



**Remedial Investigation/
Feasibility Study
Work Plan**

**Eugene's Dry Cleaners Site
Village of Babylon, Suffolk County
Site Number 1-52-157**

Prepared By:
NYS Dept. of Environmental Conservation
Division of Environmental Remediation
50 Wolf Road
Albany, NY 12233

June 1998

Form A-1
Work Assignment Budget/Work Plan

Contractor Name LMS **Work Assignment No.** _____

Name of Site: Eugene's Dry Cleaners **Site ID#** 152157

Location: Babylon, NY

DEC Project Manager (PM) Joe Peck **Telephone** 518 457 7924

A) Description of Scope of Work

Develop groundwater and soil probes, sample, & analyze soil and groundwater samples at the locations indicated on accompanying sketches and maps. VOC analysis will be performed to determine if Tetrachloroethene and other contaminants are present in sufficient quantities to contravene NYSDEC groundwater standards and exceed NYSDEC soil cleanup guidance values.

B) Unit Price/Lump Sum Cost Items from contract

Payment Item No.	Description	Estimated Quantities	Unit or Lump Sum Price in Contract	Total Item Amount
1	Mobilization & Demobilization for up to 50 miles	Lump Sum up to 50 miles	\$600.00	\$600.00
1a	Mobilization & Demobilization for distance over 50 miles	Additional 10 miles	\$2.00/mile	\$20.00
3	Temp Mobile Decon Pad	7 Days	\$10.00/day	\$70.00
4	Direct Push System Truck Mounted	7 Days	\$1125.00/day	\$7875.00
7	Groundwater Probe Sampling	24 samples	\$7.00/Sample	\$168.00

Payment Item No.	Description	Estimated Quantities	Unit or Lump Sum Price in Contract	Total Item Amount
9	Macro Core Probe Soil Sampling	20	\$6.75/Sample	\$135.00
22	Asphalt Patch	2 bags	\$4.00/Bag	\$8.00
23	Containing and staging Probing Waste Materials	2 Drums	\$5.00/Drum	\$10.00
25	Per Diem, Meals & Lodging/Person	3 Persons (7 Days)	\$100.00/Day	\$2100.00
27	Decontamination (assume 15min/hole)	12 holes	\$70.00/Hour	\$210.00
28	Mobile Laboratory Mobilization	Lump Sum up to 50 miles	\$50.00	\$50.00
29	Mobile Laboratory Mobilization	Additional 10 miles	\$1.00/ mile	\$10.00
31	Mobile Laboratory w/GC and MS	5 Days	\$975/Day	\$4875.00
6	Overtime Charge Onsite Work > 8 hr	10 hours	\$77/hr	\$770.00
Sub Total Contract Items				\$16,901.00

C) Subcontractor Costs*

<u>Name</u>	<u>Description Services</u>	<u>Amount</u>
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	<u>Sub Total - Amount of Subcontracts</u>	\$ _____
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D) Grand Total of Work Assignment

\$ 16,901.00

Signature of Contractor Date

Jay H I Peck *6/23/98*

Signature DEC Project Manager Date

Title

FF II *BERA Section C*

Title Office

Signature DEC Contract Manager Date

***Note: Subcontract quotes or any other documentation used to establish subcontract costs will be submitted with this work assignment budget to the Office of the State Comptroller.**

Schedule

Starting Date _____

- Day 1 Mobilize, begin groundwater and soil probes, and begin retrieval of groundwater and soil samples.
- Day 2 Continue groundwater and soil probes, continue retrieval of groundwater and soil thru samples, and perform analysis of groundwater and soil samples for VOCs.
- Day 6
- Day 7 Wind down analysis of groundwater and soil samples and demobilize.



**Division of Environmental Remediation
QC Guidelines for GC Field Screening Methods**

The Standard Operating Procedure (SOP) for the GC field method must be included in the project work plan and submitted to the Quality Assurance Unit (QAU) for review. The SOP must include:

- A detailed step-by-step procedure for the analysis method.
- A 3-point Initial Calibration.
Quality Control (QC) criteria: correlation co-efficient ≥ 0.95
- A mid-point calibration every 10 samples or daily, whichever is more frequent.
QC criteria: Relative Percent Difference (RPD) ≤ 30 percent
- A blank run after calibration standards.
QC criteria: Peak area for target compounds less than half the area of the reporting detection limit
- Duplicate analysis on 10 percent of the samples.
- Laboratory confirmation, by a NYSDOH ELAP certified laboratory, on 10 percent of the samples.

The resume of the Field Analyst, including relevant experience and education, must also be submitted for review by the QAS.

Contact Christine McGrath (518) 457-9280 with any questions on using GC Field Screening Methods.

**Lawler,
Matusky
& Skelly
Engineers LLP** Environmental Science & Engineering Consultants

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9 June 1998
File No. 042-000

Mr. Joseph Peck
New York State Department of Environmental Conservation
Division of Environmental Remediation
50 Wolf Road, Room 242
Albany, New York 12233

Re: Eugene's Dry Cleaners
Site ID# 152157

Dear Mr. Peck:

Lawler, Matusky & Skelly Engineers LLP is pleased to receive your work scope for the above referenced site. Based upon our telephone conversation on 9 June 1998, we recommend the following changes be amended to the scope.

- Payment Item No. 8 at \$2.75 per sample should be changed to payment item No. 9 at \$6.75 per sample. The Macro core sampler is generally used for shallow depths since in is 4-ft in length and provides a larger soil volume per ft for sampling purposes.
- Recommend the addition of 10 hours of overtime onsite (payment item 6 at \$77.00 per hour). This time would only be used at the direction of the onsite DEC representative but would allow for the continuation of sampling at critical points near the end of a day.
- Recommend the addition of three additional water samples (payment item 7 at \$7.00 per sample) at depth of 60-ft near the top of the expected Gardiners clay.

The soil sampling which is to be performed in the basement of the building will also be performed using the Macro core sampler. Since the building is reported to contain about 6-in. of water, the end of the Macro core will be covered with a layer of cellophane to limit the amount of water that can enter the sampler when placing the Macro core sampler into the water. Driving the sampler into the soil will break the seal and allow the soil to enter the sampler. The point in the basement will be driven and retrieved by hand probing methods. This hand sampling is a time consuming and labor intensive effort expected to take about a day and a half. The day rate for the probe crew and tools will apply. A

Joseph Peck
Division of Environmental Remediation

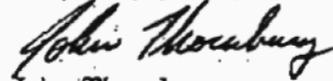
9 June 1998
Page 2

sample of the water in the basement should also be collected and submitted to the mobile laboratory. The laboratory is on a day rate and this could be collected without incurring any additional cost.

Through LMS's experience in this region, a clay layer (Gardiners Clay) is expected to be encountered at a depth of about 60-ft below grade. Since Tetrachloroethene sinks in water, we recommend collecting a groundwater sample just above the clay at 60-ft at three of the downgradient locations from the site.

The scope of work is expected to be completed within the 7 days proposed in the work scope even with the addition of the three deeper water samples. If you have any questions, please feel free to call me.

Very truly yours,



John Thornburg
Geologist



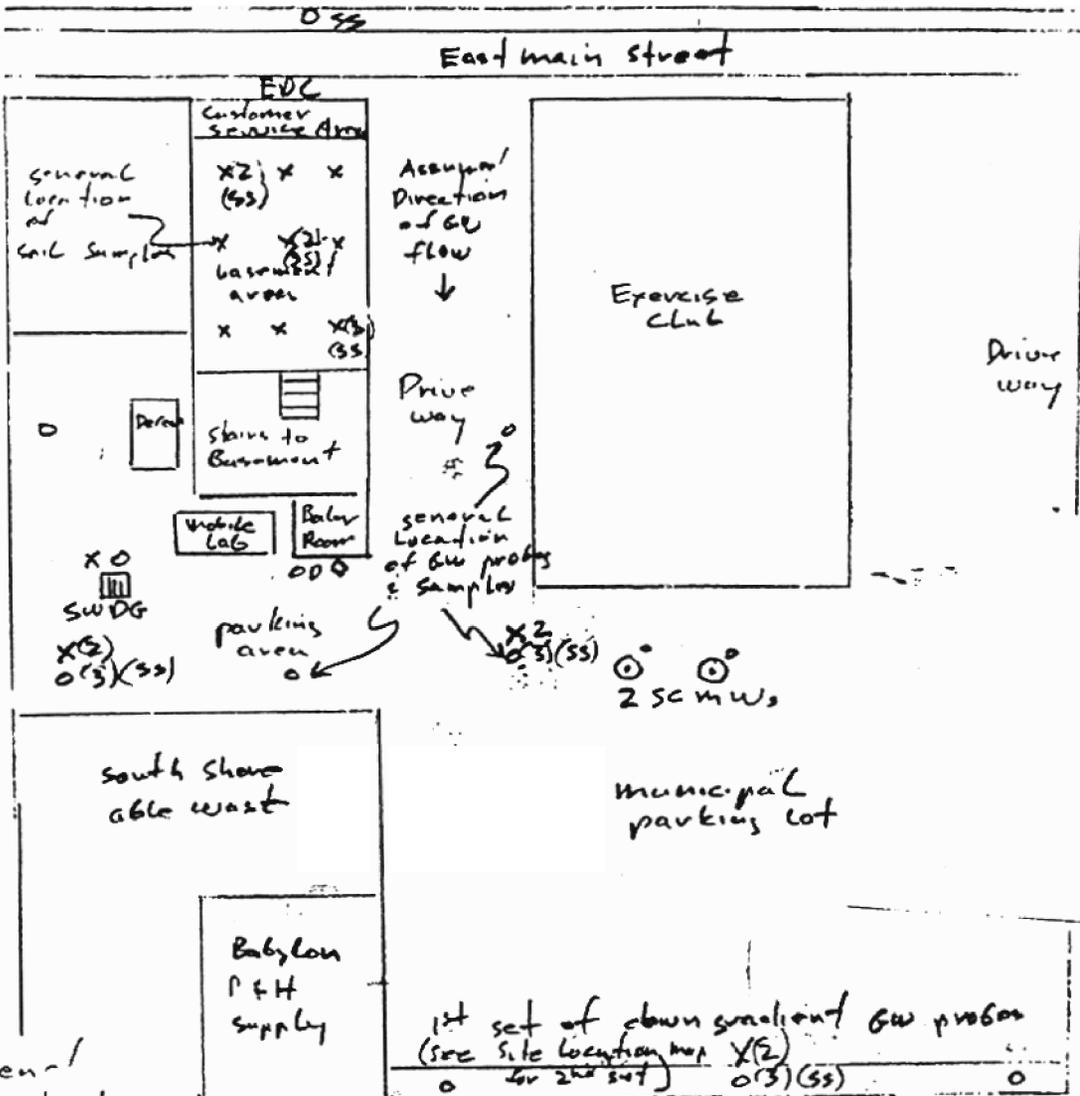
Site Location Map

152157 Eugene's Dry Cleaners
 NYS DOT Planimetric Quadrangle(s):

*General location
 of 2nd set of GW probes
 south of site*



Scale 1:24,000
 April 18, 1996



Legend

- ◇ outside Discharge
- Suffolk County monitoring well (SCMW)
- III Storm water Drainage grate (SWDG)
- X Soil Sample Location - total 20
 basement area - 9 at surface, 3 at minus 1 ft.,
 & 1 at minus 2 ft. below basement surface
- Parking area - 3 beneath pavement, 3 at water table
 & 1 from SWDG
- Groundwater probe & Sampling location - total 24
 Parking area - 15 at water table (WT), 3 at minus 5 ft
 below WT, 3 at minus 10 ft below WT,
 & 3 at minus 60 ft below WT and/or
 just above Gueliner clay level
- (N) Number of Samples at a location
- (SS) Split Samples (X total 6, O total 9) testing
 of one of the split samples will be responsibility
 of NYSDEC