FIGURE 3.3

SCHEMATIC OF TYPICAL UPLAND BARRIER WALL

GROUNDWATER EXTRACTION WELLS

UPLAND/SHORELINE SLURRY BARRIER WALL

GROUNDWATER FLOW

SURFACE UNIT

CONTAMINANT BEARING UNIT

AQUITARD

NOT TO SCALE
**SCHEMATIC OF TYPICAL DREDGING OPERATION**

**FIGURE 3.4**

**NOT TO SCALE**

DMMU: Dredged Material Management Unit

**HYDRAULIC**

**MECHANICAL**

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Honeywell
ONONDAGA LAKE
SYRACUSE, NEW YORK

SCHEMATIC OF TYPICAL DREDGING OPERATION

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FIGURE 3.5

Schematic of Typical Dry Removal Operation

NOT TO SCALE

DMMU: Dredged Material Management Unit

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FIGURE 3.6

Schematic of SilT Curtain Deployment

Curtain Closed During Dredging

Curtain Open During Transport

Area of Sediment Contamination

Transport Barge

(for mechanical dredging)

NOT TO SCALE
**Mechanical Dredging**

- Place Dredge Sediments in Barge
  - Barge Dewatering with Filtration if Needed
  - Transport to Shoreline Offloading Facility
    - Offload to Trucks or Other Land Transport
      - Offload Sediments to Dewatering Facility
        - Dewater by Active or Passive Methods
          - Consolidate at On-site SCA and Close SCA
            - Transport to Offsite Disposal or Treatment Facility

**Hydraulic Dredging**

- Transport Sediment Slurry via Pipeline
  - Discharge Slurry to On-site SCA or Pond
    - Solids Separation by Passive (settling) or Active (treatment) Methods
      - Discharge Water with Prior Treatment if Needed
        - Excavate and Transport via Truck or Other Land Method

SCA: Sediment Consolidation Area
FIGURE 3.8

Schematic of Upland Sediment Consolidation Area

- Impermeable Liner
- Sediment Drainage Layer
- Contaminated Dewatered Sediments
- Vegetation Layer
- Drainage
- BERM
- Existing Ground Surface