CHESTER
ENVIRONMENTAL

Ref. No. 320000-21

August 24, 1994

Mr Paul R. Counterman, Chief
New York State Department of Environmental Conservation
Division of Hazardous Substances Regulation
50 Wolf Road
Albany, New York 12233



Dear Mr. Counterman

RE: Building 2 Underground Storage Tank Closure Report
Philips Display Components Company
Seneca Falls, New York
EPA I.D. No.NYD002246015

Enclosed is the Building 2 Underground Storage Tank (UST) Closure Report for the Seneca Falls Facility dated August 1994. The Building 2 UST Closure Report is submitted on behalf of Philips Display Components Company.

If you have any questions or comments please call me at (412) 269-7615.

Very truly yours,

Michael J. Marshall for Dennis L Middleton

Dennis L. Middleton
Senior Project Manager

Encl.

cc: Paul Counterman - NYSDEC
Clifford Richmond - NYSDEC Region 8
Joseph Marchitell - NYSDEC Region 8
Jim Crutch - Philips Display Components Co.
Annette Russo - North American Philips
Al Lelis - GTE Service Corp.
Ed Chase

600 Clubhouse Drive
Moon Township, Pennsylvania 15108
412-269-5700; Fax 412-269-5749

# PHILIPS DISPLAY COMPONENTS COMPANY

# SENECA FALLS FACILITY

# SENECA FALLS, NEW YORK



# BUILDING 2

# UNDERGROUND STORAGE TANK

# CLOSURE REPORT

**AUGUST 1994**

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ENVIRONMENTAL

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**PHILIPS DISPLAY COMPONENTS COMPANY**

**SENECA FALLS FACILITY**

**SENECA FALLS, NEW YORK**

**BUILDING 2**

**UNDERGROUND STORAGE TANK CLOSURE REPORT**

**PREPARED BY:** **NICK PALUMBO**

**APPROVED BY:** **DENNIS L. MIDDLETON**

**PROJECT NO.:** **320000-21**

CHESTER
ENVIRONMENTAL

P.O. Box 15851 · Pittsburgh, PA 15244
412-269-5700 · Fax 412-269-5749

**PHILIPS DISPLAY COMPONENTS COMPANY**
**SENECA FALLS FACILITY**
**SENECA FALLS, NEW YORK**

**BUILDING 2**
**UNDERGROUND STORAGE TANK CLOSURE REPORT**

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**PHILIPS DISPLAY COMPONENTS COMPANY**
**SENECA FALLS FACILITY**
**SENECA FALLS, NEW YORK**

# BUILDING 2
# UNDERGROUND STORAGE TANK CLOSURE REPORT

## EXECUTIVE SUMMARY

Philips Display Components Company (Philips) contracted Chester Environmental (Chester) to perform the environmental oversight, sampling, and to prepare the closure documentation associated with the permanent closure of an underground storage tank (UST) located at the Seneca Falls Facility in Seneca Falls, New York. Philips contracted OBG Technical Services, Inc. (OBG) to perform UST closure activities, which were initiated on January 31, 1994. The closure activities were accomplished in accordance with New York State Department of Environmental Conservation (NYSDEC) regulations, federal regulations, and American Petroleum Institute (API) Publications 1604 and 2015.

The subject UST was encountered during excavation activities associated with the implementation of the Supplemental Sampling Visit Work Plan (SSVWP), which was prepared under the Resource Conservation and Recovery Act (RCRA) Corrective Action Program. The 1,000 gallon steel UST was located in the parking lot south of Building 2, and contained approximately 1,000 gallons of product/water exhibiting gasoline characteristics. Information concerning the confirmed historical usage of the tank was not available.

Following the removal of the product/water and the excavation of the soil from atop the tank, the UST was decontaminated in-place, removed from the excavation, and subsequently disposed as scrap metal. Approximately 25 tons of soil was removed from the former tank area, and staged on polyethylene sheeting at the designated soil staging area. The ultimate disposal of the staged soil is pending.

The UST excavation was sampled in accordance with NYSDEC protocol following UST removal and minor excavation expansion. Five composite soil samples (four from the excavation sidewalls and one from the bottom of the excavation) were collected and analyzed for Method TCLP/8021 (NYSDEC STARS List). The results indicate that the concentrations of constituents of interest for three of the samples are either nondetectable or below the NYSDEC Groundwater Protection Criteria. The benzene constituent in the remaining two samples slightly exceeds the aforementioned criteria. All remaining analyzed constituents are well below levels of concern.

The results of the UST closure site characterization indicate that no significant impacts remain at the former tank location. Further investigative or remedial activities are not warranted.

# PHILIPS DISPLAY COMPONENTS COMPANY
# SENECA FALLS FACILITY
# SENECA FALLS, NEW YORK

# BUILDING 2
# UNDERGROUND STORAGE TANK CLOSURE REPORT

## 1.0 INTRODUCTION

Philips Display Components Company (Philips) contracted Chester Environmental (Chester) to perform the environmental oversight, sampling, and closure documentation preparation associated with the permanent closure of an underground storage tank (UST) located at the Seneca Falls Facility in Seneca Falls, New York. Philips contracted OBG Technical Services, Inc. (OBG) to perform permanent closure activities, which were initiated on January 31, 1994. OBG performed these activities using Marcellus Construction Company.

The UST closure activities were accomplished in accordance with New York State Department of Environmental Conservation (NYSDEC) regulations, federal regulations, and American Petroleum Institute (API) Publications 1604 and 2015.

This report details the closure activities conducted and the results of the site characterization, and contains the required closure documentation.

### 1.1 Background

During the excavation activities implemented as part of the Supplemental Sampling Visit Work Plan (SSVWP) being completed under the RCRA Corrective Action Program, a UST was encountered in the parking lot south of Building 2. A site location map shown as Figure 1, indicates the location of the Building 2 UST to the Seneca Falls facility buildings. The general layout and location of the UST is shown in Figure 2. The 1,000 gallon (12 feet long, 4 feet diameter) steel tank contained product/water exhibiting gasoline characteristics. Information concerning the historical usage of the UST was not available.

### 1.2 Site Description

The Seneca Falls Facility was originally owned by Ramsey Pump, a manufacturer of pumps, lawn mowers and other casted materials. Sylvania purchased the facility from Ramsey Pump in 1948, and operated the facility from 1948 to 1960. In 1960, Sylvania was acquired by GTE. Philips acquired the facility in 1981 from GTE, and operated it as a television picture tube manufacturing plant. Philips ceased operations in 1986, removed the manufacturing equipment shortly thereafter, and sold the facility to the Seneca County Industrial Development Agency (IDA) in December of 1989.

The facility is bordered by Van Cleef Lake and the Seneca River/Barge Canal system to the south, by agricultural areas to the east, and by residential dwellings to the north and west.

## 2.0 UST CLOSURE

### 2.1 Field Activities

Field activities associated with the permanent UST closure were initiated by Chester and Marcellus Construction personnel on January 31, 1994. Descriptions of each specific closure task are provided below.

Removal and Disposal of Residual Tank Contents

To initiate permanent UST closure, the residual product/water was removed from the tank and subsequently recycled by Industrial Oil Tank Service Corporation. Because information concerning the confirmed historical usage of the UST was not available, the tank contents were transported under hazardous waste and land disposal notification protocol. The disposal documentation is provided in Appendix A.

Soil Excavation and Field Assessment

Following the removal of the residual product/water from the UST and the inerting of the tank atmosphere, the soil was excavated from atop the UST, staged temporarily adjacent to the tank area, and subsequently transported to the designated soil staging area. The field inspection of the excavated soil indicated minor staining. Due to inclement weather conditions (extreme cold), a photoionization detector was not effective in monitoring soil for volatile organic compounds. The soil atop the UST consisted mainly of sandy fill material.

The soil excavated from the former UST area was staged separately in the soils staging area located north of the facility and subsequently sampled and analyzed for EPA Method 8021 and cadmium, chromium, lead and zinc.

UST Decontamination, Inspection and Disposal

Marcellus Construction personnel cleaned the tank interior using degreasing agent and a pressure washer. Rinsewaters were placed into a 55-gallon steel drum. Ultimate disposal is pending.

The visual inspection of the UST revealed general surface corrosion and numerous "dime-sized" corrosion holes.

The tank was subsequently transported to Consolidated Scrap Processing in Auburn, New York for ultimate disposal as scrap metal. A certificate of disposal is provided in Appendix B.

Excavation Inspection

Following removal of the tank, approximately six inches of visually impacted soil was removed from the southern excavation sidewall. The inspection of the excavation sidewalls revealed mainly red clay exhibiting no field evidence of remaining petroleum impacts. The excavation bottom consisted mainly of black and gray sandy fill material exhibiting minor discoloration.

Site Characterization Sampling

To characterize the tank excavation, Chester's engineer collected five composite soil samples from the excavation floor and sidewalls in accordance with the NYSDEC's Spill Technology and Remediation Series (STARS) Memo #1. Samples NW, SW, WW, and EW were collected from the northern, southern, western and eastern sidewalls, respectively at a depth of six feet below grade. Sample EB was collected from the excavation bottom. Sample location and composition information is provided on Figure 2.

The samples were submitted under chain of custody procedures to Huntington Analytical Services (HAS) for Method TCLP/8021 analysis. A discussion of the analytical results is provided in Section 2.2 of this report.

Backfill/Restoration

Following site characterization sampling, polyethylene sheeting was placed in the excavated area to delineate the limits of excavation. Imported clean fill was then placed on top of the polyethylene sheeting.

## 2.2 Site Characterization

A review of the analytical results indicate that the concentrations of constituents of interest for three of the samples (samples NW, SW, and WW) are either nondetectable or below the NYSDEC Groundwater Protection Criteria. The benzene constituent in the remaining two samples (samples EW at 0.00098 mg/L and EB at 0.0017 mg/L) is the only constituent of interest which exceeds the guidance values for groundwater protection criteria of 0.0007 mg/L. The analytical results of the UST closure site characterization sampling are summarized in Table 1. A copy of the laboratory analytical report is provided in Appendix C.

The analytical results of the staged soils are provided in Appendix C. RCRA verification and regulatory review of these results is pending.

An evaluation to determine if the UST soils are hazardous was completed using procedures stipulated in the STARS Memo. Applying these procedures to the analytical data collected from the staged soils indicate that the soils are nonhazardous.

## 3.0 SUMMARY/RECOMMENDATIONS

On January 31, 1994, the permanent closure of a 1,000 gallon UST located at the Seneca Falls Facility in Seneca Falls, New York was initiated. Chester performed environmental oversight, sampling and closure documentation preparation. Marcellus Construction performed UST closure activities.

The results of the site characterization indicate that the constituents of interest for three of the five samples collected from the excavation are either nondetectable or below NYSDEC Groundwater Protection Criteria. The remaining two samples, composite of the eastern end wall (EW) and composite of the excavation bottom (EB), contained only benzene slightly above the NYSDEC Groundwater Protection Criteria. Because benzene was detected above the regulatory criteria in only two of the five samples collected and at very low concentrations, no other constituents of interest were detected, and the *insitu* soils are primarily clay rich, further investigative activities are not recommended at this time.

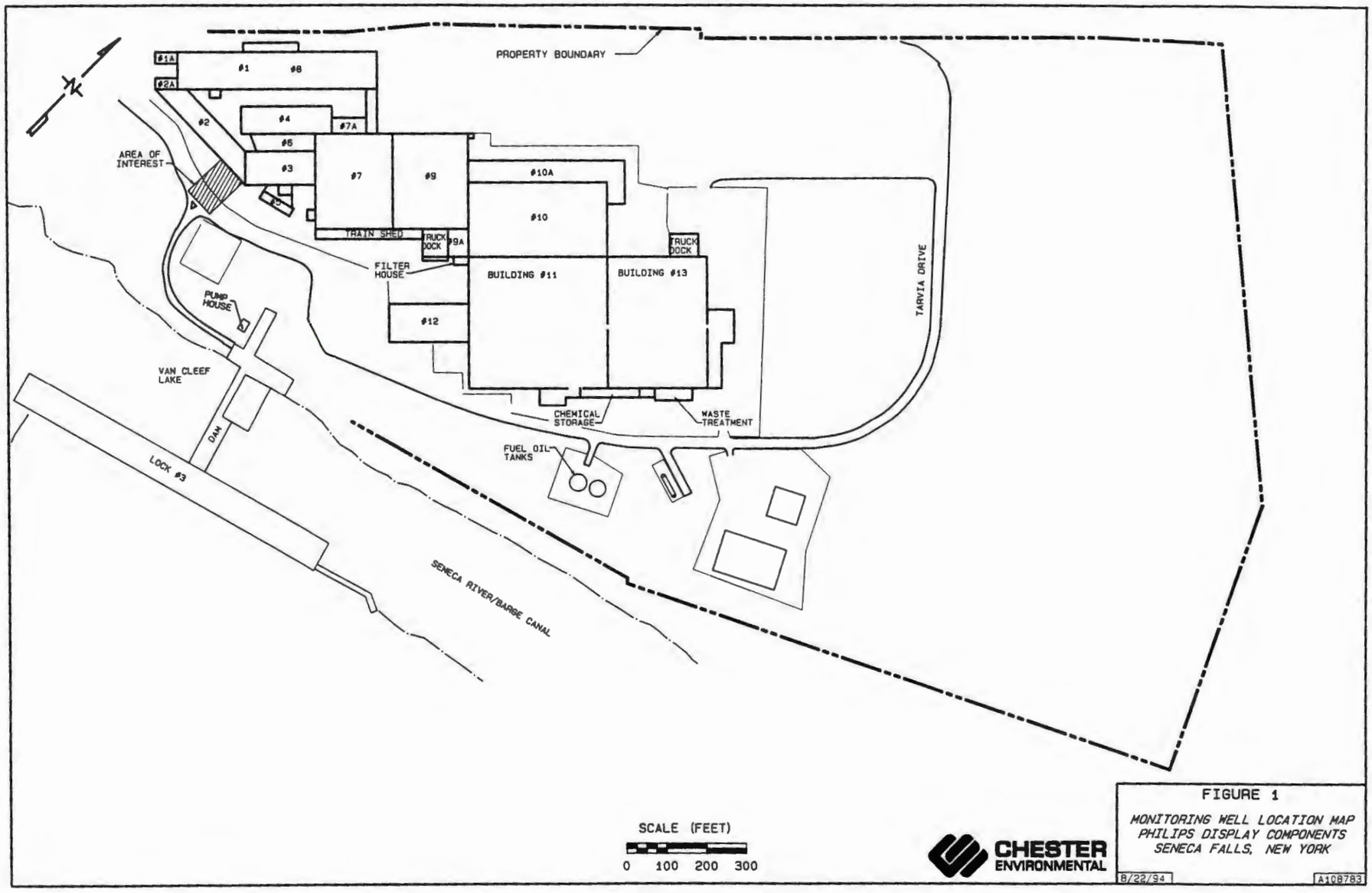
During closure activities, approximately 25 tons of material was removed from the former tank area, and staged on polyethylene sheeting at the designated soil staging area. Ultimate disposal/treatment alternatives are currently being considered. Staged soils will remain secured on site and will be remediated along with soils excavated during the completion of the SSVWP.

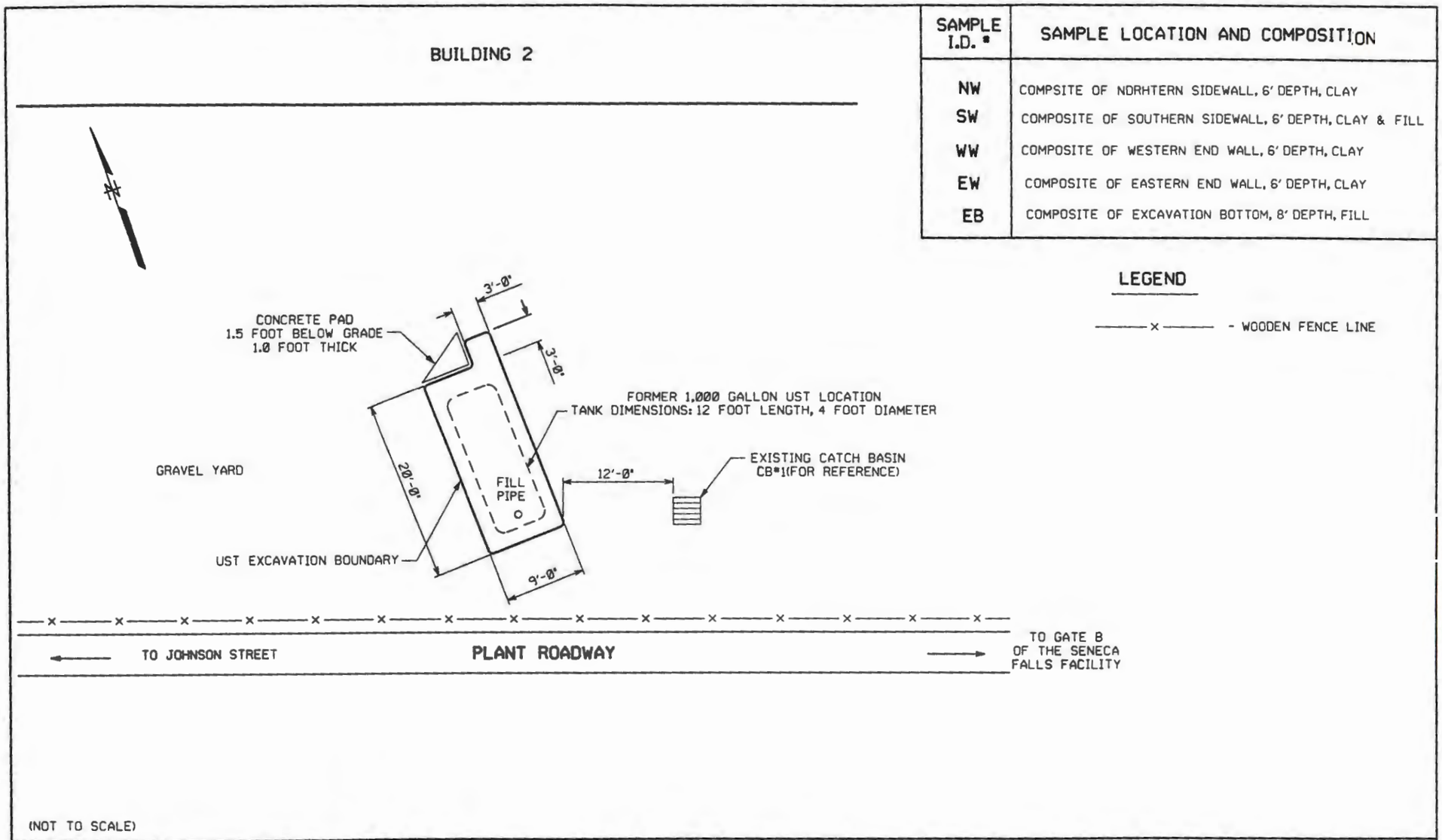
**TABLE 1**
**SOIL SAMPLING RESULTS**
**BUILDING 2 UST EXCAVATION ASSESSMENT**
**PHILIPS DISPLAY COMPONENTS COMPANY**
**SENECA FALLS FACILITY**
**SENECA FALLS, NEW YORK**

| Sample Identification: | TCLP Extraction Guidance Value | NW | SW | WW | EW | EB |
|---|---|---|---|---|---|---|
| Units: | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| **Parameter** | | | | | | |
| Benzene | 0.0007 | <0.0005 | <0.0005 | <0.0005 | 0.00098 | 0.0017 |
| Toluene | 0.005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.00062 |
| Ethylbenzene | 0.005 | <0.0005 | <0.0005 | <0.0005 | 0.0027 | 0.00080 |
| M/P-Xylenes | 0.005 | <0.001 | <0.001 | <0.001 | 0.0045 | 0.0027 |
| o-Xylenes | 0.005 | <0.0005 | <0.0005 | <0.0005 | 0.0023 | 0.0019 |
| Isopropylbenzene | 0.005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| n-Propylbenzene | 0.005 | <0.0005 | <0.0005 | <0.0005 | 0.0013 | <0.0005 |
| 1,3,5-Trimethylbenzene | 0.005 | <0.0005 | <0.0005 | <0.0005 | 0.0024 | 0.00072 |
| tert-Butylbenzene | 0.005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 1,2,4-Trimethylbenzene | 0.005 | <0.0005 | <0.0005 | <0.0005 | 0.0048 | <0.0005 |
| sec-Butylbenzene | 0.005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 4-Isopropyltoluene | 0.005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| n-Butylbenzene | 0.005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthalene | 0.01 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Methyl tert-Butyl Ether | 0.05 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |

**NOTES:**

1. Laboratory analyses performed by Huntington Analytical Services
2. TCLP extraction guidance value represents groundwater protection quality criteria for gasoline contaminated soil.
3. Analytical Method TCLP/8021, New York State DEC STARS List
4. Soil samples collected on January 31, 1994
5. Sample location and composition provided in Figure 1


PROPERTY BOUNDARY
#1A
#1
#8
#2A
#2
#4
#7A
#6
#3
#7
#9
#10A
#10
#5
TRAIN SHED
TRUCK DOCK
#9A
TRUCK DOCK
AREA OF INTEREST
FILTER HOUSE
BUILDING #11
BUILDING #13
TARVIA DRIVE
PUMP HOUSE
#12
VAN CLEEF LAKE
CHEMICAL STORAGE
WASTE TREATMENT
FUEL OIL TANKS
DAM
LOCK #3
SENECA RIVER/BARGE CANAL
SCALE (FEET)
0 100 200 300
CHESTER ENVIRONMENTAL
FIGURE 1
MONITORING WELL LOCATION MAP
PHILIPS DISPLAY COMPONENTS
SENECA FALLS, NEW YORK
8/22/94
A108783




| | | | |
|---|---|---|---|
| Drawn By: CADE | Scale: | CHESTER ENVIRONMENTAL | FIGURE 2<br>UNDERGROUND STORAGE TANK LAYOUT & LOCATION<br>PHILIPS DISPLAY COMPONENTS COMPANY<br>SENECA FALLS, NY |
| Checked By: | | | |
| Approved By: | Date: FEB. 1994 | | Dwg. No. |

22 AUG 1994 /12:00

320000\3200-1.SIT

# APPENDIX A

# RESIDUAL PRODUCT/WATER DISPOSAL DOCUMENTATION

CHESTER
ENVIRONMENTAL

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

# HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please print or type. Do not Staple.

Form Approved. OMB No. 2050-0039. Expires 9-30-94

**UNIFORM HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA No. NYD002246015 — Manifest Document No. PDC01

2. Page 1 of 1 — Information in the shaded areas is not required by Federal Law.

3. Generator's Name and Mailing Address
Philips Display Components Company
50 Johnston St. Seneca Falls, NY 13148

4. Generator's Phone (315) 568-2966

A. State Manifest Document No. NY B 520103 7

B. Generator's ID Same

5. Transporter 1 (Company Name) Industrial Oil Tank Svc. Corp.

6. US EPA ID Number NYD095577342

C. State Transporter's ID PC8413

D. Transporter's Phone (315) 363-0985

7. Transporter 2 (Company Name)

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone ( )

9. Designated Facility Name and Site Address
Industrial Oil Tank Service Corporation
Rte. 31 & Conrail Siding
Verona, NY 13478

10. US EPA ID Number NYD095577342

G. State Facility's ID 33H03

H. Facility's Phone (315) 363-0985

| 11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste No. |
|---|---|---|---|---|---|
| a. RQ Waste Gasoline Mixture (water, gas) Hazard Class 3; PG II, Guide No. 27 UN1203 | 001 | TT | 11000 | G | EPA D001/D018 STATE |
| b. | | | | | EPA STATE |
| c. | | | | | EPA STATE |
| d. | | | | | EPA STATE |

J. Additional Descriptions for Materials listed Above
a. Spec. Gravity 1.0
b.
c.
d.

K. Handling Codes for Wastes Listed Above
a. R
b.
c.
d.

15. Special Handling Instructions and Additional Information
24hr Emergency Phone. (315) 363-0985 Chemtrec phone (800) 424-9300

Contains Benzene: Avoid Skin & Eye Contact

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.

If I am a large quantity generator, I certify that I have program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name [illegible] — Signature [signature] — Mo. 10 Day 13 Year 94

17. Transporter 1 (Acknowledgement of Receipt of Materials)

Printed/Typed Name [illegible] — Signature [signature] — Mo. 11 Day 3 Year 94

18. Transporter 2 (Acknowledgement or Receipt of Materials)

Printed/Typed Name — Signature — Mo. Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Mo. Day Year

GENERATOR

TRANSPORTER

FACILITY

In case of emergency or spill [illegible] call the National Response Center (800) 424-8802

NY B 520103 7

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

COPY 3—Disposer State—mailed by generator

LAND DISPOSAL NOTIFICATION FORM

Manifest # NYB5201037

Hazardous Waste Codes D001

This form is submitted to Industrial Oil Tank Service Corp. in accordance with 40 CFR Part 268, which restricts the land disposal of hazardous wastes. I have marked the appropriate box to indicate how this waste must be managed to conform to the land disposal restrictions.

( ) A. WASTE RESTRICTED: DOES NOT MEET TREATMENT STANDARDS*

I am the generator of a restricted waste which must be treated to the applicable treatment standards set forth in 40 CFR Part 268 Subpart D prior to land disposal. The applicable EPA Hazardous Waste Codes are D001 / Liquids. The treatment standards expressed as specified technologies are FSUBS; RORGS as found in Table 1 of 268.42.

( ) B. WASTE RESTRICTED: SUBJECT TO A NATIONWIDE VARIANCE, EXEMPTION, OR EXTENSION*

The waste identified above is subject to a national capacity variance, a treatability variance, or a case-by-case extension which expires on _____. This variance applies to EPA Hazardous waste code(s) _____. If disposal occurs in a landfill or surface impoundment, the unit must meet the minimum destined for deep well injection which is subject to a separate set of variances. (See 40 CFR Part 148). The treatment standards for other restricted waste is found in 40 CFR Part 268 Subpart D. They are hazardous waste code(s) _____ with technology _____.

**********

Please attach available waste analysis data.

I hereby certify that this form is accurately completed to the best of my knowledge and/or waste analysis data.

Generator: Philips Display Components Co.

Signature: Neil Roberts (Authorized Agent for Philips DCC)

Date: 1/31/94

Generator: AFTER COMPLETION, PLEASE COPY ENTIRE DOCUMENT AND RETAIN ON-SITE IN YOUR FILES FOR FIVE YEARS. ORIGINAL SHOULD BE SENT WITH THE DRIVER.

TABLE CCWE, - Constituent Concentrations in Waste Extract

| Waste Code | See Also | Regulated Hazardous Constituents | Wastewaters Concentration (eg/l) | Nonwastewaters Concentration (e |
|---|---|---|---|---|
| D004 | Table CCW in 268.43 | Arsenic | na | 5 |
| D005 | Table CCW in 268.43 | Barium | na | 100 |
| D006 | Table CCW in 268.43 | Cadmium | na | 1 |
| D007 | Table CCW in 268.43 | Chromium (Total) | na | 5 |
| D008 | Table CCW in 268.43 | Lead | na | 5 |
| D009 | Table CCW in 268.43 & Table 2 in 268.42 | Mercury | na | 0.2 |
| D010 | Table CCW in 268.43 | Selenium | na | 5.7 |
| D018 | Table CCW in 268.43 | Benzene | .5 | Not Yet Specified |

TABLE 2. - Technology-Based Standards by RCRA Code

| Waste Code | See Also | Waste Descriptions and/or Treatment Subcategory | Technology Wastewaters | Code Nonwastewaters |
|---|---|---|---|---|
| D001 | | Ignitable Liquids based on 261.21(a)(1) Wastewaters <1% TOC | DEACT | na |
| D001 | | Ignitable Liquids based on 261.21(a)(1) Low TOC Ignitable Liquids Subcategory <10% Total Organic Carbon (TOC) | na | DEACT |
| D001 | | Ignitable Liquids based on 261.21(a)(1) High TOC Ignitable Liquids Subcategory >or equal to 10% Total Organic Carbon | na | FSUBS; RORGS; INCI |

# APPENDIX B

# UST DISPOSAL CERTIFICATION

CHESTER
ENVIRONMENTAL

**CONSOLIDATED SCRAP PROCESSING**

23 Perrine Street
Auburn, New York
315-253-0373

40

GROSS WEIGHT 22880
TARE 22100
NET WEIGHT 780

SHEAR

HEAVY COPPER
LIGHT COPPER
BRASS
RADIATORS
ALUMINUM
BATTERIES
LEAD
DIE-CAST
ST. STEEL ON

Red GMC
SG4045
VEHICLE IDENTITY

2/1/94
DATE

$ 15.60
Amount Paid

# APPENDIX C

# LABORATORY ANALYTICAL REPORT

CHESTER
ENVIRONMENTAL

# Environmental Analytical Report

Report Number: 94-0182

Prepared for:

Chester Environmental
3000 Tech Center Drive
Monroeville, Pennsylvania 15146

RE: Philips - Seneca Falls DCC UST Removal

Prepared by:

Huntingdon Analytical Services
Division of Empire Soils Investigations, Inc.
P.O. Box 250
Middleport, New York 14105
Telephone: 716/735-3400; Fax: 716/735-3653

March 11, 1994



Huntingdon

HUNTINGDON ANALYTICAL SERVICES
ELAP #10833
ENVIRONMENTAL REPORT

REPORT NUMBER: 94-0182

STATEMENT OF WORK PERFORMED

I HEREBY DECLARE THAT THE WORK WAS PERFORMED UNDER MY SUPERVISION ACCORDING TO THE PROCEDURES OUTLINED BY THE FOLLOWING REFERENCES AND THAT THIS REPORT PROVIDES A CORRECT AND FAITHFUL RECORD OF THE RESULTS OBTAINED.

- 40 CFR PART 136, "GUIDELINES ESTABLISHING TEST PROCEDURES FOR THE ANALYSIS OF POLLUTANTS UNDER THE CLEAN WATER ACT", OCTOBER 26, 1984 (FEDERAL REGISTER) U. S. ENVIRONMENTAL PROTECTION AGENCY.

- U.S. ENVIRONMENTAL PROTECTION AGENCY, "TEST METHODS OF EVALUATING SOLID WASTE - PHYSICAL/CHEMICAL METHODS", OFFICE OF SOLID WASTE AND EMERGENCY RESPONSE, SW-846, 2ND EDITION AND 3RD EDITION.

THIS REPORT CONTAINS ANALYTICAL DATA BASED ON OUR EXAMINATION OF THE SAMPLE(S) PRESENTED TO US. THIS REPORT CONTAINS (EXCEPT WHERE EXPLICITLY STATED) A COMPLETE ACCOUNT OF THE ANALYSES REQUESTED TO BE PERFORMED ON THE SAMPLE(S). INFORMATION WHICH WAS NOT REQUESTED TO BE REPORTED IS NOT INCLUDED.

Douglas F. Gillard 3-10-94

DOUGLAS F. GILLARD, PH.D.
MANAGER, ENVIRONMENTAL SERVICES

REPORT CODE LEGEND:

| | |
|---|---|
| < DL | = LESS THAN DETECTION LIMIT |
| ND | = NOT DETECTED |
| NA | = NOT APPLICABLE |
| INP | = INFORMATION NOT PROVIDED |
| MB | = METHOD BLANK |

Huntingdon

# HUNTINGDON ANALYTICAL SERVICES

METHOD TCLP/8021
New York State DEC STARS List

| SAMPLE IDENTIFICATION : | NW | SW | WW | EW | EB | TCLP METHOD BLANK | |
|---|---|---|---|---|---|---|---|
| HAS SAMPLE #940182 | 01 | 02 | 03 | 04 | 05 | -- | |
| ANALYTE | RESULT ug/L | RESULT ug/L | RESULT ug/L | RESULT ug/L | RESULT ug/L | RESULT ug/L | MDL ug/L |
| BENZENE | <0.50 | <0.50 | <0.50 | 0.98 | 1.7 | <0.50 | 0.50 |
| TOLUENE | <0.50 | <0.50 | <0.50 | <0.50 | 0.62 | <0.50 | 0.50 |
| ETHYL BENZENE | <0.50 | <0.50 | <0.50 | 2.7 | 0.80 | <0.50 | 0.50 |
| M/P - XYLENES | <1.0 | <1.0 | <1.0 | 4.5 | 2.7 | <1.0 | 1.0 |
| O - XYLENES | <0.50 | <0.50 | <0.50 | 2.3 | 1.9 | <0.50 | 0.50 |
| ISOPROPYLBENZENE | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 |
| n-PROPYL BENZENE | <0.50 | <0.50 | <0.50 | 1.3 | <0.50 | <0.50 | 0.50 |
| 1,3,5-TRIMETHYLBENZENE | <0.50 | <0.50 | <0.50 | 2.4 | 0.72 | <0.50 | 0.50 |
| tert-BUTYLBENZENE | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 |
| 1,2,4-TRIMETHYLBENZENE | <0.50 | <0.50 | <0.50 | 4.8 | <0.50 | <0.50 | 0.50 |
| sec-BUTYLBENZENE | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 |
| 4-ISOPROPYLTOLUENE | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 |
| n-BUTYL BENZENE | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 |
| NAPHTHALENE | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 |
| METHYL tert-BUTYL ETHER | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 |
| TCLP DATE: | 2-7-94 | 2-7-94 | 2-7-94 | 2-7-94 | 2-7-94 | 2-7-94 | |
| DATE ANALYZED: | 2-11-94 | 2-11-94 | 2-12-94 | 2-12-94 | 2-12-94 | 2-11-94 | |

# CHESTER ENVIRONMENTAL

## CHAIN OF CUSTODY RECORD

PLANT CODE | PROJECT NAME: Philips DCC UST REMOVAL

SAMPLERS (Signature): Nick Palumbo

| STA. NO. | DATE | TIME | COMP. | GRAB | WELL | STATION LOCATION | NUMBER OF CONTAINERS | TCLP EXTRACTION | METHOD 8021 STARS +MTBE on TCLP EXTRACT | | | | | | | CONDUCTIVITY | pH | REMARKS OR OBSERVATIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | 94-0182 |
| NW | 1/31/94 | 1515 | ✓ | | | northern sidewall | 1 | ✓ | ✓ | | | | | | | | 01 | red clay, 6' depth |
| SW | | 1520 | ✓ | | | southern sidewall | 1 | ✓ | ✓ | | | | | | | | 02 | red clay + fill, 6' depth |
| WW | | 1525 | ✓ | | | western endwall | 1 | ✓ | ✓ | | | | | | | | 03 | red clay, 6' depth |
| EW | | 1530 | ✓ | | | eastern endwall | 1 | ✓ | ✓ | | | | | | | | 04 | red clay, 6' depth |
| EB | | 1535 | ✓ | | | excavation bottom | 1 | ✓ | ✓ | | | | | | | | 05 | black gray fill, 8' depth |
| | | | | | | | | | | | | | | | | | ip | |

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Relinquished by: (Signature) | Date | Time | Received by: (Signature) |
|---|---|---|---|---|---|---|---|
| Nick Palumbo (as FedEx) | 2/1/94 | 1200 | | | | | |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Relinquished by: (Signature) | Date | Time | Received by: (Signature) |
| | 2/1/94 | 1655 | | | | | |
| Relinquished by: (Signature) | Date | Time | Received for Laboratory by: (Signature) | Date | Time | | |
| | | | | 2/2/94 | 1110 | | |

| Ice Chest Temp °C | Ice Chest # | Chain of Custody Tag # |
|---|---|---|
| | | |

*DISTRIBUTION: Original accompanies shipment; Copy to Coordinator Field Files.

PAGE _____ OF __

# CHESTER ENVIRONMENTAL

## CHAIN OF CUSTODY RECORD

PLANT CODE | PROJECT NAME: Philips DCC UST REMOVAL

SAMPLERS (Signature): Nick Plumb

| STA. NO. | DATE | TIME | COMP. | GRAB | WELL | STATION LOCATION | NUMBER OF CONTAINERS | TCLP EXTRACTION | METHOD 8021: STARS + MTBE on TCLP EXTRACT | | | | | | | CONDUCTIVITY | pH | REMARKS OR OBSERVATIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NW | 1/31/94 | 1515 | ✓ | | | northern sidewall | 1 | ✓ | ✓ | | | | | | | | | red clay, 6' dept |
| SW | | 1520 | ✓ | | | southern sidewall | 1 | ✓ | ✓ | | | | | | | | | red clay + fill, 6' dep |
| WW | | 1525 | ✓ | | | western endwall | 1 | ✓ | ✓ | | | | | | | | | red clay, 6' dept |
| EW | | 1530 | ✓ | | | eastern endwall | 1 | ✓ | ✓ | | | | | | | | | red clay, 6' depth |
| EB | | 1535 | ✓ | | | excavation bottom | 1 | ✓ | ✓ | | | | | | | | | black gray fill, 8' d |

Post-it™ brand fax transmittal memo 7671 | # of pages ▸ 1

| | |
|---|---|
| To Nick Plumb | From Mike Hardy |
| Co. Chester | Co. Chester |
| Dept. Ext 7620 | Phone # 315-568-2946 |
| Fax # 412-788-3749 | Fax # |

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Relinquished by: (Signature) | Date | Time | Received by: (Signature) |
|---|---|---|---|---|---|---|---|
| Nick Plumb (original) | 2/1/94 | 1600 | Mike Hardy | | | | |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Relinquished by: (Signature) | Date | Time | Received by: (Signature) |
| Mike Hardy | 2/1/94 | 1630 | | | | | |
| Relinquished by: (Signature) | Date | Time | Received for Laboratory by: (Signature) | Date | Time | Ice Chest Temp °C | Ice Chest # | Chain of Custody Tag # |

DISTRIBUTION: Original accompanies shipment; Copy to Coordinator Field Files.

PAGE ____ OF ____

# APPENDIX D

# PHOTO-DOCUMENTATION

CHESTER
ENVIRONMENTAL

**Photo #1:** LOCATION OF UNDERGROUND STORAGE TANK (UST). TANK FILL PIPE IS MARKED BY SAFETY CONE. (LOOKING SOUTH)

**Photo #2:** EMPTYING UST OF REMAINING CONTENTS. (LOOKING SOUTH)

**Photo #3:** EXCAVATION OF SOIL FROM ATOP UST. (LOOKING WEST)

**Photo #4:** TEMPORARY STAGING OF UST FOLLOWING REMOVAL. (LOOKING SOUTHEAST)

**Photo #5:** SOUTHERN EXCAVATION SIDEWALL FOLLOWING UST REMOVAL. (LOOKING SOUTH)

**Photo #6:** EASTERN END OF EXCAVATION FOLLOWING UST REMOVAL. (LOOKING EAST)

**Photo #7:** LABELLED UST PRIOR TO TRANSPORTATION FOR DISPOSAL. (LOOKING SOUTH)

**Photo #8:** BACKFILLING UST EXCAVATION WITH IMPORTED CLEAN FILL. (LOOKING WEST)