

Attachment A

265-584-70-01

PROPOSAL FOR PROVIDING  
ENVIRONMENTAL ASSISTANCE TO  
MORSE INDUSTRIAL CORPORATION  
ITHACA, NEW YORK

Prepared for:

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## INTRODUCTION

Radian is pleased to submit this proposal for providing environmental assistance to the Morse Industrial Corporation in Ithaca, New York. The scope of work addressed in this proposal includes providing assistance to Morse in the evaluation and remediation, if necessary, of a 200,000-gallon fire reservoir on their property which, based upon currently available data, is contaminated with trichloroethylene (TCE). A broader study is also proposed to evaluate the overall environmental impact of the TCE in the reservoir, propose any necessary remediation of other media that are adversely affected, and identify other possible sources of the TCE on the property.

## BACKGROUND

Morse Industrial Corporation is a division of Emerson Electric Company and manufactures industrial power transmission products, primarily steel roller chain which is fabricated in a wide range of sizes. Morse has been operating at the site since 1906, and is the original owner of all facilities on the property. Operations at the facility include metal stamping, heat treating, oil quenching, parts washing using both alkaline cleaning solutions and organic solvents (halogenated and nonhalogenated), and final product assembly. Solvents currently used at the facility include mineral spirits purchased from Safety Kleen Company, a Freon degreaser purchased under the trade name TMC, and 1,1,1-trichloroethane. Solvents which were used in the past but have not been used for a number of years include trichloroethylene (TCE) and "safety solvent", a commercially available mixture of

solvents which can contain a variety of chlorinated compounds, possibly including TCE and tetrachloroethene. Past operations at the site under prior ownership included on-site distillation of TCE to remove oil and dirt, thereby rendering the TCE suitable for reuse in cleaning and degreasing operations.

Waste oil is generated in the manufacturing operations at the plant and is removed by a commercial waste oil handling service once per month. The waste oil is periodically analyzed for TCE and other components to ensure that it meets the specifications of the removal service. TCE was detected in Morse's wastewater treatment system over the past several months in concentrations ranging from 39 ppb in the water phase to 2,400 ppm in the oil. This prompted an investigation of the fire reservoir because some of the oil in the batches which contained TCE had been skimmed from the surface of the water in the fire reservoir. Subsequent sampling analysis revealed the presence of TCE in the water in the reservoir.

The fire water reservoir is constructed of concrete (roughly 30 x 60 x 18 feet deep) and divided into two compartments with a combined capacity of approximately 200,000 gallons. One compartment is located beneath a parking deck behind the major manufacturing building and the other is located beneath a small paint shop building. There is a continuous inflow of water into the paint shop side of the reservoir. This inflow consists of stormwater runoff from parking lots and roof drains, as well as seepage from outcropping bedrock upslope. Water flows from the paint shop side compartment to the parking deck side and eventually overflows to an NPDES permitted outfall which discharges