The electronic version of this file/report should have the file name:

Type of document.Spill Number.Year-Month.File Year-Year or Report name.pdf

letter.\_\_\_\_\_\_. <u>-\_\_\_.File\_spillfile\_\_.pdf</u>

report. hw 915146 . 1997 - 10-19. EXCAVATION PLAN .pdf

Project Site numbers will be proceeded by the following:

Municipal Brownfields - b

Superfund - hw

Spills - sp

ERP - e

VCP - v

BCP - c

non-releasable - put .nf.pdf

Example: letter.sp9875693.1998-01.Filespillfile.nf.pdf

915146

EXCAVATION PLAN FOR SURFICIAL SOILS ST. ALDABERT'S CEMETERY/ WEST SIDE OF MAIN BUILDING NIAGARA TRANSFORMER CORP. DALE ROAD FACILITY

> Prepared for: Niagara Transformer Corporation 1747 Dale Road Buffalo, New York 14225 October 19, 1992

> > Woodward-Clyde

Woodward-Clyde Consultants 3571 Niagara Falls Boulevard North Tonawanda, New York 14120 Project Number 90C2139-1 3571 Niagara Falls Boulevard North Tonawanda New York 14120 (716) 692-7172 Fax (716) 692-1512

#### Woodward-Clyde Consultants

October 19, 1992 91C2139-1

Mr. Fred Darby Niagara Transformer Corporation 1747 Dale Road Buffalo, New York 14225

Re: Excavation Plan for Surficial Soils: St. Adalberts Cemetery/West Side of Main Building

Dear Mr. Darby:

Woodward-Clyde Consultants (WCC) is pleased to submit this work plan for remediating contaminated soil in St. Adalbert's Cemetery and in the narrow strip of Niagara Transformer property between the main building and the cemetery. The plan proposes that the contaminated soil be excavated and disposed of properly in a licensed landfill. The excavated soil would be replaced with clean soil and the area would be reseeded.

If you have any questions or comments on the excavation plan, please contact the undersigned. We appreciate the opportunity to work with NTC on the Dale Road project.

Sincerely,

Kelly R. McIntosh, P.E.

Associate.

James F. Roetzer, Ph.D.

James FRoega

Senior Associate

KRM/JFR:jee

Ntcexpla.rep





EXCAVATION PLAN FOR SURFICIAL SOILS: ST. ADALBERT'S CEMETERY/ WEST SIDE OF MAIN BUILDING NIAGARA TRANSFORMER CORP. DALE ROAD FACILITY

Prepared for: Niagara Transformer Corporation 1747 Dale Road Buffalo, New York 14225 October 19, 1992

Woodward-Clyde Consultants 3571 Niagara Falls Boulevard North Tonawanda, New York 14120 Project Number 90C2139-1

#### TABLE OF CONTENTS

<u>Section</u>		<u>Page</u>
1.0	INTRODUCTION	1-1
2.0	DATA REVIEW	
3.0	SOIL EXCAVATION	3-1
	3.1 AREAS TO BE EXCAVATED 3.2 METHODS	3-1 3-1
4.0	SUMMARY	4-1
5.0	LIMITATIONS 5-1	

#### TABLE OF CONTENTS (continued)

#### LIST OF FIGURES

FIGURE 1-1	SITE LOCATION PLAN
FIGURE 2-1 FIGURE 2-2 FIGURE 2-3 FIGURE 2-4	SURFICIAL SOIL SAMPLING LOCATIONS DEPTH SPECIFIC SOIL SAMPLING LOCATIONS SURFICIAL SOIL ANALYTICAL RESULTS DEPTH SPECIFIC SOIL SAMPLE ANALYTICAL RESULTS
FIGURE 3-1	APPROXIMATE AREAS TO BE EXCAVATED

1.0 INTRODUCTION

Niagara Transformer Corporation (NTC) retained Woodward-Clyde Consultants (WCC) to conduct a Remedial Investigation (RI) for its Dale Road facility. The RI was conducted pursuant to an Order on Consent (Index Number B9-0334-90-05) with the New York State Department of Environmental Conservation (NYSDEC).

The site plan is shown on Figure 1-1. As part of the RI, surficial soil samples were collected from St. Adalbert's Cemetery, which borders the site on the west. Soil samples were also collected from the narrow strip of NTC property located between the main NTC building and the cemetery fenceline.

Elevated levels of PCB contamination were found to be present in these areas. The levels were sufficiently high for the NYSDEC to request that the area be considered a separate operable unit for remedial action, and that a plan for remedial action be prepared and submitted. In response, NTC retained WCC to prepare the current document, which presents a plan for remediating this operable unit.

Ntcexpla.rep 1-1

2.0 DATA REVIEW

A total of 30 surficial soil samples were collected from the east end of the cemetery near the NTC border. Twenty-five of these were obtained from approximately 1 to 3 inches below ground surface and two were obtained from 6 to 8 inches below ground surface. One sample was obtained from 6 to 12 inches below ground surface. Two samples were collected from the grass root mat and soil (0 to 1 inch below ground surface). Sample locations are shown on Figure 2-1. All samples were analyzed for PCB compounds in accordance with the RI Work Plan.

A total of four surficial soil samples were collected from 0 to 3 inches below ground surface in the narrow strip of NTC property between the main building and the cemetery. Six soil samples were collected in this area from deeper soil, between 1 and 4 feet in depth.

Sample locations are shown on Figures 2-1 and 2-2. Results of the analyses for PCBs are shown on Figures 2-3 and 2-4. Elevated concentrations were found in the upper 3 inches of soil in the cemetery within 15 feet of the fenceline. North and south of the main building, PCB levels exceeding 5 ppm were generally limited to within approximately 2 feet of the fenceline. Directly west of the building, elevated concentrations above 5 ppm were limited to within approximately 7 feet of the fenceline, except for one location (S-5, sampled in September 1992) near the south side of the building (16 ppm, 15 feet from the fenceline).

In the strip of NTC property along the west side of the buildings, concentrations greater than 1,000 ppm were measured in the upper 3 inches of soil. As shown on Figure 2-4, PCB concentrations were approximately 1 ppm or less for samples below 1 foot in depth.

Ntcexpla.rep 2-1

3.0 SOIL EXCAVATION

#### 3.1 AREAS TO BE EXCAVATED

The planned remedial action will address soils along side the NTC main building and adjacent cemetery soils north of the southwest corner of the building. In these areas, the soil excavation is intended to constitute the final remedial action. In accordance with the remedial action objectives presented in the preliminary Feasibility Study (WCC, October 16, 1992), soil in these areas with PCB concentrations greater than 5 ppm (offsite) and 25 ppm (on-site) will be excavated. The area and depths to be excavated were determined based on analytical results for all samples collected to date. The delineated area to be excavated and depths of excavation are shown on Figure 3-1. On cemetery property, the upper 6-inches of soil will be excavated except for the small area near sample S-8 (shown on Figure 2-2) which will be excavated to a depth of 1 foot. In the narrow strip of NTC property adjacent to the building, soil containing PCB concentrations in excess of 25 ppm (based on the samples collected to date) will be excavated. This will entail excavation of the top 1 foot of soil as shown on Figure 3-1.

In addition to the areas described above, a small area of highly elevated PCB soil concentration on cemetery property bordering NTC's tank farm will be excavated. Other cemetery soil south of the main building will be addressed as part of the final remedial action selected based on the Feasibility Study (FS) being performed for the site.

#### 3.2 METHODS

Soil will be excavated using a backhoe or smaller "bobcat" excavation equipment, with hand work as needed. Currently, it is planned that soil will be loaded into appropriately equipped and permitted trucks and immediately transported to the off-site disposal facility. If the foundation for the spike fence is found to be intact and greater than 1 foot in depth, it will be left in place.

A decontamination zone for personnel and equipment will be established and used to

Ntcexpla.rep 3-1

prevent cross-contamination. Air monitoring and health and safety requirements will be in accordance with the RI Work Plan and project Health and Safety Plan. Analytical testing of soil prior to disposal will be in accordance with the permitted landfill requirements. After excavation, the cemetery areas will be backfilled with clean topsoil, graded and seeded. Excavated areas on NTC property will be backfilled with either clay or clean topsoil.

Ntcexpla.rep 3-2

4.0 SUMMARY

This excavation plan addresses contaminated soil in the St. Adalberts Cemetery, north of the southwest corner of the main NTC building. It also addresses one small area of contamination found south of the main NTC building, in the vicinity of the tank farm. Based on extensive sampling and analytical data collected to date, areas were delineated for excavation based on PCB concentration. In the identified areas of the cemetery, soil with PCB concentration above 5 ppm will be excavated. In the subject area on NTC property, soil with PCB concentrations above 25 ppm will be excavated. Excavated soil will be disposed of off-site in an appropriately permitted landfill. During the excavation program, decontamination procedures, air monitoring, and health and safety requirements will be in accordance with the RI Work Plan and project Health and Safety Plan. After excavation, the areas will be filled with clean topsoil and reseeded (cemetery) or backfilled with clay or clean topsoil (NTC property).

Ntcexpla.rep 4-1

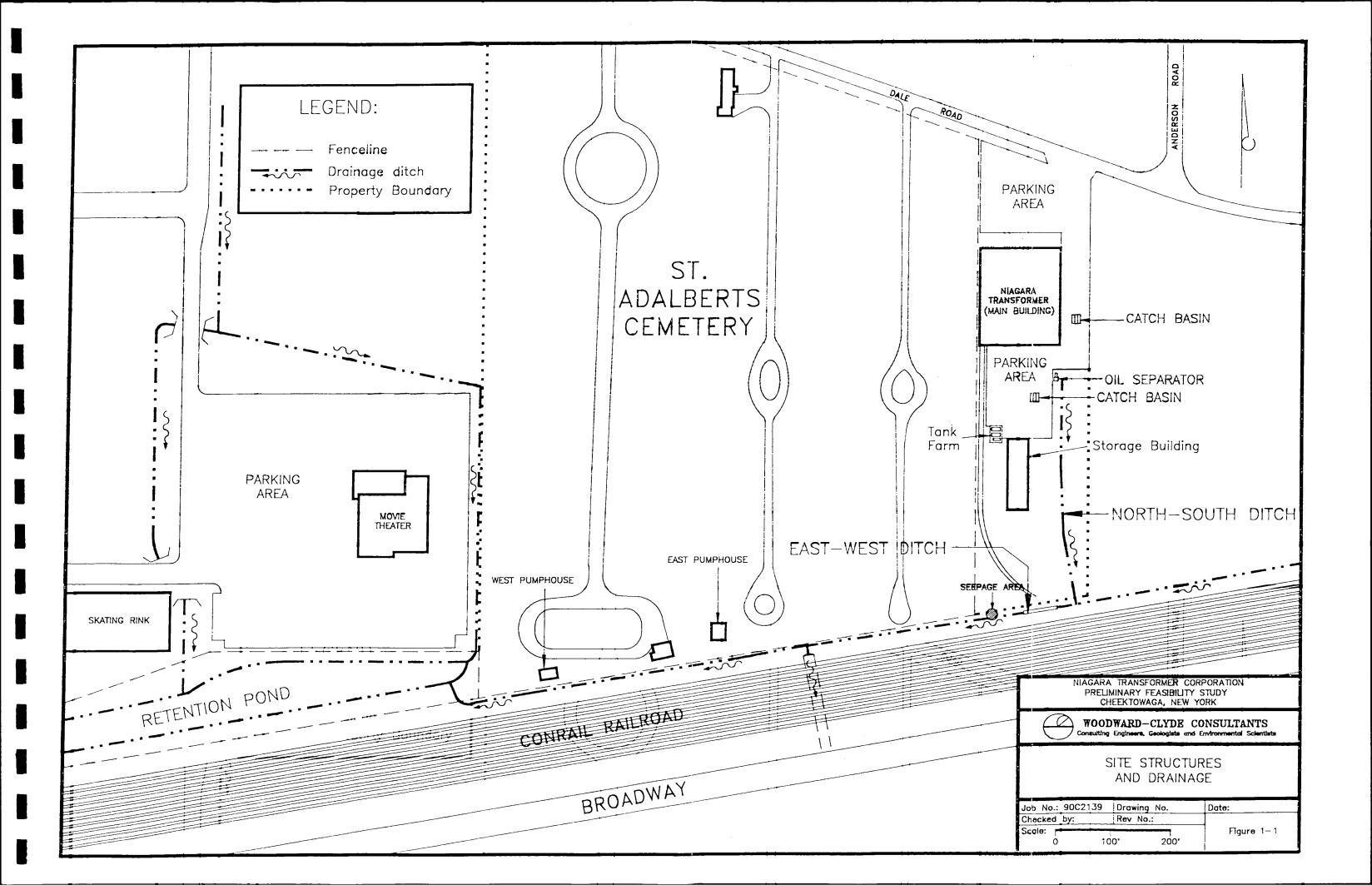
5.0 LIMITATIONS

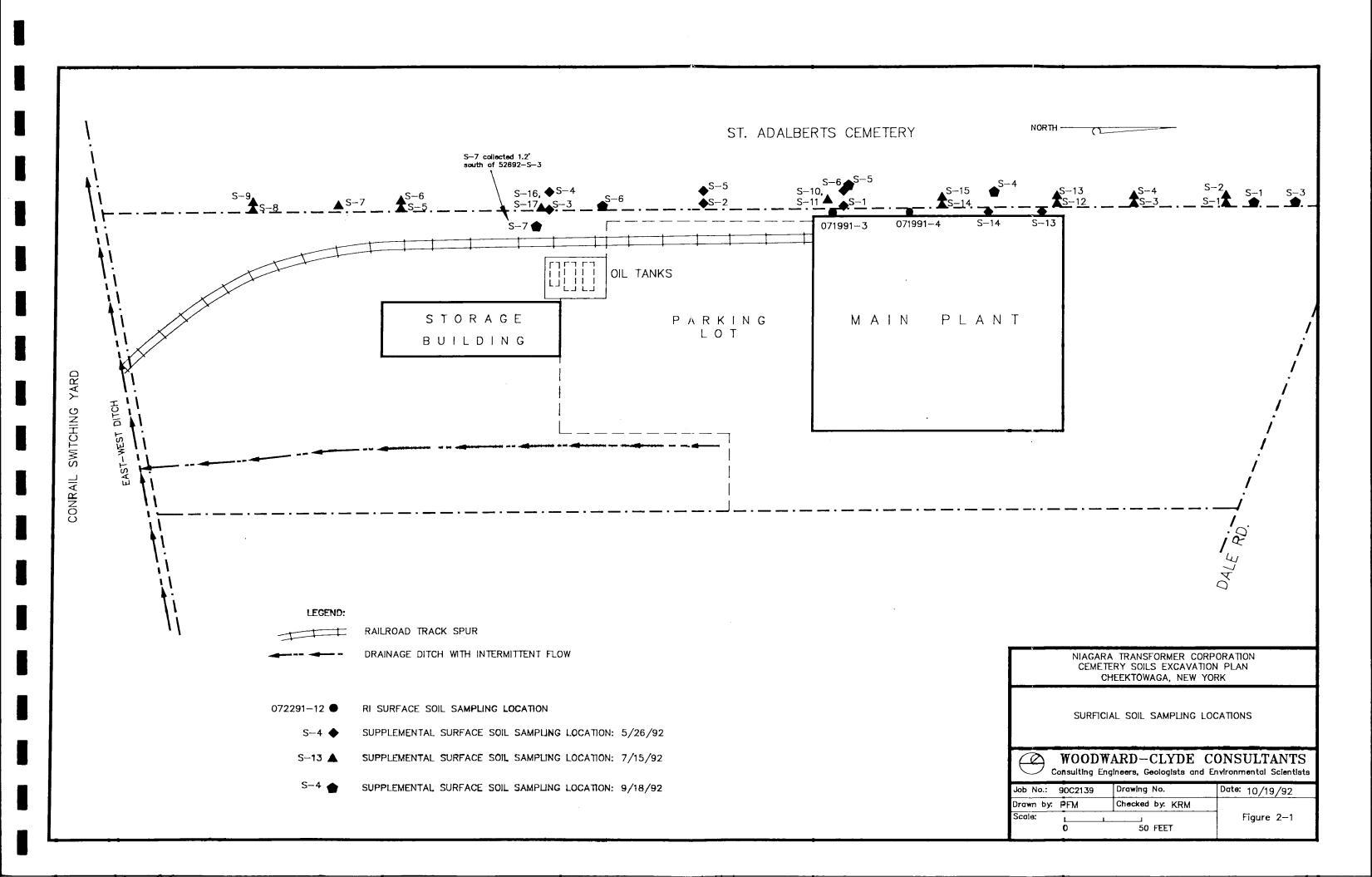
WCC's work is in accordance with our understanding of professional practice and environmental standards existing at the time the work was performed. Professional judgements presented are based on our evaluation of technical information gathered and on our understanding of site conditions and site history. Our analyses, interpretations, and judgements rendered are consistent with professional standards of care and skill ordinarily exercised by the consulting community and reflect the degree of conservatism WCC deems proper for this project at this time. Methods are constantly changing and it is recognized that standards may subsequently change because of improvements in the state of the practice.

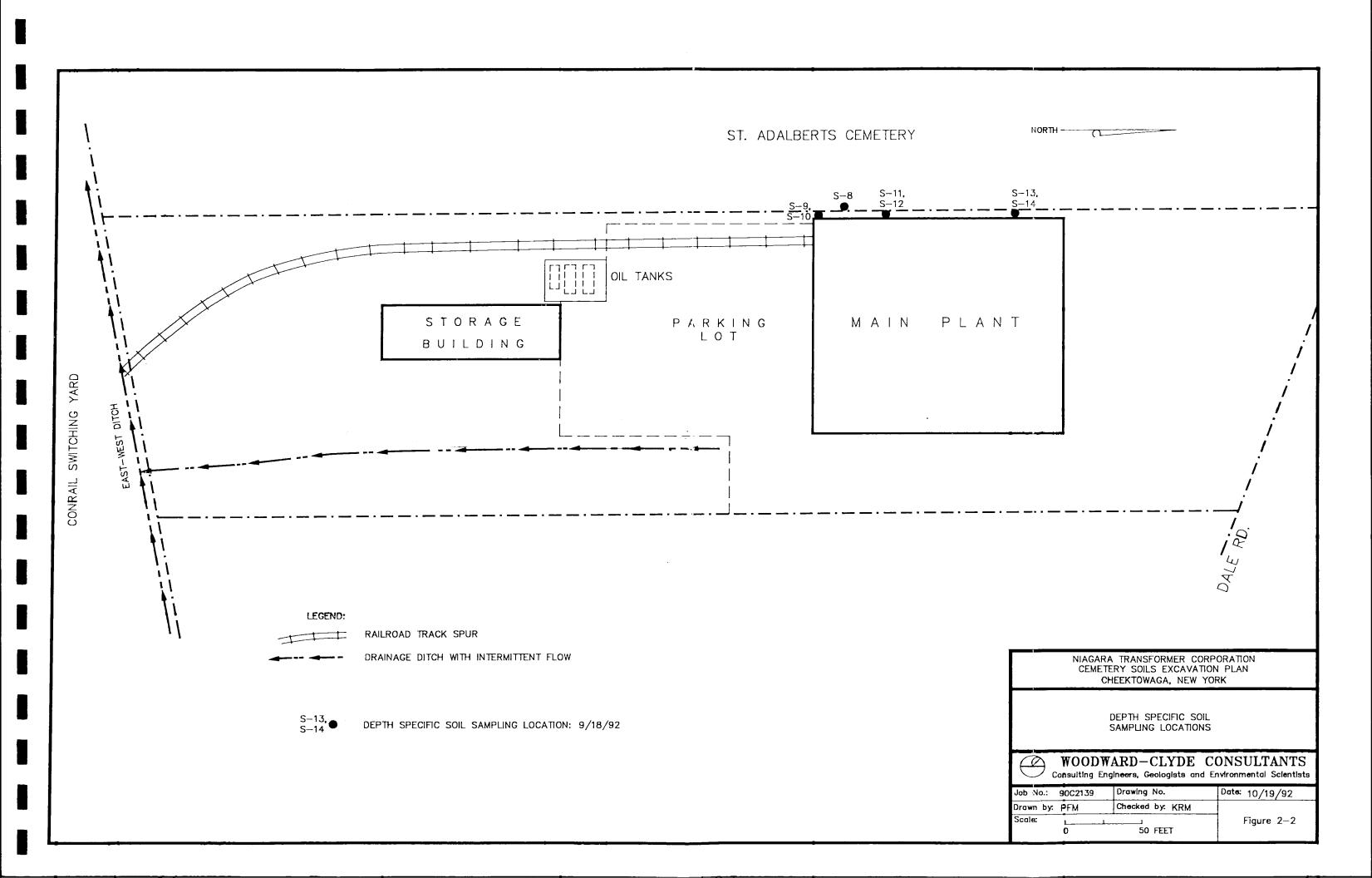
The information used for this investigation includes chemical analyses of soil samples. WCC has endeavored to collect soil samples which are representative of site conditions. These samples, however, can only represent a portion of the conditions in the area. The interpretations made in this report are based on the assumption that conditions do not deviate appreciably from those found during our field investigations.

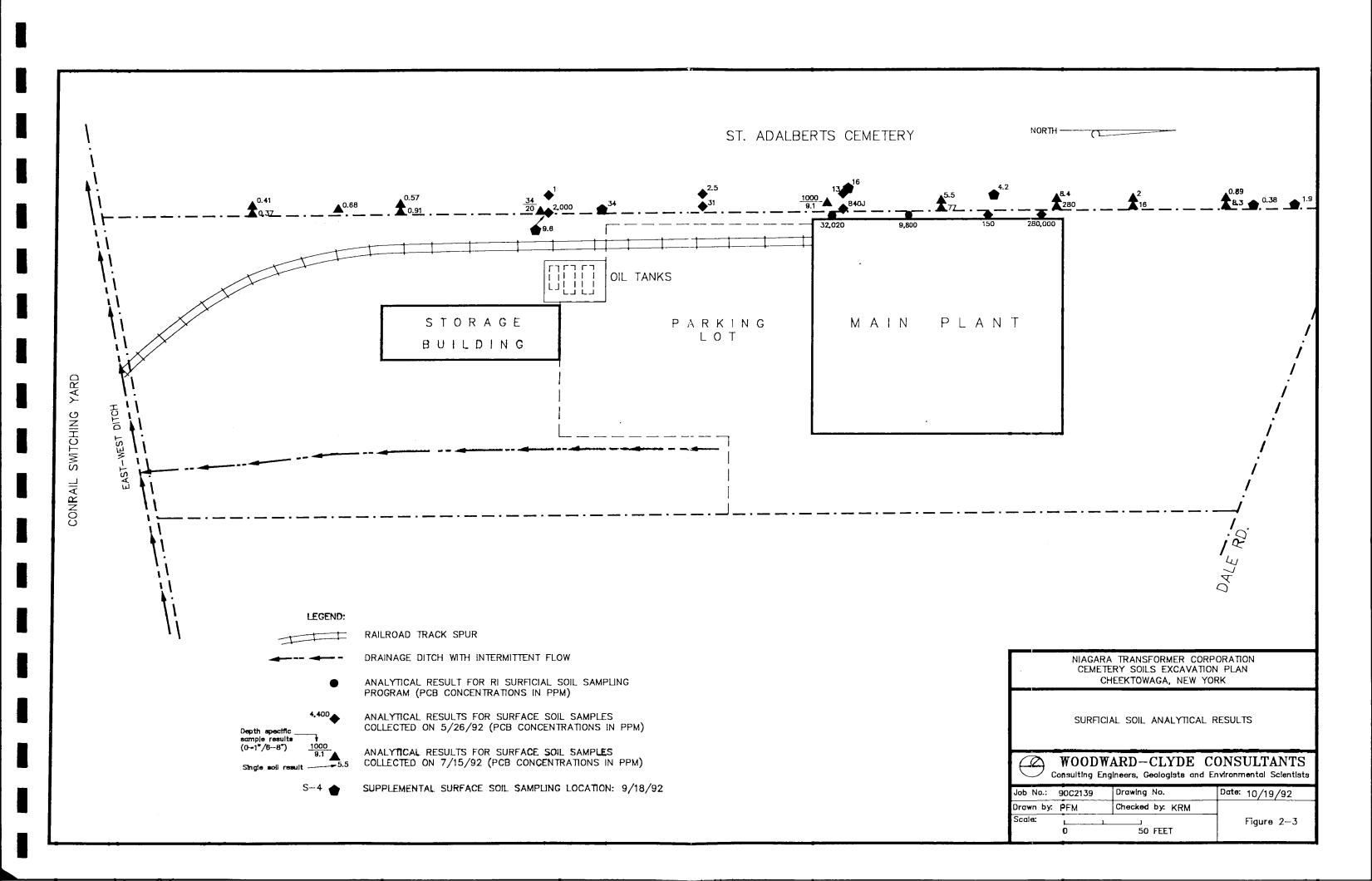
Ntcexpla.rep 5-1

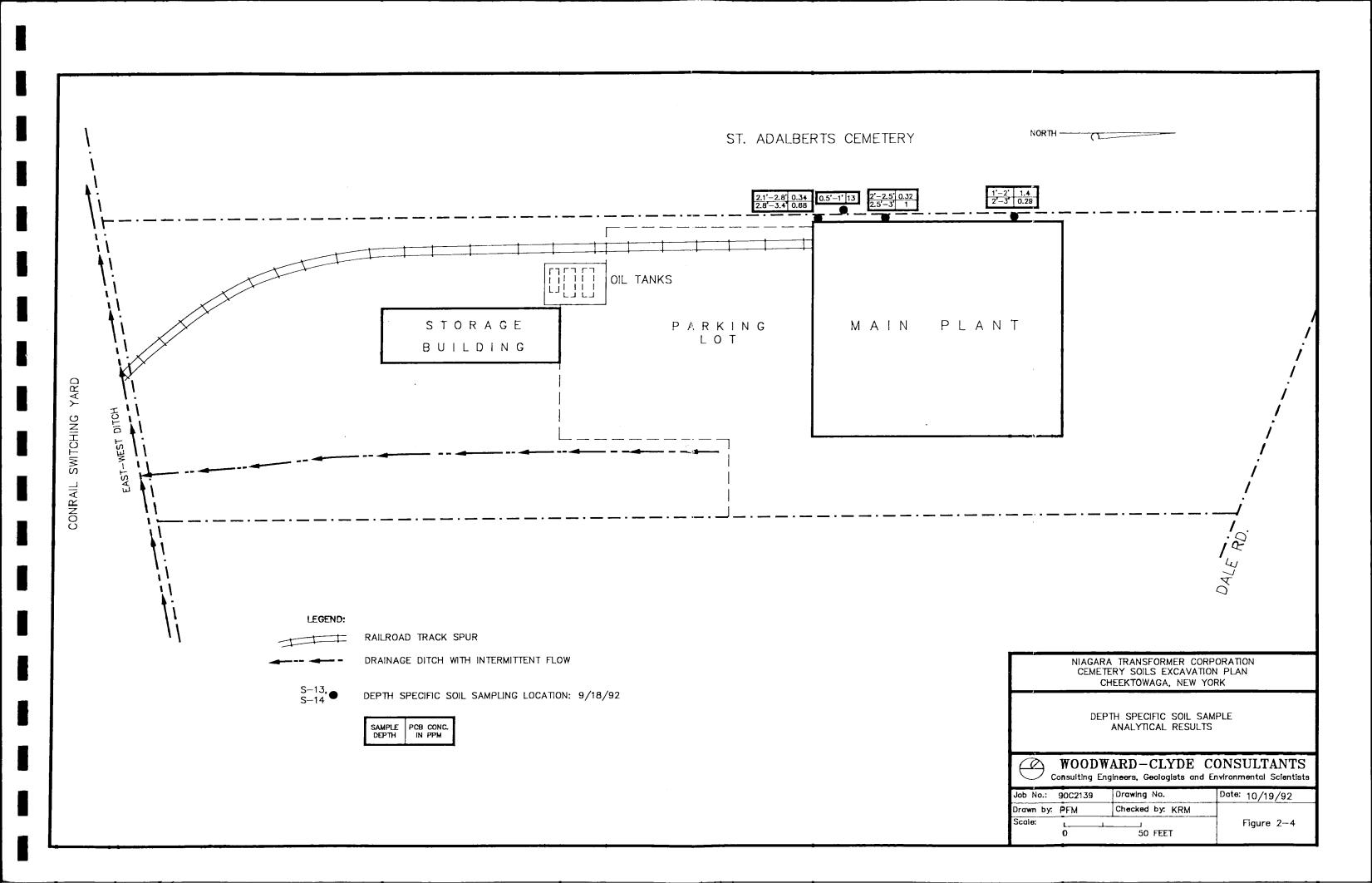
**Figures** 

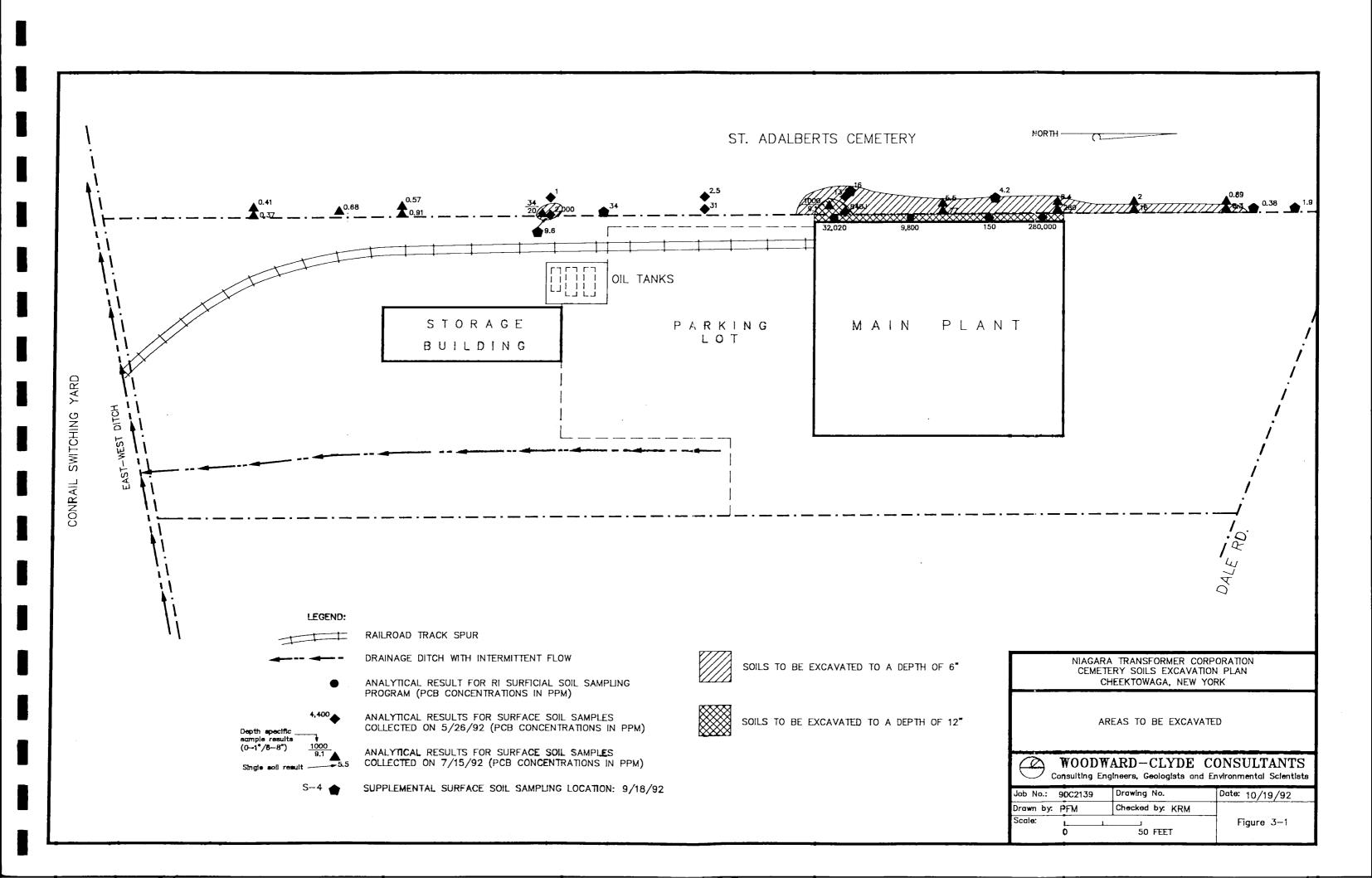












E 0 1992

ENVIRONMENT SET OF RECOGNISERVATION