0.07 J	ug/L	WB18-MW-26G	1/9	1.9-13	7.00E-05	NV	NV	NV	NV	Y	NTX
	53-70-3	DIBENZ(A,H)ANTHRACENE	0.23	0.23	ug/L	WB18-MW-26G	1/9	1.9-13	2.30E-04	NV	NV	NV	NV	Y	NTX
	84-66-2	DIETHYL PHTHALATE	0.2 J	0.49 J	ug/L	WB18-MW-18G	2/9	9.4-66	4.90E-04	NV	NV	NV	NV	Y	NTX
	84-74-2	DI-N-BUTYL PHTHALATE	0.044 J	0.044 J	ug/L	WB18-MW-26G	1/9	9.4-66	4.40E-05	NV	NV	NV	NV	Y	NTX
	117-84-0	DI-N-OCTYL PHTHALATE	0.34 J	0.34 J	ug/L	WB18-MW-26G	1/9	9.4-66	3.40E-04	NV	NV	NV	NV	Y	NTX
	206-44-0	FLUORANTHENE	0.023 J	0.023 J	ug/L	WB18-MW-26G	1/9	1.9-13	2.30E-05	NV	NV	NV	NV	Y	NTX
	86-73-7	FLUORENE	0.035 J	0.035 J	ug/L	WB18-MW-26G	1/9	1.9-13	3.50E-05	NV	5.40E-04	NV	5.40E-04	N	BSL
	193-39-5	INDENO(1,2,3-CD)PYRENE	0.28	0.28	ug/L	WB18-MW-26G	1/9	1.9-13	2.80E-04	NV	NV	NV	NV	Y	NTX
	78-59-1	ISOPHORONE	3.4 J	3.4 J	ug/L	WB18-MW-30G	1/9	0.94-47	3.40E-03	NV	NV	NV	NV	Y	NTX
	91-20-3	NAPHTHALENE	0.42	100	ug/L	WB18-MW-27G	2/9	1.9-13	1.00E-01	NV	1.30E-02	NV	1.30E-02	Y	ASL
	85-01-8	PHENANTHRENE	0.058 J	0.058 J	ug/L	WB18-MW-26G	1/9	1.9-13	5.80E-05	NV	5.00E-03	NV	5.00E-03	N	BSL
	108-95-2	PHENOL	0.55 J	1800	ug/L	WB18-MW-30G	9/9	-	1.80E+00	NV	NV	NV	NV	Y	NTX
	129-00-0	PYRENE	0.016 J	0.016 J	ug/L	WB18-MW-26G	1/9	1.9-13	1.60E-05	NV	4.60E-03	NV	4.60E-03	N	BSL

TABLE 5
STREAMLINED RISK EVALUATION
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL ECOLOGICAL CONCERN
HONEYWELL WASTEBEDS 1-8 SITE- GROUNDWATER
GEDDES, NEW YORK

Scenario Timeframe: Current/Future
Medium: Water
Exposure Medium: Groundwater

Exposure Point	CAS Numbers	Chemical	Minimum Concentration (1)	Maximum Concentration (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (mg/L) (2)	National Recommended Water Quality Criteria- Freshwater CCC (mg/L) (3)	NYSDEC Ambient Water Quality Criteria and Guidance Values (fish propogation) (mg/L) (4)	NYSDEC Ambient Water Quality Criteria and Guidance Values (wildlife protection) (mg/L) (4)	Selected Screening Value (mg/L) (5)	COPEC Flag (Y/N)	Rationale for Selection or Deletion (6)
NMCSG Groundwater	VOCs														
	78-93-3	2-BUTANONE	25 J	100	ug/L	WB18-MW-24G	4/9	5-500	1.00E-01	NV	NV	NV	NV	Y	NTX
	591-78-6	2-HEXANONE	1.8 J	11 J	ug/L	WB18-MW-30G	4/9	12-500	1.10E-02	NV	NV	NV	NV	Y	NTX
	108-10-1	4-METHYL-2-PENTANONE	3 J	4.6 J	ug/L	WB18-MW-30G	4/9	25-500	4.60E-03	NV	NV	NV	NV	Y	NTX
	67-64-1	ACETONE	82 J	350	ug/L	WB18-MW-30G	5/9	20-2000	3.50E-01	NV	NV	NV	NV	Y	NTX
	71-43-2	BENZENE	29	6600	ug/L	WB18-MW-27G	7/9	15-25	6.60E+00	NV	2.10E-01	NV	2.10E-01	Y	ASL
	75-09-2	METHYLENE CHLORIDE	9.8 J	16 J	ug/L	WB18-MW-28G	3/9	5-500	1.60E-02	NV	NV	NV	NV	Y	NTX
	108-88-3	TOLUENE	14	3000	ug/L	WB18-MW-27G	2/9	5-50	3.00E+00	NV	1.00E-01	NV	1.00E-01	Y	ASL

Footnotes:
(1) J - estimated value; N - tentatively identified at an estimated value
(2) Concentration used for screening is the maximum detected concentration.
(3) Values are from USEPA, 2007. Current National Recommended Water Quality Criteria. Available online at: http://www.epa.gov/waterscience/criteria/wqcriteria.html
(4) Values are from NYSDEC TOGS 111, New York State Ambient Water Quality Criteria and Guidance Values, 1998. The lowest of the standard and guidance values was utilized. For hardness dependent values, maximum hardness of 840 mg/L used as representative surface water hardness.
(5) The Screening Toxicity Value represents the minimum of the presented values.
(6) Rationale: ASL - Above Screening Level; NTX - No Toxicity Information; KPS - Known Physical Stressor; BSL - Below Screening Level; NUT - Compound is an essential nutrient Compounds are selected as COPECs if the selected screening concentration is greater than the selected criteria or if there are no screening criteria available.
- = Compound detected in 100% of samples.

Definitions:
ARAR: Applicable or Relevant and Appropriate Requirements
CAS: Chemical Abstact Service
COPEC: Compound of Potential Ecological Concern
NV: No Value
NYSDEC: New York State Department of Environmental Conservation
PCBs: Polychlorinated Biphenyls
PEST: Pesticides
SVOCs: Semi-Volatile Organic Compounds
TBC: To Be Considered
USEPA: United States Environmental Protection Agency
VOCs: Volatile Organic Compounds

TABLE 6
STREAMLINED RISK EVALUATION
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
HONEYWELL WASTEBEDS 1-8 SITE- SURFACE SOIL
GEDDES, NY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Surface Soil (0-2 ft bgs)

Exposure Point	CAS Numbers	Chemical	Minimum Concentration (1)	Maximum Concentration (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (mg/kg) (2)	Background Value (3)	Regional Screening Levels (mg/kg) (4)		Potential ARAR/TBC Value	Selected Screening Value (mg/kg) (5)	COPC Flag (Y/N)	Rationale for Selection or Deletion (6)
Onondaga Lake Shoreline - Surface Soil	METALS															
	7429-90-5	ALUMINUM	1410	9600	mg/kg	WB18-SS-01	29/29	-	9.60E+03		7.70E+03	n		7.70E+03	Y	ASL
	7440-36-0	ANTIMONY	0.18 J	0.57 J	mg/kg	WB18-SS-08	9/29	0.58-16	5.70E-01		3.10E+00	n		3.10E+00	N	BSL
	7440-38-2	ARSENIC	2.8	13	mg/kg	WB18-SS-01	29/29	-	1.30E+01		3.90E-01	c		3.90E-01	Y	TOX
	7440-39-3	BARIUM	6.6 J	2350 J	mg/kg	WB18-SB-165	29/29	-	2.35E+03		1.50E+03	n		1.50E+03	Y	ASL
	7440-41-7	BERYLLIUM	0.18 J	1.1 J	mg/kg	WB18-SS-03	24/29	0.18-0.6	1.10E+00		1.60E+01	n		1.60E+01	N	BSL
	7440-43-9	CADMIUM	0.071 J	16	mg/kg	WB18-SS-03	21/29	0.62-2.9	1.60E+01		7.00E+00	n		7.00E+00	Y	ASL
	7440-70-2	CALCIUM	230000 J	420000 J	mg/kg	WB18-SS-03	29/29	-	4.20E+05		NV			NV	N	NUT
	7440-47-3	CHROMIUM	6.2 J	340	mg/kg	WB18-SS-03	29/29	-	3.40E+02		2.80E+02	c		2.80E+02	Y	ASL
	7440-48-4	COBALT	0.2 J	8.1	mg/kg	WB18-SS-59	26/29	12-14	8.10E+00		2.30E+00	n		2.30E+00	Y	ASL
	7440-50-8	COPPER	3.3	190	mg/kg	WB18-SS-03	29/29	-	1.90E+02		3.10E+02	n		3.10E+02	N	BSL
	57-12-5	CYANIDE	0.56 J	13 J	mg/kg	WB18-SS-10	29/29	-	1.30E+01		1.60E+02	n		1.60E+02	N	BSL
	7439-89-6	IRON	1690 J	9600	mg/kg	WB18-SS-01	29/29	-	9.60E+03		5.50E+03	n		5.50E+03	Y	ASL
	7439-92-1	LEAD	1.9 J	260	mg/kg	WB18-SS-03	29/29	-	2.60E+02		4.00E+01	n		4.00E+01	Y	ASL
	7439-95-4	MAGNESIUM	4540	36000 J	mg/kg	WB18-SS-10	29/29	-	3.60E+04		NV			NV	N	NUT
	7439-96-5	MANGANESE	57.5 J	500 J	mg/kg	WB18-SS-10	29/29	-	5.00E+02		NV			NV	Y	NTX
	7439-97-6	MERCURY	0.034	2.2	mg/kg	WB18-SS-59	29/29	-	2.20E+00		4.30E-01	n		4.30E-01	Y	ASL
	7440-02-0	NICKEL	5.8	47	mg/kg	WB18-SS-03	29/29	-	4.70E+01		1.50E+02	n		1.50E+02	N	BSL
	7440-09	POTASSIUM	37 J	1290	mg/kg	WB18-SS-59	13/14	732 - 1500	1.29E+03		NV			NV	N	NUT
	7782-49-2	SELENIUM	0.28 J	0.65	mg/kg	WB18-SB-174	8/29	0.29-1.5	6.50E-01		3.90E+01	n		3.90E+01	N	BSL
	7440-22-4	SILVER	0.12 J	10	mg/kg	WB18-SS-03	16/29	1.3-2.9	1.00E+01		3.90E+01	n		3.90E+01	N	BSL
	7440-23-5	SODIUM	210	5700 J	mg/kg	WB18-SS-03	29/29	-	5.70E+03		NV			NV	N	NUT
	7440-28-0	THALLIUM	0.39 J	3.1	mg/kg	WB18-SS-09	8/29	0.58-2.9	3.10E+00		5.10E-01	n		5.10E-01	Y	ASL
	7440-62-2	VANADIUM	3.7 J	27.3 J	mg/kg	WB18-SS-59	29/29	-	2.73E+01		5.50E+01	n		5.50E+01	N	BSL
	7440-66-6	ZINC	9.2 J	1000	mg/kg	WB18-SS-03	29/29	-	1.00E+03		2.30E+03	n		2.30E+03	N	BSL
	PCBs															
	11097-69-1	AROCLOR-1254	0.0022 Ja	0.015 Ja	mg/kg	WB18-SS-08	2/14	0.022-0.05	1.50E-02		2.20E-01	c		2.20E-01	N	BSL
	11096-82-5	AROCLOR-1260	0.0016 J	0.25	mg/kg	WB18-SS-03	8/14	0.022-0.05	2.50E-01		2.20E-01	c		2.20E-01	Y	ASL
	PESTICIDES															
	72-54-8	4,4'-DDD	0.0037 J	0.0037 J	mg/kg	WB18-SS-03	1/14	0.0043-0.0097	3.70E-03		2.00E+00	c		2.00E+00	N	BSL
	72-55-9	4,4'-DDE	0.0059	0.0059	mg/kg	WB18-SS-08	1/14	0.0043-0.0097	5.90E-03		1.40E+00	c		1.40E+00	N	BSL
	50-29-3	4,4'-DDT	0.0005 J	0.0025 J	mg/kg	WB18-SS-08	3/14	0.0044-0.0097	3.50E-03		1.70E+00	c		1.70E+00	N	BSL
	5103-71-9	ALPHA-CHLORDANE	0.0076 J	0.0076 J	mg/kg	WB18-SS-03	1/14	0.0022-0.005	7.60E-03		NV			NV	Y	NTX
	319-86-8	DELTA-BHC	0.001 J	0.0073 JN	mg/kg	WB18-SS-08	4/14	0.0022-0.005	7.30E-03		NV			NV	Y	NTX
	7421-93-4	ENDRIN ALDEHYDE	0.0017 J	0.0017 J	mg/kg	WB18-SS-08	1/14	0.0043-0.0097	1.70E-03		NV			NV	Y	NTX
	5566-34-7	GAMMA-CHLORDANE	0.0075	0.0075	mg/kg	WB18-SS-03	1/14	0.0022-0.005	7.50E-03		NV			NV	Y	NTX
	SVOCs															
	92-52-4	1,1'-BIPHENYL	0.0025 J	0.53 J	mg/kg	WB18-SB-178	7/15	0.026-0.11	5.30E-01		3.90E+02	n		3.90E+02	N	BSL
	91-57-6	2-METHYLNAPHTHALENE	0.006	5.3 J	mg/kg	WB18-SB-178	13/29	0.0078-0.97	5.30E+00		3.10E+01	n		3.10E+01	N	BSL
	95-48-7	2-METHYLPHENOL	0.0013 J	0.0078 J	mg/kg	WB18-SB-165	2/29	0.039-0.97	7.80E-03		3.10E+02	n		3.10E+02	N	BSL
	106-44-5	4-METHYLPHENOL	0.0018 J	0.032 J	mg/kg	WB18-SS-59	5/29	0.039-0.97	3.20E-02		3.10E+01	n		3.10E+01	N	BSL
	83-32-9	ACENAPTHENE	0.0015 J	0.0066 J	mg/kg	WB18-SS-59	10/29	0.0053-0.97	6.60E-03		3.40E+02	n		3.40E+02	N	BSL

TABLE 6
STREAMLINED RISK EVALUATION
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
HONEYWELL WASTEBEDS 1-8 SITE- SURFACE SOIL
GEDDES, NY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Surface Soil (0-2 ft bgs)

Exposure Point	CAS Numbers	Chemical	Minimum Concentration (1)	Maximum Concentration (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (mg/kg) (2)	Background Value (3)	Regional Screening Levels (mg/kg) (4)		Potential ARAR/TBC Value	Selected Screening Value (mg/kg) (5)	COPC Flag (Y/N)	Rationale for Selection or Deletion (6)
Onondaga Lake Shoreline - Surface Soil	208-96-8	ACENAPHTHYLENE	0.0065 J	0.036	mg/kg	WB18-SS-59	12/29	0.0053-0.97	3.60E-02		NV			NV	Y	NTX
	98-86-2	ACETOPHENONE	0.008 J	0.39 J	mg/kg	WB18-SB-178	5/15	0.026-0.11	3.90E-01		7.80E+02	n		7.80E+02	N	BSL
	120-12-7	ANTHRACENE	0.0042 J	0.034	mg/kg	WB18-SS-59	13/29	0.0099-0.97	3.40E-02		1.70E+03	n		1.70E+03	N	BSL
	100-52-7	BENZALDEHYDE	0.035 J	0.22 J	mg/kg	WB18-SB-178	12/15	0.043-0.062	2.20E-01		7.80E+02	n		7.80E+02	N	BSL
	56-55-3	BENZ(A)ANTHRACENE	0.011 J	0.1 J	mg/kg	WB18-SS-03	16/29	0.02-0.97	1.00E-01		1.50E-01	c		1.50E-01	N	BSL
	50-32-8	BENZO(A)PYRENE	0.0099 J	0.11 J	mg/kg	WB18-SS-03	15/29	0.02-0.97	1.10E-01		1.50E-02	c		1.50E-02	Y	ASL
	205-99-2	BENZO(B)FLUORANTHENE	0.017 J	0.16	mg/kg	WB18-SS-59	16/29	0.43-0.97	1.60E-01		1.50E-01	c		1.50E-01	Y	ASL
	191-24-2	BENZO(G,H,I)PERYLENE	0.0089 J	0.075	mg/kg	WB18-SS-59	15/29	0.02-0.97	7.50E-02		NV			NV	Y	NTX
	207-08-9	BENZO(K)FLUORANTHENE	0.053 J	0.14 J	mg/kg	WB18-SS-03	2/29	0.0053-0.97	1.40E-01		1.50E+00	c		1.50E+00	N	BSL
	105-60-2	CAPROLACTAM	0.012 J	0.05 J	mg/kg	WB18-SS-60	11/15	0.23-0.5	5.00E-02		3.10E+03	n		3.10E+03	N	BSL
	86-74-8	CARBAZOLE	0.0016 J	0.011 J	mg/kg	WB18-SS-59	8/29	0.0083-0.97	1.10E-02		NV			NV	Y	NTX
	218-01-9	CHRYSENE	0.013 J	0.17 J	mg/kg	WB18-SS-03	18/29	0.02-0.97	1.70E-01		1.50E+01	c		1.50E+01	N	BSL
	53-70-3	DIBENZ(A,H)ANTHRACENE	0.002 J	0.023	mg/kg	WB18-SS-59	9/29	0.0053-0.97	2.30E-02		1.50E-02	c		1.50E-02	Y	ASL
	132-64-9	DIBENZOFURAN	0.0018 J	0.87 J	mg/kg	WB18-SB-178	14/29	0.026-0.97	8.70E-01		NV			NV	Y	NTX
	84-66-2	DIETHYL PHTHALATE	0.004 J	0.004 J	mg/kg	WB18-SS-60	1/29	0.026-0.97	4.00E-03		4.90E+03	n		4.90E+03	N	BSL
	84-74-2	DI-n-BUTYL PHTHALATE	0.0043 J	0.014 J	mg/kg	WB18-SS-60	13/29	0.058-0.97	1.40E-02		6.10E+02	n		6.10E+02	N	BSL
	206-44-0	FLUORANTHENE	0.02	0.3 J	mg/kg	WB18-SB-178	24/29	0.43-0.59	3.00E-01		2.30E+02	n		2.30E+02	N	BSL
	86-73-7	FLUORENE	0.0046 J	0.0046 J	mg/kg	WB18-SB-165	1/29	0.0053-0.97	4.60E-03		2.30E+02	n		2.30E+02	N	BSL
	193-39-5	INDENO(1,2,3-cd)PYRENE	0.0051 J	0.068	mg/kg	WB18-SS-59	15/29	0.02-0.97	6.80E-02		1.50E-01	c		1.50E-01	N	BSL
	91-20-3	NAPHTHALENE	0.018	25 J	mg/kg	WB18-SB-178	21/29	0.43-0.97	2.50E+01		3.90E+00	c		3.90E+00	Y	ASL
	85-01-8	PHENANTHRENE	0.011	1.8 J	mg/kg	WB18-SB-178	18/29	0.43-0.97	1.80E+00		NV			NV	Y	NTX
	108-95-2	PHENOL	0.069 J	0.069 J	mg/kg	WB18-SB-178	1/29	0.0053-0.97	6.90E-02		1.80E+03	n		1.80E+03	N	BSL
	129-00-0	PYRENE	0.014	0.27 J	mg/kg	WB18-SS-03	23/29	0.02-0.59	2.70E-01		1.70E+02	n		1.70E+02	N	BSL
	VOCs															
	78-93-3	2-BUTANONE	0.0029 J	0.34 J	mg/kg	WB18-SB-171	7/28	0.006-0.018	3.40E-01		2.80E+03	n		2.80E+03	N	BSL
	108-10-1	4-METHYL-2-PENTANONE	0.0024 J	0.0024 J	mg/kg	WB18-SS-03	1/28	0.006-0.41	2.40E-03		5.30E+02	n		5.30E+02	N	BSL
	67-64-1	ACETONE	0.021 J	0.1 J	mg/kg	WB18-SS-08	2/29	0.013-1.6	1.00E-01		6.10E+03	n		6.10E+03	N	BSL
	71-43-2	BENZENE	0.0022 J	0.091 J	mg/kg	WB18-SB-171	8/28	0.0031-0.013	9.10E-02		1.10E+00	c		1.10E+00	Y	TOX
	75-15-0	CARBON DISULFIDE	0.00085 J	0.024 J	mg/kg	WB18-SS-10	4/28	0.0031-0.41	2.40E-02		6.70E+01	n		6.70E+01	N	BSL
	100-41-4	ETHYLBENZENE	0.0017 J	0.057 J	mg/kg	WB18-SB-171	5/28	0.0031-0.015	5.70E-02		5.70E+00	c		5.70E+00	N	BSL
	75-09-2	METHYLENE CHLORIDE	0.0087 U	0.12 J	mg/kg	WB18-SB-171	2/28	0.0037-0.02	1.20E-01		1.10E+01	c		1.10E+01	N	BSL
	100-42-5	STYRENE	0.0084 J	0.0084 J	mg/kg	WB18-SS-08	1/28	0.0031-0.41	8.40E-03		6.50E+02	n		6.50E+02	N	BSL
	108-88-3	TOLUENE	0.0011 J	0.045 J	mg/kg	WB18-SS-08	16/29	0.0031-0.41	4.50E-02		5.00E+02	n		5.00E+02	N	BSL
	1330-20-7	XYLENES, TOTAL	0.0048 J	1.4	mg/kg	WB18-SB-171	9/29	0.0031-0.038	1.40E+00		6.00E+01	n		6.00E+01	N	BSL

Footnotes:
(1) J - estimated value; N - tentatively identified compound
(2) Concentration used for screening is the maximum detected concentration.
(3) No background screening performed.
(4) USEPA Regional Screening Levels (April 2009) for residential soil; C = Cancer RSL; N = Noncancer RSL; NV = No RSL.
Noncancer RSLs adjusted by multiplying RSL by 0.1.
(5) The selected screening values are the USEPA RSLs.
(6) Selection Rationale: ASL - Above Screening Level; NTX - No Toxicity Information. Deletion Rationale: BSL - Below Screening Level; NUT - Essential Nutrient
- = Compound detected in 100% of samples.

Definitions:
ARAR: Applicable or Relevant and Appropriate Requirements
CAS: Chemical Abstact Service
COPC: Compound of Potential Concern
PCBs: Polychlorinated Biphenyls
SVOCs: Semi-Volatile Organic Compounds
TBC: To Be Considered
USEPA: United States Environmental Protection Agency
VOCs: Volatile Organic Compounds

TABLE 7
STREAMLINED RISK EVALUATION
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL ECOLOGICAL CONCERN
HONEYWELL WASTEBEDS 1-8 SITE- SURFACE SOIL
GEDDES, NEW YORK

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Surface Soil (0-2 ft bgs)

Exposure Point	CAS Numbers	Chemical	Minimum Concentration (1)	Maximum Concentration (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (mg/kg) (2)	USEPA Ecological Soil Screening Levels - Plants (mg/kg dw) (3)	USEPA Ecological Soil Screening Levels - Invertebrates (mg/kg dw) (3)	USEPA Ecological Soil Screening Levels - Aves (mg/kg dw) (3)	USEPA Ecological Soil Screening Levels - Mammals (mg/kg dw) (3)	Microorganisms and microbial processes (mg/kg) (4)	Earthworms (mg/kg) (4)	Terrestrial Plants[c] (mg/kg) (5)	NYSDEC: Restricted Use Soil Cleanup Objectives for Protection of Ecological Resources (mg/kg) (6)	Selected Screening Value (7)	COPEC Flag (Y/N)	Rationale for Selection or Deletion (8)
Onondaga Lake Shoreline - Surface Soil	METALS																			
	7429-90-5	ALUMINUM	1410	9600	mg/kg	WB18-SS-01	29/29	-	9.60E+03	NV	NV	NV	NV	6.00E+02	NV	5.00E+01	NV	5.00E+01	Y	ASL
	7440-36-0	ANTIMONY	0.18 J	0.57 J	mg/kg	WB18-SS-08	9/29	0.58-16	5.70E-01	NV	7.80E+01	NV	2.70E-01	NV	NV	5.00E+00	NV	2.70E-01	Y	ASL
	7440-38-2	ARSENIC	2.8	13	mg/kg	WB18-SS-01	29/29	-	1.30E+01	1.80E+01	NV	4.30E+01	4.60E+01	1.00E+02	6.00E+01	1.00E+01	1.30E+01	1.00E+01	Y	ASL
	7440-39-3	BARIUM	6.6 J	2350 J	mg/kg	WB18-SB-165	29/29	-	2.35E+03	NV	3.30E+02	NV	2.00E+03	3.00E+03	NV	NV	4.33E+02	3.30E+02	Y	ASL
	7440-41-7	BERYLLIUM	0.18 J	1.1 J	mg/kg	WB18-SS-03	24/29	0.18-0.6	1.10E+00	NV	4.00E+01	NV	2.10E+01	NV	NV	1.00E+01	1.00E+01	1.00E+01	N	BSL
	7440-43-9	CADMIUM	0.071 J	16	mg/kg	WB18-SS-03	21/29	0.62-2.9	1.60E+01	3.20E+01	1.40E+02	7.70E-01	3.60E-01	2.00E+01	2.00E+01	4.00E+00	4.00E+00	3.60E-01	Y	ASL
	7440-70-2	CALCIUM	230000 J	420000 J	mg/kg	WB18-SS-03	29/29	-	4.20E+05	NV	NV	NV	NV	NV	NV	NV	NV	NV	Y	KPS
	7440-47-3	CHROMIUM	6.2 J	340	mg/kg	WB18-SS-03	29/29	-	3.40E+02	NV	NV	2.60E+01	3.40E+01	1.00E+01	4.00E-01	1.00E+00	NV	4.00E-01	Y	ASL
	7440-48-4	COBALT	0.2 J	8.1	mg/kg	WB18-SS-59	26/29	12-14	8.10E+00	1.30E+01	NV	1.20E+02	2.30E+02	1.00E+03	NV	2.00E+01	NV	1.30E+01	N	BSL
	7440-50-8	COPPER	3.3	190	mg/kg	WB18-SS-03	29/29	-	1.90E+02	7.00E+01	8.00E+01	2.80E+01	4.90E+01	1.00E+02	5.00E+01	1.00E+02	5.00E+01	2.80E+01	Y	ASL
	57-12-5	CYANIDE	0.56 J	13 J	mg/kg	WB18-SS-10	29/29	-	1.30E+01	NV	NV	NV	NV	NV	NV	NV	NV	NV	Y	NTX
	7439-89-6	IRON	1690 J	9600	mg/kg	WB18-SS-01	29/29	-	9.60E+03	NV	NV	NV	NV	2.00E+02	NV	NV	NV	2.00E+02	Y	ASL
	7439-92-1	LEAD	1.9 J	260	mg/kg	WB18-SS-03	29/29	-	2.60E+02	1.20E+02	1.70E+03	1.10E+01	5.60E+01	9.00E+02	5.00E+02	5.00E+01	6.30E+01	1.10E+01	Y	ASL
	7439-95-4	MAGNESIUM	4540	36000 J	mg/kg	WB18-SS-10	29/29	-	3.60E+04	NV	NV	NV	NV	NV	NV	NV	NV	NV	N	NUT
	7439-96-5	MANGANESE	57.5 J	500 J	mg/kg	WB18-SS-10	29/29	-	5.00E+02	2.20E+02	4.50E+02	4.30E+03	4.00E+03	1.00E+02	NV	5.00E+02	1.60E+03	1.00E+02	Y	ASL
	7439-97-6	MERCURY	0.034	2.2	mg/kg	WB18-SS-59	29/29	-	2.20E+00	NV	NV	NV	NV	NV	NV	NV	NV	NV	Y	NTX
	7440-02-0	NICKEL	5.8	47	mg/kg	WB18-SS-03	29/29	-	4.70E+01	3.80E+01	2.80E+02	2.10E+02	1.30E+02	9.00E+01	2.00E+02	3.00E+01	3.00E+01	3.00E+01	Y	ASL
	7440-09	POTASSIUM	37 J	1290	mg/kg	WB18-SS-59	13/14	732 - 1500	1.29E+03	NV	NV	NV	NV	NV	NV	NV	NV	NV	N	NUT
	7782-49-2	SELENIUM	0.28 J	0.65	mg/kg	WB18-SB-174	8/29	0.29-1.5	6.50E-01	5.20E-01	4.10E+00	1.20E+00	6.30E-01	1.00E+02	7.00E+01	1.00E+00	3.90E+00	5.20E-01	Y	ASL
	7440-22-4	SILVER	0.12 J	10	mg/kg	WB18-SS-03	16/29	1.3-2.9	1.00E+01	5.60E+02	NV	4.20E+00	1.40E+01	5.00E+01	NV	2.00E+00	2.00E+00	2.00E+00	Y	ASL
	7440-23-5	SODIUM	210	5700 J	mg/kg	WB18-SS-03	29/29	-	5.70E+03	NV	NV	NV	NV	NV	NV	NV	NV	NV	Y	KPS
	7440-28-0	THALLIUM	0.39 J	3.1	mg/kg	WB18-SS-09	8/29	0.58-2.9	3.10E+00	NV	NV	NV	NV	NV	NV	1.00E+00	NV	1.00E+00	Y	ASL
	7440-62-2	VANADIUM	3.7 J	27.3 J	mg/kg	WB18-SS-59	29/29	-	2.73E+01	NV	NV	7.80E+00	2.80E+02	2.00E+01	NV	2.00E+00	NV	2.00E+00	Y	ASL
	7440-66-6	ZINC	9.2 J	1000	mg/kg	WB18-SS-03	29/29	-	1.00E+03	1.60E+02	1.20E+02	4.60E+01	7.90E+01	1.00E+02	2.00E+02	5.00E+01	1.09E+02	4.60E+01	Y	ASL
	PCBs																			
	11097-69-1	AROCLOR-1254	0.0022 Ja	0.015 Ja	mg/kg	WB18-SS-08	2/14	0.022-0.05	1.50E-02	NV	NV	NV	NV	NV	NV	4.00E+01	1.00E+00	1.00E+00	N	BSL
	11096-82-5	AROCLOR-1260	0.0016 J	0.25	mg/kg	WB18-SS-03	8/14	0.022-0.05	2.50E-01	NV	NV	NV	NV	NV	NV	4.00E+01	1.00E+00	1.00E+00	N	BSL
	PESTICIDES																			
	72-54-8	4,4'-DDD	0.0037 J	0.0037 J	mg/kg	WB18-SS-03	1/14	0.0043-0.0097	3.70E-03	NV	NV	9.30E-02	2.10E-02	NV	NV	NV	3.30E-03	3.30E-03	Y	ASL
	72-55-9	4,4'-DDE	0.0059	0.0059	mg/kg	WB18-SS-08	1/14	0.0043-0.0097	5.90E-03	NV	NV	9.30E-02	2.10E-02	NV	NV	NV	3.30E-03	3.30E-03	Y	ASL
	50-29-3	4,4'-DDT	0.0005 J	0.0025 J	mg/kg	WB18-SS-08	3/14	0.0044-0.0097	3.50E-03	NV	NV	9.30E-02	2.10E-02	NV	NV	NV	3.30E-03	3.30E-03	Y	ASL
	5103-71-9	ALPHA-CHLORDANE	0.0076 J	0.0076 J	mg/kg	WB18-SS-03	1/14	0.0022-0.005	7.60E-03	NV	NV	NV	NV	NV	NV	NV	1.30E+00	1.30E+00	N	BSL
	319-86-8	DELTA-BHC	0.001 J	0.0073 JN	mg/kg	WB18-SS-08	4/14	0.0022-0.005	7.30E-03	NV	NV	NV	NV	NV	NV	NV	4.00E-02	4.00E-02	N	BSL
	7421-93-4	ENDRIN ALDEHYDE	0.0017 J	0.0017 J	mg/kg	WB18-SS-08	1/14	0.0043-0.0097	1.70E-03	NV	NV	NV	NV	NV	NV	NV	NV	NV	Y	NTX
	5566-34-7	GAMMA-CHLORDANE	0.0075	0.0075	mg/kg	WB18-SS-03	1/14	0.0022-0.005	7.50E-03	NV	NV	NV	NV	NV	NV	NV	NV	NV	Y	NTX
	SVOCs																			
	92-52-4	1,1'-BIPHENYL	0.0025 J	0.53 J	mg/kg	WB18-SB-178	7/15	0.026-0.11	5.30E-01	NV	NV	NV	NV	NV	NV	6.00E+01	NV	6.00E+01	N	BSL
	91-57-6	2-METHYLNAPHTHALENE	0.006	5.3 J	mg/kg	WB18-SB-178	13/29	0.0078-0.97	5.30E+00	NV	NV	NV	NV	NV	NV	NV	NV	NV	Y	NTX
	95-48-7	2-METHYLPHENOL	0.0013 J	0.0078 J	mg/kg	WB18-SB-165	2/29	0.039-0.97	7.80E-03	NV	NV	NV	NV	NV	NV	NV	NV	NV	Y	NTX
	106-44-5	4-METHYLPHENOL	0.0018 J	0.032 J	mg/kg	WB18-SS-59	5/29	0.039-0.97	3.20E-02	NV	NV	NV	NV	NV	NV	NV	NV	NV	Y	NTX
	83-32-9	ACENAPTHENE	0.0015 J	0.0066 J	mg/kg	WB18-SS-59	10/29	0.0053-0.97	6.60E-03	NV	2.90E+01	NV	1.00E+02	NV	NV	NV	2.00E+01	2.00E+01	N	BSL
	208-96-8	ACENAPHTHYLENE	0.0065 J	0.036	mg/kg	WB18-SS-59	12/29	0.0053-0.97	3.60E-02	NV	2.90E+01	NV	1.00E+02	NV	NV	2.00E+01	NV	2.00E+01	N	BSL
	98-86-2	ACETOPHENONE	0.008 J	0.39 J	mg/kg	WB18-SB-178	5/15	0.026-0.11	3.90E-01	NV	NV	NV	NV	NV	NV	NV	NV	NV	Y	NTX
	120-12-7	ANTHRACENE	0.0042 J	0.034	mg/kg	WB18-SS-59	13/29	0.0099-0.97	3.40E-02	NV	2.90E+01	NV	1.00E+02	NV	NV	NV	NV	2.90E+01	N	BSL
	100-52-7	BENZALDEHYDE	0.035 J	0.22 J	mg/kg	WB18-SB-178	12/15	0.043-0.062	2.20E-01	NV	NV	NV	NV	NV	NV	NV	NV	NV	Y	NTX
	56-55-3	BENZ(A)ANTHRACENE	0.011 J	0.1 J	mg/kg	WB18-SS-03	16/29	0.02-0.97	1.00E-01	NV	1.80E+01	NV	1.10E+00	NV	NV	NV	NV	1.10E+00	N	BSL
	50-32-8	BENZO(A)PYRENE	0.0099 J	0.11 J	mg/kg	WB18-SS-03	15/29	0.02-0.97	1.10E-01	NV	1.80E+01	NV	1.10E+00	NV	NV	NV	2.60E+00	1.10E+00	N	BSL
	205-99-2	BENZO(B)FLUORANTHENE	0.017 J	0.16	mg/kg	WB18-SS-59	16/29	0.43-0.97	1.60E-01	NV	1.80E+01	NV	1.10E+00	NV	NV	NV	NV	1.10E+00	N	BSL
	191-24-2	BENZO(G,H,I)PERYLENE	0.0089 J	0.075	mg/kg	WB18-SS-59	15/29	0.02-0.97	7.50E-02	NV	1.80E+01	NV	1.10E+00	NV	NV	NV	NV	1.10E+00	N	BSL
	207-08-9	BENZO(K)FLUORANTHENE	0.053 J	0.14 J	mg/kg	WB18-SS-03	2/29	0.0053-0.97	1.40E-01	NV	1.80E+01	NV	1.10E+00	NV	NV	NV	NV	1.10E+00	N	BSL
	105-60-2	CAPROLACTAM	0.012 J	0.05 J	mg/kg	WB18-SS-60	11/15	0.23-0.5	5.00E-02	NV	NV	NV	NV	NV	NV	NV	NV	NV	Y	NTX
	86-74-8	CARBAZOLE	0.0016 J	0.011 J	mg/kg	WB18-SS-59	8/29	0.0083-0.97	1.10E-02	NV	NV	NV	NV	NV	NV	NV	NV	NV	Y	NTX
	218-01-9	CHRYSENE	0.013 J	0.17 J	mg/kg	WB18-SS-03	18/29	0.02-0.97	1.70E-01	NV	1.80E+01	NV	1.10E+00	NV	NV	NV	NV	1.10E+00	N	BSL
	53-70-3	DIBENZ(A,H)ANTHRACENE	0.002 J	0.023	mg/kg	WB18-SS-59	9/29	0.0053-0.97	2.30E-02	NV	1.80E+01	NV	1.10E+00	NV	NV	NV	NV	1.10E+00	N	BSL
	132-64-9	DIBENZOFURAN	0.0018 J	0.87 J	mg/kg	WB18-SB-178	14/29	0.026-0.97	8.70E-01	NV	NV	NV	NV	NV	NV	NV	NV	NV	Y	NTX
	84-66-2	DIETHYL PHTHALATE	0.004 J	0.004 J	mg/kg	WB18-SS-60	1/29	0.026-0.97	4.00E-03	NV	NV	NV	NV	NV	NV	NV	NV	NV	Y	NTX
	84-74-2	DI-n-BUTYL PHTHALATE	0.0043 J	0.014 J	mg/kg	WB18-SS-60	13/29	0.058-0.97	1.40E-02	NV	NV	NV	NV	NV	NV	2.00E+02	NV	2.00E+02	N	BSL
	206-44-0	FLUORANTHENE	0.02	0.3 J	mg/kg	WB18-SB-178	24/29	0.43-0.59	3.00E-01	NV	2.90E+01	NV	1.00E+02	NV	3.00E+01	NV	NV	2.90E+01	N	BSL
	86-73-7	FLUORENE	0.0046 J	0.0046 J	mg/kg	WB18-SB-165	1/29	0.0053-0.97	4.60E-03	NV	NV	NV	NV	NV	NV	NV	3.00E+01	3.00E+01	N	BSL
	193-39-5	INDENO(1,2,3-cd)PYRENE	0.0051 J	0.068	mg/kg	WB18-SS-59	15/29	0.02-0.97	6.80E-02	NV	1.80E+01	NV	1.10E+00	NV	NV	NV	NV	1.10E+00	N	BSL
	91-20-3	NAPHTHALENE	0.018	25 J	mg/kg	WB18-SB-178	21/29	0.43-0.97	2.50E+01	NV	2.90E+01	NV	1.00E+02	NV	NV	NV	NV	2.90E+01	N	BSL
	85-01-8	PHENANTHRENE	0.011	1.8 J	mg/kg	WB18-SB-178	18/29	0.43-0.97	1.80E+00	NV	2.90E+01	NV	1.00E+02	NV	NV	NV	NV	2.90E+01	N	BSL
	108-95-2	PHENOL	0.069 J	0.069 J	mg/kg	WB18-SB-178	1/29	0.0053-0.97	6.90E-02	NV	NV	NV	NV	1.00E+02	3.00E+01	7.00E+01	3.00E+01	3.00E+01	N	BSL
	129-00-0	PYRENE	0.014	0.27 J	mg/kg	WB18-SS-03	23/29	0.02-0.59	2.70E-01	NV	1.80E+01	NV	1.10E+00	NV	NV	NV	NV	1.10E+00	N	BSL

TABLE 7
STREAMLINED RISK EVALUATION
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL ECOLOGICAL CONCERN
HONEYWELL WASTEBEDS 1-8 SITE- SURFACE SOIL
GEDDES, NEW YORK

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Surface Soil (0-2 ft bgs)

Exposure Point	CAS Numbers	Chemical	Minimum Concentration (1)	Maximum Concentration (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (mg/kg) (2)	USEPA Ecological Soil Screening Levels - Plants (mg/kg dw) (3)	USEPA Ecological Soil Screening Levels - Invertebrates (mg/kg dw) (3)	USEPA Ecological Soil Screening Levels - Aves (mg/kg dw) (3)	USEPA Ecological Soil Screening Levels - Mammals (mg/kg dw) (3)	Microorganisms and microbial processes (mg/kg) (4)	Earthworms (mg/kg) (4)	Terrestrial Plants[c] (mg/kg) (5)	NYSDEC: Restricted Use Soil Cleanup Objectives for Protection of Ecological Resources (mg/kg) (6)	Selected Screening Value (7)	COPEC Flag (Y/N)	Rationale for Selection or Deletion (8)
Onondaga Lake Shoreline - Surface Soil	VOCs																			
	78-93-3	2-BUTANONE	0.0029 J	0.34 J	mg/kg	WB18-SB-171	7/28	0.006-0.018	3.40E-01	NV	NV	NV	NV	NV	NV	NV	1.00E+02	1.00E+02	N	BSL
	108-10-1	4-METHYL-2-PENTANONE	0.0024 J	0.0024 J	mg/kg	WB18-SS-03	1/28	0.006-0.41	2.40E-03	NV	NV	NV	NV	NV	NV	NV	NV	NV	Y	NTX
	67-64-1	ACETONE	0.021 J	0.1 J	mg/kg	WB18-SS-08	2/29	0.013-1.6	1.00E-01	NV	NV	NV	NV	NV	NV	NV	2.20E+00	2.20E+00	N	BSL
	71-43-2	BENZENE	0.0022 J	0.091 J	mg/kg	WB18-SB-171	8/28	0.0031-0.013	9.10E-02	NV	NV	NV	NV	NV	NV	NV	7.00E+01	7.00E+01	N	BSL
	75-15-0	CARBON DISULFIDE	0.00085 J	0.024 J	mg/kg	WB18-SS-10	4/28	0.0031-0.41	2.40E-02	NV	NV	NV	NV	NV	NV	NV	NV	NV	Y	NTX
	100-41-4	ETHYLBENZENE	0.0017 J	0.057 J	mg/kg	WB18-SB-171	5/28	0.0031-0.015	5.70E-02	NV	NV	NV	NV	NV	NV	NV	NV	NV	Y	NTX
	75-09-2	METHYLENE CHLORIDE	0.0087 U	0.12 J	mg/kg	WB18-SB-171	2/28	0.0037-0.02	1.20E-01	NV	NV	NV	NV	NV	NV	NV	1.20E+01	1.20E+01	N	BSL
	100-42-5	STYRENE	0.0084 J	0.0084 J	mg/kg	WB18-SS-08	1/28	0.0031-0.41	8.40E-03	NV	NV	NV	NV	NV	NV	3.00E+02	NV	3.00E+02	N	BSL
	108-88-3	TOLUENE	0.0011 J	0.045 J	mg/kg	WB18-SS-08	16/29	0.0031-0.41	4.50E-02	NV	NV	NV	NV	NV	NV	2.00E+02	3.60E+01	3.60E+01	N	BSL
	1330-20-7	XYLENES, TOTAL	0.0048 J	1.4	mg/kg	WB18-SB-171	9/29	0.0031-0.038	1.40E+00	NV	NV	NV	NV	NV	NV	NV	2.60E-01	2.60E-01	Y	ASL

Notes:
(1) J - estimated value; N - tentatively identified at an estimated value
(2) Concentration used for screening is the maximum detected concentration.
(3) Values are from USEPA, 2005
(4) Values are from Efroymson *et al*. 1997b.
(5) Values are from Efroymson *et al*. 1997a.
(6) Values are from NYSDEC, 2006 (6 NYCRR Subpart 375-6) Remedial Program Soil Cleanup Objectives.
(7) Minimum of screening criteria
(8) Compounds are selected as COPECs if the selected screening concentration is greater than the selected criteria or if there are no screening criteria available.
(9) Rationale: ASL - Above Screening Level; NTX - No Toxicity Information; KPS - Known Physical Stressor; BSL - Below Screening Level; NUT - Compound is an essential nutrient
Compounds are selected as COPECs if the selected screening concentration is greater than the selected criteria or if there are no screening criteria available.
- = Compound detected in 100% of samples.

Definitions:
CAS: Chemical Abstact Service
COPEC: Compound of Potential Ecological Concern
NV: No Value
NYSDEC: New York State Department of Environmental Conservation
PCBs: Polychlorinated Biphenyls
PEST: Pesticides
SVOCs: Semi-Volatile Organic Compounds
USEPA: United States Environmental Protection Agency
VOCs: Volatile Organic Compounds

TABLE 8
STREAMLINED RISK EVALUATION
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
HONEYWELL WASTEBEDS 1-8 SITE - SEDIMENT
GEDDES, NEW YORK

Scenario Timeframe: Current/Future
Medium: Soil - Sediment
Exposure Medium: Sediment (0-1 ft bgs)

Exposure Point	CAS Numbers	Chemical	Minimum Concentration (1)	Maximum Concentration (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (mg/kg) (2)	Background Value (3)	Regional Screening Levels (mg/kg) (4)		Potential ARAR/TBC Value	Selected Screening Value (mg/kg) (5)	COPC Flag (Y/N)	Rationale for Selection or Deletion (6)
Ditch A South - Sediment	METALS															
	7429-90-5	ALUMINUM	1900 J	4100	mg/kg	WB18-SED-02	2/2	-	4.10E+03		7.70E+03	n		7.70E+03	N	BSL
	7440-36-0	ANTIMONY	0.4 J	0.4 J	mg/kg	WB18-SED-02	1/2	13-13	4.00E-01		3.10E+00	n		3.10E+00	N	BSL
	7440-38-2	ARSENIC	3.8 J	6.9	mg/kg	WB18-SED-02	2/2	-	6.90E+00		3.90E-01	c		3.90E-01	Y	TOX
	7440-39-3	BARIUM	190 J	680	mg/kg	WB18-SED-02	2/2	-	6.80E+02		1.50E+03	n		1.50E+03	N	BSL
	7440-41-7	BERYLLIUM	0.16 J	0.34 J	mg/kg	WB18-SED-02	2/2	-	3.40E-01		1.60E+01	n		1.60E+01	N	BSL
	7440-43-9	CADMIUM	0.12 J	0.26 J	mg/kg	WB18-SED-02	2/2	-	2.60E-01		7.00E+00	n		7.00E+00	N	BSL
	7440-70-2	CALCIUM	260000 J	400000 J	mg/kg	WB18-SED-02	2/2	-	4.00E+05		NV			NV	N	NUT
	7440-47-3	CHROMIUM	49	65 J	mg/kg	WB18-SED-02	2/2	-	6.50E+01		2.80E+02	c		2.80E+02	N	BSL
	7440-48-4	COBALT	4.5 J	5.1 J	mg/kg	WB18-SED-02	2/2	-	5.10E+00		2.30E+00	n		2.30E+00	Y	ASL
	7440-50-8	COPPER	17	29 J	mg/kg	WB18-SED-02	2/2	-	2.90E+01		3.10E+02	n		3.10E+02	N	BSL
	7439-89-6	IRON	14000 J	19000	mg/kg	WB18-SED-02	2/2	-	1.90E+04		5.50E+03	n		5.50E+03	Y	ASL
	7439-92-1	LEAD	31 J	33	mg/kg	WB18-SED-02	2/2	-	3.30E+01		4.00E+02	n		4.00E+02	N	BSL
	7439-95-4	MAGNESIUM	4200 J	9700 J	mg/kg	WB18-SED-02	2/2	-	9.70E+03		NV			NV	N	NUT
	7439-96-5	MANGANESE	350	450 J	mg/kg	WB18-SED-02	2/2	-	4.50E+02		8.80E+02	n		8.80E+02	N	BSL
	7439-97-6	MERCURY	0.15 J	0.3	mg/kg	WB18-SED-02	2/2	-	3.00E-01		4.30E-01	n		4.30E-01	N	BSL
	7440-02-0	NICKEL	36	40 J	mg/kg	WB18-SED-02	2/2	-	4.00E+01		1.50E+02	n		1.50E+02	N	BSL
	7440-09-7	POTASSIUM	480 J	490 J	mg/kg	WB18-SED-02	2/2	-	4.90E+02		NV			NV	N	NUT
	7782-49-2	SELENIUM	0.46 J	0.93 J	mg/kg	WB18-SED-02	2/2	-	9.30E-01		3.90E+01	n		3.90E+01	N	BSL
	7440-22-4	SILVER	0.58 J	8.3	mg/kg	WB18-SED-02	2/2	-	8.30E+00		3.90E+01	n		3.90E+01	N	BSL
	7440-23-5	SODIUM	3600	4400 J	mg/kg	WB18-SED-02	2/2	-	4.40E+03		NV			NV	N	NUT
	7440-28-0	THALLIUM	0.52 J	0.52 J	mg/kg	WB18-SED-02	1/2	2.2-2.2	5.20E-01		5.10E-01	n		5.10E-01	Y	ASL
	7440-62-2	VANADIUM	16	16	mg/kg	WB18-SED-02	2/2	-	1.60E+01		5.50E+01	n		5.50E+01	N	BSL
	7440-66-6	ZINC	54	130 J	mg/kg	WB18-SED-02	2/2	-	1.30E+02		2.30E+03	n		2.30E+03	N	BSL
	PCBs															
	11097-69-1	AROCLOR-1254	0.016 J	0.027 J	mg/kg	WB18-SED-02	2/2	-	2.70E-02		2.20E-01	c		2.20E-01	N	BSL
	11100-14-4	AROCLOR-1268[a]	0.017 J	0.024 J	mg/kg	WB18-SED-02	2/2	-	2.40E-02		2.20E-01	c		2.20E-01	N	BSL
	PESTICIDES															
	60-57-1	DIELDRIN	0.0027 J	0.0027 J	mg/kg	WB18-SED-02	1/2	0.0037-0.0037	2.70E-03		3.00E-02	c		3.00E-02	N	BSL
	SVOCs															
	56-55-3	BENZO(A)ANTHRACENE	0.1 J	0.19 J	mg/kg	WB18-SED-02	2/2	-	1.90E-01		1.50E-01	c		1.50E-01	Y	ASL
	50-32-8	BENZO(A)PYRENE	0.11 J	0.22 J	mg/kg	WB18-SED-02	2/2	-	2.20E-01		1.50E-02	c		1.50E-02	Y	ASL
	205-99-2	BENZO(B)FLUORANTHENE	0.15 J	0.23 J	mg/kg	WB18-SED-02	2/2	-	2.30E-01		1.50E-01	c		1.50E-01	Y	ASL
	191-24-2	BENZO(G,H,I)PERYLENE	0.071 J	0.16 J	mg/kg	WB18-SED-02	2/2	-	1.60E-01		NV			NV	Y	NTX
	207-08-9	BENZO(K)FLUORANTHENE	0.12 J	0.24 J	mg/kg	WB18-SED-02	2/2	-	2.40E-01		1.50E+00	c		1.50E+00	N	BSL
	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	0.29 J	0.36 J	mg/kg	WB18-SED-02	2/2	-	3.60E-01		3.50E+01	c		3.50E+01	N	BSL
	218-01-9	CHRYSENE	0.12 J	0.25 J	mg/kg	WB18-SED-02	2/2	-	2.50E-01		1.50E+01	c		1.50E+01	N	BSL
	206-44-0	FLUORANTHENE	0.42 J	0.52 J	mg/kg	WB18-SED-02	2/2	-	5.20E-01		2.30E+02	n		2.30E+02	N	BSL
	193-39-5	INDENO(1,2,3-CD)PYRENE	0.065 J	0.15 J	mg/kg	WB18-SED-02	2/2	-	1.50E-01		1.50E-01	c		1.50E-01	N	BSL
	85-01-8	PHENANTHRENE	0.085 J	0.19 J	mg/kg	WB18-SED-02	2/2	-	1.90E-01		NV			NV	Y	NTX
	129-00-0	PYRENE	0.51 J	0.54 J	mg/kg	WB18-SED-02	2/2	-	5.40E-01		1.70E+02	n		1.70E+02	N	BSL

TABLE 8
STREAMLINED RISK EVALUATION
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
HONEYWELL WASTEBEDS 1-8 SITE - SEDIMENT
GEDDES, NEW YORK

Scenario Timeframe: Current/Future
Medium: Soil - Sediment
Exposure Medium: Sediment (0-1 ft bgs)

Exposure Point	CAS Numbers	Chemical	Minimum Concentration (1)	Maximum Concentration (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (mg/kg) (2)	Background Value (3)	Regional Screening Levels (mg/kg) (4)		Potential ARAR/TBC Value	Selected Screening Value (mg/kg) (5)	COPC Flag (Y/N)	Rationale for Selection or Deletion (6)
Ditch A South - Sediment	VOCs															
	78-93-3	2-BUTANONE	0.0066 J	0.008 J	mg/kg	WB18-SED-02	2/2	-	8.00E-03		2.80E+03	n		2.80E+03	N	BSL
	67-64-1	ACETONE	0.052 J	0.052 J	mg/kg	WB18-SED-02	2/2	-	5.20E-02		6.10E+03	n		6.10E+03	N	BSL
	71-43-2	BENZENE	0.0011 J	0.0011 J	mg/kg	WB18-SED-02	1/2	0.0053-0.0053	1.10E-03		1.10E+00	c		1.10E+00	Y	TOX
	75-15-0	CARBON DISULFIDE	0.0028 J	0.035	mg/kg	WB18-SED-02	2/2	-	3.50E-02		6.70E+01	n		6.70E+01	N	BSL

Footnotes:
(1) J - estimated value; N - tentatively identified compound
(2) Concentration used for screening is the maximum detected concentration.
(3) No background screening performed.
(4) USEPA Regional Screening Levels (April 2009) for residential soil; C = Cancer RSL; N = Noncancer RSL; NV = No RSL.
Noncancer RSLs adjusted by multiplying RSL by 0.1.
(5) The selected screening values are the USEPA RSLs.
(6) Selection Rationale: ASL - Above Screening Level; NTX - No Toxicity Information; TOX - Class A Carcinogen. Deletion Rationale: BSL - Below Screening Level, , NUT - Essential Nutrient
- = Compound detected in 100% of samples.
a = PRG value for Aroclor-1254 utilized.

Definitions:
ARAR: Applicable or Relevant and Appropriate Requirements
CAS: Chemical Abstact Service
COPC: Compound of Potential Concern
PCBs: Polychlorinated Biphenyls
SVOCs: Semi-Volatile Organic Compounds
TBC: To Be Considered
USEPA: United States Environmental Protection Agency
VOCs: Volatile Organic Compounds

TABLE 9
STREAMLINED RISK EVALUATION
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL ECOLOGICAL CONCERN
HONEYWELL WASTEBEDS 1-8 SITE - SEDIMENT
GEDDES, NEW YORK

Scenario Timeframe: Current/Future
Medium: Soil - Sediment
Exposure Medium: Sediment (0-0.5 ft bgs)

Exposure Point	CAS Numbers	Chemical	Minimum Concentration (1)	Maximum Concentration (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	NYSDEC Benthic Aquatic Life, Chronic Toxicity Values (mg/kg) (3)	NYSDEC Wildlife Bioaccumulation Values (mg/kg) (3)	Selected Screening Value (4)	COPEC Flag (Y/N)	Rationale for Selection or Deletion (5)
Ditch A South - Sediment	METALS													
	7429-90-5	ALUMINUM	1900 J	4100	mg/kg	WB18-SED-02	2/2	-	4.10E+03	NV	NV	NV	Y	NTX
	7440-36-0	ANTIMONY	0.4 J	0.4 J	mg/kg	WB18-SED-02	1/2	13-13	4.00E-01	2.00E+00	NV	2.00E+00	N	BSL
	7440-38-2	ARSENIC	3.8 J	6.9	mg/kg	WB18-SED-02	2/2	-	6.90E+00	6.00E+00	NV	6.00E+00	Y	ASL
	7440-39-3	BARIUM	190 J	680	mg/kg	WB18-SED-02	2/2	-	6.80E+02	NV	NV	NV	Y	NTX
	7440-41-7	BERYLLIUM	0.16 J	0.34 J	mg/kg	WB18-SED-02	2/2	-	3.40E-01	NV	NV	NV	Y	NTX
	7440-43-9	CADMIUM	0.12 J	0.26 J	mg/kg	WB18-SED-02	2/2	-	2.60E-01	6.00E-01	NV	6.00E-01	N	BSL
	7440-70-2	CALCIUM	260000 J	400000 J	mg/kg	WB18-SED-02	2/2	-	4.00E+05	NV	NV	NV	Y	KPS
	7440-47-3	CHROMIUM	49	65 J	mg/kg	WB18-SED-02	2/2	-	6.50E+01	2.60E+01	NV	2.60E+01	Y	ASL
	7440-48-4	COBALT	4.5 J	5.1 J	mg/kg	WB18-SED-02	2/2	-	5.10E+00	NV	NV	NV	Y	NTX
	7440-50-8	COPPER	17	29 J	mg/kg	WB18-SED-02	2/2	-	2.90E+01	1.60E+01	NV	1.60E+01	Y	ASL
	7439-89-6	IRON	14000 J	19000	mg/kg	WB18-SED-02	2/2	-	1.90E+04	2.00E+04	NV	2.00E+04	N	BSL
	7439-92-1	LEAD	31 J	33	mg/kg	WB18-SED-02	2/2	-	3.30E+01	3.10E+01	NV	3.10E+01	Y	ASL
	7439-95-4	MAGNESIUM	4200 J	9700 J	mg/kg	WB18-SED-02	2/2	-	9.70E+03	NV	NV	NV	N	NUT
	7439-96-5	MANGANESE	350	450 J	mg/kg	WB18-SED-02	2/2	-	4.50E+02	4.60E+02	NV	4.60E+02	N	BSL
	7439-97-6	MERCURY	0.15 J	0.3	mg/kg	WB18-SED-02	2/2	-	3.00E-01	1.50E-01	NV	1.50E-01	Y	ASL
	7440-02-0	NICKEL	36	40 J	mg/kg	WB18-SED-02	2/2	-	4.00E+01	1.60E+01	NV	1.60E+01	Y	ASL
	7440-09-7	POTASSIUM	480 J	490 J	mg/kg	WB18-SED-02	2/2	-	4.90E+02	NV	NV	NV	N	NUT
	7782-49-2	SELENIUM	0.46 J	0.93 J	mg/kg	WB18-SED-02	2/2	-	9.30E-01	NV	NV	NV	Y	NTX
	7440-22-4	SILVER	0.58 J	8.3	mg/kg	WB18-SED-02	2/2	-	8.30E+00	1.00E+00	NV	1.00E+00	Y	ASL
	7440-23-5	SODIUM	3600	4400 J	mg/kg	WB18-SED-02	2/2	-	4.40E+03	NV	NV	NV	Y	KPS
	7440-28-0	THALLIUM	0.52 J	0.52 J	mg/kg	WB18-SED-02	1/2	2.2-2.2	5.20E-01	NV	NV	NV	Y	NTX
	7440-62-2	VANADIUM	16	16	mg/kg	WB18-SED-02	2/2	-	1.60E+01	NV	NV	NV	Y	NTX
	7440-66-6	ZINC	54	130 J	mg/kg	WB18-SED-02	2/2	-	1.30E+02	1.20E+02	NV	1.20E+02	Y	ASL
	PCBs													
	11097-69-1	AROCLOR-1254	0.016 J	0.027 J	mg/kg	WB18-SED-02	2/2	-	2.70E-02	3.51E-01	NV	3.51E-01	N	BSL
	11100-14-4	AROCLOR-1268	0.017 J	0.024 J	mg/kg	WB18-SED-02	2/2	-	2.40E-02	3.51E-01	NV	3.51E-01	N	BSL
	PESTICIDES													
	60-57-1	DIELDRIN	0.0027 J	0.0027 J	mg/kg	WB18-SED-02	1/2	0.0037-0.0037	2.70E-03	1.64E-01	4.48E-02	4.48E-02	N	BSL
	SVOCs													
	56-55-3	BENZO(A)ANTHRACENE	0.1 J	0.19 J	mg/kg	WB18-SED-02	2/2	-	1.90E-01	2.18E-01	NV	2.18E-01	N	BSL
	50-32-8	BENZO(A)PYRENE	0.11 J	0.22 J	mg/kg	WB18-SED-02	2/2	-	2.20E-01	NV	NV	NV	Y	NTX
	205-99-2	BENZO(B)FLUORANTHENE	0.15 J	0.23 J	mg/kg	WB18-SED-02	2/2	-	2.30E-01	NV	NV	NV	Y	NTX
	191-24-2	BENZO(G,H,I)PERYLENE	0.071 J	0.16 J	mg/kg	WB18-SED-02	2/2	-	1.60E-01	NV	NV	NV	Y	NTX
	207-08-9	BENZO(K)FLUORANTHENE	0.12 J	0.24 J	mg/kg	WB18-SED-02	2/2	-	2.40E-01	NV	NV	NV	Y	NTX
	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	0.29 J	0.36 J	mg/kg	WB18-SED-02	2/2	-	3.60E-01	3.63E+00	NV	3.63E+00	N	BSL
	218-01-9	CHRYSENE	0.12 J	0.25 J	mg/kg	WB18-SED-02	2/2	-	2.50E-01	NV	NV	NV	Y	NTX
	206-44-0	FLUORANTHENE	0.42 J	0.52 J	mg/kg	WB18-SED-02	2/2	-	5.20E-01	1.86E+01	NV	1.86E+01	N	BSL
	193-39-5	INDENO(1,2,3-CD)PYRENE	0.065 J	0.15 J	mg/kg	WB18-SED-02	2/2	-	1.50E-01	NV	NV	NV	Y	NTX
	85-01-8	PHENANTHRENE	0.085 J	0.19 J	mg/kg	WB18-SED-02	2/2	-	1.90E-01	2.18E+00	NV	2.18E+00	N	BSL
	129-00-0	PYRENE	0.51 J	0.54 J	mg/kg	WB18-SED-02	2/2	-	5.40E-01	1.75E+01	NV	1.75E+01	N	BSL

TABLE 9
STREAMLINED RISK EVALUATION
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL ECOLOGICAL CONCERN
HONEYWELL WASTEBEDS 1-8 SITE - SEDIMENT
GEDDES, NEW YORK

Scenario Timeframe: Current/Future
Medium: Soil - Sediment
Exposure Medium: Sediment (0-0.5 ft bgs)

Exposure Point	CAS Numbers	Chemical	Minimum Concentration (1)	Maximum Concentration (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	NYSDEC Benthic Aquatic Life, Chronic Toxicity Values (mg/kg) (3)	NYSDEC Wildlife Bioaccumulation Values (mg/kg) (3)	Selected Screening Value (4)	COPEC Flag (Y/N)	Rationale for Selection or Deletion (5)
Ditch A South - Sediment	VOCs													
	78-93-3	2-BUTANONE	0.0066 J	0.008 J	mg/kg	WB18-SED-02	2/2	-	8.00E-03	NV	NV	NV	Y	NTX
	67-64-1	ACETONE	0.052 J	0.052 J	mg/kg	WB18-SED-02	2/2	-	5.20E-02	NV	NV	NV	Y	NTX
	71-43-2	BENZENE	0.0011 J	0.0011 J	mg/kg	WB18-SED-02	1/2	0.0053-0.0053	1.10E-03	5.10E-01	NV	5.10E-01	N	BSL
	75-15-0	CARBON DISULFIDE	0.0028 J	0.035	mg/kg	WB18-SED-02	2/2	-	3.50E-02	NV	NV	NV	Y	NTX

Footnotes:
(1) J - estimated value; N - tentatively identified at an estimated value
(2) Concentration used for screening is the maximum detected concentration.
(3) Values are from NYSDEC,1999. Metals data are Lowest Effect Levels. Criteria for organic compounds presented in NYSDEC (1999) were normalized to 1.8% organic carbon. This value (1.8%) is the average of total organic carbon values for sediment in Ditch A and the Ponded Area.
(4) The Screening Toxicity Value represents the minimum of the NYSDEC Values
(5) Rationale: ASL - Above Screening Level; NTX - No Toxicity Information; KPS - Known Physical Stressor; BSL - Below Screening Level; NUT - Essential nutrient
- = Compound detected in 100% of samples.

Definitions:
ARAR: Applicable or Relevant and Appropriate Requirements
CAS: Chemical Abstact Service
COPEC: Compound of Potential Ecological Concern
NV: No Value
NYSDEC: New York State Department of Environmental Conservation
PCBs: Polychlorinated Biphenyls
SVOCs: Semi-Volatile Organic Compounds
TBC: To Be Considered
USEPA: United States Environmental Protection Agency
VOCs: Volatile Organic Compounds

TABLE 10
STREAMLINED RISK EVALUATION
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
HONEYWELL WASTEBEDS 1-8 SITE- SEEP WATER
GEDDES, NEW YORK

Scenario Timeframe: Current/Future
Medium: Water
Exposure Medium: Seep Water

Exposure Point	CAS Numbers	Chemical	Minimum Concentration (1)	Maximum Concentration (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (ug/L) (2)	Background Value (3)	USEPA Regional Screening Levels (ug/L) (4)		Potential ARAR/TBC Value	Selected Screening Value (ug/L) (5)	COPC Flag (Y/N)	Rationale for Selection or Deletion (6)
Lakeshore - Seep Water	METALS															
	7429-90-5	ALUMINUM	0.019 J	2	mg/L	WB18-SP-30	3/7	0.1-0.1	2.00E+03		3.70E+03	n		3.70E+03	N	BSL
	7440-36-0	ANTIMONY	0.0018 J	0.0018 J	mg/L	WB18-SP-62	1/7	0.003-0.06	1.80E+00		1.50E+00	n		1.50E+00	Y	ASL
	7440-38-2	ARSENIC	0.0039 J	0.0059 B	mg/L	WB18-101-02	2/7	0.005-0.005	5.90E+00		4.50E-02	c		4.50E-02	Y	TOX
	7440-39-3	BARIUM	0.16	0.39	mg/L	WB18-SP-80	6/6	-	3.90E+02		7.30E+02	n		7.30E+02	N	BSL
	7440-41-7	BERYLLIUM	0.00006 J	0.00026 J	mg/L	WB18-SP-30	4/7	0.0005-0.01	2.60E-01		7.30E+00	n		7.30E+00	N	BSL
	7440-70-2	CALCIUM	770	1600	mg/L	WB18-SP-30	7/7	-	1.60E+06		NV			NV	N	NUT
	7440-47-3	CHROMIUM[a]	0.0032 J	0.0039 B	mg/L	WB18-101-02	2/7	0.01-0.01	3.90E+00		NV			NV	Y	NTX
	7440-48-4	COBALT	0.0022 B	0.0022 B	mg/L	WB18-101-02	1/7	0.05-0.05	2.20E+00		1.10E+00	n		1.10E+00	Y	ASL
	7440-50-8	COPPER	0.0033 J	0.0088 B	mg/L	WB18-101-02	3/7	0.01-0.01	8.80E+00		1.50E+02	n		1.50E+02	N	BSL
	57-12-5	CYANIDE	0.0041 J	0.0095 B	mg/L	WB18-101-02	6/7	0.01-0.01	9.50E+00		7.30E+01	n		7.30E+01	N	BSL
	7439-89-6	IRON	0.017 J	2.1	mg/L	WB18-SP-30	6/7	0.05-0.05	2.10E+03		2.60E+03	n		2.60E+03	N	BSL
	7439-92-1	LEAD	0.0038 J	0.017	mg/L	WB18-SP-30	7/7	-	1.70E+01		NV			NV	Y	NTX
	7439-95-4	MAGNESIUM	0.084 J	29	mg/L	WB18-SP-30	6/6	-	2.90E+04		NV			NV	N	NUT
	7439-96-5	MANGANESE	0.083	0.083	mg/L	WB18-SP-30	1/6	0.05-0.05	8.30E+01		8.80E+01	n		8.80E+01	N	BSL
	7439-97-6	MERCURY	0.0000027	0.0000552	mg/L	WB18-SP-30	6/7	0.00013-0.00013	5.52E-02		5.70E-02	n		5.70E-02	N	BSL
	7440-02-0	NICKEL	0.0016 J	0.0073 J	mg/L	WB18-SP-30	5/7	0.05-0.05	7.30E+00		7.30E+01	n		7.30E+01	N	BSL
	7440-09-7	POTASSIUM	9.2 J	38 J	mg/L	WB18-SP-30	6/6	-	3.80E+04		NV			NV	N	NUT
	7782-49-2	SELENIUM	0.0014 J	0.0014 J	mg/L	WB18-SP-62	1/7	0.005-0.009	1.40E+00		1.80E+01	n		1.80E+01	N	BSL
	7440-23-5	SODIUM	61	284	mg/L	WB18-101-02	7/7	-	2.84E+05		NV			NV	N	NUT
	7440-62-2	VANADIUM	0.0015 B	0.0046 J	mg/L	WB18-SP-30	2/7	0.05-0.05	4.60E+00		2.60E+01	n		2.60E+01	N	BSL
	7440-66-6	ZINC	0.0083 B	0.037	mg/L	WB18-SP-30	2/7	0.01-0.01	3.70E+01		1.10E+03	n		1.10E+03	N	BSL
	PESTICIDES															
	1024-57-3	HEPTACHLOR EPOXIDE	0.072 J	0.072 J	ug/L	WB18-SP-80	1/6	0.051-0.052	7.20E-02		7.40E-03	c		7.40E-03	Y	ASL
	SVOCs															
	105-67-9	2,4-DIMETHYLPHENOL	1.2 J	1.2 J	ug/L	WB18-SP-30	1/7	10-10	1.20E+00		7.30E+01	n		7.30E+01	N	BSL
	91-57-6	2-METHYLNAPHTHALENE	1.5 J	79	ug/L	WB18-101-02	7/7	-	7.90E+01		1.50E+01	n		1.50E+01	Y	ASL
	95-48-7	2-METHYLPHENOL	2.6 J	5.1 J	ug/L	WB18-SP-30	4/7	10-10	5.10E+00		1.80E+02	n		1.80E+02	N	BSL
	106-44-5	4-METHYLPHENOL	1.4 J	40	ug/L	WB18-SP-80	7/7	-	4.00E+01		1.80E+01	n		1.80E+01	Y	ASL
	100-02-7	4-NITROPHENOL	1.9 J	1.9 J	ug/L	WB18-SP-62	1/7	20-52	1.90E+00		NV			NV	Y	NTX
	120-12-7	ANTHRACENE	1.1 J	1.7 J	ug/L	WB18-SP-80	2/7	10-10	1.70E+00		1.10E+03	n		1.10E+03	N	BSL
	132-64-9	DIBENZOFURAN	1.2 J	7 J	ug/L	WB18-101-02	7/7	-	7.00E+00		NV			NV	Y	NTX
	86-73-7	FLUORENE	5 J	5 J	ug/L	WB18-101-02	1/7	10-10	5.00E+00		1.50E+02	n		1.50E+02	N	BSL
	91-20-3	NAPHTHALENE	12	1900	ug/L	WB18-101-02	7/8	10-10	1.90E+03		1.40E-01	c		1.40E-01	Y	ASL
	85-01-8	PHENANTHRENE	1.1 J	9.9 J	ug/L	WB18-SP-62	7/7	-	9.90E+00		NV			NV	Y	NTX
	108-95-2	PHENOL	6.7 J	26	ug/L	WB18-SP-80	7/7	-	2.60E+01		1.10E+03	n		1.10E+03	N	BSL
	VOCs															
	95-63-6	1,2,4-TRIMETHYLBENZENE	100	100	ug/L	WB18-101-02	1/1	-	1.00E+02		1.50E+00	n		1.50E+00	Y	ASL
	108-67-8	1,3,5-TRIMETHYLBENZENE	75	75	ug/L	WB18-101-02	1/1	-	7.50E+01		1.20E+00	n		1.20E+00	Y	ASL
	78-93-3	2-BUTANONE	2.9 J	7.7 J	ug/L	WB18-SP-62	3/7	60-100	7.70E+00		7.10E+02	n		7.10E+02	N	BSL
	591-78-6	2-HEXANONE	1.1 J	2.9 J	ug/L	WB18-SP-62	2/7	5-60	2.90E+00		NV			NV	Y	NTX
	67-64-1	ACETONE	12 J	150	ug/L	WB18-101-02	7/7	-	1.50E+02		2.20E+03	n		2.20E+03	N	BSL
	71-43-2	BENZENE	2.4 J	14	ug/L	WB18-SP-30	2/7	0.5-60	1.40E+01		4.10E-01	c		4.10E-01	Y	TOX
	100-41-4	ETHYLBENZENE	1.6 J	5.1	ug/L	WB18-SP-30	3/7	0.5-60	5.10E+00		1.50E+00	c		1.50E+00	Y	ASL
	135-98-8	SEC-BUTYLBENZENE	17 J	17 J	ug/L	WB18-101-02	1/1	-	1.70E+01		NV			NV	Y	NTX
	100-42-5	STYRENE	8.1 J	8.1 J	ug/L	WB18-SP-30	1/7	0.5-60	8.10E+00		1.60E+02	n		1.60E+02	N	BSL
	108-88-3	TOLUENE	0.25 J	33	ug/L	WB18-SP-80	6/7	60-60	3.30E+01		2.30E+02	n		2.30E+02	N	BSL
	XYLENES1314	XYLENES, M & P[b]	38 J	38 J	ug/L	WB18-101-02	1/1	-	3.80E+01		2.00E+01	n		2.00E+01	Y	ASL
	1330-20-7	XYLENES, TOTAL	0.1 J	130	ug/L	WB18-SP-30	7/7	-	1.30E+02		2.00E+01	n		2.00E+01	Y	ASL

TABLE 10
STREAMLINED RISK EVALUATION
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
HONEYWELL WASTEBEDS 1-8 SITE- SEEP WATER
GEDDES, NEW YORK

Scenario Timeframe: Current/Future
Medium: Water
Exposure Medium: Seep Water

Exposure Point	CAS Numbers	Chemical	Minimum Concentration (1)	Maximum Concentration (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (ug/L) (2)	Background Value (3)	USEPA Regional Screening Levels (ug/L) (4)		Potential ARAR/TBC Value	Selected Screening Value (ug/L) (5)	COPC Flag (Y/N)	Rationale for Selection or Deletion (6)
Lakeshore - Seep Water	OTHER															
	16887-00-6	CHLORIDE	390	1800	mg/L	WB18-SP-30	6/6	-	1.80E+06		NV			NV	Y	NTX
	14808-79-8	SULFATE	23 J	120 J	mg/L	WB18-SP-29	6/6	-	1.20E+05		NV			NV	Y	NTX

Footnotes:
(1) J - estimated value; B - estimated value; N - tentatively identified at an estimated value
(2) Concentration used for screening is the maximum detected concentration.
(3) No background screening performed.
(4) USEPA Regional Screening Levels (April 2009) for tap water; C = Cancer RSL; N = Noncancer RSL; NV = No RSL.
Noncancer RSLs adjusted by multiplying RSL by 0.1.
(5) The selected screening values are the USEPA RSLs.
(6) Selection Rationale: ASL - Above Screening Level; NTX - No Toxicity Information; TOX - Class A Carcinogen. Deletion Rationale: BSL - Below
- = Compound detected in 100% of samples.
a = RSL value for chromium VI utilized.
b = RSL value for xylenes, total utilized.

Definitions:
ARAR: Applicable or Relevant and Appropriate Requirements
CAS: Chemical Abstact Service
COPC: Compound of Potential Concern
NV: No Value
PCBs: Polychlorinated Biphenyls
SVOCs: Semi-Volatile Organic Compounds
TBC: To Be Considered
USEPA: United States Environmental Protection Agency
VOCs: Volatile Organic Compounds

TABLE 11
STREAMLINED RISK EVALUATION
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL ECOLOGICAL CONCERN
HONEYWELL WASTEBEDS 1-8 SITE- GROUND WATER
GEDDES, NEW YORK

Scenario Timeframe: Current/Future
Medium: Water
Exposure Medium: Seep Water

Exposure Point	CAS Numbers	Chemical	Minimum Concentration (1)	Maximum Concentration (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (mg/L) (2)	National Recommended Water Quality Criteria- Freshwater CCC (mg/L) (3)	NYSDEC Ambient Water Quality Criteria and Guidance Values (fish propogation) (mg/L) (4)	NYSDEC Ambient Water Quality Criteria and Guidance Values (wildlife protection) (mg/L) (4)	Selected Screening Value (mg/L) (5)	COPEC Flag (Y/N)	Rationale for Selection or Deletion (6)
Lakeshore - Seep Water	METALS														
	7429-90-5	ALUMINUM	0.019 J	2	mg/L	WB18-SP-30	3/7	0.1-0.1	2.00E+00	8.70E-02	1.00E-01	NV	8.70E-02	Y	ASL
	7440-36-0	ANTIMONY	0.0018 J	0.0018 J	mg/L	WB18-SP-62	1/7	0.003-0.06	1.80E-03	NV	NV	NV	NV	Y	NTX
	7440-38-2	ARSENIC	0.0039 J	0.0059 B	mg/L	WB18-101-02	2/7	0.005-0.005	5.90E-03	1.50E-01	1.50E-01	NV	1.50E-01	N	BSL
	7440-39-3	BARIUM	0.16	0.39	mg/L	WB18-SP-80	6/6	-	3.90E-01	NV	NV	NV	NV	Y	NTX
	7440-41-7	BERYLLIUM	0.00006 J	0.00026 J	mg/L	WB18-SP-30	4/7	0.0005-0.01	2.60E-04	NV	1.10E+00	NV	1.10E+00	N	BSL
	7440-70-2	CALCIUM	770	1600	mg/L	WB18-SP-30	7/7	-	1.60E+03	NV	NV	NV	NV	Y	KPS
	7440-47-3	CHROMIUM	0.0032 J	0.0039 B	mg/L	WB18-101-02	2/7	0.01-0.01	3.90E-03	1.10E-02	4.65E-03	NV	4.65E-03	N	BSL
	7440-48-4	COBALT	0.0022 B	0.0022 B	mg/L	WB18-101-02	1/7	0.05-0.05	2.20E-03	NV	5.00E-03	NV	5.00E-03	N	BSL
	7440-50-8	COPPER	0.0033 J	0.0088 B	mg/L	WB18-101-02	3/7	0.01-0.01	8.80E-03	9.00E-03	2.69E-03	NV	2.69E-03	Y	ASL
	57-12-5	CYANIDE	0.0041 J	0.0095 B	mg/L	WB18-101-02	6/7	0.01-0.01	9.50E-03	NV	5.20E-03	NV	5.20E-03	Y	ASL
	7439-89-6	IRON	0.017 J	2.1	mg/L	WB18-SP-30	6/7	0.05-0.05	2.10E+00	1.00E+00	3.00E-01	NV	3.00E-01	Y	ASL
	7439-92-1	LEAD	0.0038 J	0.017	mg/L	WB18-SP-30	7/7	-	1.70E-02	2.50E-03	7.39E-04	NV	7.39E-04	Y	ASL
	7439-95-4	MAGNESIUM	0.084 J	29	mg/L	WB18-SP-30	6/6	-	2.90E+01	NV	NV	NV	NV	N	NUT
	7439-96-5	MANGANESE	0.083	0.083	mg/L	WB18-SP-30	1/6	0.05-0.05	8.30E-02	NV	NV	NV	NV	Y	NTX
	7439-97-6	MERCURY	0.0000027	0.0000552	mg/L	WB18-SP-30	6/7	0.00013-0.00013	5.52E-05	7.70E-04	7.70E-04	2.60E-06	2.60E-06	Y	ASL
	7440-02-0	NICKEL	0.0016 J	0.0073 J	mg/L	WB18-SP-30	5/7	0.05-0.05	7.30E-03	5.20E-02	9.88E-04	NV	9.88E-04	Y	ASL
	7440-09-7	POTASSIUM	9.2 J	38 J	mg/L	WB18-SP-30	6/6	-	3.80E+01	NV	NV	NV	NV	N	NUT
	7782-49-2	SELENIUM	0.0014 J	0.0014 J	mg/L	WB18-SP-62	1/7	0.005-0.009	1.40E-03	5.00E-03	4.60E-03	NV	4.60E-03	N	BSL
	7440-23-5	SODIUM	61	284	mg/L	WB18-101-02	7/7	-	2.84E+02	NV	NV	NV	NV	Y	KPS
	7440-62-2	VANADIUM	0.0015 B	0.0046 J	mg/L	WB18-SP-30	2/7	0.05-0.05	4.60E-03	NV	1.40E-02	NV	1.40E-02	N	BSL
	7440-66-6	ZINC	0.0083 B	0.037	mg/L	WB18-SP-30	2/7	0.01-0.01	3.70E-02	1.20E-01	4.32E-03	NV	4.32E-03	Y	ASL
	PESTICIDES														
	1024-57-3	HEPTACHLOR EPOXIDE	0.072 J	0.072 J	ug/L	WB18-SP-80	1/6	0.051-0.052	7.20E-05	3.80E-06	NV	NV	3.80E-06	Y	ASL
	SVOCs														
	105-67-9	2,4-DIMETHYLPHENOL	1.2 J	1.2 J	ug/L	WB18-SP-30	1/7	10-10	1.20E-03	NV	NV	NV	NV	Y	NTX
	91-57-6	2-METHYLNAPHTHALENE	1.5 J	79	ug/L	WB18-101-02	7/7	-	7.90E-02	NV	4.70E-03	NV	4.70E-03	Y	ASL
	95-48-7	2-METHYLPHENOL	2.6 J	5.1 J	ug/L	WB18-SP-30	4/7	10-10	5.10E-03	NV	NV	NV	NV	Y	NTX
	106-44-5	4-METHYLPHENOL	1.4 J	40	ug/L	WB18-SP-80	7/7	-	4.00E-02	NV	NV	NV	NV	Y	NTX
	100-02-7	4-NITROPHENOL	1.9 J	1.9 J	ug/L	WB18-SP-62	1/7	20-52	1.90E-03	NV	NV	NV	NV	Y	NTX
	120-12-7	ANTHRACENE	1.1 J	1.7 J	ug/L	WB18-SP-80	2/7	10-10	1.70E-03	NV	3.80E-03	NV	3.80E-03	N	BSL
	132-64-9	DIBENZOFURAN	1.2 J	7 J	ug/L	WB18-101-02	7/7	-	7.00E-03	NV	NV	NV	NV	Y	NTX
	86-73-7	FLUORENE	5 J	5 J	ug/L	WB18-101-02	1/7	10-10	5.00E-03	NV	5.40E-04	NV	5.40E-04	Y	ASL
	91-20-3	NAPHTHALENE	12	1900	ug/L	WB18-101-02	7/8	10-10	1.90E+00	NV	1.30E-02	NV	1.30E-02	Y	ASL
	85-01-8	PHENANTHRENE	1.1 J	9.9 J	ug/L	WB18-SP-62	7/7	-	9.90E-03	NV	5.00E-03	NV	5.00E-03	Y	ASL
	108-95-2	PHENOL	6.7 J	26	ug/L	WB18-SP-80	7/7	-	2.60E-02	NV	NV	NV	NV	Y	NTX
	VOCs														
	95-63-6	1,2,4-TRIMETHYLBENZENE	100	100	ug/L	WB18-101-02	1/1	-	1.00E-01	NV	NV	NV	NV	Y	NTX
	108-67-8	1,3,5-TRIMETHYLBENZENE	75	75	ug/L	WB18-101-02	1/1	-	7.50E-02	NV	NV	NV	NV	Y	NTX
	78-93-3	2-BUTANONE	2.9 J	7.7 J	ug/L	WB18-SP-62	3/7	60-100	7.70E-03	NV	NV	NV	NV	Y	NTX
	591-78-6	2-HEXANONE	1.1 J	2.9 J	ug/L	WB18-SP-62	2/7	5-60	2.90E-03	NV	NV	NV	NV	Y	NTX
	67-64-1	ACETONE	12 J	150	ug/L	WB18-101-02	7/7	-	1.50E-01	NV	NV	NV	NV	Y	NTX
	71-43-2	BENZENE	2.4 J	14	ug/L	WB18-SP-30	2/7	0.5-60	1.40E-02	NV	2.10E-01	NV	2.10E-01	N	BSL
	100-41-4	ETHYLBENZENE	1.6 J	5.1	ug/L	WB18-SP-30	3/7	0.5-60	5.10E-03	NV	1.70E-02	NV	1.70E-02	N	BSL
	135-98-8	SEC-BUTYLBENZENE	17 J	17 J	ug/L	WB18-101-02	1/1	-	1.70E-02	NV	NV	NV	NV	Y	NTX
	100-42-5	STYRENE	8.1 J	8.1 J	ug/L	WB18-SP-30	1/7	0.5-60	8.10E-03	NV	NV	NV	NV	Y	NTX
	108-88-3	TOLUENE	0.25 J	33	ug/L	WB18-SP-80	6/7	60-60	3.30E-02	NV	1.00E-01	NV	1.00E-01	N	BSL
	XYLENES1314	XYLENES, M & P[a]	38 J	38 J	ug/L	WB18-101-02	1/1	-	3.80E-02	NV	6.50E-02	NV	6.50E-02	N	BSL
	1330-20-7	XYLENES, TOTAL	0.1 J	130	ug/L	WB18-SP-30	7/7	-	1.30E-01	NV	6.50E-02	NV	6.50E-02	Y	ASL

TABLE 11
STREAMLINED RISK EVALUATION
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL ECOLOGICAL CONCERN
HONEYWELL WASTEBEDS 1-8 SITE- GROUND WATER
GEDDES, NEW YORK

Scenario Timeframe: Current/Future
Medium: Water
Exposure Medium: Seep Water

Exposure Point	CAS Numbers	Chemical	Minimum Concentration (1)	Maximum Concentration (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (mg/L) (2)	National Recommended Water Quality Criteria- Freshwater CCC (mg/L) (3)	NYSDEC Ambient Water Quality Criteria and Guidance Values (fish propogation) (mg/L) (4)	NYSDEC Ambient Water Quality Criteria and Guidance Values (wildlife protection) (mg/L) (4)	Selected Screening Value (mg/L) (5)	COPEC Flag (Y/N)	Rationale for Selection or Deletion (6)
Lakeshore - Seep Water	OTHER														
	16887-00-6	CHLORIDE	390	1800	mg/L	WB18-SP-30	6/6	-	1.80E+03	2.30E+02	NV	NV	2.30E+02	Y	ASL
	14808-79-8	SULFATE	23 J	120 J	mg/L	WB18-SP-29	6/6	-	1.20E+02	NV	NV	NV	NV	Y	NTX

Footnotes:
(1) J - estimated value; B- estimated value; N - tentatively identified at an estimated value
(2) Concentration used for screening is the maximum detected concentration.
(3) Values are from USEPA, 2007. Current National Recommended Water Quality Criteria. Available online at: http://www.epa.gov/waterscience/criteria/wqcriteria.html
(4) Values are from NYSDEC TOGS 111, New York State Ambient Water Quality Criteria and Guidance Values, 1998. The lowest of the standard and guidance values was utilized.
For hardness dependent values, maximum hardness of 840 mg/L used as representative surface water hardness.
(5) The Screening Toxicity Value represents the minimum of the presented values.
(6) Selection Rationale: ASL - Above Screening Level; NTX - No Toxicity Information; KPS - Known Physical Stressor; BSL - Below Screening Level; NUT -
Compound is an essential nutrient. Compounds are selected as COPECs if the selected screening concentration is greater than the selected criteria or if there are no screening criteria available.
- = Compound detected in 100% of samples.
a = Values for xylenes, total utilized.

Definitions:
ARAR: Applicable or Relevant and Appropriate Requirements
CAS: Chemical Abstact Service
COPEC: Compound of Potential Ecological Concern
NV: No Value
NYSDEC: New York State Department of Environmental Conservation
PCBs: Polychlorinated Biphenyls
SVOCs: Semi-Volatile Organic Compounds
TBC: To Be Considered
USEPA: United States Environmental Protection Agency
VOCs: Volatile Organic Compounds

TABLE 12
STREAMLINED RISK EVALUATION
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
HONEYWELL WASTEBEDS 1-8 SITE- SEEP WATER
GEDDES, NEW YORK

Scenario Timeframe: Current/Future
Medium: Water
Exposure Medium: Seep Water

Exposure Point	CAS Numbers	Chemical	Minimum Concentration (1)	Maximum Concentration (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (ug/L) (2)	Background Value (3)	USEPA Regional Screening Levels (ug/L) (4)		Potential ARAR/TBC Value	Selected Screening Value (ug/L) (5)	COPC Flag (Y/N)	Rationale for Selection or Deletion (6)
Ninemile Creek Shoreline - Seep Water	METALS															
	7429-90-5	ALUMINUM	0.29	0.29	mg/L	WB18-SP-104	1/1	-	2.90E+02		3.70E+03	n		3.70E+03	N	BSL
	7440-39-3	BARIUM	0.099 J	0.099 J	mg/L	WB18-SP-104	1/1	-	9.90E+01		7.30E+02	n		7.30E+02	N	BSL
	7440-41-7	BERYLLIUM	0.00007 J	0.00007 J	mg/L	WB18-SP-104	1/1	-	7.00E-02		7.30E+00	n		7.30E+00	N	BSL
	7440-70-2	CALCIUM	660	660	mg/L	WB18-SP-104	1/1	-	6.60E+05		NV			NV	N	NUT
	7440-50-8	COPPER	0.0023 J	0.0023 J	mg/L	WB18-SP-104	1/1	-	2.30E+00		1.50E+02	n		1.50E+02	N	BSL
	57-12-5	CYANIDE	0.0035 J	0.0035 J	mg/L	WB18-SP-104	1/1	-	3.50E+00		7.30E+01	n		7.30E+01	N	BSL
	7439-89-6	IRON	0.069	0.069	mg/L	WB18-SP-104	1/1	-	6.90E+01		2.60E+03	n		2.60E+03	N	BSL
	7439-92-1	LEAD	0.0044 J	0.0044 J	mg/L	WB18-SP-104	1/1	-	4.40E+00		NV			NV	Y	NTX
	7439-95-4	MAGNESIUM	2.2	2.2	mg/L	WB18-SP-104	1/1	-	2.20E+03		NV			NV	N	NUT
	7439-96-5	MANGANESE	0.002 J	0.002 J	mg/L	WB18-SP-104	1/1	-	2.00E+00		8.8E+01	n		8.80E+01	N	BSL
	7439-97-6	MERCURY	0.0000089	0.0000089	mg/L	WB18-SP-104	1/1	-	8.90E-03		5.70E-02	n		5.70E-02	N	BSL
	7440-02-0	NICKEL	0.0011 J	0.0011 J	mg/L	WB18-SP-104	1/1	-	1.10E+00		7.30E+01	n		7.30E+01	N	BSL
	7440-09-7	POTASSIUM	3.2 J	3.2 J	mg/L	WB18-SP-104	1/1	-	3.20E+03		NV			NV	N	NUT
	7440-23-5	SODIUM	27	27	mg/L	WB18-SP-104	1/1	-	2.70E+04		NV			NV	N	NUT
	7440-62-2	VANADIUM	0.00085 J	0.00085 J	mg/L	WB18-SP-104	1/1	-	8.50E-01		2.60E+01	n		2.60E+01	N	BSL
	7440-66-6	ZINC	0.0065 J	0.0065 J	mg/L	WB18-SP-104	1/1	-	6.50E+00		1.10E+03	n		1.10E+03	N	BSL
	VOCs															
	67-64-1	ACETONE	3.5 J	3.5 J	ug/L	WB18-SP-104	1/1	-	3.50E+00		2.20E+03	n		2.20E+03	N	BSL
	75-09-2	METHYLENE CHLORIDE	0.16 J	0.16 J	ug/L	WB18-SP-104	1/1	-	1.60E-01		4.80E+00	c		4.80E+00	N	BSL

Footnotes:
(1) J - estimated value; N - tentatively identified at an estimated value
(2) Concentration used for screening is the maximum detected concentration.
(3) No background screening performed.
(4) USEPA Regional Screening Levels (April 2009) for tap water; C = Cancer RSL; N = Noncancer RSL; NV = No RSL.
Noncancer RSLs adjusted by multiplying RSL by 0.1.
(5) The selected screening values are the USEPA RSLs.
(6) Selection Rationale: ASL - Above Screening Level; NTX - No Toxicity Information; TOX - Class A Carcinogen. Deletion Rationale: BSL - Below Screening Level, NUT - Essential Nutrient
- = Compound detected in 100% of samples.

Definitions:
ARAR: Applicable or Relevant and Appropriate Requirements
CAS: Chemical Abstact Service
COPC: Compound of Potential Concern
NV: No Value
TBC: To Be Considered
USEPA: United States Environmental Protection Agency
VOCs: Volatile Organic Compounds

TABLE 13
STREAMLINED RISK EVALUATION
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL ECOLOGICAL CONCERN
HONEYWELL WASTEBEDS 1-8 SITE- GROUND WATER
GEDDES, NEW YORK

Scenario Timeframe: Current/Future
Medium: Water
Exposure Medium: Seep Water

Exposure Point	CAS Numbers	Chemical	Minimum Concentration (1)	Maximum Concentration (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (mg/L) (2)	National Recommended Water Quality Criteria- Freshwater CCC (mg/L) (3)	NYSDEC Ambient Water Quality Criteria and Guidance Values (fish propogation) (mg/L) (4)	NYSDEC Ambient Water Quality Criteria and Guidance Values (wildlife protection) (mg/L) (4)	Selected Screening Value (mg/L) (5)	COPEC Flag (Y/N)	Rationale for Selection or Deletion (6)
Nine Mile Creek Shoreline - Seep Water	METALS														
	7429-90-5	ALUMINUM	0.29	0.29	mg/L	WB18-SP-104	1/1	-	2.90E-01	8.70E-02	1.00E-01	NV	8.70E-02	Y	ASL
	7440-39-3	BARIUM	0.099 J	0.099 J	mg/L	WB18-SP-104	1/1	-	9.90E-02	NV	NV	NV	NV	Y	NTX
	7440-41-7	BERYLLIUM	0.00007 J	0.00007 J	mg/L	WB18-SP-104	1/1	-	7.00E-05	NV	1.10E+00	NV	1.10E+00	N	BSL
	7440-70-2	CALCIUM	660	660	mg/L	WB18-SP-104	1/1	-	6.60E+02	NV	NV	NV	NV	Y	KPS
	7440-50-8	COPPER	0.0023 J	0.0023 J	mg/L	WB18-SP-104	1/1	-	2.30E-03	9.00E-03	2.69E-03	NV	2.69E-03	N	BSL
	57-12-5	CYANIDE	0.0035 J	0.0035 J	mg/L	WB18-SP-104	1/1	-	3.50E-03	NV	5.20E-03	NV	5.20E-03	N	BSL
	7439-89-6	IRON	0.069	0.069	mg/L	WB18-SP-104	1/1	-	6.90E-02	1.00E+00	3.00E-01	NV	3.00E-01	N	BSL
	7439-92-1	LEAD	0.0044 J	0.0044 J	mg/L	WB18-SP-104	1/1	-	4.40E-03	2.50E-03	7.39E-04	NV	7.39E-04	Y	ASL
	7439-95-4	MAGNESIUM	2.2	2.2	mg/L	WB18-SP-104	1/1	-	2.20E+00	NV	NV	NV	NV	N	NUT
	7439-96-5	MANGANESE	0.002 J	0.002 J	mg/L	WB18-SP-104	1/1	-	2.00E-03	NV	NV	NV	NV	Y	NTX
	7439-97-6	MERCURY	0.0000089	0.0000089	mg/L	WB18-SP-104	1/1	-	8.90E-06	7.70E-04	7.70E-04	2.60E-06	2.60E-06	Y	ASL
	7440-02-0	NICKEL	0.0011 J	0.0011 J	mg/L	WB18-SP-104	1/1	-	1.10E-03	5.20E-02	9.88E-04	NV	9.88E-04	Y	ASL
	7440-09-7	POTASSIUM	3.2 J	3.2 J	mg/L	WB18-SP-104	1/1	-	3.20E+00	NV	NV	NV	NV	N	NUT
	7440-23-5	SODIUM	27	27	mg/L	WB18-SP-104	1/1	-	2.70E+01	NV	NV	NV	NV	Y	KPS
	7440-62-2	VANADIUM	0.00085 J	0.00085 J	mg/L	WB18-SP-104	1/1	-	8.50E-04	NV	1.40E-02	NV	1.40E-02	N	BSL
	7440-66-6	ZINC	0.0065 J	0.0065 J	mg/L	WB18-SP-104	1/1	-	6.50E-03	1.20E-01	4.32E-03	NV	4.32E-03	Y	ASL
	VOCs														
	67-64-1	ACETONE	3.5 J	3.5 J	ug/L	WB18-SP-104	1/1	-	3.50E-03	NV	NV	NV	NV	Y	NTX
	75-09-2	METHYLENE CHLORIDE	0.16 J	0.16 J	ug/L	WB18-SP-104	1/1	-	1.60E-04	NV	NV	NV	NV	Y	NTX

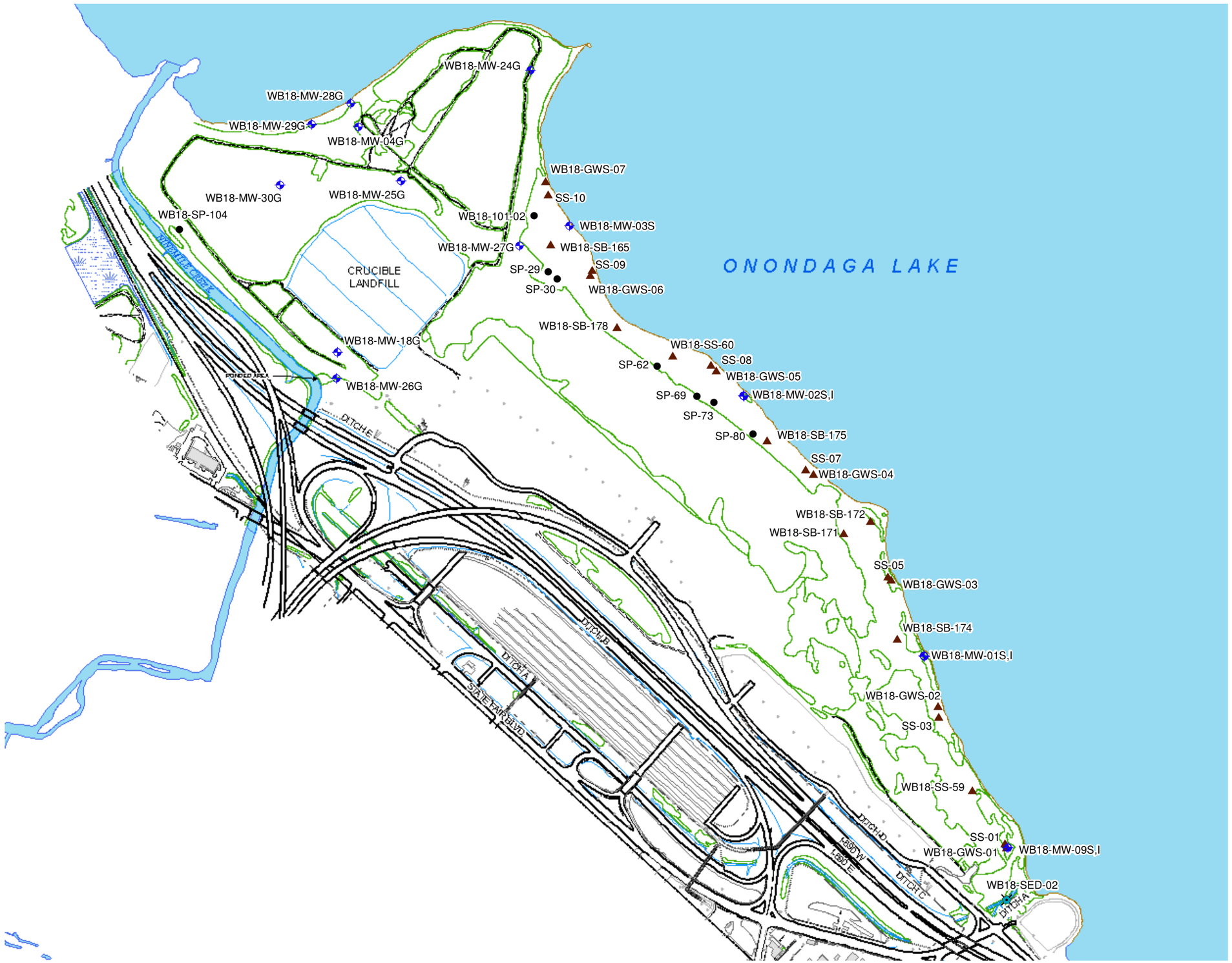
Footnotes:
(1) J - estimated value; N - tentatively identified at an estimated value
(2) Concentration used for screening is the maximum detected concentration.
(3) Values are from USEPA, 2007. Current National Recommended Water Quality Criteria. Available online at: http://www.epa.gov/waterscience/criteria/wqcriteria.html
(4) Values are from NYSDEC TOGS 111, New York State Ambient Water Quality Criteria and Guidance Values, 1998. The lowest of the standard and guidance values was utilized.
For hardness dependent values, maximum hardness of 840 mg/L used as representative surface water hardness.
(5) The Screening Toxicity Value represents the minimum of the presented values.
(6) Rationale: ASL - Above Screening Level; NTX - No Toxicity Information; KPS - Known Physical Stressor; BSL - Below Screening Level; NUT - Compound is an essential nutrient. Compounds are selected as COPECs if the selected screening concentration is greater than the selected criteria or if there are no screening criteria available.
- = Compound detected in 100% of samples.

Definitions:
ARAR: Applicable or Relevant and Appropriate Requirements
CAS: Chemical Abstact Service
COPEC: Compound of Potential Ecological Concern
NV: No Value
NYSDEC: New York State Department of Environmental Conservation
TBC: To Be Considered
USEPA: United States Environmental Protection Agency
VOCs: Volatile Organic Compounds

TABLE 14
SAMPLE LOCATIONS
HONEYWELL WASTEBEDS 1-8 IRM EVALUATION
GEDDES, NEW YORK

Lakeshore Area Groundwater Wells	Eastern Shoreline Surface Soil	NMC SG Unit Groundwater Wells	Lakeshore Area Seep Water	Ditch A South Sediment	NMC Seep Water
WB18-GWS-01S	WB18-SB-165	WB18-MW-04G	WB18-101-02	WB18-SED-02	WB18-SP-104
WB18-GWS-01S2	WB18-SB-171	WB18-MW-18G	WB18-SP-29		
WB18-GWS-02I	WB18-SB-172	WB18-MW-24G	WB18-SP-30		
WB18-GWS-02S	WB18-SB-174	WB18-MW-25G	WB18-SP-62		
WB18-GWS-02S2	WB18-SB-175	WB18-MW-26G	WB18-SP-69		
WB18-GWS-03I	WB18-SB-178	WB18-MW-27G	WB18-SP-73		
WB18-GWS-03S	WB18-SS-01	WB18-MW-28G	WB18-SP-80		
WB18-GWS-03S2	WB18-SS-03	WB18-MW-29G			
WB18-GWS-04I	WB18-SS-05	WB18-MW-30G			
WB18-GWS-04S	WB18-SS-07				
WB18-GWS-04S2	WB18-SS-08				
WB18-GWS-05I	WB18-SS-09				
WB18-GWS-05S	WB18-SS-10				
WB18-GWS-05S2	WB18-SS-59				
WB18-GWS-06I	WB18-SS-60				
WB18-GWS-06S					
WB18-GWS-06S2					
WB18-GWS-07I					
WB18-GWS-07S					
WB18-MW-01I					
WB18-MW-01S					
WB18-MW-02I					
WB18-MW-02S					
WB18-MW-03S					
WB18-MW-09I					
WB18-MW-09S					

FIGURE 1



LEGEND

- MONITORING WELL
- SEEP
- SOIL BORING/SUFACE SOIL
- SEDIMENT

HONEYWELL
WASTEBEDS 1 - 8
FOCUSED FEASIBILITY STUDY
GEDDES, NEW YORK

SAMPLE LOCATIONS

0 350 700 1,400
Feet

NOVEMBER 2009
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