



New York State Department of Environmental Conservation
Division of Environmental Remediation



BEEKMAN TOWN GARAGE
INACTIVE HAZARDOUS WASTE DISPOSAL SITE #314094
TOWN OF BEEKMAN, HAMLET OF POUGHQUAG, DUTCHESS COUNTY
Remedial Soil Removal Action Completed
June 2001

INTRODUCTION

The Beekman Highway Garage Site is located on Town of Beekman Highway Department property at the intersection of County Route 7 and Gardner Hollow Road in the Hamlet of Poughquag, Town of Beekman, Dutchess County, New York. The site is situated in the north-central part of the 10-acre Town property.

The Highway Garage Site was added to the State Registry of Inactive Hazardous Waste Disposal Sites in May of 1995. In May 1996, the New York State Dept. of Environmental Conservation (NYSDEC) released its Preliminary Site Assessment (PSA) report, which indicated that the chlorinated solvents 1,1,1-trichloroethane (TCA) and perchloroethylene (PCE) had been disposed of on Highway Department property, and that solvents in Hamlet groundwater had originated on Highway property.

REMEDIAL HISTORY

In 1989, the Highway Dept. underground gasoline tank was removed. In 1993, the Highway Dept. underground diesel tank was removed. No soil contamination was reported at the time of those tank removals, and no spills were reported to the NYSDEC. The 1997-98 Remedial Investigation (RI) determined that soil in the former underground tank area was contaminated with fuel, presumably from leakage of the tanks prior to their removal. The 1998 RI report further indicates that TCA and PCE originate from locations adjacent to the Highway Dept. pole barn.

An area to the north of the steel Highway building (pole barn) and west of the block garage was formerly a discharge point for PCE and other volatile organic compounds (VOCs). In July 1994, contaminated soil at this location was excavated and removed to a depth of approximately 4.5 feet.

In November 1994, contaminated soil from the service bay pit in the Highway concrete block garage was excavated and disposed of off-site at a permitted disposal facility. This soil was removed to a depth of 11 feet below the garage floor.

In April 1996, the Town entered into a Memorandum of Understanding (MOU) with the NYSDEC, which obligated the Town to construct a central water system to provide potable water to affected residences. This system was brought on line in February 1997.

RECORD OF DECISION

In November 1999, the NYSDEC issued its Record of Decision (ROD), which calls for removal of contaminated soil from the former UST area, or installation of a soil vapor extraction (SVE) system; and analysis of water samples collected from Whaley Creek. The ROD also requires long-term groundwater monitoring through on- and off-site wells.

REMEDIAL ACTIONS

Between December 4 and 7, 2000, Conrad Geoscience Corp. supervised the excavation and stockpiling of approximately 650 cubic yards (1,011 tons) of contaminated soil from an area measuring approximately 1,500 square feet and averaging 11 feet in depth. The excavation was then backfilled to original grade with clean soil. Repaving of the excavated area will be completed by the Beekman Highway Dept.

Before backfilling, twenty-two post-excavation soil samples were collected from the floor and sidewalls to establish soil quality along the base and perimeter of the excavation.

No VOCs were detected in any of the 15 sidewall

samples at concentrations exceeding recommended soil cleanup objectives. Only one of the seven floor samples exceeded recommended soil cleanup objectives. This sample is believed to squarely underlie the footprint of the former diesel UST.

In addition, thirteen soil samples were collected from every 20 cubic yards of contaminated soil for waste characterization purposes.

Between March 8 and 20, 2001, the 1,011 tons of stockpiled contaminated soil were transported from the Beekman Highway site to the Environmental Soil Management Inc. (ESMI) facility in Fort Edward, New York, where it was thermally treated.

Ten on-site monitoring wells and seven off-site residential wells are included in the groundwater monitoring program. The seven off-site residential wells are no longer used for drinking water because residents have been supplied with public water. Conrad Geoscience completed the first annual round of groundwater monitoring in November & December 2000.

One or more VOCs were present above the method detection limit in all ten on-site wells sampled, with the exception of MW-5. Perchloroethylene (PCE) was detected in five monitoring wells. No VOCs were detected in the seven monitored residential wells at concentrations exceeding groundwater standards. Three off-site residential monitoring wells contained one or more VOCs at trace levels not exceeding the New York State groundwater cleanup standards.

The Town has agreed to compare annual monitoring results to year-by-year cleanup goals for PCE and Total VOCs in three on-site monitoring wells. For the year 2000, the goals were:

MW-18S	326 ppb PCE
MW-18S	311 ppb Total VOCs
MW-4	75 ppb PCE
MW-5	142 ppb Total VOCs

For MW-18S, the goals for both PCE and Total VOCs were met. MW-4 contained 98 ppb PCE, exceeding the PCE goal of 75 ppb. For MW-5, no target compounds were detected, and the goal, therefore, was met.

Three surface water samples were collected from Whaley Creek. Sample locations are shown on Figure 1. No VOCs were detected in surface water samples.

DOCUMENT REPOSITORIES

The *Soil Remediation Report* and *Annual Groundwater Monitoring Report* for this site are now available at the following document repositories:

Beekman Library
Clove Plaza
PO Box 697
Poughquag, NY 12570
(845) 724-3414
Hours: Tues. 10 am - 6 pm; Wed. 3 pm - 8 pm;
Thurs. 10 am - 8 pm; Fri. 10 am - 4 pm; Sat. 10 am - 4 pm.

Town Clerk
Beekman Town Hall
4 Main Street
Poughquag, NY 12570
(845) 724-5300
Hours: Mon. - Fri. 9 am - 4 pm

NYSDEC Region 3
21 South Putt Corners Road
New Paltz, NY 12561
(845) 256-3154
Hours: Mon. - Fri. 8:30 am - 4:45 pm

FOR MORE INFORMATION

Environmental Concerns

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Citizen Participation

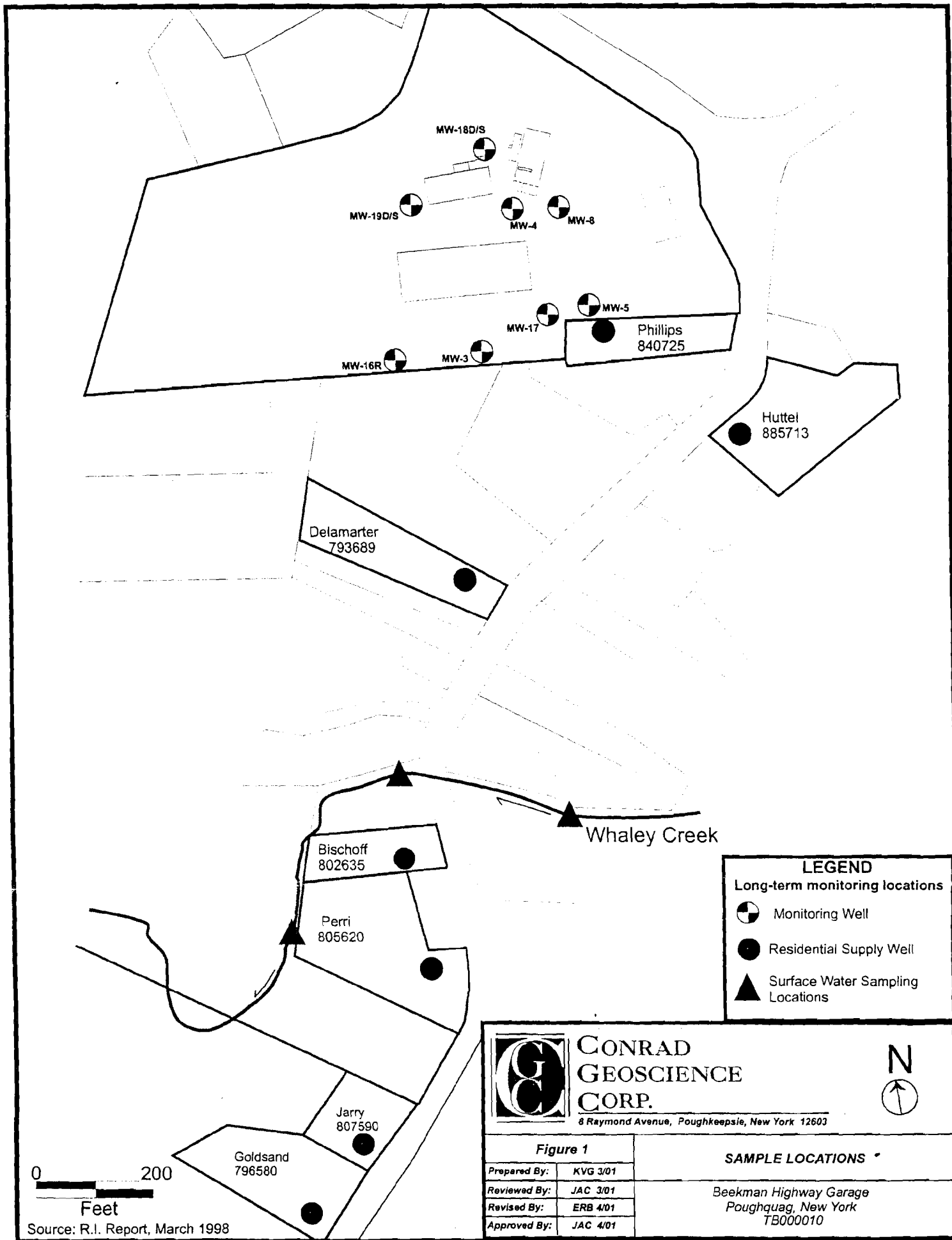
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Health-Related Concerns

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**CONRAD
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Figure 1

Prepared By:	KVG 3/01
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Revised By:	ERB 4/01
Approved By:	JAC 4/01

SAMPLE LOCATIONS

Beekman Highway Garage
Poughquag, New York
TB000010