



O'BRIEN & GERE
ENGINEERS, INC.

MAR 24 1994

March 23, 1994

Mr. Vivek Nattanmai, P.E.
New York State Department of
Environmental Conservation
Division of Hazardous Waste Remediation
50 Wolf Road
Albany, New York 12233

Re: Accurate Die Casting
Fayetteville, New York
Site No. 7-34-052 #2

File: 2488.396 #2

Dear Mr. Nattanmai:

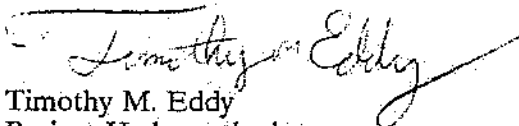
Pursuant to your request on March 21, 1994, enclosed is a hard copy of the Additional Investigations Work Plan for the Accurate Die Casting Site in Fayetteville, NY. It is our understanding that you received a telefaxed copy of the Work Plan on March 14, 1994 and have initiated review of the Work Plan. The Work Plan describes investigations to evaluate for the presence of subsurface structures in the vicinity of monitoring well MW-3, and to augment existing volatile organic compound (VOC) data in subsurface soils.

O'Brien & Gere Engineers, Inc. and OBG Technical Services, Inc expect to implement this work plan as the initial phase of the soil excavation in accordance with the Interim Remedial Measure (IRM) Work Plan dated January 1994. During implementation of the Additional Investigations Work Plan, it is currently planned to utilize the existing IRM Health and Safety plan (HASP) and Community Health and Safety Plan (January, 1994). It is our understanding that this will be acceptable to the New York State Department of Environmental Conservation (NYSDEC).

OBG Technical Services and O'Brien & Gere Engineers are prepared to initiate the additional investigations and the IRM immediately following NYSDEC approval of the Work Plan at your earliest convenience. If you should have any questions, feel free to call Jim Heckathorne or me.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.


Timothy M. Eddy
Project Hydrogeologist

TME:bdm/TEC396.12

cc: B Alessi (LeBoeuf, Lamb, Greene & MacRae)
Terry Brown (OBG Technical Services, Inc.)
James R. Heckathorne (O'Brien & Gere Engineers, Inc.)
Deborah Y. Wright, CPG (O'Brien & Gere Engineers, Inc.)

WORK PLAN

Additional Investigations

**Accurate Die Casting Facility
Fayetteville, New York**

February 1994

Work Plan

Additional Investigations

*Accurate Die Casting Facility
Fayetteville, New York*

February 1994

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1 Excavation Plan

Attachments

1 Test Pit Log

1. Introduction

1.1. Purpose and Objective

Pursuant to court order, an investigation will be performed to attempt to determine 1) whether a certain pipe is or was located at a certain area of the site, and 2) if so, whether such pipe is or was connected to any subsurface structures.

The objective of the investigation is to:

- 1) To evaluate if buried subsurface structures are or were present in the vicinity of existing MW-3.
- 2) To augment data currently available regarding VOC concentrations in subsurface soils.

1.2. Scope of Work

To meet the objectives of the site investigation the following tasks will be completed:

1. Perform an electromagnetic survey in the vicinity of MW-3 using an EM-31 Terrain Conductivity meter.
2. Excavate a test pit to identify any subsurface structures in the vicinity of MW-3.
3. Visually inspect and log the soil strata and perform field screening of soils for VOCs within the excavation.

Additional Investigations

4. Collect grab soil samples from the excavation for laboratory analysis.

Personnel on site will be required to have completed the required OSHA Hazardous Waste training pursuant to 40 CFR 1910.120.

2. Site Investigations

2.1. EM-31 Terrain Conductivity Meter Survey

The Geonics® EM-31 terrain conductivity meter will be used to identify subsurface metallic material or structures. It should be noted that the effectiveness of this instrument may be reduced due to the proximity of the metal building and reinforced concrete. The approximate areal extent of the survey is shown in Figure 1.

The EM-31 will be used in the in-phase mode in accordance with the procedures outlined in the equipment manual. While conducting the survey, needle deflections on the EM-31 receiver will be noted. These deflections indicate possible subsurface metallic materials. Areas where the needle deflections indicate the likely presence of buried metallic waste materials will be marked with surveyors tape, stakes or by some other suitable method.

2.2. Excavation Procedure

The excavation will be completed using a conventional backhoe. The excavation will be located based on the results of the EM-31 survey. Should the EM-31 survey provide insufficient data, the approximate location of the "pipe" will be located by talking with a representative of LeBoeuf, Lamb, Leiby & McRae or by OBG Technical Services best recollection of where this location was previously identified.

The excavation will be limited to a ten foot radius from any potential subsurface structures and completed to a maximum depth of 8 feet below grade. Soils removed from the excavation will be staged on plastic and placed back in the excavation once removal activities are completed.

Prior to and subsequent to completing the excavation, the backhoe will be decontaminated by manual scrubbing to remove bulk contamination followed by a high pressure, hot water cleaning.

2.3. Soil Sampling

A representative of O'Brien & Gere Engineers will be on site during the excavation activities to attempt to identify backfill, a structure, or other evidence indicating that a pipe or subsurface structures are or were present. Soil descriptions, including soil type, grain size, odor, and discoloration, will be recorded on the field log (Attachment 1).

A soil sample will be collected every 2 feet to evaluate the vertical extent of contamination within the excavation. The samples will be placed in a suitable container for volatile headspace analysis using a photoionization detector (PID). The results of PID screening will be recorded on the field log.

Up to three soil samples may be collected for laboratory analysis. The samples will be transported to OBG Laboratories, Inc. using chain-of-custody procedures and analyzed using USEPA methods 8010 and 8020. A trip blank will be used for QA/QC purposes and a standard Level 1 report will be requested.

3. Reporting

Following the completion of the work tasks outlined in Section 2, a letter report will be prepared to present the results of the investigation. The report will include a description of field investigations, and the results of laboratory analysis. Any other documents that are created will be produced to all parties.

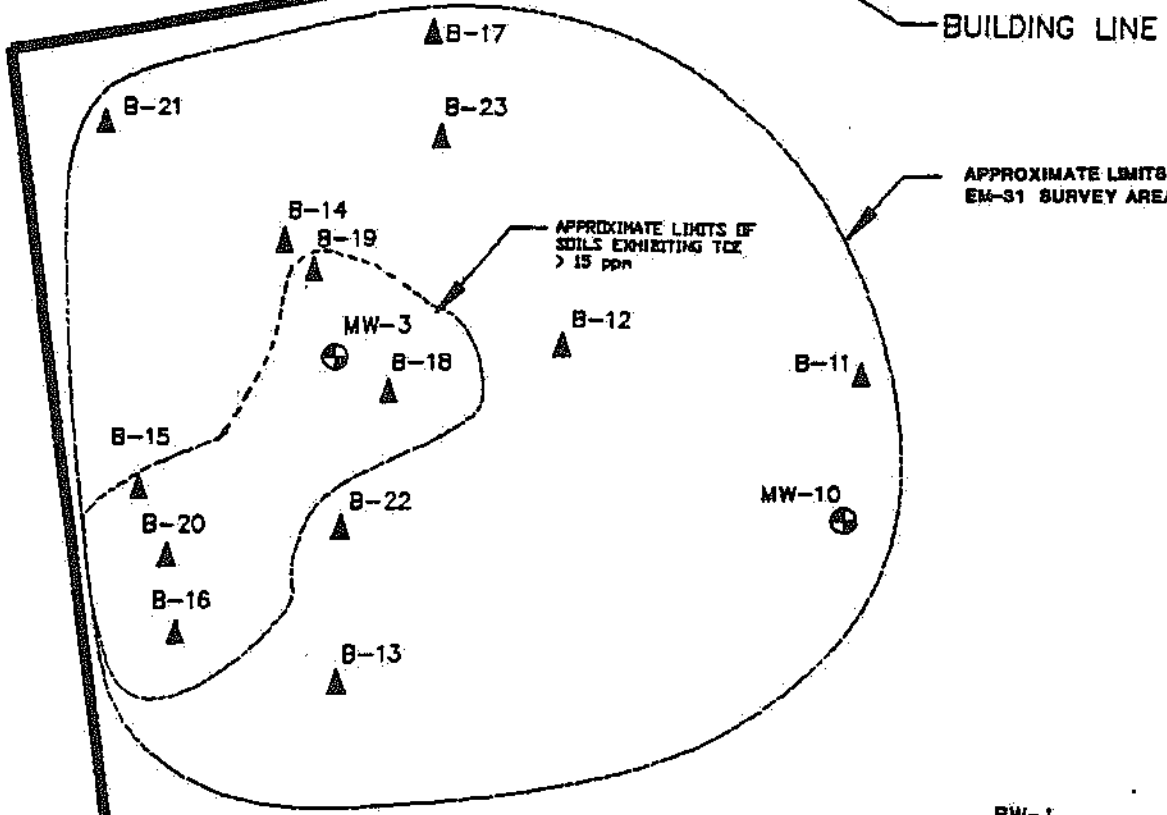
4. NYSDEC Approval

This scope of work is subject to obtaining any and all approval from the New York State Department of Environmental Conservation (NYSDEC).

FIGURES



MW-14



BUILDING LINE

APPROXIMATE LIMITS OF EM-S1 SURVEY AREA

APPROXIMATE LIMITS OF SOILS EXHIBITING TCE > 15 ppm

ACCURATE DIE CASTING
FAYETTEVILLE, NEW YORK

EXCAVATION PLAN



063397

ATTACHMENT 1

SITE:

JOB NO. :

OBG FIELD SUPERVISOR:

TEST PIT:

WEATHER:

DATE:

DEPTH	DESCRIPTION
0	
1	
2	
3	
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NOTES:	

March 23, 1994
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bcc: DS Towers