

**EXHIBIT A**

**Interim Technical Memorandum  
Ground Penetrating Radar Survey  
and Exterior Radiation  
Survey Results**

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**INTERIM TECHNICAL MEMORANDUM**

**Ground Penetrating  
Radar Survey and Exterior  
Radiation Survey Results**

**Former Sylvania Electric  
Incorporated Products Facility**

**Cantiague Rock Road  
Hicksville, New York**

**GTE Operations Support, Incorporated**

**March 1998**



**O'BRIEN & GERE**  
ENGINEERS, INC.

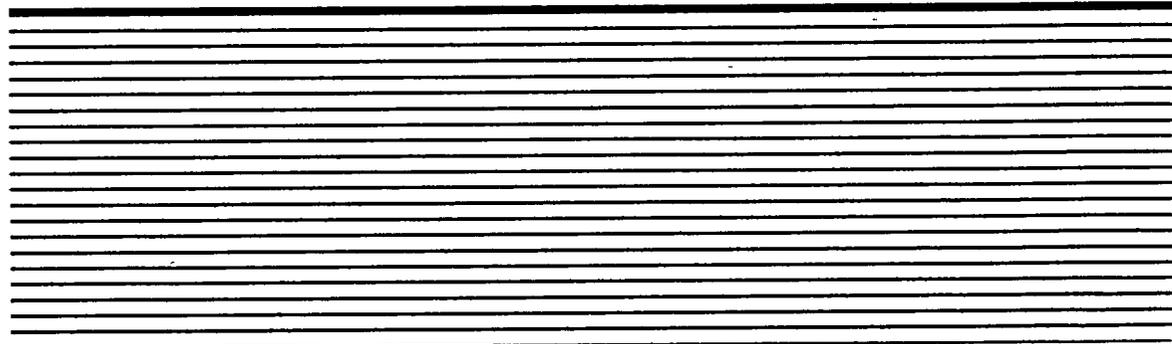
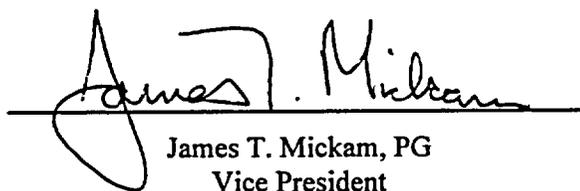


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Radiation Survey Results  
Former Sylvania Electric  
Products, Incorporated Facility**

*Cantiague Rock Road  
Hicksville, New York  
GTE Operations Support, Incorporated*

  
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March 1998



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## 1. Introduction

This technical memorandum summarizes the methods and results of a ground penetrating radar (GPR) survey and an exterior radiation survey which were conducted at the former Sylvania Electric Products Incorporated Facility (Sylvania Electric Products Facility, (the site- Figure 1) in Hicksville, NY. The former Sylvania Electric Products Facility is being investigated under New York State's Voluntary Cleanup Program for the presence of process residuals that may be related to manufacturing operations conducted by predecessor companies (as successor in interest) of GTE Operations Support Incorporated (GTEOSI). The surveys described herein were conducted in accordance with, and as a component of, the scope of work described in the Sylvania Electric Products Incorporated Facility Work Plan (Work Plan) [O'Brien & Gere Engineers, April 1997].

The former Sylvania Electric Products Facility consisted of a variety of buildings and subsurface structures, in use between the mid-1950s to the mid-1960s. In the mid-1960s, these buildings and structures were demolished or otherwise abandoned with the exception of a portion of the building currently occupied by Air Techniques, Inc. Buildings presently occupying the site are shown on Figure 2, and buildings comprising the former Sylvania Electric Products Facility are shown on Figure 3. Although the focus of the GPR and radiation surveys was the former buildings and structures, by necessity, the surveys were performed taking into consideration the footprint of the current buildings and appurtenances. Buildings and structures that once existed on-site such as the recharge basins, however, were sufficiently accessible that the surveys can be considered representative of previous site conditions.

Businesses currently occupying the property formerly occupied by GTEOSI's predecessor companies are:

- Gilbert Displays Incorporated at 140 Cantiague Rock Road,
- Magazine Distributors Incorporated (MDI) at 100 Cantiague Rock Road, and

- Air Techniques, Incorporated at 70 Cantiague Rock Road.

For the most part, these properties are either paved or covered by buildings. In addition, a portion of a public golf course driving range owned by Nassau County was included as part of the surveys. The public golf course driving range is located to the east of the Gilbert Displays, Magazine Distributors, and Air Techniques. Property owners were informed of, and gave permission to perform, the surveys prior to their implementation. Throughout the text of this report, survey locations are referenced to these buildings and their property boundaries.

The surveys were conducted with both the oversight and participation of New York State Department of Environmental Conservation (NYSDEC) personnel. Robert Stewart (NYSDEC) provided oversight while several individuals from the NYSDEC Bureau of Pesticides and Radiation performed approximately 75% of the radiation survey. Details regarding NYSDEC's role in this portion of the investigation is explained more fully in the text of this document.

## **1.1. Objectives**

The objectives of the surveys were as follows:

- The GPR survey was conducted in order to evaluate and confirm the presence of formerly used on-site accessible subsurface structures (e.g. recharge basins), define the depth of such structures prior to the installation of borings, and, if possible, evaluate the methodology by which the structures were filled (soil vs building rubble).
- The radiation survey was conducted in order to define, to the extent practicable, the lateral extent of above-background gamma emitting radioactive materials that may indicate the presence of process residuals, particularly uranium and thorium progeny.

The combined goal of the surveys was to assist in identifying the locations for subsequent surface and subsurface soil sampling activities.

## **1.2. Report format**

The GPR survey is discussed first and the radiation survey second in the following sections of this report. A capsule summary of each survey is provided following the discussion. The report concludes with a listing of recommended soil sampling locations.

**Interim Technical Memorandum  
Former Sylvania Electric Products Facility**

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## 2. Field investigations

### 2.1. GPR survey

A high resolution ground-penetrating radar survey was conducted at the site by O'Brien & Gere Engineers, Inc. (O'Brien & Gere) on December 5 and 6, 1997. This employed a portable subsurface interface radar, model SIR-2, manufactured by Geophysical Survey Systems, Inc. of North Salem NH. The system configuration for this investigation was composed of a single channel 500 MHZ antennae, a portable SIR-2 recording system, and a connecting 23 conductor communication cable.

#### 2.1.1. GPR methodologies

The SIR -2 unit was operated in two modes during the survey.

1. From the back of a mini-van with a 30-meter communication cable in clear areas without obstructions. The geophysicist operated and monitored data as they were collected on the SIR-2 recorder. An assistant pulled the 500 MHZ antenna and communication cable over predesignated scan lines.
2. Using a back-pack in areas with obstructions such as trucks, fencing and/or parking stops. The back-pack mode consisted of a back mounted battery pack, a forward viewed SIR-2 recording system, and a 3-meter communication cable. In this mode, the back-pack operator was required to both operate and monitor data collection.

While in operation, a low intensity microwave beam (equivalent to the intensity of a 100 watt light bulb) was transmitted downward or side-view (back-pack mode) by the antenna. The reflected microwave energy was received and translated to an approximate depth based on the estimated two-way travel time of the pulsed radar. For each survey scan, the depth data were collected at the rate of 32 times per second or, in terms of distance, approximately once per inch. As the GPR profiles were collected,

data were converted to digital information and stored in the subsurface interface (SIR-2) recording unit. The distance between GPR survey lines varied between 5 and 10 feet.

Survey transects were measured from the common fence line separating Gilbert Displays, MDI, and Air Techniques from the Cantiague Golf Course Driving range. The fence pole located at the northeast corner of the Gilbert Displays' property was selected as the 0,0 point for measurement purposes (Figure 2). The distance of each fence pole was measured away from the 0,0 pole providing the coordinate system from which the GPR (as well as the radiation) survey grid lines were established. In total, 66 fence poles were marked covering a total distance of 663.5 ft. Fence pole 17 marked the boundary between Gilbert Displays and MDI and, fence pole 46 the boundary between MDI and Air Techniques.

Each GPR profile was reviewed in real-time on the SIR-2 unit as it was being collected. New profiles were obtained when the initial profile appeared to be incomplete or of poor quality. Of 305 profiles obtained during the survey, four profiles were re-run (Scans 295, 334, 368, & 538) for these reasons.

The approximate depth of GPR reflectors was calibrated by comparing the known depth of a buried object, in this case a UST located at Magazine Distributors Inc., and the observed GPR reflector depth. Calibration is completed by adjusting the internal variable for the dielectric constant in the data acquisition program. Typically, this calibration will permit the estimation of depth of reflectors within six-inches. Based on the UST calibration the assigned dielectric constant at this site was established to be 6.0. A dielectric value of 6.0 is consistent with dry, slightly clayey sand.

Following completion of the field phase of data collection, the data were transferred from the SIR-2 unit to O'Brien & Gere's file server located in Syracuse, NY. Using post-processing software for the subsurface interface radar (SIR-2) known as WINRAD (also called RADAN for Windows), each GPR profile was reviewed and anomalous features noted. Afterwards, the location of each GPR profile line, the depth to each noted reflector, and the extent of broad features were compiled for reference purposes. The GPR profile summaries are included as Appendix A.

### 2.1.2. Area of survey

The GPR site survey area was selected in consideration of subsurface structures that may have received process materials, and previous radiation surveys conducted by NYSDEC and the NRC.. The areas surveyed are shown on Figure 2 and include the following.

- **Cantiague Public Golf Driving Range** - A 400 ft by 100 ft area located along the western edge of the Cantiague Public Golf Driving Range. This area represents a five to seven foot high easterly facing slope grading from the chain link fence (baseline) to the middle of the driving range. The driving range was not in any way used by GTEOSI or its predecessor complaints according to reviewed file records. This area was surveyed in order to corroborate the reviewed file records, establish background signal characteristics, and assist in the evaluation of local geology.
- **Gilbert Displays Inc.**- A 150 ft by 100 ft parking lot and driveway located east of the building. The existing subsurface structures are comprised of several parking lot storm water drywells. Six-inch high curbing separates the natural areas from the paved asphalt areas.
- **Magazine Distributors Inc.**- A 125 ft by 275 ft area located east of the building currently used for parking, loading, access, and fueling and, a 450 ft by 100 ft parking and access area located south of the building. Several storm water drainage drywells are located in the parking lot south and east of the building while fuel distribution facilities, underground fuel storage tanks, and a caged storage area are located at the rear of the building. An abandoned truck and miscellaneous items were located at the extreme southeastern corner of the property at the time of the survey.
- **Air Techniques, Inc.** - A 125 ft by 500 ft parking lot and driveway located north of the building. Existing structures include several storm water catch basins located in the parking and access areas to the north of the facility and an underground concrete vault of unknown dimensions located near the northwest corner of the facility. Reportedly, the westernmost portion of what is now the Air Techniques building was used as the Sylvania AEC Administration and Production building.

### **2.1.3. GPR survey results**

The relationship between the observed GPR reflectors and formerly used subsurface structures (identified from historical records listed in the site Work Plan) is described below. The basis of this relationship was established by comparing the results of the GPR survey (Appendix A), the visual graphic GPR output reviewed using WINRAD, and Figures 2 and 3 illustrating current and historic site usage. The results are described in context of current property ownership. Consistent with the output of the GPR SIR-2 unit, discussion of depths are in units of meters. Depths below land surface (bls) are in discussed in three ranges:

1. upper -0 to 1 meter bls
2. moderate - 1 to 2 meters bls; and
3. deep - 2 to 5 meters bls.

For reference and interpretation purposes, a variety of figures were prepared and referenced throughout this report.

- Figure 2 - a site map illustrating the location of the GPR profile lines with respect to the existing facility.
- Figure 3 - a site map illustrating the location of the GPR profile lines with respect to the former Sylvania Electric Products facility.
- Figure 4 - a site map illustrating color contours plotted to illustrate the each GPR reflector and the former Sylvania Electric Products facility. The map illustrates the depth distribution of identified GPR reflectors.

The maps listed below were developed to illustrate the relationship of GPR reflectors to a predetermined depth pattern based on historical data, particularly the depth of individual structures (e.g., no structure was identified that was greater than 5 meters below ground surface on historical maps of the Sylvania facility) as well as the overall patterns of the GPR reflectors.

- Figure 5 - illustrates the depth distribution of identified GPR reflectors greater than 0.5 meters in depth.
- Figure 6 - illustrates the depth distribution of identified GPR reflectors greater than 1.0 meters in depth.

- Figure 7 - illustrates the depth distribution of identified GPR reflectors greater than 2.0 meters in depth.
- Figure 8 - illustrates the depth distribution of identified GPR reflectors greater than 3.0 meters in depth.
- Figure 9 - illustrates the depth distribution of identified GPR reflectors greater than 4.0 meters in depth.

The maps illustrated in Figures 5 through 9 indicate that the majority of total reflectors identified at the former Sylvania Electric Products facility were located between 0.3 and 3.3 meters (1 ft to 10 ft) bls.

#### Cantiague Park Public Golf Driving Range

The Cantiague Park Public Golf Driving Range (Driving Range) comprises the eastern most portion of the study area. The area is relatively flat, sloping eastward away from the fence which separates this area from the site. As shown on Figure 2, forty-two GPR profiles were obtained from this area of study. Each traverse trended from east to west. Signal penetration was to up to 5 meters in depth (approximately 15 feet). Interpretations of the GPR profiles from this area indicate that there is a well defined reflective surface characteristic of sandy soils which thin to the west. An example area profile is GPR Profile 296 shown in Appendix B.

#### Gilbert Displays, Inc.

The Gilbert Displays, Inc investigation area was formerly the location of Sylvania's Recharge Basin #2 and Building #8 where, according to reports, burning and chemical processing took place.

Shallow and moderate reflectors in this area correspond to the location of Recharge Basin #3. The absence of shallow and moderate depth GPR reflectors in the reported area of Building #8 (profiles 345-351) suggests that subsurface structures associated with this building no longer exist. Near-surface GPR reflectors identified within the parking lot area are likely a result of fill and regrading prior to construction of the parking lot. In addition, a moderate depth east-west trending GPR reflector may provide further evidence of the existing underground recharge basins observed at the site.

Magazine Distributors, Inc.

Prior to the construction of the Magazine Distributors Inc. building, the area was occupied by Sylvania facilities designated as Building #6 (a single story building which was used for solvent and storage) and Building # 7 (a single story concrete block building reportedly used to house a pump station). Several metal sheds and a single reservoir were also reportedly located immediately east of the Magazine Distributors building. Other structures included recharge basins #1 and #2 which were located to the east and south of the current building (Figure 2).

Interpretation of the GPR profiles obtained from this portion of the former Sylvania facility confirmed the presence of reflectors corresponding to the location of Recharge Basin #1 (profiles 355-376 & 436), Recharge Basin #2 (profiles 534-548) and the reservoir basin located west of Pump House Building #7 (profiles 577-589). The deepest GPR reflectors correspond with the central axis of each of the recharge basins, suggesting that the basins were abandoned by filling. The fill material did not exhibit small, well defined reflectors which would be indicative of metal debris.

GPR profiles 550 to 555 (excluding 554), Appendix B, illustrate well-defined subsurface reflectors. These reflectors correspond to the existing underground storage tanks located southeast of the MDI building.

Air Techniques, Inc.

The area of study included the parking lot at the rear and north of the building. This area is reportedly the former location of six small sheds and buildings and the northern portion of Recharge Basin #4 (Figure 3).

The GPR profiles obtained from this area contain reflectors that correspond, and thereby confirm, the location of Recharge Basin #4 (profiles 446-460) and the foot-print former utility buildings. A deep reflector trend was also observed, corresponding to a series of former manholes and drains. No evidence of extensive buried metal debris was observed. A single moderate depth reflector (4-5 ft bls), however, was observed north of the former gas storage shed (Building # 11, profiles 490 & 491-Appendix B).

#### 2.1.4. GPR survey summary

The GPR survey corroborated the location of many of the subsurface structures associated with the former Sylvania Electric Products Facility and identified in site file records. With the exception the unidentified reflector located north of the former gas storage shed and the recharge basin, suspected subsurface structures associated with past activities appear to be limited to the upper 1 meter.

The upper one meter of the site appears to have been disturbed by building construction activities. At depths greater than this, the subsurface GPR signals appear to correspond to the deepest portions of several of the recharge basins and to a greater extent several deeper geologic structures. Two potential geologic structures are present along the western one-half of the driving range. These GPR structures may be related to zones of stratigraphic change or change in permeability warranting further sampling. Another deeper linear structure is located north of the Air Techniques, Inc. facility and trends along the axis of Recharge Basins # 1 and #2. These GPR signals.

## 2.2. Radiation survey

Approximately 2/3 of the exterior radiation survey was performed by personnel from the NYSDEC Bureau of Pesticides and Radiation (the Bureau) and the remaining 1/3 by Chemrad Tennessee Corporation (Chemrad) under contract to O'Brien & Gere Engineers. The survey performed by the Bureau took place on November 17, 18, and 19, 1997. It is noted at the time of writing this report the NYSDEC has not issued a final report on their portion of the radiation survey. As such the findings of the NYSDEC portion of the radiation survey discussed in this report should be considered preliminary.

That portion of the survey performed by Chemrad took place initially on December 6, 1997 and again on February 7, 1997. The February 7 survey was required when the data from the December 6, 1997 survey was inadvertently lost because of a computer hardware failure. In each instance, the survey was conducted by trained personnel using equipment manufactured by Chemrad.

### **2.2.1. Methodology**

The following radiation detection and positioning equipment was utilized for the survey:

- A Ludlum Model 3 rate meter with a 2-inch x 2-inch sodium-iodide (NaI) gamma scintillation detector (Model # 44-10). This equipment was used to measure radiological activity in counts per minute (cpm).
- Real-time positioning equipment designated by Chemrad as the Ultrasonic Ranging and Data System (USRADS 2200 Ultrasonic system).
- Radio frequency (RF) communications which were utilized for system timing and data transfer.
- A portable computer system that was used in the field to receive, display, store, and reduce data.

For consistency, the baseline for the radiation survey was established at the common large chain link fence that is located on the property boundary separating the former Sylvania Electric Products facility and the Cantiague Park golf driving range. The same reference 0,0 point, consisting of the fence pole located at the northeast corner of the Gilbert Display property, was utilized for both the radiation as well as the GPR survey.

To position the radiation detector in space, The USRADS system uses a series of stationary receivers and RF transmitters to establish the location of recorded detector readings which are displayed in real-time on a lap top computer. Because they are real-time, the exact location as well as the extent of elevated radiation readings can be readily confirmed in the field. In addition, graphic illustrations of the survey can be produced at any time during the survey for further evaluation. Such illustrations have been designated by Chemrad as NavTracMaps. The NavTracMaps show the path taken by the surveyor as a series of small, color coded dots. For locations with data exceeding a selected threshold value, the surveyor's position is indicated by larger color-filled circles on the NavTracMap. NavTracMaps are presented in Appendix C.

The survey was performed by two individuals. The "surveyor" performed the actual walkover wearing a backpack containing the radiological detection instrumentation and positioning equipment (the "Back Pack") and

the "operator" who operated a mobile base station consisting of a host microcomputer and a master controller. The "surveyor" performed transects at a rate of 2 ft/sec along traverses that were approximately 3 feet apart. Radiation readings were taken at a relatively constant position approximately 1 to 1.5 inches above the ground surface. The radiological and positional data collected by the Data Pack were transmitted to the base station Master Controller via a radio frequency (RF) link each second. The location and corresponding data value was plotted on a NavTrac grid map displayed on the host computer. Once proper survey coverage was accomplished, the operator ran the data reduction routines on the microcomputer. Several software routines enable the operator to review coverage and identify anomalies, missed areas, or other points of interest which were resurveyed, as appropriate.

The radiation instrumentation was calibrated using a Cesium-137 NIST traceable source. Calibrations were coordinated by Chemrad and the NYSDEC, as applicable. Records are retained by Chemrad and the NYSDEC. Each radiation survey instrument received a daily response check prior to use in the field and at the end of the survey day. This daily response check included battery checks, background checks and a source check. Daily response checks were performed at the GTEOSI site using a Cs 137 source for the NaI probe. Consistent with standard practice the instruments were maintained within  $\pm 20\%$  for the duration of the survey..

### **2.2.2. Radiation survey results**

The exterior radiation survey results are illustrated on the NavTracMaps developed during each survey is included as Appendix C and discussed below. Chemrad's Final Radiological Characterization Report dated February 1998 is included as Exhibit 1. Background radiation readings varied for each property surveyed as discussed below. Variation is normal and is attributed to location, whether the survey was done in an area of exposed surface soils, and in response to different NaI detectors.

#### ***Cantiague Park Golf Driving Range***

The Cantiague Park golf driving range survey was conducted along the east of the common fence that separates the former Sylvania Electric Products Facility and the driving range on Wednesday, November 17, 1997. Background radiation readings ranged between 8600 cpm and 9900 cpm. Background readings at the NYSDEC background sample location adjacent to the Cantiague Park exit road ranged between 7600 cpm and 8000 cpm.

Locations of above background radiation on the Cantiague Park golf driving range property were:

- A 15 ft by 10 ft area located at the southeastern corner of the Gilbert Displays property H as shown at the 150 ft point on the NavTrackMap (Appendix C). Here, radiation readings ranged between 1.5 and 2 times background.
- A 10 ft by 10 ft area located between fence poles 31 and 32, at a distance of 305 ft to 315 ft as indicated on the NavTrackMap.

#### Gilbert Displays Property

The Gilbert Displays property survey was conducted in the back parking (east side) and the south-side parking area and driveway. Background radiation readings ranged from approximately 6800 cpm to 8800 cpm. Slightly elevated radiation readings were noted in the following locations:

- a 100 ft x 20 ft area (point 11 on NavTrackMap -Appendix C) adjacent to the back of Gilbert Displays building. This area exhibited readings approximately 1.5 times background. The radiation readings may be related to the building construction materials, however, this should be further evaluated with subsurface sample collection.
- a 20 ft x 80 ft area at the southeast corner of the property. In terms of radiation, this area can be divided into subareas one of which is 10 ft x 40 ft (coded in yellow) where radiation levels were twice background and another which is 30 x 10 ft (coded in red) at the property boundary where levels were recorded >2.5 times background. Radiation levels at the property boundary were approximately 5 times background.

#### MDI Property

The MDI property survey was conducted in the side parking (south side) area and the east-side parking area which borders the Cantiague Park driving range property. The background radiation reading on December 6, 1997 was 6165 cpm and on February 7, 1998 was 2000 cpm. Above background levels of radiation were noted at the following locations:

- An approximate 5 ft diameter area located in the south-side parking area 104 ft west of fence corner post and 33 ft north of the fence-line that

separates MDI and Air Techniques. The location is shown at the -250 ft point on the NavTrackMap. The area exhibited readings of 1.5 to 2 times above background.

- The two northernmost blacktopped entrance ramps located in the east-side parking area as shown between the -100 and -150 ft point on the NavTrackMap. Readings in these areas were about twice background.
- The corner of the MDI/Gilbert Displays property line between fence poles 17 and 18 exhibited consistent readings about 3 times background. The location is shown at the (0,150 ft) location on the NavTrackMap.
- An approximate 20 ft diameter area located 18 ft west of pole 30 exhibited readings up to 4 times background as shown offset from the 300 ft point on the NavTrackMap.
- An area approximately 27 ft west of poles 40 and 41 exhibited readings up to 1.5 times background. The location is shown offset from the 400 ft point on the NavTrackMap..

#### Air Techniques Property

The Air Techniques property survey was conducted in the back parking (east side) area and the north-side parking area on Tuesday, November 17, 1997. Background radiation readings ranged between 5000 cpm and 6500 cpm. Locations of above background levels of radiation identified during the survey include:

- A localized area 20 ft from the northeast corner of building shown about at the (500,-100) location on the NavTrackMap. The location was about the diameter of a quarter and exhibited readings greater than 3 times background.
- A 20 ft x 20 ft area located at the eastern edge of the north parking area as shown offset from the -150 ft point on the NavTrackMap. This area exhibited readings approximately 3 times background. The center of this area (approximately 1 ft in diameter), however, exhibited readings 50 times background at 0.5 ft above ground surface and 100 times background approximately 1 cm above the ground surface. The detector responses suggest a near surface point source.
- Four additional areas where readings were approximately twice background. The four areas are depicted on the NavTrackMap as four

blue areas. The geometry of the first two areas coincided with areas where the asphalt parking lot was patched. The third area covered was 20 ft x 40 ft and located in the eastern parking lot about 5 ft from the fence line with MDI. The fourth area was located at the western end on the north parking lot between a subsurface concrete vault and the Air Techniques building.

### **2.2.3. Radiation survey summary**

Several areas of above background levels of radiation were encountered during the radiation survey:

- two on the Cantiague Park golf course driving range,
- two on the Gilbert Displays' property,
- six on Magazine Distributors Inc, and
- six on Air Techniques, Inc.

For the most part the above background readings were twice background or less. A very localized area approximately 1 ft in diameter at the eastern edge of the Air Techniques north parking area exhibited readings 50 times background. As presented in the following section, further evaluation of each of the above background areas is proposed.

Although at the writing of this memorandum the NYSDEC portion of the radiation survey is considered preliminary, the data collected is suitable for proposing the locations for further investigation.

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### 3. Recommendations

In consideration of the results of the GPR and exterior radiation surveys, invasive surface and subsurface sampling activities are proposed at the locations illustrated on Figure 10 and as described below. The described locations designate biased sampling locations. The soil boring program presented in the 4/97 Work Plan and previously reviewed by NYSDEC, the NYS Department of Health, and Nassau County has been revised to incorporate the recommended soil boring locations. The boring numbers and locations are presented below.

#### *Gilbert Displays Property*

1 to 3 - located along the axis of Recharge Basin #3. One boring will be advanced at the southern end of the recharge basin to evaluate the area where GPR reflectors were observed between 6 ft and 8 ft bls.

4 & 5 - located adjacent to and on the east side of the Gilbert Displays building to evaluate the general area where radiation readings were 1.5 times background.

6 to 9 - located at the southeast corner of the property. Borings 6 & 7 will be located in the 10 ft x 40 ft area where radiation readings were 2 times background and borings 8 & 9 will be located in the 10 ft x 30 ft area where readings ranged from 2.5 to 5 times background.

10 - located in the vicinity of the former metals storage tank.

11 - the former leaching pool location along the Gilbert Display/MDI property line.

#### *MDI Property*

12 - the former leaching pool location along the Gilbert Display/MDI property line.

13 & 14 - located at the corner of the MDI/Gilbert Displays property line between poles 17 and 18 where radiation readings were about 3 times background.

15 & 16 - located along the fence-line adjacent to poles 30 and 31 where elevated radiation readings were observed on both sides of the fence.

17 - located in the approximate 20 ft diameter area located 18 ft west of pole 30 that exhibited readings up to 4 times background.

18 & 19 - located along the axis of the former reservoir location.

20 & 21 - one boring each located on the two northernmost ramps adjacent to the MDI building.

22 - located in the area approximately 27 ft west of poles 40 and 41 that exhibited radiation readings up to 1.5 times background.

23 to 25 - located along the axis of former Recharge Basin #2

26 to 28 - located along the axis of former Recharge Basin #1

29 - located in the south-side parking area which exhibited radiation readings of 1.5 to 2 times above background.

30 to 38 - located at various historical leaching pool locations along the south side of the MDI Building.

#### *Air Techniques*

39 - area located 20 ft from northeast corner of building which exhibited readings greater than 3 times background.

40 - 20 ft x 20 ft area located at the eastern edge of the north parking area that exhibited readings greater than 3 times background. In addition, the center of this area exhibited readings up to 50 times background at 0.5 ft above ground surface.

41 & 42 - located in the northern portion of former Recharge Basin #4 and in the vicinity of an asphalt patch where radiation readings were about 2 x background.

43 & 44 - locations will correspond to two areas with radiation readings approximately 2 times background. Boring 43 is located in a 20 ft x 40 ft area and is located in the eastern parking lot about 5 ft from the fence line with MDI. Boring 44 is located in the vicinity of a storm water drain.

45 - is located where a possible man-made GPR reflector was observed north of the former gas storage shed # 11.

46 & 47 - are located at the northwest corner of the Air Techniques building where elevated radiation readings were observed between the building and a subsurface concrete vault.

48 - is located at the former location of the electric transformer yard.

*Cantiague Park Golf Driving Range*

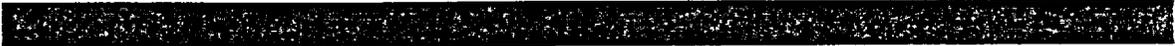
53 to 59 - will be located adjacent to the fence line so as to focus on a 15 ft by 10 ft area located at the southeastern corner of the Gilbert Displays property and the area located between poles 31 and 32.

*Others*

49 & 50 - will be located west of the Air Techniques facility to provide an assessment of conditions in this vicinity.

51 & 52 - will be located in the access drive south of Gilbert Displays to provide an assessment of conditions in this vicinity.

Based on the results of these initial soil borings, up to 20 additional soil borings may be completed to further evaluate the nature and extent of former process residuals, if required. Soil borings will be completed in accordance with the methodology presented in the Work Plan.



## Appendix A

### Summary of GPR Data

**Summary of Ground Penetrating Radar Data  
Former Sylvania Electric Products Inc Facility**

File No.	Length (ft)	Total Scans	Length/Scan	From Scan	To Scan	Depth (m)	Type/Comments	
1	100	904	0				No change at depth	
				143	143	0.86	Small reflector	
				241	241	0.84	Small reflector	
				353	353	0.20	Near surface reflector	
				353	353	0.67	Small reflector	
				446	446	0.96	Small reflector	
				600	600	0.54	Medium reflector	
				0	347	0.70	0.00	Fill pinching to west (w) (e)
292	100	909	0				No change at depth	
				145	145	1.50	MS reflector	
				275	275	1.52	MW reflector	
				326	326	0.71	SW reflector	
				406	406	1.38	SW reflector	
				440	440	1.35	SW reflector	
				703	703	0.68	MW reflector	
				824	824	1.12	SW reflector	
				0	295	0.50	0.00	Fill (e) (w) Potential fill
				643	895	0.92	Max	
293	100	890	0	84	84	0.93	LW	
				149	149	1.02	LW	
				274	274	1.55	MS	
				265	311	1.06	Fill structure	
				0	646	1.04	0.00	FPTW
294	100	802	0	0	580	1.04	0.00	FPTW
295	100	869	0	99	99	0.61	SW	
				137	137	1.02	SS	
				405	405	0.63	SW	
				0	640	0.98	0.00	FPTW
296	100	819	0	105	105	0.90	SW	
				142	142	0.95	SS	
				195	195	5.51	Broad bedding structure	
				392	342	—	Quiet zone	
				720	819	—	Quiet zone	
				0	605	0.85	0.00	FPTW
297	100	876	0	596	596	0.95	SW (Broad Bed X & Fill)	
				0	721	0.85	0.00	
				384	585	—	Quiet	
				805	876	—	Quiet	
2	100	773	0	141	141	1.31	SS (Broad X & Fill)	
				0	587	0.89	0.00	FPTW

**Summary of Ground Penetrating Radar Data  
Former Sylvania Electric Products Inc Facility**

File No.	Length (ft)	Total Scans	Length/Scan	From Scan	To Scan	Depth (m)	Type/Comments
	100	796	0	233	233	0.61	MW
				499	499	1.04	SW (Broad X & Fill Structure)
				737	737	0.59	SS
				0	519	0.81	0.00 FPTW
300	100	794	0	158	158	0.95	Fill
				619	619	0.42	Fill
				0	480	0.85	0.00 FPTW
301	100	830	0	565	565	0.62	SW
				0	379	0.85	Fill
				20	361		XF
302	100	821	0	486	486	0.62	MS
				0	365	0.83	Fill
303	Is Rerun of Line 302						
304	100	890	0				
575		953	0	316	316	0.82	SW
				407	407	0.19	MW
				342	342	1.97	SR
				817	817	2.10	MW
				844	844	2.00	MW
				843	862	2.50	XF
580		(132-918)		235	235	0.45	MW
				292	292	1.82	MW
				490	490	0.88	MW
305	100	916	0	Subsurface structures absent.			
306	Erroneous Run						
307p	100	840	0	0	147	0.87	XF
				256	256	3.88	SW
308 p	100	893	0	407	843	1.76	XF
309 p	100	852	0	457	852	4.02	XF
310 p	100	876	0	135	135	0.34	SS
311	100	879	0	122	122	1.00	Fill
312 p	100	855	0	435	435	3.79	MS
				164	164	0.53	SW

**Summary of Ground Penetrating Radar Data  
Former Sylvania Electric Products Inc Facility**

File No.	Length (ft)	Total Scans	Length/Scan	From Scan	To Scan	Depth (m)	Type/Comments
313 p	100	887	0	480	887	2.18 3.98	XF or depositional
314 p	100	810	0	0	776	0.83	Fill
				364	364	0.83	SW
				153	153	3.13	Large broad reflector
315 p	100	813	0	216	468	0.97	XF
				394	394	1.71	SW
316 p	100	831	0	0	547	1.05	FPTW
317 p	100	809	0	0	467	0.93	FPTW
				467	809	3.00	Ground elev. change?
318 p	100	778	0	108	108	0.42	SW
				0	447	0.77	FPTW
319 p	100	810	0	547	810	3.44	Ground elev. change?
320 p	100	839	0	0	576	0.86	Fill fairly uniform thickness
				576	839		Rising slope effect from 516 to 839?
321 p	100	796	0	0	494	1.00	Fill fairly uniform thickness
				494	796		Rising slope effect from 494 to 796?
322 p	100	787	0	376	376	3.51	MW
				530	530	2.78	SW
						2.37	Fairly uniform dark (low energy band access image)
				420	787		Slope effect
323 p	100	814	0	703	703	3.00	SW-S
				364	364	2.11	MW-S
				0	334	0.82	FPTW
				579	814		Rising slope effect?
324 P	100	898	0	93	395	0.95	Fill depression
				585	898		Rising slope effect?
				513	645	2.05	Potential gravelly layer
325 p	100	798	0	0	625	0.74	Fairly uniform fill thickness
				625	798		Using slope effect?
326 p	100	808	0	0	558	0.76	FPTW
327 p	100	802	0	0	392	0.78	SEE PICTURE IN NOTES
				392	802		
328 p	100	773	0	101	101	2.94	MW
				0	593	0.90	FPTW
				410	410		As file 327 p

**Summary of Ground Penetrating Radar Data  
Former Sylvania Electric Products Inc Facility**

File No.	Length (ft)	Total Scans	Length/Scan	From Scan	To Scan	Depth (m)	Type/Comments	
329 p	100	797	0	18	137	1.26	4.68	Linear feature?
				0	610	0.91		Fill depression
				397	797			Rising slope effect?
330 p	100	825	0	25	106	1.30	2.89	Linear feature?
				0	637	0.82		FPTW
				431	825	0.81	2.47	Rising slope effect?
331 p	100	777	0	0	134	1.09	5.44	Linear sloping reflector
				303	777	0.73	2.77	Rising slope effect?
332 p	100	784	0	320	784	0.73	2.73	Rising slope effect? as 331 p
333 p	100	780	0	151	151	0.53		SW
				280	762	0.62	2.58	Rising slope effect - Driving Range
334 p	80	866	0	123	123	0.91		SW
				416	416	0.53		SW
				0	396	1.26		Recharge basin? Poor signal penetration flat banding below 1.26 m, signal more distorted to end of line. Gilbert Displays
				396	866			
335 p	80	809	0		120	0.45		SW
					390	0.35		SW
				0	404	1.81		Signal loss below 1.81 m (recharge basin?)
				16	442	1.21	1.86	Dark (quiet area)
336 p	80	854	0	155	155	0.34		SS
				75	665	2.00		Signal loss below 2 m
				510	510	0.54		SW
337 p	80	804	0	153	153	0.27		MW
				109	562	2.00		Signal loss below 1.81 m (recharge basin?)
338 p	80	725	0	153	510	2.13		Velocity break at 153, signal loss below 2.13 m.
				535	535			Curb
339 p	80	779	0	62	163			Quiet
				163	549	2.12		Potential recharge basin
				595				Curb
340 p	77	720	0	38	166			Quiet
				166	480	2.13		Potential recharge basin
				564	564			Curb

**Summary of Ground Penetrating Radar Data  
Former Sylvania Electric Products Inc Facility**

File No.	Length (ft)	Total Scans	Length/Scan	From Scan	To Scan	Depth (m)	Type/Comments
2	76	758	0	285	285	1.36	SW
				596	596		Curb
				326	326		Manhole
				85	85	0.42	SW
				46	189	2.12	Potential structure (leach pool?) Flat bottom, signal loss below 2.12 m.
342 p	75.5	731	0	329	329	1.02	Potential pipe
				465	465	0.59	SW
				132	216	1.83	Potential structure
				594	594		Curb
343 p	74	699	0	348	348	1.49	Potential pipe
				567	567		Curb
344 p	70	729	0	485	485	0.42	SW
				624	624		Curb
345 p	70	672	0	567	567		Curb
				132	132	0.28	Broad reflector
				418	497		Velocity break, quiet area
346 p	149	1398	0	221	221	0.52	SW
				263	263	0.32	SW
				1037	1037	1.48	Potential pipe
				1315	1315		Curb
				1355	1355	0.38	SW
347 p	140	1412	0	454	454	0.28	SW
				143	143	0.40	SW
				854	854	2.07	SW
				1316	1316		Curb
				1229	1229	0.23	SW
348 p	140	1364	0	110	110	0.75	SW
				282	282		Pipe or manhole
				159	159	0.44	SW
				859	859	2.20	SW
				1269	1269		Curb
349 p	140	1334	0	1223	1223	0.41	SW
				180	180	0.39	SW
				264	264	0.34	SW
				1076	1076	1.38	SW
				862	862	0.36	SW
3F	140	1187	0	483	483	1.96	MW
				498	498	1.40	SS
				725	725	0.48	SW
				1121	1121		Curb

**Summary of Ground Penetrating Radar Data  
Former Sylvania Electric Products Inc Facility**

File No.	Length (ft)	Total Scans	Length/Scan	From Scan	To Scan	Depth (m)	Type/Comments
351 p	64	750	0	142	142	0.49	SW
				164	164	0.44	SW
				252	252	0.29	SS
352 p	160	1956	0	893	893	0.34	SW
				934	934	0.34	SW
				1603	1748	0.99	Potential subsurface structure
353 p	160	1843	0	572	572	0.94	Potential dry well
				907	907	0.49	SW
				963	963	0.44	SW
				1128	1128	0.32	Manhole?
				1804	1804		Curb
354 p	160	2009	0	370	370		Manhole?/curb
				720	720	0.61	SW
				963	963	1.25	SW
				1354	1787	1.94	Potential recharge basin Gilbert Displays
355 p	70	735	0		166	2.81	SW
					412	0.43	SW
				481	687	1.09	1.26 Strong reflector Signal loss at > 2 m - MDI
356 p	70	866	0	362	362	0.73	SW, ringing
				645	645	1.30	SW
				761	761		Manhole? Parking header
357 p	70	701	0	371	575	0.39	1.07 SS with strong reflector (horz)
				0	371		Potential recharge basin
358 p	70	684	0	136	136	0.35	SW
				131	131	0.58	SS
				484	484	0.36	SS
				399	399	0.58	SW
359 p	70	680	0	230	556	2.00	Potential recharge basin?
				299	299	0.49	SW
				0	236		Gravelly fabric?
360 p	65	609	0	0	143	1.96	Gravelly fabric? Recharge basin?
				341	341	0.61	SW
361 p	70	759	0	0	228	1.82	Gravelly fabric? Recharge basin?
				571		0.64	SW
362 p	70	721	0	0	244	1.93	Gravelly fabric? Recharge basin?
				535	535	0.34	SW
363 p	75	737	0	0	284	2.03	Gravelly fabric? Recharge basin?
				508	508	0.39	SW

**Summary of Ground Penetrating Radar Data  
Former Sylvania Electric Products Inc Facility**

File No.	Length (ft)	Total Scans	Length/Scan	From Scan	To Scan	Depth (m)	Type/Comments
365 p	70	685	0	0	296	1.90	Gravelly fabric? Recharge basin?
				647	647	0.32	MW
365 p	70	704	0	0	185	1.97	Gravelly fabric? Recharge basin?
				268	268	0.50	MS
				510	704	1.85	Potential structure
366 p	70	671	0	0	213	1.95	Gravelly fabric? Recharge basin?
				477	477	0.49	SS
				400	400	0.66	MW
367 p	70	776	0	0	204	1.92	Gravelly fabric? Recharge basin?
				346	346	0.38	SS
				477	477	0.52	SS
				516	516	1.97	MS
				577	577	0.34	SS
368	No File						
369 p	70	721	0	0	304	1.84	Gravelly fabric? Recharge basin?
				518	518	1.89	LW - potential leach pool
370 p	75	757	0	0	271	1.89	Gravelly fabric? Recharge basin?
				483	483	1.96	LW - potential leach pool
371 p	75	703	0	0	142	1.83	Gravelly fabric? Recharge basin?
				338	338	0.78	SS
372 p	70	669	0	0	205	1.83	Gravelly fabric? Recharge basin?
				307	307	0.51	SW - potential leach pool?
373 p	75	700	0	306	306	0.32	LW - potential leach pool
				478	478	1.14	MW - potential leach pool
				539	539	0.58	SW Recharge basin not evident
374 p	75	679	0	203	203	0.71	SW
				336	336	0.54	MW gravelly-type fabric throughout to 1.96 m
375 p	75	694	0	300	300	0.31	MW - potential leach pool
				175	175	0.70	MW - potential leach pool
				389	389	0.43	SW
				439	439	0.43	SW
				470	470	0.26	SW
376 p	75	643	0	403	403	0.34	SS
				170	170	0.26	MW
377 p	75	704	0	235	235	1.72	SW
				354	354	1.24	SW
				295	295		Double click?
				668	668		Double click?

**Summary of Ground Penetrating Radar Data  
Former Sylvania Electric Products Inc Facility**

File No.	Length (ft)	Total Scans	Length/Scan	From Scan	To Scan	Depth (m)	Type/Comments
375 p	75	719	0	131	131	1.37	Double click - LW
				500	500	1.78	Double click - LW
				186	186	0.26	MW
				53	53	0.41	MW
379 p	70	818	0	126	126	0.45	Double click - LW - pipe?
				312	312	0.54	Double click - MW - pipe?
				532	532		Manhole
				97	97	0.28	MW
				233	233	0.24	MW
380 p	80	806	0	140	140	0.54	MW
				176	176	0.65	LW
				244	244	0.28	SW
				408	408	0.43	MW
				763	763	0.56	MW
381 p	80	773	0	137?	137?	1.73?	LW - double click?
				230	230	0.45	LW
				317	317		Double click - manhole?
				277	277	0.54	SW
				362	362	0.48	SW
382 p	70	640	0	164	164	1.08	SW - double click - pipe?
				268	268	1.05	SS
				347	347	0.80	LW - double click
				526	526	1.90	LW - double click
383 p	70	562	0	114	114	0.66	LW
				294	294	1.71	LW - double click - pipe?
				459	459		Manhole - double click
				263	263	0.54	SW
384 p	70	729	0	115	115	0.39	LW - double click
				241	241	0.43	MW - potential dry well
				355	355	0.55	SS - double click
				569	569	0.67	
385 p	75	836	0	171	171	0.36	SW - double click
				409	409	0.46	LS - double click
				780	780		Manhole - double click
				269	755	2.00	Signal diminished below 2 m
386 p	75	731	0	99	99	0.48	SW - double click
				329	329	0.38	LW - double click
				680	680		Manhole - double click
				466	466	0.39	
387 p	80	1235	0	888	888	1.51	LW - double click
				762	1179	1.58	Signal diminished below 1.58 m
				1211	1211		Manhole? - double click

**Summary of Ground Penetrating Radar Data  
Former Sylvania Electric Products Inc Facility**

File No.	Length (ft)	Total Scans	Length/Scan	From Scan	To Scan	Depth (m)	Type/Comments
387 p	75	658	0	149	149	0.22	Double click - manhole?
				640	640		Double click - manhole?
				237	556	1.76	Signal diminished below 1.76 m
				74	74	0.58	SW
				235	235	0.39	MW
389 p	75	685	0				
390 p	80	712	0	124	124	0.52	SW
				159	159	0.71	SW
				218	218	0.39	SW
391 p	80	704	0	458	458	0.76	MW
392 p	80	690	0	451	451		Manhole? double click
393 p	80	824	0	288	288	1.05	SW
				515	515		Pipe or manhole - double click
				601	601	0.43	SW
394 p	80	702	0				
395 p	80	676	0	194	194	1.64	SW
				227	227	0.62	SW
				519	519	1.30	SW
				555	555	0.62	SW
				494	494	0.67	SW
396 p	85	793	0	255	255	0.42	SW
				596	596	1.26	MW
397 p	80	682	0	445	445	0.41	SW
398 p	85	716	0	102	102	0.85	SW
				484	484	0.48	SW
				559	559	0.52	SW
399 p	85	652	0	318	318	0.39	SW
				502	502	1.86	MW
				586	586	1.06	SW
400 p	85	667	0	302	302	0.67	SW
				333?	333?	5.65?	SW?
				592	592	0.39	SW
401 p	85	810	0	599	599	0.48	SW
402 p	80	680	0	263	263	0.93	SW
				642	642		Manhole? double click parking header?
				486	486	0.84	SW

**Summary of Ground Penetrating Radar Data  
Former Sylvania Electric Products Inc Facility**

File No.	Length (ft)	Total Scans	Length/Scan	From Scan	To Scan	Depth (m)	Type/Comments
/ \	80	726	0	171	171	0.65	SW
				634	634		Parking header
404 p	85	725	0	172	172	0.67	SW
				37	37	0.63	SW
				74	74	0.80	SW
				400	400	0.67	SW
405 p	80	792	0	120	120	0.41	SS
				276	276	0.43	SW
				318	318	0.39	SW
406 p	85	778	0	521	521	0.53	SW
				604	604	0.48	SW
				646	646	0.49	SW
407 p	85	1138	0	927	927	1.65	MW
408 p	85	728	0	79	79	1.10	SW
				355	355	0.58	SW
409 p	85	703	0	479	479	0.96	SW
				514	514	0.96	SW
				212	212	0.50	MW
				147	147	0.50	MW
410 p	80	705	0	471	471	0.35	SW
				0	705	0.80	1.54 Apparent fill thickness
				76	76	0.87	
411 p	80	712	0	271	271	0.88	SW
				0	712	0.75	1.48 Apparent fill thickness
412 p	85	700	0	157	157	0.82	LW - potential dry well
				0	700	0.70	1.55 Apparent fill thickness
413 p	85	708	0	138	138		Manhole - double click
				187	187	1.88	SW
				231	231	2.03	SW
				572	572	1.32	Fill thickness
				460	460	0.48	SW
				564	564	0.61	SW
414 p	90	747	0	191	191	1.33	MW
				287	747	0.81	1.55 Apparent fill thickness
				89	89	0.37	MW
				208	208	0.41	SW
				627	627	0.45	SW

**Summary of Ground Penetrating Radar Data  
Former Sylvania Electric Products Inc Facility**

File No.	Length (ft)	Total Scans	Length/Scan	From Scan	To Scan	Depth (m)	Type/Comments
4	85	685	0	817	817	1.20	MW
				258	258	1.78	SS
				0	685	0.71	1.59 Apparent fill thickness
				315	315	0.82	SW
				460	460	0.50	SW
416 p	90	698	0	153	153	1.71	MW - double click
				237	698	0.67	1.54 Apparent fill thickness
				391	391	1.48	MW
				164	164	0.71	MW
				326	326	0.71	MW
417 p	85	667	0	255	255	0.44	SW
				554	554	0.63	SS
				425	425	0.69	SW
418 p	90	712	0	180	180	0.94	MW - double click
				372	372	0.70	SW
				260	712	0.67	1.58 Apparent fill thickness
				53	53	0.63	MW
				624	624	1.08	SW
419 p	90	674	0	125	125	0.81	SW - double click
				92	92	0.32	SW
420 p	90	668	0	109	109	2.15	MW - double click
				197	197	0.37	SW
421 p	90	678	0	203	203	0.51	LW
				321	321	5.28	MW
				110	110	0.78	SW
				156	156	0.37	SW
				244	244	0.48	SW
				393	393	0.65	SW
				458	458	0.50	SW
				547	547	1.69	SW
422 p	95	697	0	222	222	0.84	SW
				383	383	0.47	SW
				567	567	1.60	SW
423 p	95	727	0	65	65	0.46	SW
				165	165	0.41	MW - double click
				206	206	2.07	MW
				616	616	0.53	SW
424 p	95	745	0	41	41	0.48	MW
				111	111	1.72	MS - double click
				544	544	1.96	MW

**Summary of Ground Penetrating Radar Data  
Former Sylvania Electric Products Inc Facility**

File No.	Length (ft)	Total Scans	Length/Scan	From Scan	To Scan	Depth (m)	Type/Comments
426 p	95	802	0	680	680	1.82	MW
				254	254	1.69	SS
				757	757	0.69	MW
				459	459	0.91	SW
426 p	95	763	0	105	105	1.05	SW
				148	148	2.10	SW
				567	567	1.30	SW
427 p	100	770	0	320	320	3.03	MW
				604	604	1.86	MW
				282	282	0.45	SW
				346	346	0.63	SW
				568	568	0.45	SW
				101	101	0.78	SW
428 p	90	697	0	580	580	1.97	SW (UST?)
				612	612	2.13	SW (UST?)
				42	42	0.78	SW
				284	284	0.65	SW
				401	401	2.23	SW
				637	637	2.10	SW (UST?)
429 p	100	798	0	368	368	2.33	SW
430 p	95	754	0	234	234	0.39	MW
				194	194	0.78	MW
				544	544	1.71	MW
				667	667	0.63	SW
				612	612	0.87	MW
431 p	100	751	0	42	42	0.35	SS
				280	280	0.80	SW
				363	363	0.50	M/SW
				582	582	0.54	SW
432 p	100	681	0	376	376	2.28	SS
				562	562	1.79	MS
				589	589	0.27	SW
				209	681	0.39	1.27 Fill thickness
433 p	90	687	0	398	398	1.97	SW
				569	569	0.56	SW
				86	86	1.02	MW
434 p		3057	0	554	554	0.44	SW
				2247	2247	0.24	SW
				2487	2487	0.58	SW
				2545	2545	0.75	SW
				2622	2622	0.48	SW

**Summary of Ground Penetrating Radar Data  
Former Sylvania Electric Products Inc Facility**

File No.	Length (ft)	Total Scans	Length/Scan	From Scan	To Scan	Depth (m)	Type/Comments
4 <sup>r</sup>		2543	0	90	90	0.35	SW
				206	206	0.42	SW
				382	382	0.39	SW
				631	631	0.81	SW
				1250	1250	0.45	SW
436 p		2757	0	186	186	2.68	MW
				845	845	1.52	MS double click - MDI
437 p	60	570	0	332	332	1.73	MW - Air Techniques
438 p		520	0				
439 p		493	0				
440 p		480	0				
441 p	60	514	0	223	223	1.45	MS
				31	31	1.04	SW
				100	100	1.60	MW
442 p	95	886	0	599	599	0.31	SW
				626	626	0.45	SW
				570	570	3.19	LS
				748	748	0.52	SW
443 p		869	0				
444 p		515	0				
445 p	60	517	0	152	152	0.98	MW
446 p	60	515	0	106	106	0.80	MW
				170	170	0.90	MW
				288	288	0.57	S-MS
				235	235	1.73	SS
				301	301	1.32	MS
447 p	60	540	0	100	100	1.73	SW
448 p	55	527	0	307	467		
449 p	60	555	0	343	469		
450 p	65	512	0	206	206	0.58	SW - double click - pipe?
				247	247	1.80	SW - double click - pipe?
				339	339	1.71	MW
4 <sup>s</sup>	60	548	0	225	225	0.56	SW
				318	318	0.65	SW
				345	345	1.80	MW
452 p	60	531	0				

**Summary of Ground Penetrating Radar Data  
Former Sylvania Electric Products Inc Facility**

File No.	Length (ft)	Total Scans	Length/Scan	From Scan	To Scan	Depth (m)	Type/Comments
		541	0				
454 p		528	0				
455 p	60	540	0				
456 p	55	491	0	101	101	0.49	LW
				333	333	1.80	MW
				371	491		Flat ringing (signal loss) > 2.35 m
457 p	60	448	0	85	253	2.25	2.60 Strong reflector
				324	448		Flat ringing (signal loss X 2.35 m)
				256	256	0.58	Recharge basin? Dark bottom from 2.13 - 2.35 m. SW
458 p	60	481	0	249	323	0.89	2.32 XF
				346	481		Flat ringing (signal loss X 2.32 m)
							Recharge Basin? Dark bottom from 2.13 - 2.32 m. SW
459 p	60	416	0	278	278		Velocity change - X & F
				286	416		Signal loss > 2.32 m with dark bottom below 2.13 - 2.32 m
				163	163	1.13	MW
460 p	60	477	0	131	131	0.72	SW
				327	477		Signal loss > 2.32 m with dark bottom below 2.13 - 2.32 m
				168	168	0.72	MW
461 p	60	493	0	223	223	0.82	SW - pipe? - double click
				309	309	0.52	SW - pipe? - double click
				352	493		Signal loss > 2.31 m with dark bottom below 2.13 - 2.31 m
462 p	60	489	0	180	180	0.46	SW
				336	489		Signal loss > 2.31 m with dark bottom below 2.10 - 2.31 m
				138	138	0.53	SW
				239	239	0.48	SW
463 p	60	463	0	239	239	0.55	SW
				339	339	0.66	SW
				166	166		
464 p	60	485	0	294	294	1.29	XF?
4F	60	507	0	201	201	0.88	LW
				299	507		Signal loss > 2.28 m with dark bottom below 2.10 - 2.28 m

**Summary of Ground Penetrating Radar Data  
Former Sylvania Electric Products Inc Facility**

File No.	Length (ft)	Total Scans	Length/Scan	From Scan	To Scan	Depth (m)	Type/Comments
465 p	80	427	0	220	427		Signal loss > 2.31 m with dark bottom below 2.03 - 2.31 m
467 p	55	434	0	255	434		Signal loss > 2.28 m with dark bottom below 2.06 - 2.28 m
				116	116	0.33	MW
				225	225	0.31	SW
468 p	60	475	0	154	154	0.46	SW (pipe?)
				283	475		Signal loss > 2.32 m with dark bottom below 2.04 - 2.32
469 p	60	510	0	168	168		Pipe or manhole - double click
				365	510		Signal loss > 2.26 m with dark bottom below 2.07 - 2.26 m
				135	135	1.21	SW
470 p	60	454	0	334	454		Signal loss > 2.26 m with dark bottom below 2.06 - 2.26 m
				109	109	0.47	Potential XF from above SW
471 p	60	468	0				
	60	486	0	50	50	1.44	SW
				98	98	1.52	SW
				141	141	1.24	SW
473 p	60	454	0				
474 p	60	402	0	297	297	0.38	SW
475 p	60	503	0	169	169	1.50	SW
				321	321	1.48	SW
476 p	60	398	0				
477 p	60	431	0				
478 p	60	477	0				
479 p	60	468	0				
480 p	60	479	0	205	205	1.06	XF
481 p	60	445	0				
482 p	60	496	0	345	345	1.30	SW
483 p	60	470	0	225	383	0.84	1.52 Fill thickness?
				396	396	2.06	XF structure?

**Summary of Ground Penetrating Radar Data  
Former Sylvania Electric Products Inc Facility**

<b>File No.</b>	<b>Length (ft)</b>	<b>Total Scans</b>	<b>Length/Scan</b>	<b>From Scan</b>	<b>To Scan</b>	<b>Depth (m)</b>	<b>Type/Comments</b>
4	60	494	0	82	82	0.35	SW - double click
				219	219	0.43	SW - double click
485 p	60	463	0	65	65	0.21	SW - double click
				327	327	4.85	LW
				284	284	0.50	MW
486 p	60	500	0	414	414	1.24	SW
487 p	60	588	0	287	287	0.98	SW
				459	459	0.82	SW
488 p	60	526	0	461	461	3.66	LS
489 p	60	444	0				
490 p	60	537	0	371	371	1.75	SW
				453	453	1.73	MW
491 p	60	456	0	382	382	1.62	MW
492 p	60	451	0	112	112	1.08	SW-S
				133	133	1.19	MS leach pool?
				236	236	0.87	MW
				186	186	1.59	SS
493 p	60	447	0				
494 p	60	416	0				
495 p	60	427	0	304	304	1.31	SW
496 p	60	428	0	173	173	0.39	SW
				157	157	1.54	SW
				258	258	4.60	MW
				358	358	1.34	MW
497 p	60	427	0	61	61	1.50	SW
498 p	60	414	0	233	233	0.35	SS
499 p	60	428	0				
500 p	60	435	0	185	185	1.05	MW
				233	233	1.39	MW
				294	294	1.44	MW
50	60	443	0				
502 p	60	454	0				

**Summary of Ground Penetrating Radar Data  
Former Sylvania Electric Products Inc Facility**

File No.	Length (ft)	Total Scans	Length/Scan	From Scan	To Scan	Depth (m)	Type/Comments
F	60	441	0	271	271	0.73	SW
				398	398	1.40	SW
				229	229	1.19	SW
504 p	60	437	0				
505 p	60	440	0				
506 p	60	455	0				
507 p	60	440	0				
508 p	60	430	0				
509 p	60	436	0				
510		No data					
511		No data					
512 p	60	475	0	83	83		Manhole - double click
513 p	60	442	0	328	328	2.81	SS
E	60	445	0	70	70	0.92	SW
				216	216	0.57	SW
515 p	60	447	0				
516 p	60	444	0				
517 p	60	478	0	51	51	2.78	Pipe? - double click
				155	155	0.29	SW
				199	199	0.42	SW
518 p	60	454	0	33	33	1.50	MW
				179	179	0.49	SW
				231	231	0.83	SW
				313	313	0.76	SW
519 p	60	445	0	274	274	1.76	SW
520 p	60	441	0	87	87	2.14	SW
				129	129	1.97	SW
521 p	60	460	0				
522	60	454	0	70	70	1.20	SW
523 p	60	478	0	66	66	0.63	Pipe? - double click
				245	245	0.55	MW

**Summary of Ground Penetrating Radar Data  
Former Sylvania Electric Products Inc Facility**

File No.	Length (ft)	Total Scans	Length/Scan	From Scan	To Scan	Depth (m)	Type/Comments
525 p	60	443	0	69	69	0.48	SW
				134	134	0.56	MW
				372	372	0.48	SW
525 p	60	471	0	354	354	0.49	SS
526 p	65	584	0	270	270	1.40	SW
				345	345	0.99	MS
				495	495	0.45	SW
527 p	435	3537	0	829	1220	1.77	XF to 1.77 m with flat ringing (signal loss) below
				1336	1336	3.57	Large weak
				2043	2560	1.91	XF to 1.91 m with flat ringing below (signal loss)
				3150	3150	0.61	SW
				3504	3504	0.68	SS
528 p	440	3762	0	684	684		Manhole? - double click
				2239	2239	0.39	SW
				3400	3400	2.68	MS
529 p	260	2563	0	1400	1400	0.43	SS
				1987	1987	4.23	LW
				2191	2191	4.47	LW
				2359	2359	0.23	SW
530 p	260	2127	0	128	128	0.68	SW
				170	170	0.39	SW - pipe? manhole? double click
				339	339	0.39	SW
				529	529	0.65	SW
				817	817	0.70	SW
				1165	1165	4.62	LS
531 p	260	2022	0	767	767	0.67	Pipe - double click
				928	928	0.67	SW
				1236	2022		Many small to medium type reflectors
532 p	250	2083	0	608	608	0.60	SW
				765	765		Manhole
				935	935	0.92	MW
				1525	1525	0.75	Pipe? double click
533 p	270	2083	0	611	611	0.73	SW
				772	772		Manhole - double click
				937	937	0.94	MW
				1842	1842	1.18	SW - double click

**Summary of Ground Penetrating Radar Data  
Former Sylvania Electric Products Inc Facility**

File No.	Length (ft)	Total Scans	Length/Scan	From Scan	To Scan	Depth (m)	Type/Comments
535 p	150	1252	0	54	54	0.48	SW
				711	711	1.36	LS
				779	779	0.67	MS
				363	1252	2.39	Signal loss below 2.39 m recharge basin? Dark bottom 2.13 - 2.39 m
536 p	120	900	0	117	117	0.52	SW
536 p	120	900	0	165	165	0.50	SW
				137	900		Flat ringing bottom
				537 p	120	887	0
537 p	120	887	0	83	83	0.48	SW
				158	158	0.38	SW
				272	272	0.59	SW
				577	577	1.73	SW
538	No file data						
539 p	110	788	0	99	99	0.51	SW
				204	204	0.44	SW
				449	449	0.52	SW
540 p	100	760	0	123	123	0.49	SW
				185	185	0.38	SW
				247	247	0.36	SW
541 p	150	1140	0	41	41	0.67	SW
				203	203	1.05	SW
				209	1140	2.10	2.29 Signal loss at 2.1 m, dark to 2.29 m Recharge basin?
542 p	150	1121	0	627	712		UST pad?
				699	699	1.20	UST
				235	944		Recharge basin?
543 p	155	1101	0	612	813		UST pad
				666	666	1.19	UST
				730	730	1.03	UST
				782	782	1.08	UST
				200	1101	2.11	2.40 Recharge basin?
544 p	160	1142	0	624	813		UST pad
				208	1142	2.08	2.31 Recharge basin?
545	160	1107	0	825	825	0.91	SS
				1045	1045	0.25	SW-S
				623	800		UST pad
				407	407	0.46	Pipe? Manhole - double click
				137	1107	2.10	2.31 Recharge basin?

**Summary of Ground Penetrating Radar Data  
Former Sylvania Electric Products Inc Facility**

File No.	Length (ft)	Total Scans	Length/Scan	From Scan	To Scan	Depth (m)	Type/Comments
F	160	1249	0	149	149	0.32	SW
				602	799		UST pad
				108	1249	2.10	2.29 Recharge basin
547 p	165	1470	0	103	103	0.45	SW
				369	369	0.38	LS
548 p	160	1336	0	389	389	0.46	LS
				528	528	0.48	SW
				718	1336	2.07	2.36 Recharge basin?
				963	963	3.40	LW
549 p	165	1300	0	477	477	0.89	SW
550 p	165	1248	0	267	267	0.47	SW
				501	501	0.58	SS - double click
				565	565	0.42	SW
551 p	165	1237	0	672	672	0.78	SW
				766	766	0.82	SW
				185	185	0.50	SS
				288	288	0.46	SS
552 n	150	1266	0	158	158	1.12	SW
				508	508	0.39	SW
553 p	115	1065	0	402	402	4.61	LW
				928	928	0.63	MS
554 p	Bad file						
555 p	120	950	0	277	277	0.42	SW
				377	377	4.01	LS
556 p	90	894	0	334	334	0.28	SW
				321	894	2.58	Signal loss below 2.58 m
557 p	125	974	0	206	668	2.54	Signal loss (attenuation) below 2.54 m
				522	522	0.57	MS - potential leach pool?
				875	875	0.46	SW
558 p	130	1035	0	521	521	0.65	SS
				652	652	0.58	SS
				760	760	0.66	SW
				0	680	2.58	Signal attenuation below 2.58 m
559 p	135	978	0	521	521	1.92	SS
				800	800	0.41	SS
				883	883	0.39	SW
				584	584	1.85	SS

**Summary of Ground Penetrating Radar Data  
Former Sylvania Electric Products Inc Facility**

File No.	Length (ft)	Total Scans	Length/Scan	From Scan	To Scan	Depth (m)	Type/Comments
560 p	130	981	0	116	116	0.46	SS
				316	316	0.94	MW
561 p	130	983	0	751	751	0.24	Manhole? pipe? SS
				304	304	1.15	SS
562 p	125	885	0	315	315	0.31	SS
				148	148	0.92	MW
563 p	120	957	0	190	190	0.35	SW
				195	195	1.12	MW
				317	317	0.46	SW
				895	895	0.53	MW
564 p	120	918	0	467	467	0.41	MW
				703	703	4.81	LW
				121	387	0.80	0.31 Fill
				387	918	0.31	Fill
565 p	130	952	0	182	182	1.02	MW
				111	322	0.73	0.38 Fill
566 p	130	931	0	317	317	1.59	SW
				0	641	0.46	Fill
				641	931	0.95	Fill
567 p	125	1039	0	201	201	0.45	SW
				0	881	0.49	Fill
				881	1039	0.92	Fill
568 p	130	971	0	0	213	0.69	0.39 Fill
				213	763	0.39	Fill
				763	971	0.99	Fill
569 p	130	948	0	112	112	0.46	SW
				0	782	0.46	Fill
				782	948	0.92	Fill
				328	328	0.56	SW
570 p	110	983	0	623	623	0.66	SS - pipe?
				0	701	0.49	Fill
				701	983	0.96	Fill
571 p	125	962	0	501	501	0.38	SW
				551	551	0.28	SW
				0	696	0.49	Fill
				696	962	1.19	Fill
572 p	120	987	0	491	491	0.27	SW
				0	741	0.49	Fill
				741	987	1.99	(925) XF?

**Summary of Ground Penetrating Radar Data  
Former Sylvania Electric Products Inc Facility**

File No.	Length (ft)	Total Scans	Length/Scan	From Scan	To Scan	Depth (m)	Type/Comments
573 p	110	1032	0	688	688	1.64	MS
				130	130	0.48	SW
				883	883	0.75	MW
				250	250	0.41	SW
574 p	115	1005	0	264	264		Manhole - double click
				451	451	0.59	MS
				872	872	0.87	MS
575 p	120	952	0	408	408	0.21	MS
576 p	110	906	0	774	774	0.53	SW
				803	803	0.50	SW
577 p	120	890	0	474	474	0.42	SS
				712	712	0.42	SW
578 p	110	902	0	269	269		Manhole - double click
				775	775		Manhole - double click
579 p	120	908	0	735	735	2.04	MW
				272	272	1.41	MW
580 p	120	918	0	322	322	0.74	SW
				684	684	0.42	SW
				810	810	0.64	SW
581 p	100	765	0	138	138	0.52	SW
				176	176	1.47	MS
				670	670		Manhole - double click
				163	360		DV
582 p	90	697	0	542	542	0.36	Pipe? double click
583 p	110	874	0	122	122	1.82	SW
				735	735	1.97	SW
				190	328		DS
584 p	105	775	0	520	520	0.26	SW
				653	653	1.91	MW
				227	456		DS
585 p	110	888	0	364	364	0.34	SW
				817	817		Manhole? double click
				244	501		DS
586 p	110	787	0	455	455	0.99	MW
				523	523	1.03	MW
				585	585	0.91	MW
				697	697	0.73	SW
				402	402	0.45	MW
				229	376		DS

**Summary of Ground Penetrating Radar Data  
Former Sylvania Electric Products Inc Facility**

File No.	Length (ft)	Total Scans	Length/Scan	From Scan	To Scan	Depth (m)	Type/Comments
587 p	100	719	0	116	116	2.51	MW
				524	524	0.84	SW
				635	635	0.73	SW
				179	385		Concentrated small reflectors
588 p	100	736	0	331	331	0.49	SS
				470	470	0.49	SW
589 p	110	816	0	284	284	0.32	Pipe? double click
				380	380	0.30	SS
				499	499	0.29	SW
590 p	105	732	0	147	147	0.56	SW
				310	310	0.43	Pipe? double click
591 p	110	804	0	103	103	0.48	SW
				133	133	0.58	SW
592 p	105	732	0	319	319	0.38	SW - Pipe? double click
				684	684	0.86	MS
593 p	180	1291	0	130	130	0.29	SW
				241	241	0.44	SW
				366	366	0.34	SW
				704	704	1.83	SS
				880	880	0.92	SW
				995	995	1.52	MW
594 p	175	1183	0	437	437	2.67	SW
				627	627	0.45	SS
				724	724	0.24	SS
				1030	1030	0.32	SW
595 p	180	1251	0	473	473	3.02	SS

**Definitions**

MS: Medium depth (1-3M), sharp reflector  
 MW: Medium depth (1-3M), weak reflector  
 MS: Medium depth (1-3M), sharp reflector  
 SW: Shallow depth (<1M), weak reflector  
 SS: Shallow depth (<1M), sharp reflector  
 DV: Deep (>3M), sharp reflector  
 LW: Large size, weak reflector  
 FPTW: Fill (material) pinching to west  
 Quiet (zone): No reflections  
 XF: Cross bedding feature  
 SR: Structural reflector (pipe, etc.)

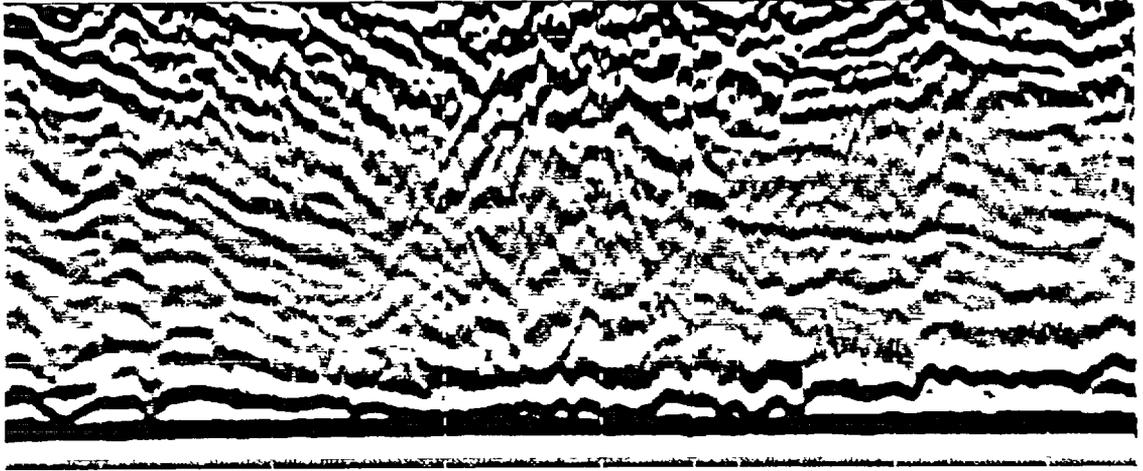


## Appendix B

### GPR profiles

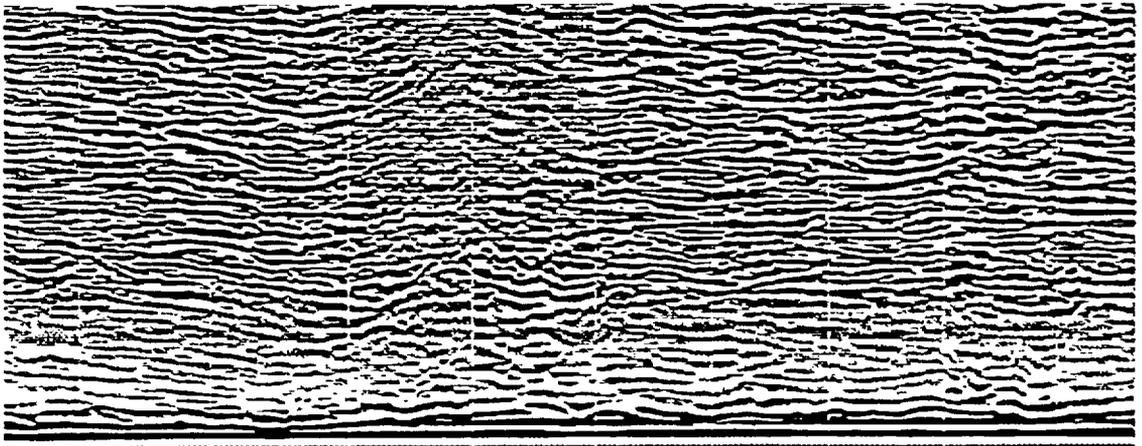
303

3 meters

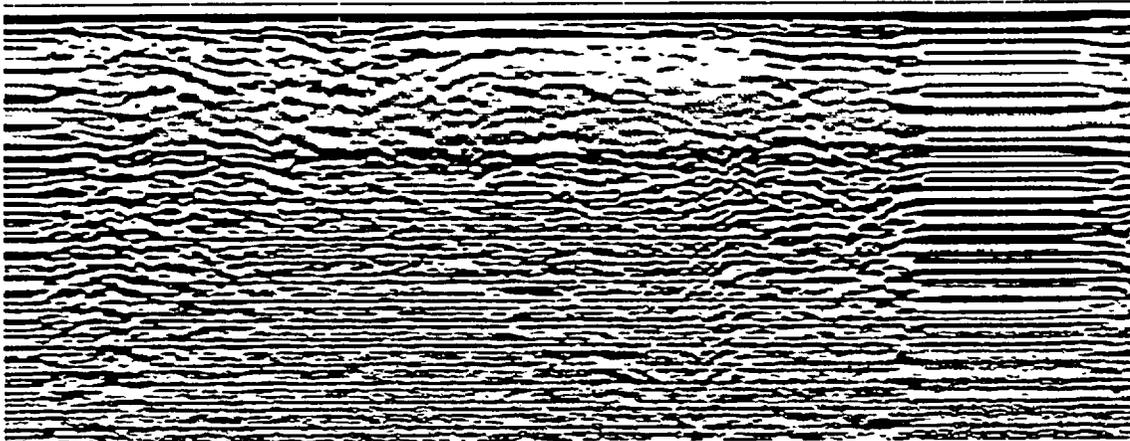


296

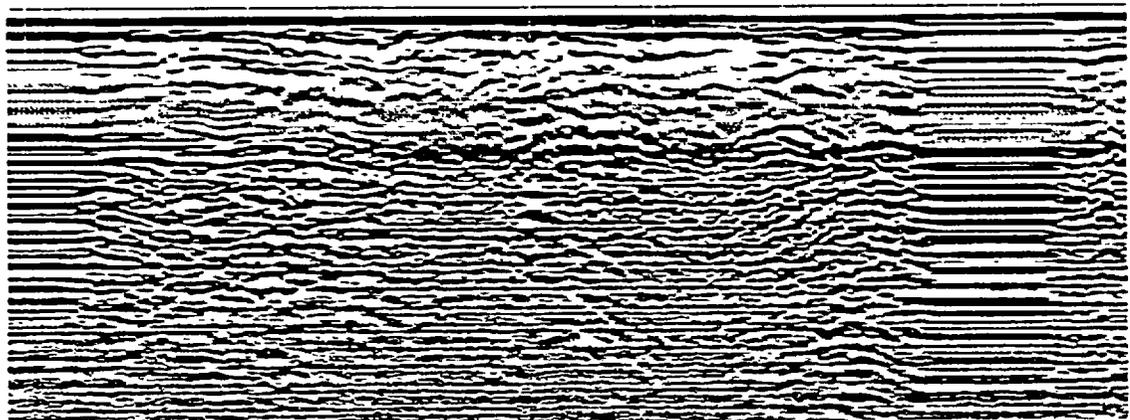
8 meters



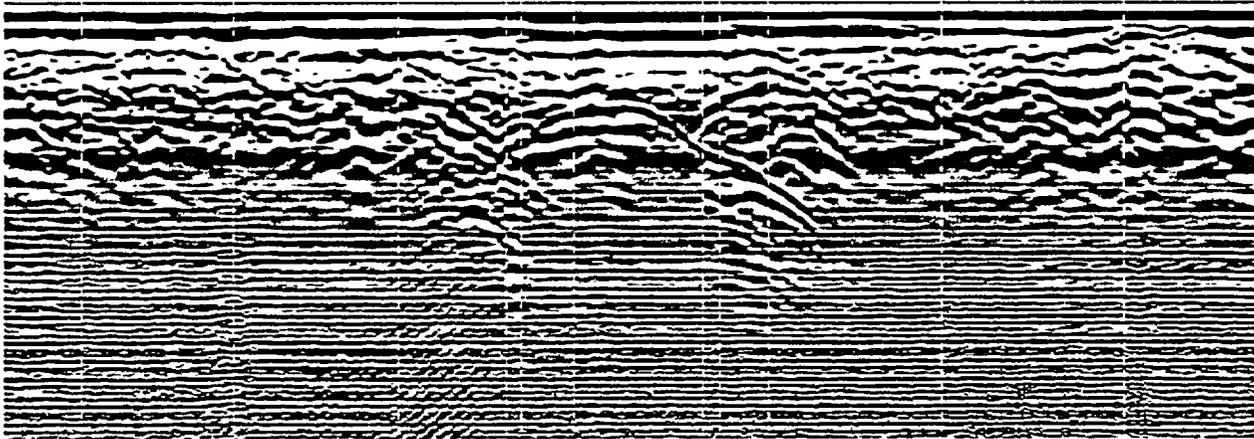
8296-552.wpd



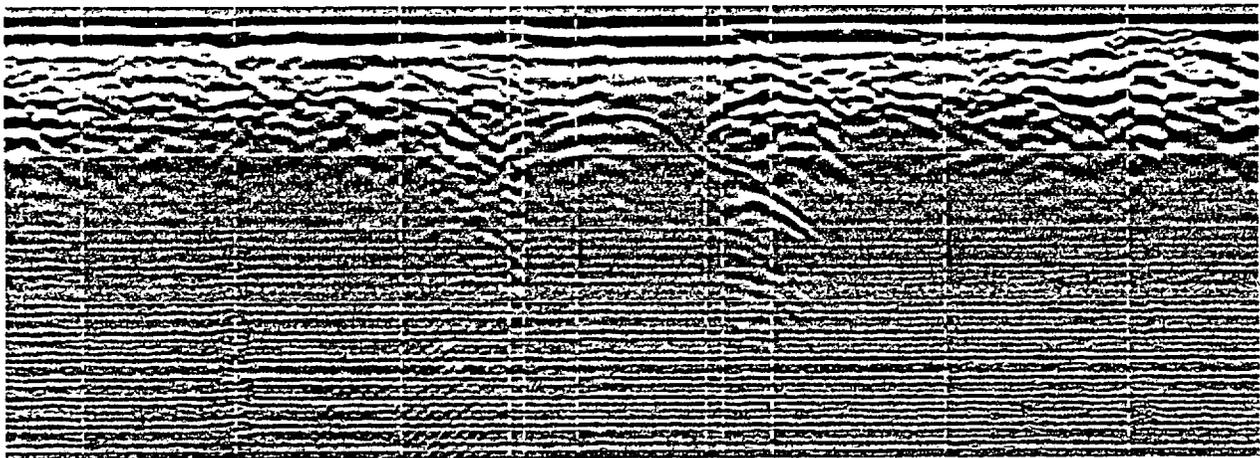
490



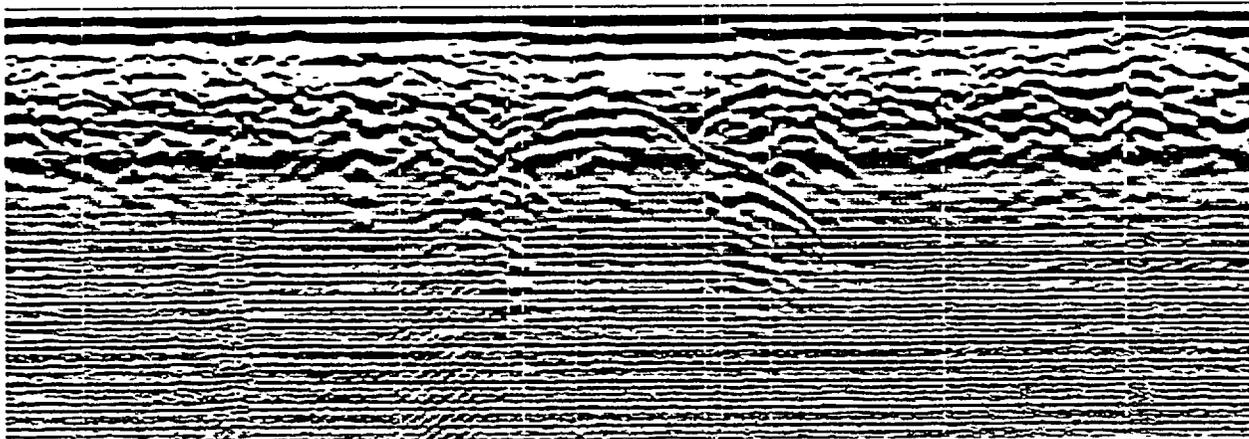
491



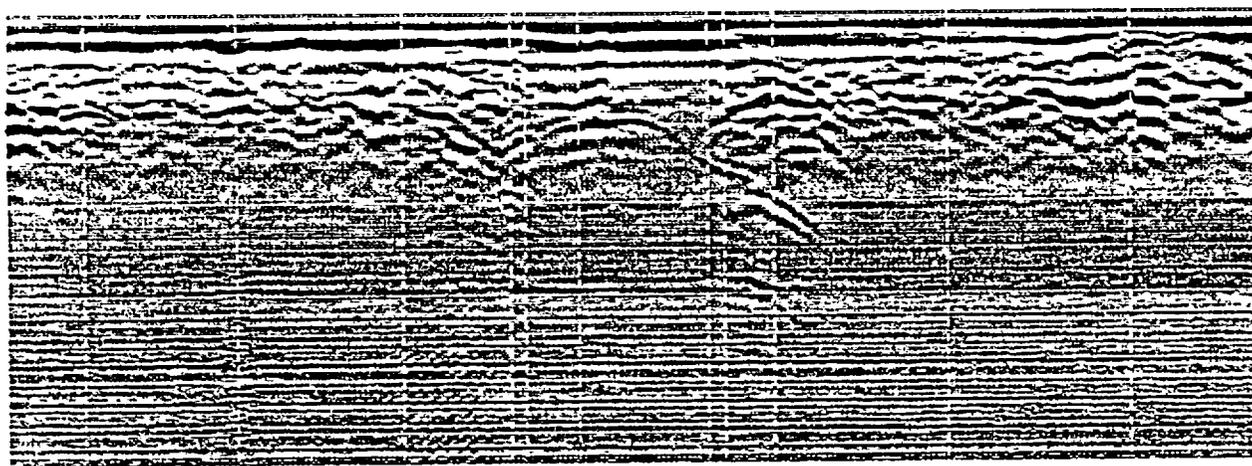
GPR Profile 534. Ground-penetrating radar profile results from profile number 534. Profile shows intersection across two underground storage tanks at the Magazine Distributors Inc. fueling station.



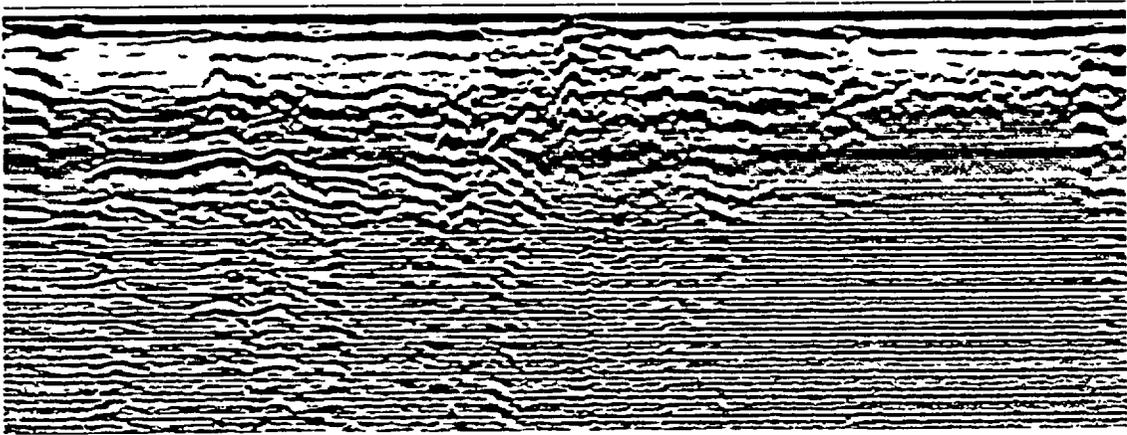
GPR Profile 534. Ground-penetrating radar profile results from profile number 534. Profile shows intersection across two underground storage tanks at the Magazine Distributors Inc. fueling station.



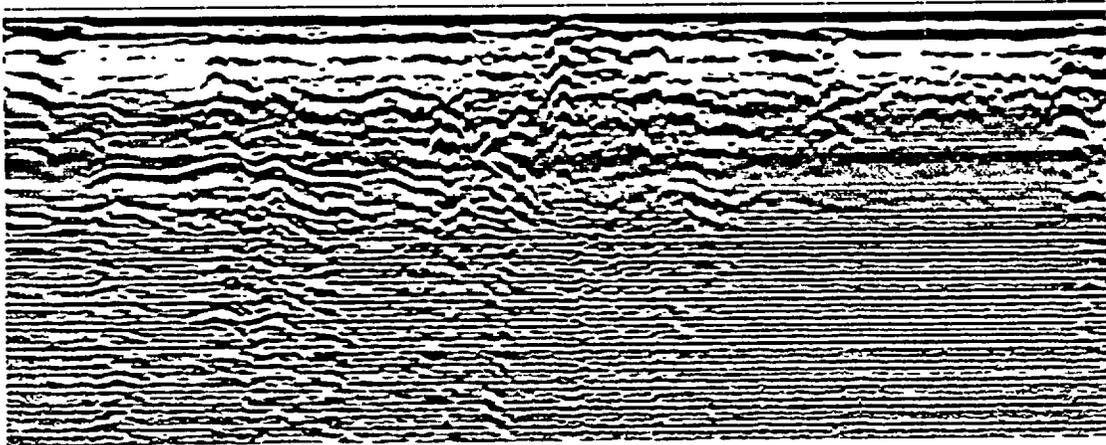
GPR Profile 534. Ground-penetrating radar profile results from profile number 534. Profile shows intersection across two underground storage tanks at the Magazine Distributors Inc. fueling station.



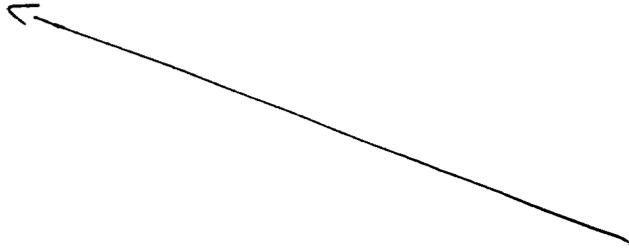
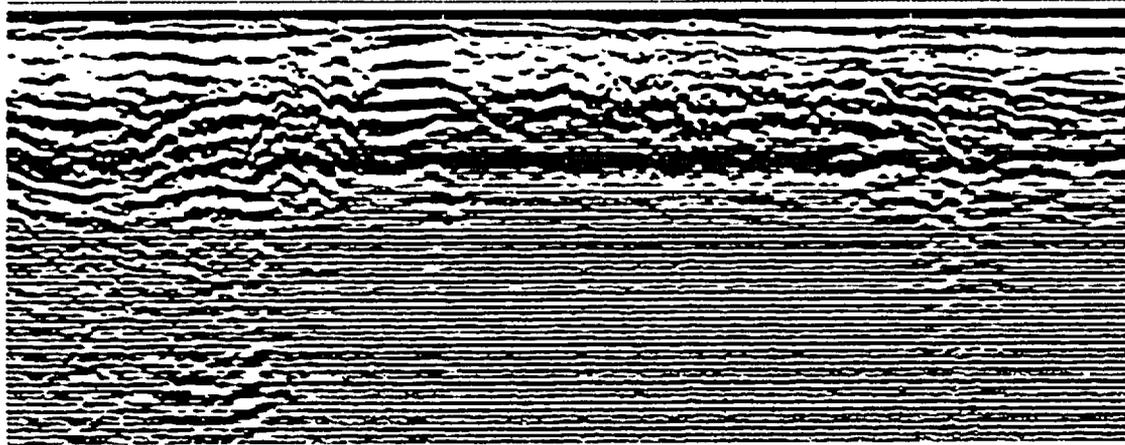
GPR Profile 534. Ground-penetrating radar profile results from profile number 534. Profile shows intersection across two underground storage tanks at the Magazine Distributors Inc. fueling station.



550

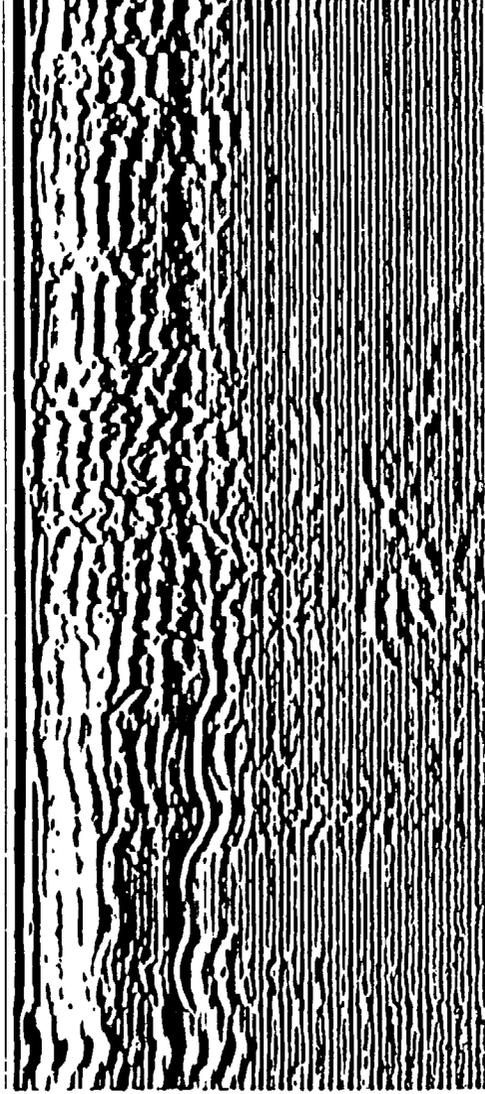


551

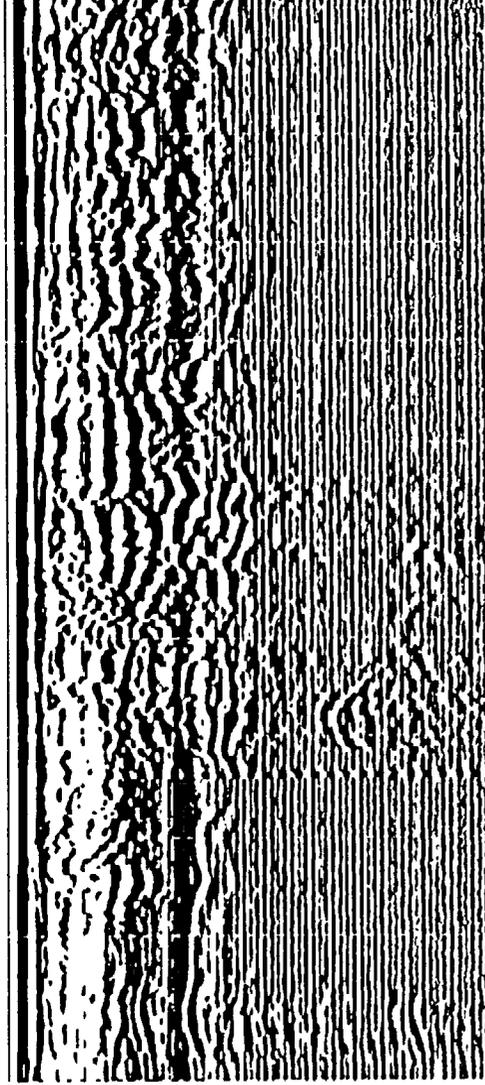


552

b553-555.wpd



553



555



Cantiague Park

SITE



LEGEND

SITE BOUNDARY

FIGURE 2

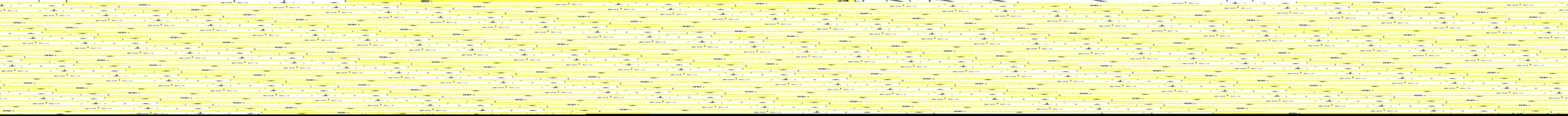
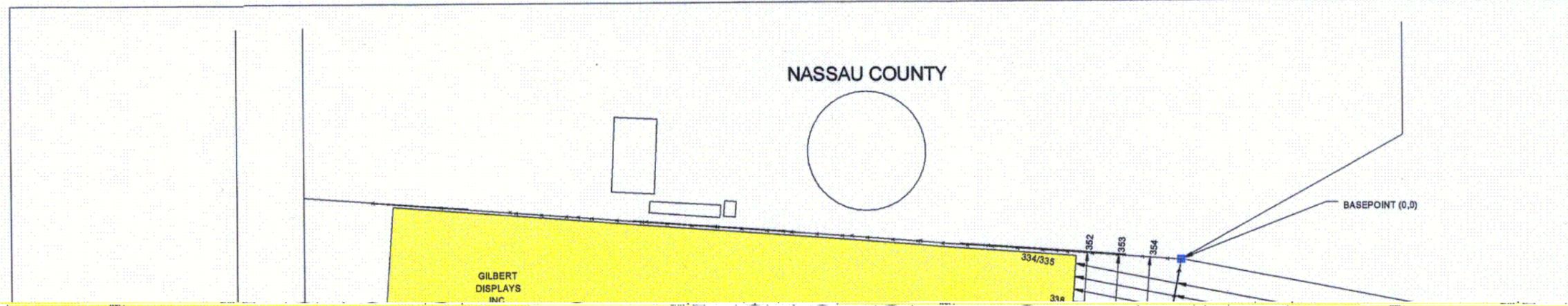
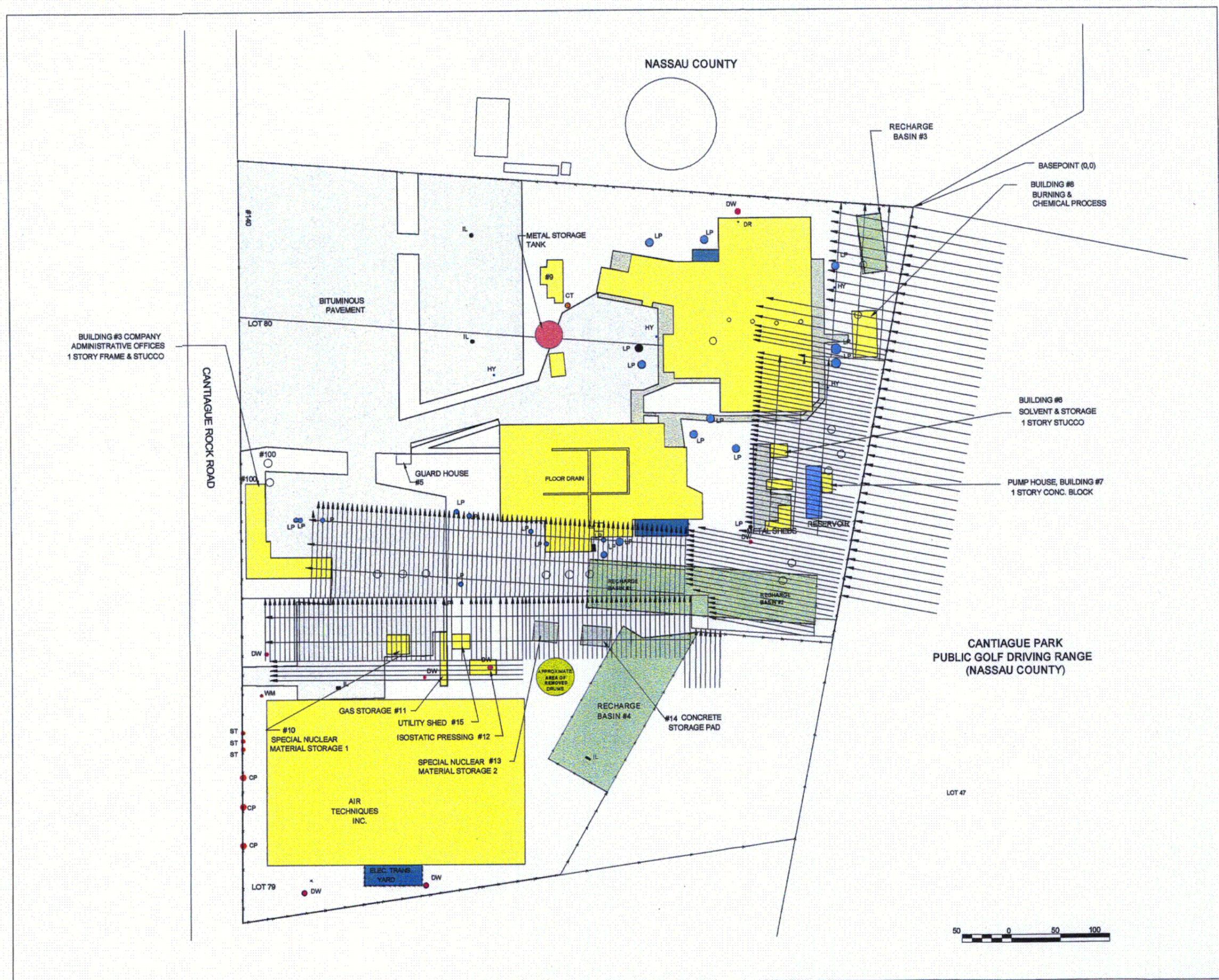


FIGURE 3



LEGEND

<p>— FENCE</p> <p>— SITE BOUNDARY</p> <p>— LOCATION OF GPR PROFILE</p>	
<b>HISTORIC STRUCTURES</b>	<b>HISTORIC SUBSURFACE STRUCTURES</b>
<p>PAVEMENT</p> <p>BUILDINGS</p> <p>CONCRETE</p> <p>RECHARGE BASINS</p> <p>RESERVOIR</p> <p>STORAGE TANK</p> <p>ELECT. TRANS. YARD</p> <p>DRUM STORAGE</p>	<p>LEACHING POOL (LP)</p> <p>DRY WELL (DW)</p> <p>DRAIN (DR)</p> <p>INLET (IL)</p> <p>CISTERN (CT)</p> <p>SEPTIC TANKS (ST)</p> <p>CESSPOOL (CP)</p> <p>WATER METER PIT (WM)</p> <p>HYDRANT (HY)</p>



GTE OPERATIONS SUPPORT, INC.  
FORMERLY  
SYLVANIA ELECTRIC PRODUCTS  
INCORPORATED FACILITY

GROUND-PENETRATING  
RADAR GEOPHYSICAL SURVEY  
LOCATION OF ALL GPR PROFILES  
AND HISTORIC STRUCTURES

C03

FILE NO.5816.009-103.SRF



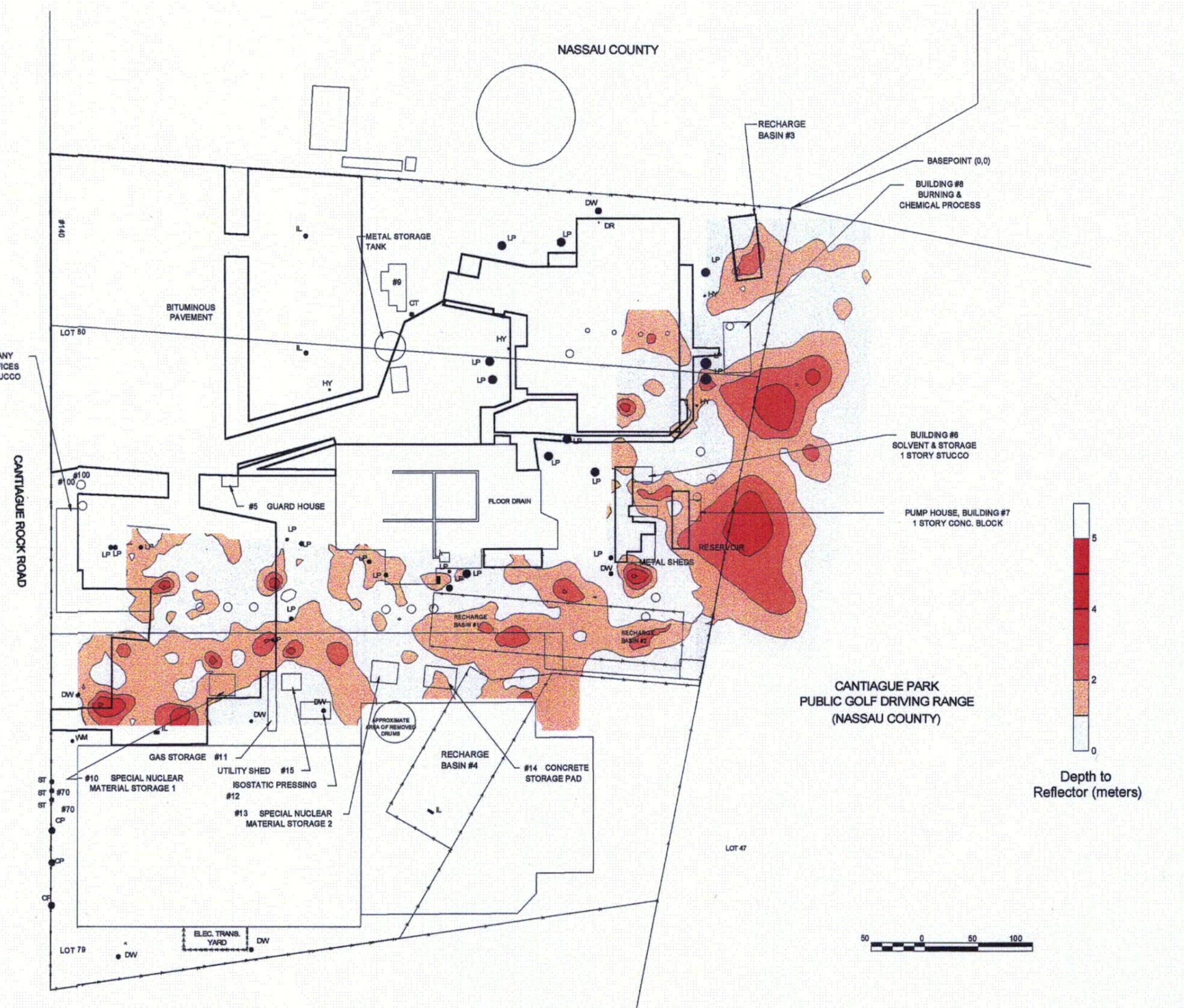
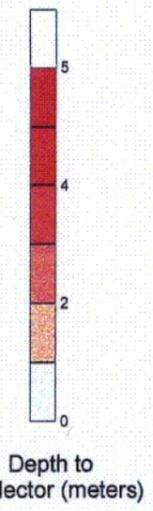
REV DATE:

FIGURE 4



LEGEND

- FENCE
- SITE BOUNDARY



GTE OPERATIONS SUPPORT, INC.  
 FORMERLY  
 SYLVANIA ELECTRIC PRODUCTS  
 INCORPORATED FACILITY

GROUND-PENETRATING  
 RADAR GEOPHYSICAL SURVEY  
 GPR REFLECTORS AT DEPTH  
 ALL GPR DATA

CO4

FILE NO.5816.009-104.SRF

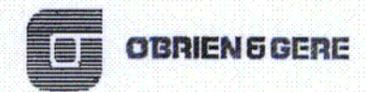
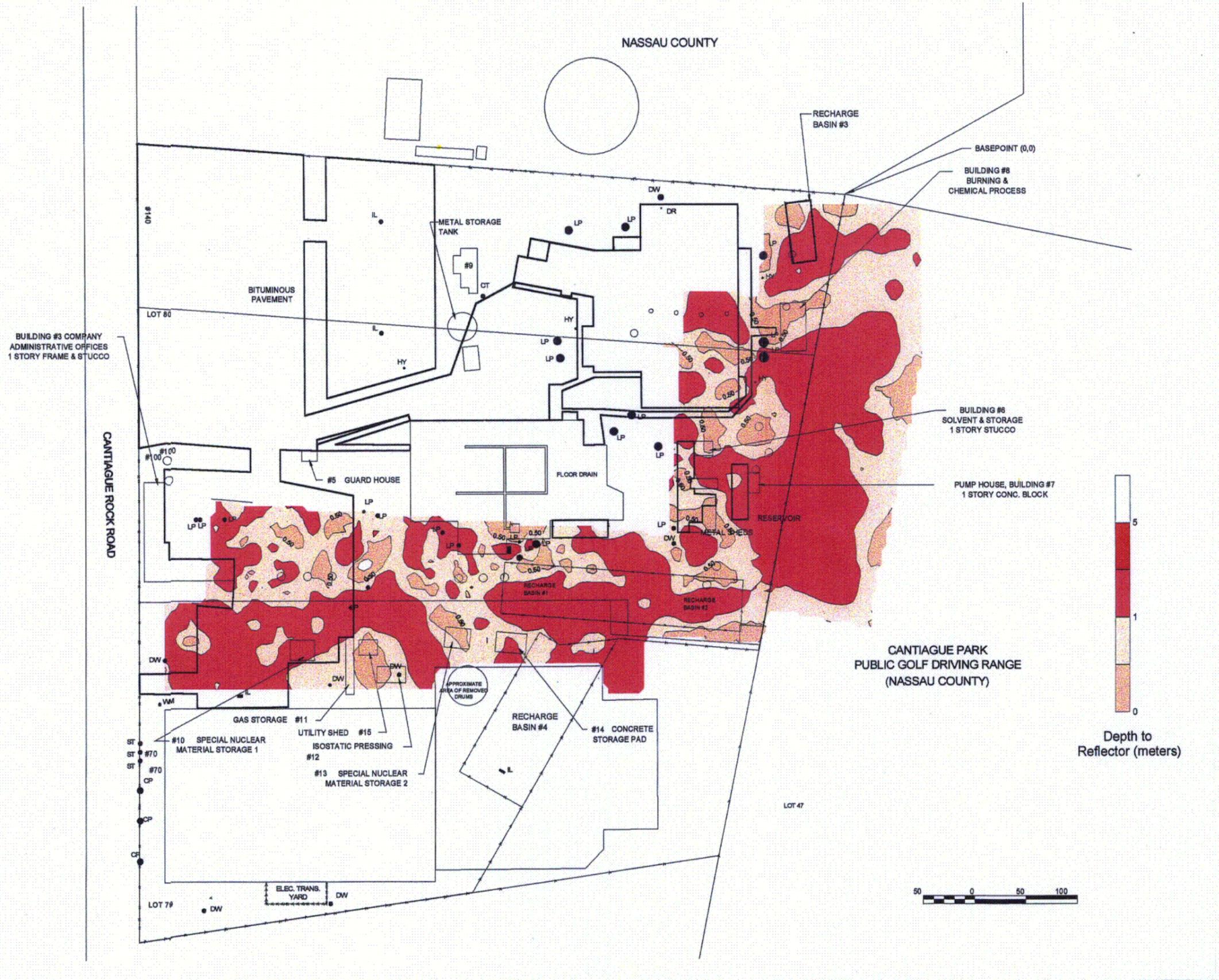


FIGURE 5



**LEGEND**  
 --- FENCE  
 --- SITE BOUNDARY

GTE OPERATIONS SUPPORT, INC.  
 FORMERLY  
 SYLVANIA ELECTRIC PRODUCTS  
 INCORPORATED FACILITY

GROUND-PENETRATING  
 RADAR GEOPHYSICAL SURVEY  
 GPR REFLECTORS AT DEPTH  
 > 0.5 METERS

C05

FILE NO. 5816.009-105.SRF



FIGURE 6



LEGEND

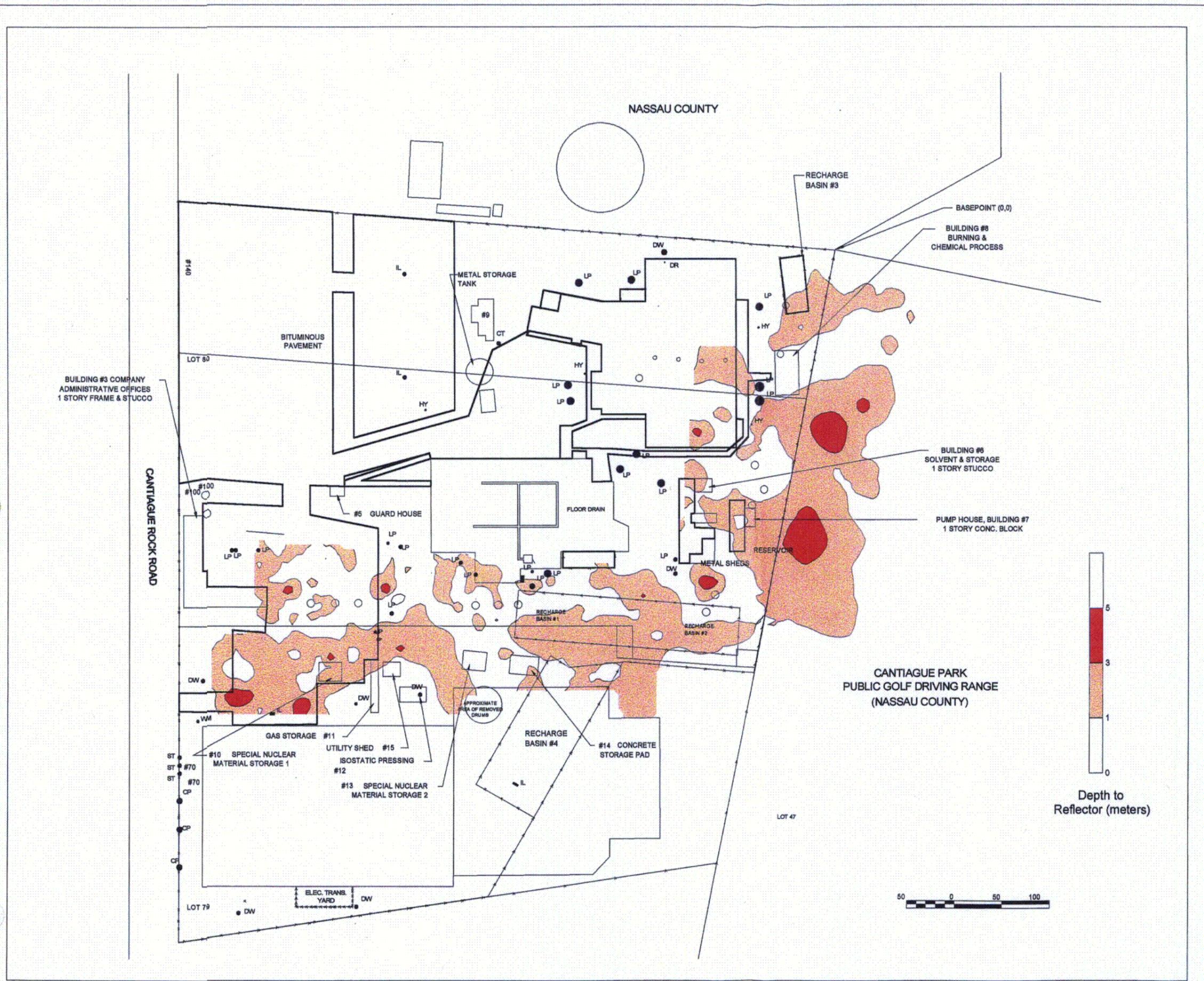
- FENCE
- SITE BOUNDARY

GTE OPERATIONS SUPPORT, INC.  
 FORMERLY  
 SYLVANIA ELECTRIC PRODUCTS  
 INCORPORATED FACILITY

GROUND-PENETRATING  
 RADAR GEOPHYSICAL SURVEY  
 GPR REFLECTORS AT DEPTH  
 > 1.0 METERS

COG

FILE NO. 5816.009-106.SRF



Depth to Reflector (meters)

FIGURE 7



LEGEND

- FENCE
- - - SITE BOUNDARY

GTE OPERATIONS SUPPORT, INC.  
 FORMERLY  
 SYLVANIA ELECTRIC PRODUCTS  
 INCORPORATED FACILITY

GROUND-PENETRATING  
 RADAR GEOPHYSICAL SURVEY  
 GPR REFLECTORS AT DEPTH  
 > 2.0 METERS

07  
 FILE NO.5816.009-107.SRF

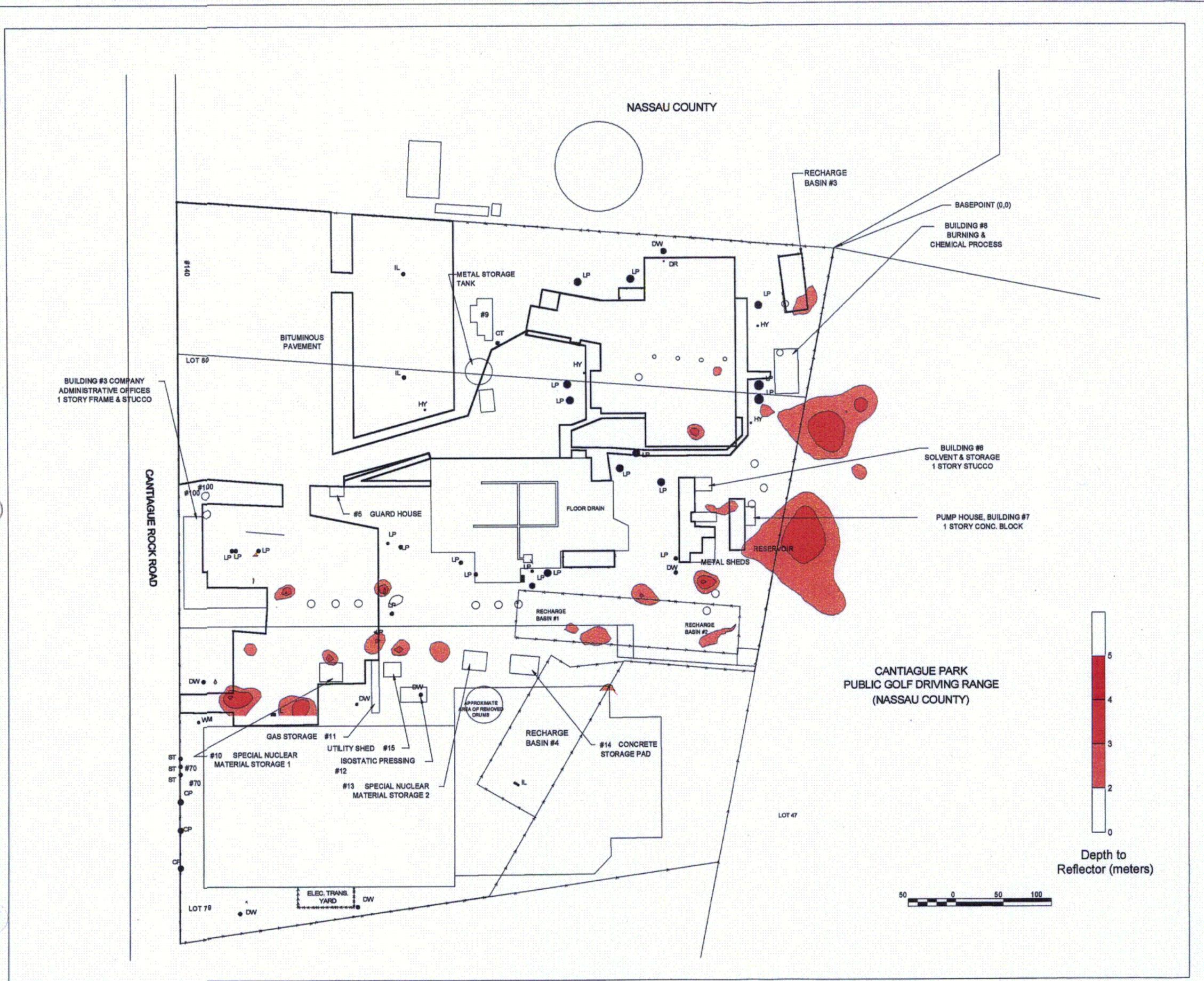
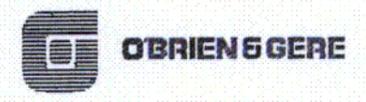


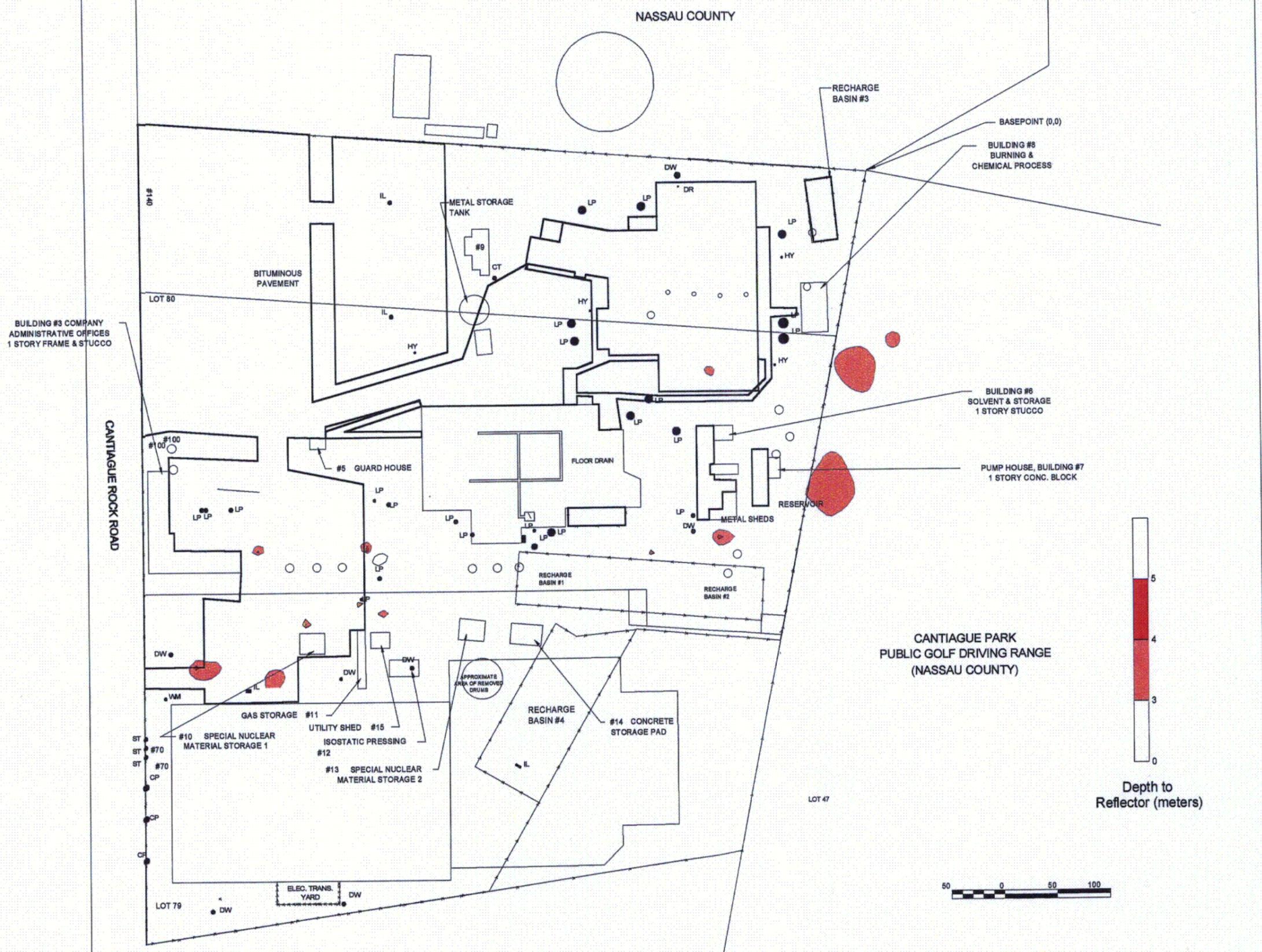
FIGURE 8



**LEGEND**

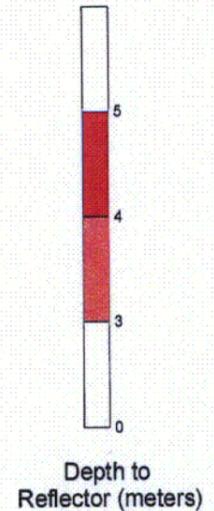
— FENCE

- - - SITE BOUNDARY



GTE OPERATIONS SUPPORT, INC.  
FORMERLY  
SYLVANIA ELECTRIC PRODUCTS  
INCORPORATED FACILITY

GROUND-PENETRATING  
RADAR GEOPHYSICAL SURVEY  
GPR REFLECTORS AT DEPTH  
> 3.0 METERS



C08

FILE NO.5816.009-108.SRF



FIGURE 9

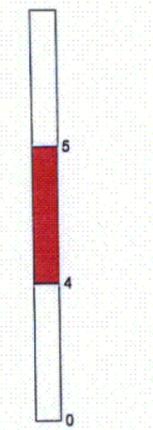


LEGEND

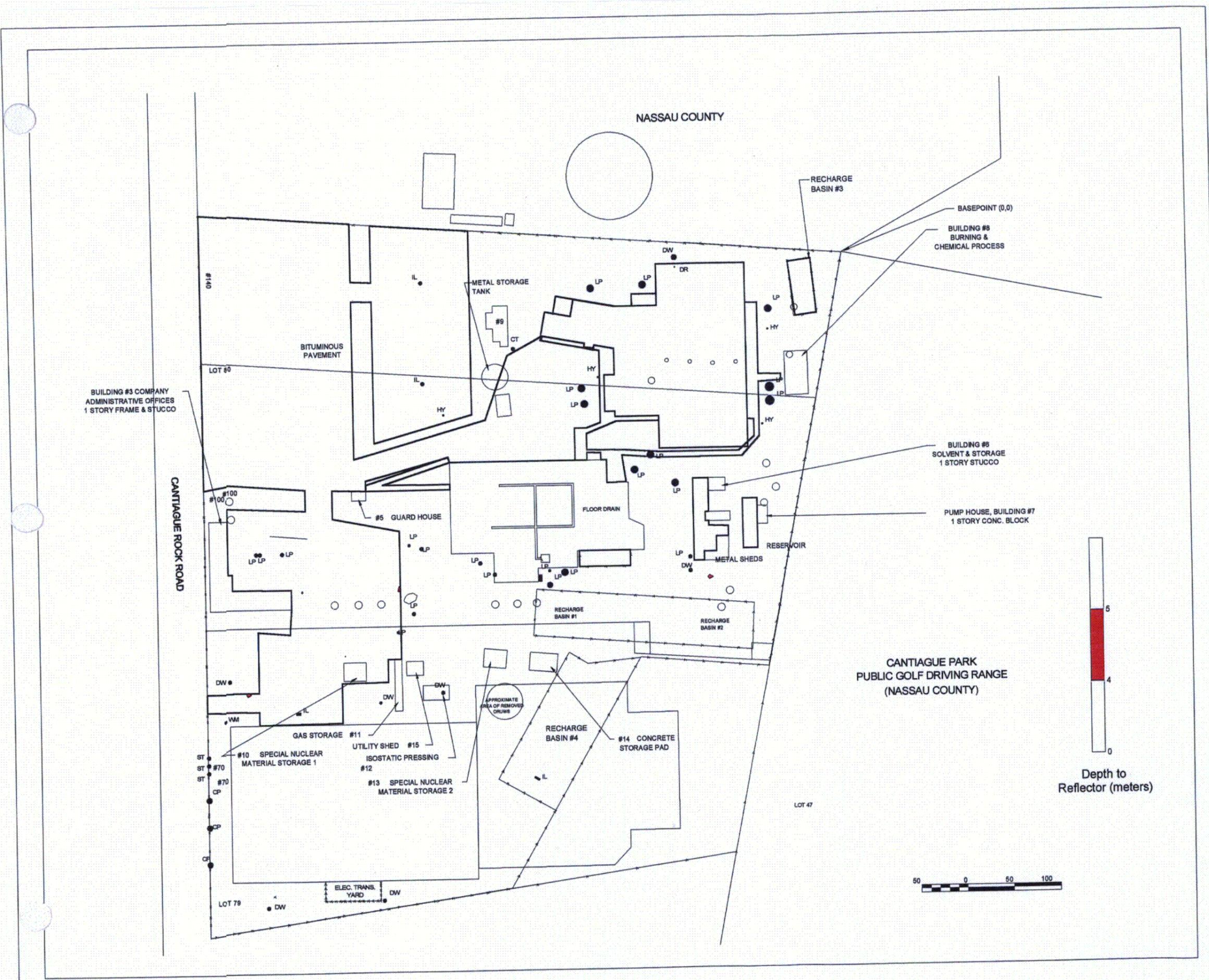
- FENCE
- - - SITE BOUNDARY

GTE OPERATIONS SUPPORT, INC.  
 FORMERLY  
 SYLVANIA ELECTRIC PRODUCTS  
 INCORPORATED FACILITY

GROUND-PENETRATING  
 RADAR GEOPHYSICAL SURVEY  
 GPR REFLECTORS AT DEPTH  
 > 4.0 METERS



Depth to Reflector (meters)



CO9

FILE NO. 5816.009-109.SRF



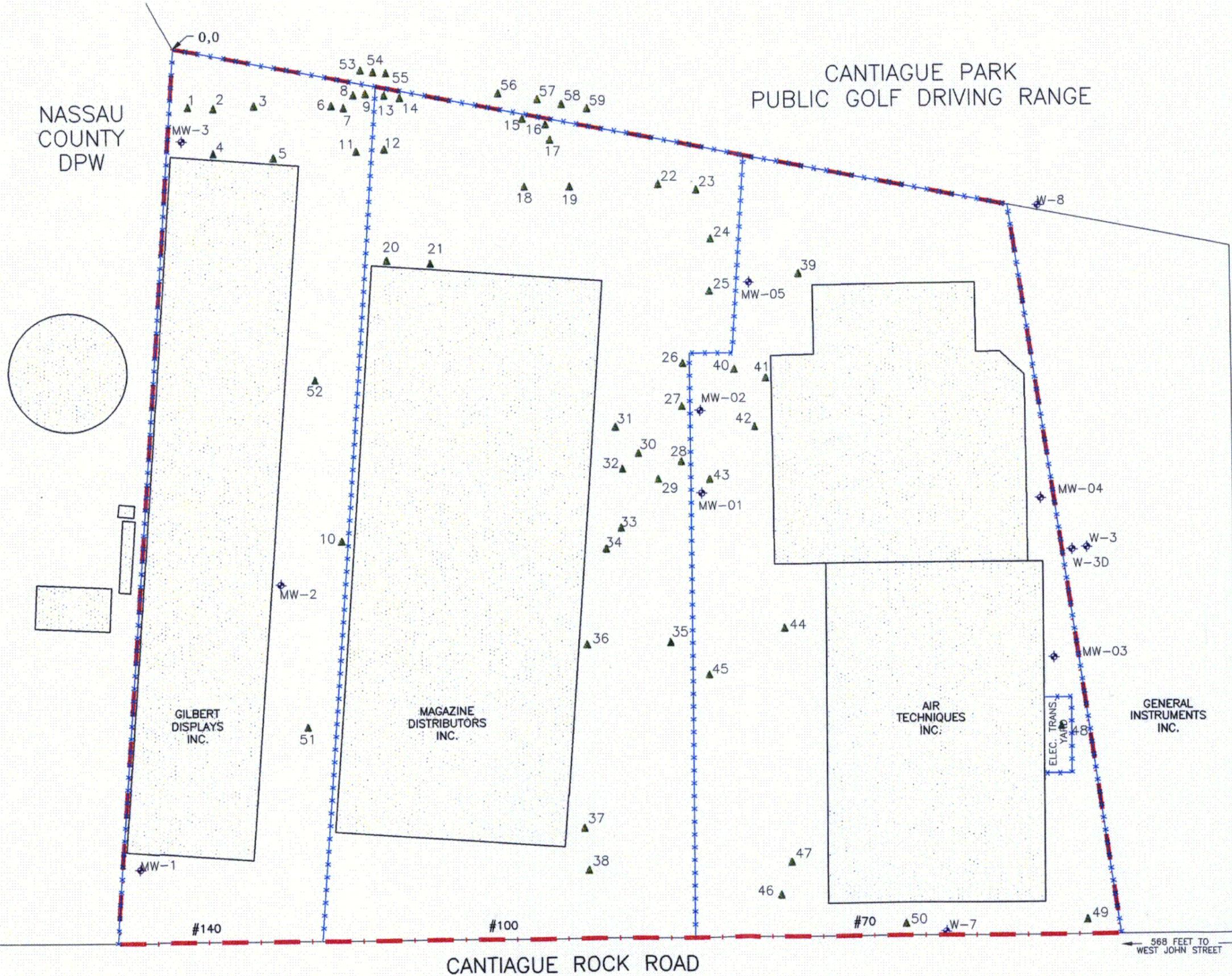
FIGURE 10



E:\DIV62\PROJ\16009\310A.DWG ACB

# CANTIAGUE PARK PUBLIC GOLF DRIVING RANGE

NASSAU COUNTY DPW



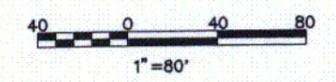
### LEGEND

- EXISTING BUILDING OUTLINE
- - - SITE BOUNDARY
- x x x FENCE
- ▲ PROPOSED SOIL BORING LOCATION
- ◆ EXISTING MONITORING WELL

FORMER SYLVANIA ELECTRIC PRODUCTS INCORPORATED FACILITY HICKSVILLE, NEW YORK

## GROUND-PENETRATING RADAR SURVEY PROPOSED SOIL BORING LOCATIONS

C10



March 1998  
5816.009-310a



NOTE: ADAPTED FROM 1993 AERIAL PHOTOGRAPH, CONTRACT DRAWINGS, AND NASSAU COUNTY TAX MAPS.