WORK PLAN
GROUNDWATER SAMPLING AND ANALYSIS
FORMER INDUSTRIAL ENVIRONMENTAL SYSTEMS, INC. FACILITY
MOUNT MARION, NEW YORK

Prepared For:

NORTHEAST SOLITE CORPORATION
Mt. Marion, NY

DUNN

Albany, NY
Harrisburg, PA Buffalo, NY
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June, 1991

DUNN GEOSCIENCE CORPORATION

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1.0 INTRODUCTION

This Work Plan is submitted in response to a request from the New York State Department of Environmental Conservation (NYSDEC) for sampling of groundwater monitoring wells UFT-1 and DFT-2 and a seep at the former Industrial Environmental Systems, Inc. facility, Mt. Marion, New York.

2.0 SCOPE OF WORK

Groundwater will be collected for laboratory analysis from the groundwater discharge known as the "seep" and from wells UFT-1 and DFT-2. Recent inspection of well DFT-2 revealed that the PVC pipe has been crimped approximately five feet down from the top (possibly due to frost heave or subsurface shifting). Although evidence indicates samples may still be retrievable from DFT-2 using an undersized bailer, the integrity of the well is questionable and data from such samples should be considered equally questionable. An undersized bailer will be used to sample DFT-2. Since DFT-2 historically has been dry except immediately following a heavy rain event sampling will be planned to immediately follow such an event. All quality assurance issues regarding this sampling event are addressed in the attached generic Quality Assurance Program Plan prepared by DUNN for the NYSDEC Standby Superfund Program. Subsequent to NYSDEC approval of this Work Plan, NYSDEC will be notified when DUNN will mobilize for field work. The project is tentatively scheduled to commence following the first heavy rain event after the Work Plan has been approved.

2.1 Groundwater and Seep Sampling

Groundwater sampling will consist of water level readings followed by a standard three volume purge of standing water (including volume of the annular sand pack). Purge water will be discharged to the ground no closer than 50 feet to any site related monitoring wells. Groundwater samples will be collected from the middle of the well screen using dedicated PVC bottom filling, check-valve bailers.

"Seep" samples will be collected, if possible, from the point of discharge from the collection trough at the base of the bedrock face. This will require disconnecting the pipe which transfers the seep from the collection trough to the carbon treatment unit. In the event that this is not possible, "seep" samples will be collected directly into sample bottles from the treatment unit influent.

All samples will be preserved according to protocol of the NYSDEC Analytical Services Protocol (September, 1989) and will be transported under chain of custody to the laboratory within 24 hours of collection.

Split samples will be provided to the NYSDEC at their request.

2.2 Sample Analysis

All laboratory analyses will be performed by CTM Analytical Laboratories, Ltd. (Latham, NY). Groundwater and seep samples will be analyzed for volatile organic compounds (Method 8240 with the addition of tetrahydrofuran), pesticides/PCBs (Method 8080), and petroleum hydrocarbons (Method 418.1 and by gas chromatograph/flame ionization detector for qualitative identification). Quality control deliverables for the laboratory analysis will include:

Reconstructed Ion Chromatograms and GC chromatograms

Quantitation Sheets

GC/FID Petroleum Hydrocarbon Standard Chromatograms

Matrix Spike and Matrix Spike Duplicates

Laboratory Controls

Surrogate Recoveries

Method Blanks

3.0 QUALITY ASSURANCE

Refer to the applicable sections of the attached generic Quality Assurance Program Plan prepared by DUNN for the NYSDEC Standby Superfund Program.

PROJECT MANAGEMENT AND REPORT PREPARATION

This project will be managed for DUNN by C. Brett Mongillo, with Sander Bonvell (Manager of Chemistry and Sampling Services) serving as the project advisor; both are members of DUNN's Environmental Services Division.

A report will be prepared which includes a summary of the analytical results and a description of the field activities including a discussion of any deviations from standard field practices. The report will be submitted to Northeast Solite Corporation six weeks after the completion of field work.

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June 20, 1991