

TABLE 2.1

PREVIOUS INVESTIGATIONS AT OU3  
 PHASE II WORK PLAN  
 VANADIUM CORPORATION OF AMERICA  
 NIAGARA FALLS, NEW YORK

<i>Year</i>	<i>Consultant</i>	<i>Previous Investigation</i>
2003	Conestoga-Rovers & Associates	<p><b>Soil Borings</b></p> <ul style="list-style-type: none"> <li>- 15 boreholes were drilled</li> </ul> <p><b>Subsurface Soil Sampling</b></p> <ul style="list-style-type: none"> <li>- 2 samples were collected at each borehole; one from the slag/fill material and one from the native soil (where possible)</li> <li>- Analyzed for pH, TAL inorganics, and hexavalent chromium</li> </ul> <p><b>Monitoring Well Installation and Groundwater Sampling</b></p> <ul style="list-style-type: none"> <li>- 14 shallow groundwater monitoring wells were installed</li> <li>- 4 rounds of hydraulic water levels and 2 rounds of groundwater samples were collected</li> <li>- Analyzed for pH, TAL inorganics, and hexavalent chromium</li> </ul> <p><b>Surface Water and Sediment Sampling</b></p> <ul style="list-style-type: none"> <li>- 4 rounds of surface water sampling and 1 round of sediment sampling at 17 locations</li> <li>- Analyzed for pH, TAL inorganics, and hexavalent chromium</li> </ul> <p><b>Soil Cover Material Sampling</b></p> <ul style="list-style-type: none"> <li>- 3 samples collected</li> <li>- Analyzed for particle size distribution, liquid limit, plastic limit, plastic index, and hydraulic conductivity</li> </ul> <p><b>Test Pit Excavations</b></p> <ul style="list-style-type: none"> <li>- 21 test pits excavated to delineate extent of slag material</li> <li>- 1 sample collected and analyzed for TAL inorganics and hexavalent chromium</li> </ul>
2001	Golder Associates Inc.	<p><b>Groundwater Well Sampling and Analyses</b></p> <ul style="list-style-type: none"> <li>- 8 existing monitoring wells sampled for static water levels</li> <li>- 7 groundwater samples taken and sampled for TAL metals and hexavalent chromium</li> </ul>

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2001	New York State Department of Environmental Conservation Division of Hazardous Waste Remediation	<p><b>Soil Boring Advancement</b></p> <ul style="list-style-type: none"> <li>- 43 soil borings were drilled</li> <li>- 16 selected locations were sampled</li> </ul> <p><b>Surface Soil Sampling</b></p> <ul style="list-style-type: none"> <li>- 8 samples were collected</li> <li>- All 8 analyzed for SVOCs and hexavalent chromium</li> <li>- 3 analyzed for metals</li> </ul> <p><b>Waste Sampling</b></p> <ul style="list-style-type: none"> <li>- 4 samples were collected</li> <li>- Analyzed for VOCs, SVOCs, metals, hexavalent chromium, TCLP, ignitability, corrosivity, and reactivity</li> </ul> <p><b>Subsurface Soil Sampling</b></p> <ul style="list-style-type: none"> <li>- 4 samples were collected</li> <li>- Analyzed for VOCs, SVOCs, metals, and hexavalent chromium</li> </ul> <p><b>Monitoring Well Installation and Groundwater Sampling</b></p> <ul style="list-style-type: none"> <li>- 2 pairs of groundwater monitoring wells installed, each pair containing one deep overburden and one upper bedrock well</li> <li>- Groundwater levels and samples were collected from these wells, along with 3 other existing groundwater monitoring wells</li> <li>- Analyzed for VOCs, SVOCs, metals, and hexavalent chromium</li> </ul>
1996	New York State Department of Environmental Conservation Division of Environmental Remediation	<p><b>Monitoring Well Installation and Groundwater Sampling</b></p> <ul style="list-style-type: none"> <li>- 4 pairs of groundwater monitoring wells installed, each well pair containing one overburden and one bedrock groundwater monitoring well</li> <li>- 9 groundwater samples taken</li> <li>- General water quality parameter testing</li> <li>- Analyzed for TCL VOCs, TCL SVOCs, TAL metals, and hexavalent chromium</li> </ul>

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<i>Year</i>	<i>Consultant</i>	<i>Previous Investigation</i>
		<p><b>Surface Water and Sediment Sampling</b></p> <ul style="list-style-type: none"> <li>- 1 surface water sample and 1 sediment sample</li> <li>- Both samples analyzed for TCL VOCs, TCL SVOCs, TAL metals, and hexavalent chromium</li> </ul>
		<p><b>Soil Boring Advancement</b></p> <ul style="list-style-type: none"> <li>- 12 soil borings were drilled and sampled</li> </ul>
		<p><b>Surface Soil Sampling</b></p> <ul style="list-style-type: none"> <li>- 17 surface soil and exposed surface waste samples</li> <li>- 5 analyzed for TCL volatiles</li> <li>- 17 analyzed for TCL semi-volatiles</li> <li>- 5 analyzed for TAL metals</li> <li>- 11 analyzed for hexavalent chromium</li> </ul>
		<p><b>Waste Sampling</b></p> <ul style="list-style-type: none"> <li>- 18 samples collected</li> <li>- Analyzed for TCL VOCs, TCL SVOCs, TAL metals, and hexavalent chromium</li> </ul>
		<p><b>Subsurface Soil Sampling</b></p> <ul style="list-style-type: none"> <li>- 16 subsurface soil samples from the native soils beneath the waste</li> <li>- Analyzed for TCL VOCs, TCL SVOCs, TAL metals, and hexavalent chromium</li> </ul>
		<p><b>Waste Pile Examination</b></p> <ul style="list-style-type: none"> <li>- 2 test pits: 1 sample from the waste material, 1 sample from the fill material</li> <li>- Both samples analyzed for TCL VOCs, TCL SVOCs, TAL metals, and hexavalent chromium</li> </ul>
		<p><b>Air Monitoring</b></p> <ul style="list-style-type: none"> <li>- Air monitoring conducted during soil borings, well drilling and test pit excavation</li> <li>- Monitored organic vapor concentrations and airborne dust concentrations</li> </ul>