915066

New York State Department of Environmental Conservation Division of Hazardous Waste Remediation Bureau of Hazardous Site Control Additions/Change to Registry Summary of Approvals

| Site Name Wastinghouse Electric | Corp. DEC I.D. Number 915066 |
|-----------------------------------|------------------------------|
| Current Classification Ja | Ĭ |
| Activity Add as Class Reclassify | to 2 Delist Category Modify |
| Approvals. | |
| Regional Hazardous Waste Engineer | Yes 4 No |
| NYSDOH | Yes No |
| DEE | Yes No |
| BHSC: a. Investigation Section | Yes No |
| b. Site Centrol Section | 1/ self/1/ franco 3/9/91 |
| c. Director | Solton Baca |
| DHWR Assistant Director | Charl astofele bate |

01991~920

NEW YORK STATE DÉPARTMENTS OF ENVIRONMENTAL CONSERVATION AND HEALTH INACTIVE HAZARDOUS WASTE DISPOSAL SITE PRIORITY RANKING WORKSHEET

| | | SITE # 915066 SITE NAME WESTINGHOUSE ELECTRIC | Coxpor |
|----|---------------------|---|-----------|
| 0 | | rity \underline{I} - Top priority sites; supersede all others. Priority I can be gned if any of the following criteria is met: | |
| | a) | A sole source or primary aquifer, or a public or private water supply is being contaminated or threatened, or | |
| | b) | Human exposure to contaminants has been identified which represents a Significant health risk as determined by DOH, or | |
| | | There is a bioaccumulation of site contaminants in flora or fauna which results in a health advisory, or | |
| | | Site contaminants are at levels that are acutely toxic to fish or wildlife or have caused documented fish or wildlife mortality, or | |
| | - | An expedient response could measurably reduce the threat to health or the environment, reduce the scope of a corrective action, or reduce potential remedial costs. | |
| o | | rity II - Important sites. Priority II can be assigned if any of the owing criteria is met: | |
| | • | A Class AA or a Class A surface water body or a principal aquifer is being contaminated or threatened; however, no existing water supply has been contaminated, or | |
| | : | There is a bioaccumulation of site contaminants in flora or fauna which results in advisory or actionable levels but below levels necessitating a health advisory, or | |
| | c) | Site contaminants are at levels chronically toxic to fish/wildlife, or | |
| | | Endangered, threatened or rare species, significant habitats, designated coastal zone areas or regulated wetlands are being impacted by releases from the site, or | |
| | | The site is identified by the International Joint Commission (IJC) as a component in a Remedial Action Plan (RAP), or | |
| | · | The site is within a State Economic Development Zone or is targeted for local government supported development and the developer has expressed a willingness to enter into a consent order with DEC to finance investigation and remediation. | |
| c | unle appl for | rity III - General Site Category. Priority III will be assigned so one or more of the site prioritization criteria, specified above, y to a site. When resources become available, after remedial needs Priority I and II sites have been accommodated, remediation of sites r this category can be considered. | \bowtie |
| CO | MENT | | |
| | | | |
| | | | |
| Fi | lled | out by (Name): Make Maternas Date: 1/12/91 | |

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID AND HAZARDOUS WASTE INACTIVE HAZARDOUS WASTE DISPOSAL REPORT

| classification code: \overline{Q} | REGION: | SITE CODE: |
|---|-------------------------------|-----------------------------|
| NAME OF SITE : | | EPA ID: |
| STREET ADDRESS: | | |
| TOWN/CITY: | | ZIP: |
| | | • |
| SITE TYPE: Open Dump- Str | :ucture- Lagoon- Landf: | ill- Treatment Pond- |
| | | |
| ESTIMATED SIZE: SITE OWNER/OPERATOR INFORM CURRENT OWNER NAME: | Current Owner Nogar Front | e- transportation Authority |
| SITE OWNER/OPERATOR INFORM | MATION: Bufalo | NY 12507 |
| CURRENT OWNER NAME: 左 | ie County Industrial Develor | Donont Agency |
| CURRENT OWNER ADDRESS .: 🚣 | 24 Main Street Site 300 U | RUTALO NY 14202 |
| owner(s) during use: | Strichaux Electric Corp. Cur | tis-Wright Corp |
| OPERATOR DURING USE: 🖘 | me as above | |
| OPERATOR ADDRESS: <u>≁</u> ✓ | 54 General Street Char | extourage NY 14225 |
| PERIOD ASSOCIATED WITH HAZ | ARDOUS WASTE: From | To |
| | | |
| SITE DESCRIPTION: | | |
| | 10/0 6-1 | - strength production |
| The existing facilit | y was constructed in 1940 for | r all craft production |
| | Corporation. In 1946, the | |
| Wastinahaysa Flastri | c Corporation where they many | nractured AU And DU |

The existing facility was constructed in 1940 for aircraft production by the Curtis-Wright Corporation. In 1946, the site was sold to Westinghouse Electric Corporation where they manufactured AC and DC industrial motor controls; electric motors and generators; metal machining, fabrication, plating and finishing; etc. until 1984. Although Westinghouse stated that on-site disposal did not occur, reference is made in a 1955 memorandum to an unknown, on-site disposal area for cyanide waste from a heating room. Through aerial photographs, it was determined that disposal took place at the northern end of the site.

In June 1980, this site was listed in the Registry as "suspected" of disposing cyanide salts on-site at the northern end of the site. A Phase I Investigation, completed in January 1986, did not have enough information to classify the site and recommended additional work be done. Based upon interviews with former Westinghouse employees and site visits, the study area for a preliminary site assessment (PSA) to be performed on this property was broadened to cover the whole site. The PSA was completed in 1991 with analytical data showing the following contravened groundwater parameters and values: tetrachloroethene - 160 ppb (5 ppb); trichloroethene - 58,000 ppb (5 ppb); 1,2-dichloroethene - 15,000 ppb (5 ppb); vinyl chloride - 2,500 ppb (2 ppb); 1,1,1-trichloroethane - 1,400 ppb (5 ppb).

| HAZARDOUS WASTE DISPOSED: TYPE | Confirmed- X | Suspected- QUANTITY | (units) |
|--------------------------------|--------------|------------------------|---------|
| tetrachlowethene | 3 | untrown | |
| trichloroethene | | unknown | |
| 1,1,1- trichbroethane | | unknown | |

SITE CODE: :

ANALYTICAL DATA AVAILABLE:

Surface Water- Groundwater- XSoil- XSediment-X None-

CONTRAVENTION OF STANDARDS:

Groundwater- ★ Drinking Water- Surface Water- ★ Air-

LEGAL ACTION:

TYPE..:

State-

STATUS:

In Progress-

Completed-

REMEDIAL ACTION: ..

Under design-

In Progress-

Completed-

NATURE OF ACTION:

GEOTECHNICAL INFORMATION: bedrock death estimated at 40 to

SOIL TYPE: glocial till- clover silt mating varying amounts
GROUNDWATER DEPTH: 5/2 feet fine to coarse sand

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Findings from this study show that organic solvents have been disposed on-site, contaminating groundwater, thereby posing a significant threat to the environment. No cyanide was found.



New York State Department of Environmental Conservation

MEMORANDUM

TO: FROM: SUBJECT: File

Mark P. Mateunas, P.E., EIS, BHSC, DHWR
Westinghouse Electric Corporation, Cheektowaga(T), Erie County

Site No. 915066 - Summarized Sampling Data

July 12, 1991 DATE:

> This memorandum is to be attached to the ADDITIONS/CHANGES TO REGISTRY OF INACTIVE HAZARDOUS WASTE DISPOSAL SITES in response to Question 11.b., List the contravened parameters and values.

| <u>Hazardous Waste</u> tetrachloroethene | <u>Groundwater</u> 160 | Surface Water |
|---|---------------------------|---|
| trichloroethene | 7 - 58,000 | 31 - 17,000 |
| 1,2-dichloroethene | 19 - 15,000 | 7 - 38 |
| vinyl chloride | 350 - 2,500 | |
| 1,1,1-trichloroethane | 100 - 1,400 | 7 - 41 |
| tetrachloroethene trichloroethene | Soil 76 23 - 30,000 | <u>Sediments</u> 53 - 13,000 41,000 - 1,500,000 |
| 1,2-dichloroethene vinyl chloride | 71 - 22,000 | 540 |
| 1,1,1-trichloroethane | 19 - 6,000 | |

^{*} units are in parts per billion (ppb)



EXECUTIVE SUMMARY

This Preliminary Site Assessment (PSA) Report for the Westinghouse Electric Corporation Site (New York State Site Number 915066, USEPA Site Number NY D092474592) has been prepared by Dunn Geoscience Engineering Company, P.C. (DUNN) under the State Superfund Standby Contract (Work Assignment No. D002520-8) with the New York State Department of Environmental Conservation (NYSDEC). All project activities associated with this work assignment were conducted during August 1990 to June 1991.

The Westinghouse Electric Corporation Site, approximately 143 acres in size, is located in the western portion of Erie County, New York, at 4454 Genesee Street in the Town of Cheektowaga (refer to Figure ES-1). The site is bordered to the north and west by the Greater Buffalo International Airport, to the east by Holtz Drive, and to the south by Genesee Street.

Between 1940 to 1946, Curtis-Wright Corporation utilized the facility for the manufacture and production of aircraft for World War II. In 1946, the 143 acre plant site was sold to the Westinghouse Electric Corporation. During 1946 to 1984, Westinghouse utilized the facility to manufacture electric motors and controls.

In 1964, Westinghouse solid approximately 0.7 acres of the northern tip portion of the property to the Niagara Frontier Transportation Authority (NFTA).

During 1984, Westinghouse sold an additional 11.4 acres of the northern tip of the subject property to the NFTA, and in December of that year, sold the plant building and remaining property to Mr. Barry M. Weinstein.

In June 1985, Mr. Weinstein assigned all his rights and interest in the facility to the Buffalo Airport Center Associates (BACA). In August of the same year, the BACA assigned all its rights and interest in the facility to the Erie County Industrial Development Agency (ECIDA), who in turn, leased the premises back to the BACA.

Presently, the BACA manages the site and subleases portions of the property for a variety of uses, including general office and warehousing and distribution operations. In addition, Westinghouse continues to lease a portion (approximately 100,000 square foot) of the main plant



building from BACA for limited manufacturing activities associated with its International and Speciality Services Division.

In 1979, the Interagency Task Force on Hazardous Wastes in Erie and Niagara Counties (a coalition of the NYSDEC, New York Department of Health (NYSDOH) and Region II USEPA personnel) identified Westinghouse as a significant generator of hazardous waste. However, it could not identify where wastes generated at the facility were disposed prior to 1971. According to the Task Force Report, the following waste materials were generated in varying quantities by Westinghouse's manufacturing processes:

- General refuse;
- Waste oil;
- Non-ferrous scrap;
- Ferrous scrap;
- Waste mineral oil;
- Ultra filter rinse oil;
- Iron phosphate solution;
- Deionized resin solution; and
- Chemical wastes.

No information could be found pertaining to waste generation and disposal practices associated with Curtis-Wright's manufacturing activities at the plant site.

In June of 1980, Westinghouse was listed in the registry of Inactive Hazardous Waste Disposal Sites as "suspected" of disposing cyanide salts on-site at an unknown location. The issue of suspected disposal of cyanide salts was raised as a result of a Westinghouse memorandum concerning a conference between Westinghouse and D. B. Stevens of the New York State Water Pollution Control Board. This January 10, 1955 memorandum makes reference to cyanide waste from the heat treating room: "The spent solid cyanide is collected and disposed of by burial on the property." In that same memorandum are references to off-site disposal of sludges, as well as plating solutions, that are "...diluted and flushed down the drain."



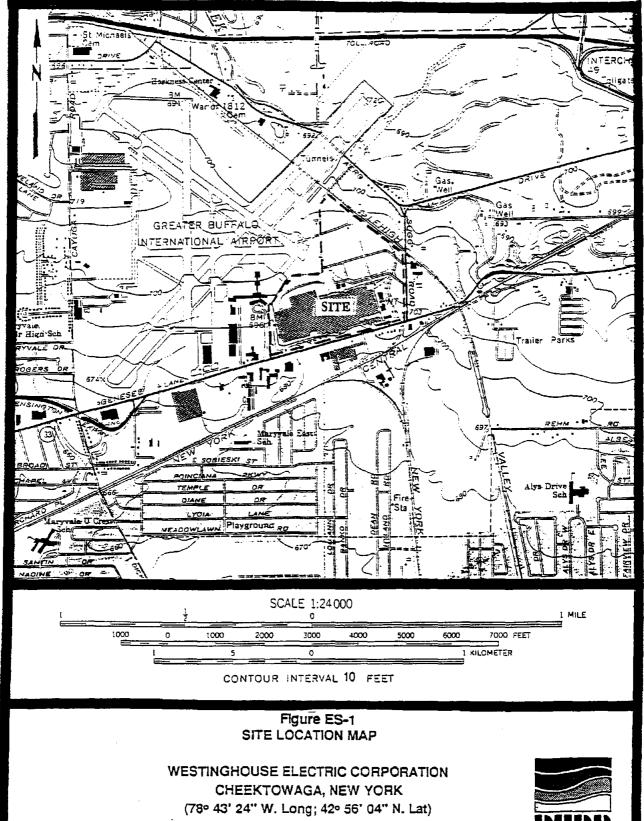
Based on the review of aerial photograph coverage of the Westinghouse Site (Dames and Moore, 1986), the alleged dumping of solid cyanide, waste oil and lubricants may have taken place in the portion of the property north of the paved parking lot areas.

Allegations have subsequently been made by the NFTA that there are other areas of the property, both inside and outside the main building structure, where additional environmental concerns may exist as a result of past disposal practices or site operations.

Based on the information obtained from site reconnaissance/interviews and the results of previous investigations conducted at the Westinghouse Electric Site, Dunn Engineering Company, P.C. (DUNN) recommended that a detailed surface/subsurface investigation of the study area be conducted to properly classify the site. The initial study area, an 11.4 acre site situated at the northern portion of the property, was significantly broadened to incorporate the total 143 acres of the subject property. The increase in the study area was based upon information provided by former Westinghouse employees pertaining to alleged on-site disposal of chemical wastes, site reconnaissance observations made by DUNN and NYSDEC personnel, and from the increase in information concerned with the use, storage and handling of bulk chemical products/by-products utilized at the Westinghouse plant.

Analytical results obtained from the PSA study indicated that hazardous waste materials have been disposed on various portions of the project site over an extended period of time. This conclusion is further supported by historic documentation and statements made by former Westinghouse Electric employees.

Based on the findings and conclusions presented in this report, DUNN recommends that the entire Westinghouse Electric Corporation Site, approximately $143\pm$ acres in size, be reclassified by the NYSDEC to a Class 2 site, and that a more extensive investigation be undertaken to define the extent of contamination and provide the necessary information required to evaluate possible alternatives for remediating the project site.



U.S.G.S 7.5 Min Quad. Lancaster, New York





5.0 SUMMARY OF CONCLUSIONS

Based on the analytical results presented in Section 4.0 of this report, it can be concluded that hazardous waste materials have been improperly disposed of on various portions of the project site over an extended period of time. This conclusion is further supported by historic documentation and statements made by former Westinghouse Electric employees.

Volatile organic compounds (VOCs), in excess of New York State Water Quality Standards and/or Guidance Values, were detected in groundwater samples collected from the following areas:

- Area I-Oil Storage Building (WEC-MW7);
- Area J-Underground Solvent Tank Storage Area (WEC-MW8);
- Area K-Hazardous Storage Facility (WEC-MW10);
- Area Q-Railroad Track Area (WEC-MW16); and
- Existing Monitoring Well Locations (WEC-MW2 and WEC-MW3).

In general, the highest VOCs concentration levels detected in the groundwater consisted of:

Vinyl chloride;

- 1,1-Dichloroethane;
- 1,1-Dichloroethene;
- 1,2-Dichloroethane;
- 1,1,1-Trichloroethane;
- Trichloroethene; and
- Toluene.

Two of the above contaminants of concern, 1,1,1-trichloroethane and trichloroethene, are listed hazardous wastes as established in New York State Regulations-6NYCRR Part 371 (Section



371.4). Past records indicate that both 1,1,1-trichloroethane and trichloroethene were routinely utilized and stored at the facility.

Contamination of subsurface soil was detected in the following areas:

- Area D-Storm Sewer Line 003;
- Area F-Captain's Pool Area;
- Area I-Oil Storage Building;
- Area J-Underground Solvent Tank Storage Area;
- Area O-Gunnery Range;
- Area P-"Flying Tiger's" Area; and
- Area Q-Railroad Track Area.

Samples collected from these areas exhibited elevated concentrations of various compounds and/or analytes in excess of NYSDEC Soil Guidance Values.

Surface water contamination was detected in the following areas:

- Area A-Fan Room;
- Area C-Heat Treatment/Plating Area;
- Area E-Storm Sewer System; and
- Area M-Underground Mixing Room.

Samples collected from these areas exhibited elevated concentration levels of various compounds and/or inorganic analytes in excess of New York State Water Quality Standards and/or Guidance Values.

Elevated concentrations of several compounds and/or analytes in excess of NYSDEC Soil Guidance Values were detected in sediment samples collected form the following areas:

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- Area A-Fan Room;
- Area C-Heat Treatment/Plating Area;
- Area E-Storm Sewer System;
- Area H-Boiler House Facility;
- Area M-Underground Mixing Room; and
- Area O-Gunnery Range.

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7.0 RECOMMENDATIONS

Based on the findings and conclusions presented in this report, Dunn Geoscience Engineering Company, P.C. (DUNN) recommends that the entire Westinghouse Electric Corporation Site, approximately $143\pm$ acres in size, be reclassified by the NYSDEC to a Class 2 site, and that a more extensive investigation be undertaken to define the extent of contamination and provide the necessary information required to evaluate possible alternatives for remediating the project site.

TABLE A-1

WESTINGHOUSE ELECTRIC CORPORATION SITE SUMMARY TABLE OF VOLATILE AND SEMI-VOLATILE ORGANIC COMPOUNDS SURFACE WATER SAMPLES

AREA A - FAN ROOM SUMP(S)

(Concentration Values in ug/l - ppb)

| • | SURFACE WA | TER LOCATION | | | | |
|----------------------------|------------|--------------|---------------|---------|--|--|
| | WEC-SP1-L | WEC-FD1-L | NYS | NYSDEC | | |
| | A55712 | A55717 | Water Quality | TOGS | | |
| | Sump | Floor Drain | Standards | (1.1.1) | | |
| VOLATILE ORGANIC COMPOUNDS | | | · | | | |
| Methylene Chloride | ND | 7 J | NS | 50 | | |
| Trichloroethene | 17000 D | ND | NS | 11 | | |
| 1113110100010110 | 1,000 5 | ,,,, | ,,,, | ., | | |
| | | : | | | | |
|] | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | 1 | | | |
| | | | | | | |
| Total Volatiles | 17000 | 7 | NS | - | | |
| | | | | | | |
| Total Volatile TICs | ND | ND | NS | - | | |
| SEMI-VOLATILE ORGANIC | | | | | | |
| COMPOUNDS | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Total Semi-Volatiles | 0 | NA | NS | | | |
| | | | | | | |
| Total Semi-Volatile TICs | ND | NA | NS | + | | |
| | | | 1 | ŀ | | |

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WESTINGHOUSE ELECTRIC CORPORATION SITE SUMMARY TABLE OF VOLATILE AND SEMI-VOLATILE ORGANIC COMPOUNDS SEDIMENT SAMPLES

AREA A - FAN ROOM SUMP(S)

(Concentration Values in ug/kg - ppb)

SEDIMENT SAMPLE LOCATION WEC-SP1-S NYSDEC A55714 Soll Guidance Fan Room Sump Values * **VOLATILE ORGANIC COMPOUNDS** 1500000 D 15.75 Trichloroethene Tetrachloroethene 13000 JV 45.5 NS Total Volatiles 1513000 Total Volatile TICs 1100000 J NS SEMI-VOLATILE OFIGANIC COMPOUNDS 410 J 212.5 1.3 - Dichlorobenzene 300 J 212.5 1,4 - Dichlorobenzene 2400 212.5 1,2 - Dichlorobenzene 1150 440 J 1,2,4 - Trichtorobenzene 290 J 325.0 Naphthalene 270 J 10000 2 - Methylnaphthalene 10000 1500 J Phenanthrene 240 J 10000 Anthracene 770 J Di-n-Butylphthalate 10000 Fluoranthene 3100 10000 2800 Pyrene 69.0 Benzo(a) Anthrancene 1500 J 10000 2000 Chrysene 10.0 5200 Bis(2-Ethylhexyl)Phthalate 7000 V 275.0 Benzo(b)Fluoranthene 61.0 2600 V Benzo(a)Pyrene 30820 NS Total Semi-Volatiles 123100 J NS Total Semi-Volatile TICs PEST/PCB COMPOUNDS 13.25 12000* Aroclor - 1254

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Sample result based on manually integrated peak area due to chromatographic interference.

TABLE B-1

WESTINGHOUSE ELECTRIC CORPORATION SITE SUMMARY TABLE OF VOLATILE AND SEMI-VOLATILE ORGANIC COMPOUNDS SOIL BORING SPLIT-SPOON SAMPLES



AREA B - SUBSURFACE SOIL/BEDDING MATERIAL - STORM SEWER LINE 003 (Concentration Values in ug/kg - ppb)

| Boring Location | WEST-B-4-B A55706 | WEST-B-5-B A55707 | WEST-B-2-B A55709 | NYSDEC Soil Guidance |
|------------------------------------|----------------------|----------------------|----------------------|-------------------------|
| Depth Interval (ft.) | 0 - 7 | 0-6 | 1 - 7* | Values |
| VOLATILE ORGANIC COMPOUNDS | | | · | } |
| 1,2 Dichloroethene (Total) | ND | ND | 4 J | 45.0 |
| Trichloroethene | 2 J | ND | 180 | 15.75 |
| Toluene | 5 | ND | ND | 37.5 |
| Total Volatiles | . 7 | ND | 184 | - |
| Total Volatile TICs | ND | ND | ND | - |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | | |
| Total Semi-Volatiles | ND | ND | ND | - |
| Total Semi-Volatile TICs | 7400 J | 400 J | 1200 J | - |
| PEST/PCB COMPOUNDS | | ļ | | |
| Aroctor - 1254 | 42 J | ND | ND | 13.25 |
| | | | | |

^{*} Collected VOC sample from fill material depth interval 3 - 5 feet.

TABLE C-5



WESTINGHOUSE ELECTRIC CORPORATION SITE SUMMARY TABLE OF VOLATILE AND SEMI-VOLATILE ORGANIC COMPOUND SOIL BORING SPLIT-SPOON SAMPLES AREA C - HEAT TREATMENT/PLATING AREA

(Concentration Values in ug/kg - ppb)

| Boring Location | WEC-B31 | NYSDEC |
|------------------------------------|---------|---------------|
| | A55799 | Soil Guidance |
| Depth Interval (ft.) | 0 - 10 | Values |
| VOLATILE ORGANIC COMPOUNDS | | |
| Trichloroethene | 24 | 15.75 |
| Total Volatiles | 24 | - |
| Total Volatile TiCs | ND | - |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | |
| 4- Nitrophenol | 200 J | - |
| Pentachlorophenol | 450 J | 530 |
| Di-n-Butylphthalate | 100 J | - |
| Pyrene | 200 J | 10000 |
| Total Semi-Volatiles | 950 | - |
| Total Semi-Volatile TICs | 16830 J | + |
| | | |

TABLE D-1

WESTINGHOUSE ELECTRIC CORPORATION SITE SUMMARY TABLE OF VOLATILE AND SEMI-VOLATILE ORGANIC COMPOUNDS TEST PIT SOIL SAMPLES

AREA D - STORM SEWER LINE 003

(Concentration Values in ug/kg - ppb)

| Test Pit | WEST-TP-1-D | WEST-TP-3-D | WEST-TP-5-D | NYSDEC |
|------------------------------|-------------|-------------|-------------|---------------|
| Location | A55701 | A55702 | A55703 | Soil Guidance |
| Depth Interval (ft.) | 9 - 10 | 9 - 10 | 7 - 8 | Values |
| VOLATILE ORGANIC COMPOUNDS | | | | |
| | | | | |
| Vinyl Chloride | 24 | ND | ND | - |
| 1,1 - Dichloroethene | 9 | ND | ND | 8.1 |
| 1,2 - Dichloroethene (Total) | 22,000 D | 17 | 2 J | 45 |
| Trichloroethene | 5,100 DV | 82 | 44 | 15.75 |
| Tetrachloroethene | 14 | ND | ND | 45.5 |
| Toluene | 11 | ND | ND | 37.5 |
| Ethylbenzene | 11 | ND | ND | 137.5 |
| Xylene (Total) | 49 | ND | ND | 30 |
| Total Volatiles | 27218 | 99 | 46 | - |
| Total Volatiles TICs | t 006 | 100 J | 230 J | - |
| SEMI-VOLATILE ORGANIC | | | | |
| COMPOUNDS | | | | |
| Pentachlorophenol | ND | ND | 46 J | 530 |
| Fluoranthene | 91 J | 490 | 720 | 10000 |
| Pyrene | 61 J | 320 J | 440 | 10000 |
| Benzo(a)Anthracene | ND | 210 J | 310 J | 69 |
| Chrysene | · 49 J | 230 J | 320 J | 10000 |
| Bis(2-Ethylhexyl)Phthalate | 190 J | 1800 | 500 | 10 |
| Benzo(b)Fluoranthene | 190 J | ND | 230 J | 275 |
| Benzo(k)Fluoranthene | 150 J | ND | 220 J | 27.5 |
| Benzo(a)Pyrene | 130 J | ND | 180 J | 61 |
| Indeno(1,2,3-cd)Pyrene | 110 J | ND | 130 J | 80 |
| Dibenz(a,h)Anthrancene | ND | ND | 46 J | 14 |
| Benzo(g,h,i)Perylene | 96 J | ND | 110 J | 80 |
| Total Semi-Volatiles | 1067 | 3050 | 3252 | ļ. - |
| Total Semi-Volatile TICs | ND | ND | ND | - |
| PEST/PCB COMPOUNDS | | | | |
| 4,4 - DDD | 5.3 JV | ND | ND | 19.25 |
| Aroclor - 1254 | 71 J | 190 | 260 | 13.25 |
| | l | <u> </u> | I <u></u> | L |

TABLE E-1

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WESTINGHOUSE ELECTRIC CORPORATION SITE SUMMARY TABLE OF VOLATILE AND SEMI-VOLATILE ORGANIC COMPOUNDS SURFACE WATER SAMPLES

AREA E - STORM SEWER SYSTEM

(Concentration Values in ug/l - ppb)

| | | | ŞUR | FACE WATER LOCA | ATION | | 1 | |
|------------------------------------|------------|--------------|------------|-----------------|------------|--------------|---------------|---------|
| | WEC-S1-L | WEC-S2-L | WEC-S3-L | WEC-S4-L | WEC-S5-L | WEC-S6-L | 1 | |
| | A55719 | A55720 | A55721 | A55722 | A55723 | A55724 | | |
| | Line 001 | Outfall | Line 002 | Outfall | Line 003 | Outfall | NYS | NYSDEC |
| | MH-001-06 | 001 | MH-002-12 | 002 | MH-003-13 | 003 | Water Quality | TOGS |
| | Upgradient | Downgradient | Upgradient | Downgradient | Upgradient | Downgradient | Standards | (1.1.1) |
| VOLATILE ORGANIC COMPOUNDS | | | | | | | | |
| Methylene Chloride | 3 J | 3.J | 4 J | 3 J | 3 J | 3.1 | 5.0° | 50.0 |
| 1,2 - Dichloroethene (Total) | 38 | 7 | 8 | 4 J | 2 J | 33 | 5.0 | - |
| Chloroform | ND | 5 | 4 J | 5 | ND | 3 J | 7.0* | 50.0 |
| 1,1,1 - Trichloroethane | 41 | DN | 7 | ND | ND | 29 | 5.0* | 50.0 |
| Bromodichloromethane | ND | 2 J | 2 J | 3.1 | ND | 1 J | NS | 50.0 |
| Trichloroethene | 40 | 6 | 31 | 6 | 7 | 180 | NS | 11 |
| Tetrachloroethene | 1 J | 3 J | ND | ND | ND | ND | NS | 1.0 |
| Ethylbenzene | ND | ON | 1 J | ND | ND | ND | 5.0* | 50.0 |
| Total Xylene | ND | ND | 5 J | ND | ND | ND | 5.0* | 50.0 |
| Total Volatiles | 123 | 26 | 62 | 21 | 12 | 249 | NS | 100 |
| Total Volatile TICs | ND | ND | ND | ND | ND | ND | NS | - |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | : | × | | | | | |
| 1,2 - Dichlorobenzene | ND | ND | ND | ND | 9 J | ND | 5.0 | - |
| 2,4 - Dimethylphenol | ND | ND | 3 J | ND | ND | ND | NS | 50.0 |
| Benzoic Acid | DN | 5 J | 5 J | ND | ND | 5 J | NS | 50.0 |
| Pentachlorophenol | ND | ND | ND | 4 J | ND | ND | 0.4 | • |
| Total Semi-Volatiles | ND | 5 | 8 | 4 | 9 | 5 | NS | - |
| Total Semi-Volatile TICs | ND | ND | ND | ND | ND | ND | NS | - |

^{*} Represents Groundwater Standard (Class GA)

TABLE E-3

WESTINGHOUSE ELECTRIC CORPORATION SITE SUMMARY TABLE OF VOLATILE ORGANIC COMPOUNDS

SEDIMENT SAMPLES

AREA E - STORM SEWER SYSTEM

(Concentration Values in ug/kg - ppb)

| | | SEDIA | MENT SAMPLE LOC | ATION | | |
|------------------------------|--------------|------------|-----------------|------------|--------------|---------------|
| | WEC-S5-S | WEC-S3-S | WEC-S4-S | WEC-S5-S | WEC-S6-S | |
| | A55727 | A55730 | A55728 | A55731 | A55729 | |
| | Outfall | Line 002 | Outfall | Line 003 | Outfall | NYSDEC |
| | 001 | MH-002-12 | 002 | MH-003-13 | 003 | Soil Guidance |
| | Downgradient | Upgradient | Downgradient | Upgradient | Downgradient | Values |
| VOLATILE ORGANIC COMPOUNDS | | · | | | <u> </u> | |
| Methylene Chloride | 120 | ND | ND | ND | ND | - |
| 1,2 - Dichloroethene (Total) | 4 J | 3 J | ND | ND | 540+ | 45.0 |
| 1,1,1 - Trichloroethane | 5 JV | 6 J | ND | ND | ND | 19.0 |
| Trichloroethene | 6 JV | 16 | ND | ND | 4100 D+ | 15.75 |
| Tetrachloroethene | 4 JV | 2 J | ND | ND | 53+ | 45.5 |
| Chloroberizene | ND | ND | ND | 93+ | ND | 41.25 |
| Ethylbenzene | ND | ND | ND | 330+ | ND | 137.5 |
| Total Xylene | ND | ND | ND | 1600 E+ | 77+ | 30.0 |
| Total Volatiles | 139 | 27 | 0 | 2023 | 4770 | - |
| Total Volatile TICs | ND | ND | ND | ND | ND | - |

⁺ Out of compliance, but useable data.



TABLE I-1

WESTINGHOUSE ELECTRIC CORPORATION SITE SUMMARY TABLE OF VOLATILE AND SEMI-VOLATILE ORGANIC COMPOUNDS SOIL BORING SPLIT-SPOON SAMPLES

DRAFT

AREA I - OIL STORAGE BUILDING (Concentration Values in ug/kg - ppb)

| Boring Location | WEC-B1 | | WEC-B4 | | WEC-B5 | | WEC-B6 | | NYSDEC |
|------------------------------|------------|---------|--------|--------|---------|---------|--------|--------|---------------|
| | A 5 | 5746 | A55 | 5747 | A55 | 748 | A55 | 749 | Soil Guidance |
| Depth Interval (ft.) | 6 - 8 | 4 - 14 | 6 - 8 | 0 - 10 | 16 - 18 | 2 - 12 | 8 - 10 | 6 - 16 | Values |
| VOLATILE ORGANIC COMPOUNDS | | | | | | | | | |
| Methylene Chloride | 9 | | 27 | | 7 | | 53 | | - |
| Acetone | 24 | | 70 | | 14 | | 33 | | - |
| Carbon Disulfide | ND | | 9 | | 16 | | 9 | | 67.5 |
| 1,2 - Dichloroethene (Total) | 2 J | | ND | | 16 | | ND | | 45 |
| Chloroform | ND | | 1 J | | ND | | ND | | 5.4 |
| 2 - Butanone | 120 |] | 70 | 1 | 30 | | 21 | | _ |
| 1,1,1 - Trichloroethane | 3 J | | 4 J | | 3 J | | 11 | | 19 |
| Trichloroethene | 3 J | | ND | | 30000 D | | 29 | | 15.75 |
| Toluene | 13 | | 15 V | | 1900 D | • | 9 V | | 37.5 |
| Total Volatiles | 174 | | 196 | | 31970 | | 165 | | - |
| Total Volatile TICs | 37 J | | 120 J | | 14000 J | | 60 J | | - |
| SEMI-VOLATILE ORGANIC | | | | | | | | | |
| COMPOUNDS | | | | | | | | · | |
| 2 - Methylphenol | | ND | | ND | | 140 J | | ND | 62.5 |
| 4 - Methylphenol | | ND | | ND | | 120 J | | ND | 62.5 |
| Benzolc Acid | | 97 J | | 760 J | | ND | | ND | - |
| Diethylphthalate | | ND | | 110 J | } | ND | | ND | 177.5 |
| Phenanthrene | | ND | | 330 J | | ND | | ND | 10000 |
| Anthracene | | ND | | 81 J | | ND | | ND | 10000 |
| Di-n-Butylphthalate | | ND | | 79 J | | ND | | ND | _ |
| Fluoranthene | | ND | | 390 J | | ND | | ND | 10000 |
| Pyrene | | ND | | 640 J | | ND | | ND | 10000 |
| Benzo(a)Anthracene | | ОИ | | 470 J | | ND | | ND | 69 |
| Chrysene | | ND | | 490 J | } | ND | | ND | 10000 |
| bis (2-Ethylhexyl) Phthalate | | 140 J | | 260 J | | 440 J | | ND | 10 |
| Di-n-OctylPhthalate | | ND | | ND | | 230 J | | ND | - |
| Benzo (b) Fluoranthene | | ND | | 810 | | ND | | ND | 275 |
| Benzo (k) Fluoranthene | | ND | | 620 J | • | ND | | ND | 27.5 |
| Benzo (a) Pyrene | | ND | | 710 J |] | ND | | ND | 61 |
| Indeno (1,2,3 cd) Pyrene | | ND | | 550 J | | ND | | ND | 80 |
| Total Semi-Volatiles | | 237 | | 6300 | | 930 | | NĐ | - |
| Total Semi-Volatile TICs | | 10980 J | | 6910 J | | 17270 J | | 1870 J | |

TABLE J-1

WESTINGHOUSE ELECTRIC CORPORATION SITE SUMMARY TABLE OF VOLATILE ORGANIC COMPOUNDS SOIL BORING SPLIT-SPOON SAMPLES AREA J - UNDERGROUND SOLVENT TANK AREA

DRAFT

(Concentration Values in ug/kg - ppb)

| Boring Location | 1 | WEC-87 A55751 | | WEC-B8 A55756 | | WEC-B9 A55757 | | WEC-B10 A55758 | | -B11 755 | NYSDEC Soil Guidance |
|------------------------------|---------|------------------|---------|------------------|-------|------------------|--------|-------------------|--------|-------------|-------------------------|
| Depth Interval (ft.) | 2-4 | 0 - 10 | 2-4 · | 0 - 10 | 2-4 | 2 - 12 | 4 - 6 | 4 - 14 | 8 - 10 | 6 - 16 | Values |
| VOLATILE ORGANIC COMPOUND | os l | | | | | | | | | | |
| Vinyl Chloride | ND | · | 42 | | ND | | ND | | ND | | - |
| Methylene Chloride | 250 | | 12 | | 37 | | 21 | | 38 | | • |
| Acetone | 210 | | 19 | | ND | | ND | | 11 | : | - |
| Carbon Disulfide | 76 | | 8 | | 5 J | | 6 J | | 4 J | | 67.5 |
| 1,1 - Dichloroethene | 330 | | ND | | ND | | ND | | ND | | 8.1 |
| 1,1 - Dichloroethane | 480 | | ND | | ND | | ND | | ND | | 3.75 |
| 1,2 - Dichloroethene (Total) | 71 | | 160 | | ND | | ND | | 2 J | | 45 |
| Chloroform | ND | | 2 J | | 2 J | | ND | | 2 J | | 5.4 |
| 2 - Butanone | 250 | | 6J | | ND | | ND | | 4 J | | - |
| 1,1,1 - Trichloroethane | 6000 D | | ND | | 6 J | | 4 J | | ND | | 19 |
| Trichlaroethene | 240 | | 2200 | | ND | | ND | | 3 J | | 15.75 |
| 1,1,2 - Trichloroethane | 20 J | | ND | | ND | | ND | | ND | | 7.0 |
| 4 - Methyl - 2- Pentanone | ND | | 2 J | | ND | | ND | | ND | | - |
| Tetrachloroethene | 20 J | | ND . | | ND | | 8 | | ND | | 45.5 |
| Toluene | 1900 D | | 74 | | 2 J | | ND | | 2 J | | 37.5 |
| Chlorobenzene | ND | | 38 | | 4 J | | ND | | ND | | 41.25 |
| Ethylbenzene | 490 | | 75 | | 35 | | 42 | | ND | | 137,5 |
| Xylene (Total) | 4000 E | | 5000 | | 55 | | 61 | | ND | | 30 |
| Total Volatiles | 14337 | | 7638 | | 146 | | 142 | | 66 | | - |
| Total Volatile TICs | 12800 J | | 22800 J | | 243 J | | 1585 J | | 25 J | | - |

TABLE K-1



WESTINGHOUSE ELECTRIC CORPORATION SITE SUMMARY TABLE OF VOLATILE AND SEMI-VOLATILE ORGANIC COMPOUNDS SOIL BORING SPLIT-SPOON SAMPLES

AREA K - HAZARDOUS WASTE STORAGE AREA

(Concentration Values in ug/kg - ppb)

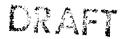
| Boring Location | | C-B12 | | -B13 | ! | C-B14 | | ≻B15 | NYSDEC | |
|------------------------------|---------|---------|-------|--------|---------|--------|--------|--------|---------------|--|
| | | 760 | A55 | 762 | A55 | 764 | | 768 | Soil Guidance | |
| Depth Interval (ft.) | 10 - 12 | 6 - 16 | 6 - 8 | 0 - 10 | 10 - 12 | 2 - 12 | 8 - 10 | 0 - 10 | Values | |
| VOLATILE ORGANIC COMPOUNDS | | | | | | : | | | | |
| Methylene Chloride | 33 | | 22 | | 22 | | ND | | - | |
| Carbon Disulfide | 4 J | | 10 | | 4 J | | ND | | 67.5 | |
| 1,1 - Dichloroethene | ND | | 4 J | | ND | | ND | | 8.1 | |
| 1,1 - Dichloroethane | ND | | 19 | | 5 J | | ND | | 3.75 | |
| 1,2 - Dichloroethene (Total) | ND | | 6 J | | ND | | ND | | 45 | |
| Chloroform | 1 J | | ND | | ND | | ND | | 5.4 | |
| 1,1,1 - Trichloroethane | 3 J | | 36 | | 5 J | ' | ND | | 19 | |
| Trichloroethene | ND | | 4 J | | 29 | | ND | | 15.75 | |
| Benzene | 1 J | | ND | | 9 | | ND | | 1.5 | |
| 4 - Methyl - 2 - Butanone | 2 J | | ND | , | ND | | ND | | . | |
| Tetrachloroethene | ND | | 76 | | ND | | ND | | 45.5 | |
| Toluene | 3 J | · | 3 J | | 6 | | 2 J | | 37.5 | |
| Ethylbenzene | ND | | 28 | | 3 J | | ND | | 137.5 | |
| Styrene | ND | | ND | | ND | | ND | | - | |
| Xylene (Total) | ND | | 39 | | 5 J | | ND | | 30 | |
| Total Volatiles | 47 | | 247 | | . 88 | | 2 | | - | |
| Total Volatile TICs | 26 J | | 47 J | | 383 J | | ND | | - | |
| SEMI-VOLATILE ORGANIC | | | | | | | | | | |
| COMPOUNDS | | | - | | | | | | ! | |
| Fluoranthene | | ND | | ND | | 85 J | | ND | 10000 | |
| Pyrene | | ND | | ND | | 100 J | | ND | 10000 | |
| bis(2-Ethylhexyl)Phthalate | | ND | | ND | | 300 J | | ND | 10 | |
| Total Semi-Volatiles | | ND | | ND | | 485 | | ND | - | |
| Total Semi-Volatile TICs | | 20260 J | | 5270 J | | 7520 J | | 2770 J | - | |

TABLE P-1

WESTINGHOUSE ELECTRIC CORPORATION SITE SUMMARY TABLE OF VOLATILE ORGANIC COMPOUNDS SOIL BORING/TEST TRENCH SAMPLES

AREA P - FLYING TIGER'S AREA (Concentration Values in ug/kg - ppb)

| Boring/Test Trench | WEC-B25 | WEC | -B26 | WEC | -B27 | WEC | -B28 | WEC-B | -28-DUP | WEC-B29 | WEC-TP39 | NYSDEC | |
|------------------------------|---------|-------|--------|-------|--------|-----------|--------|---|---------|---------|----------|---------------|--|
| Location | A55789 | A55 | 790 | A55 | 792 | A55 | 793 | A55 | 796 | A55794 | A55787 | Soil Guidance | |
| Depth Interval (ft.) | 0 - 10 | 4 - 6 | 0 - 10 | 4 - 6 | 0 - 10 | 4 - 6 | 0 - 10 | 4 - 6 | 0 - 10 | 0 - 10 | 4 - 5 | Values | |
| VOLATILE ORGANIC COMPOUNDS | | | | | | | | | _ | | | | |
| Vinyl Chloride | ND | ND | | ND | | 29 V | | \ \vec{V} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | ND | ND | - | |
| Methylene Chloride | 17 | 8.0 | | 30 V | | 9 V | | 7 7 | 1 | 5 J | 25 V | - | |
| Carbon Disulfide | 3 J | 2 J | | 5 JV | | 3 JV | | 3 JV | ł | 2 J | 6 JV | 67.5 | |
| 1,2 - Dichlorcethene (Total) | ND | ND | | 26 V | | 4 JV | | 3 J | | ND | ND | 45.0 | |
| 2 - Butanone | 11 J | 5 J | | ND | | 13 V | | 13 V | | ND | 55 V | - | |
| 1,1,1 - Trichloroethane | 19 | 12 | | 23 V | | 15 V | | 12 V | | 4 J | 170 V | 19.0 | |
| Vinyl Acetate | ND | 1 J | | ND | | ND | | ND | | ND | ND | - | |
| Trichloroethene | 3 J | ND | | 12 V | | 3 JV | | ND | | ND | 23 V | 15.75 | |
| Benzene | 1 J | ND | | ND | | 3 JV | | 1 JV | | ND | 5 JV | 1.5 | |
| 4 - Methyl - 2 - Pentanone | 3 J | ND | | ND | | 98 V | | ND | | ND | 45 V | - | |
| 2 - Hexanone | ND | ND | | ND | | 490 E | | ND | l | ND | ND | • | |
| Toluene | 12 | 2 J | | 43 V | | 6100 D | | 930 D | | 19 | 65 V | 37.5 | |
| Ethylbenzene | ND | ND · | | ND | | 1300 D | | 140 V | | 1 J | ND | 137.5 | |
| Styrene | 2 J | ND | | ND | | ND | | ND | | ND | ND | • | |
| Xylene (Total) | ND | ND | | 5 JV | | 9300 D | | 740 D | | 4 J | ND | 30.0 | |
| Total Volatiles | 71 | 30 | | 144 | | 17367 | | 1846 | | 35 | 394 | - | |
| Total Volatile TICs | 70 J | 530 J | | 456 J | | 1270000 J | | 2598 J | | 170 J | 5110 J | | |



WESTINGHOUSE ELECTRIC CORPORATION SITE SUMMARY TABLE OF VOLATILE AND SEMI-VOLATILE ORGANIC COMPOUNDS TEST PIT SOIL SAMPLES



AREA Q - RAILROAD TRACK AREA (Concentration Values in ug/kg - ppb)

| Test Pit | WEC-TP15 | WEC-TP18 | WEC-TP19 | WEC-TP22 | WEC-TP24 | WEC-TP40 | NYSDEC |
|------------------------------|---------------|----------|----------|----------|----------|----------|---------------|
| Location | A55763 | A55765 | A55766 | A55767 | A55770 | A55788 | Soil Guidance |
| Depth Interval (ft.) | 7 | 1 - 2 | 3 - 4 | 1 - 2 | 1 - 4 | 4 - 5 | Values |
| VOLATILE ORGANIC COMPOUNDS | | 1 | | | | | |
| | | } | | | ļ | 1 | 1 |
| Vinyl Chloride | ND | ND | 100 V | ND | ND | ND | - |
| Chloroethane | ND | ND | 38 V | ND | ND | ND | - |
| Methylene Chloride | 21 | 22 | 48 V | `17 B | ND | 10 | - |
| Acetone | ND | ND | 150 BV | ND | ND | ND | - |
| Carbon Disulfide | 4 J | 4 J | 4 JV | 2 J | ND | 2 J | 67.5 |
| 1,1 - Dichloroethene | ND | ND | 5 JV | ND | ND | ND | 8.1 |
| 1,2 - Dichloroethene (Total) | 2 J | ND | 180 D | 6J | ND | 11 | 45.0 |
| Chloroform | ND | ND | 1 JV | ND | ND | ND | 5.4 |
| 2 - Butanone | ND | ND | ND | ND | DИ | 7 J | - |
| 1,1,1 - Trichloroethane | 4 J | 5 J | 4 JV | 1 J | ND | 13 | 19.0 |
| Trichloroethene | 12000 D | 12 | 700 D | 5 J | ND | 840 D | 15.75 |
| Tetrachloroethene | 36 | ND | ND | ND | ND | 7.0 | 45.5 |
| Toluene | 110 | 6.0 | 5 JV | 2 J | ND | 46 | 37.5 |
| Ethylbenzene | 51 | ND | ND | ND | ND | ND | 137.5 |
| Xylene (Total) | 190 | ND | ND | ND ND | 2 J | ND | 30.0 |
| i i i | | | | | | | |
| Total Volatiles | 12418 | 49 | 1235 | 33 | 2 | 936 | - |
| Total Volatile TICs | 4000 J | 46 J | 120 J | ND | ND | 600 J | - |
| | | | | ļ | | | |
| SEMI-VOLATILE ORGANIC | | | [| ĺ | 1 | | [|
| _ COMPOUNDS | | | | | | | |
| | | ļ | ļ | | | ļ | ļ |
| Benzoic Acid | ND | ND | ND | 250 J | ND | ND | |
| Phenanthrene | 580 J | ND | ND | 110 J | ND | ND | 10000 |
| Anthracene | 130 J | ND | ND | ND | ND | ND | 10000 |
| Di-n-Butylphthalate | ND | ND | ND | 99 J | ND | ND | - |
| Fluoranthene | 1400 | ND | ND | 190 J | ND | ND | 10000 |
| Pyrene | 1400 | ND | ND | 150 J | ND | ND | 10000 |
| Benzo(a)Anthracene | 690 J | ND | ND | 100 J | ND | ND | 69.0 |
| Chrysene | 690 J | ND | ND | 120 J | ND | ND | 10000 |
| bis(2-Ethylhexyl)Phthalate | 360 J | 340 J | ND | 220 J | 120 J | 660 J | 10.0 |
| Benzo(b)Fluoranthene | 690 J | ND | ND | 100 J | ND | ND | 275 |
| Benzo(k)Fluoranthene | 72 0 J | , ND | ND | 100 J | ND | ND | 27.5 |
| Benzo(a)Pyrene | 630 J | ND | ND | 99 J | ND | ND | 61.0 |
|] ''' | | · | | | | | |
| Total Semi-Volatiles | 7290 | 340 | ND | 1538 | 120 | 660 | - |
| Total Semi-Volatile TICs | 4360 J | 2480 J | 3450 J | 10470 J | 1120 J | ND | |

TABLE S-1

WESTINGHOUSE ELECTRIC CORPORATION SITE SUMMARY TABLE OF VOLATILE ORGANIC COMPOUNDS FOR GROUND WATER: AREA S

(Concentration Values in ug/l - ppb)

| | $\overline{}$ | MONTOPINO MELLICOATIONE | | | | | | | | | Weather | 0101000 | 1047005 | 4010/055 | 4000000 |
|------------------------------|---------------|-------------------------|-----------|---------|---------------------------|--------|--------|----------|----------|--------|---------|--------------|--------------|----------|----------|
| | <u> </u> | 1000 | have pro- | | MONITORING WELL LOCATIONS | | | | | | | 6NYCRR | NY TOGS | 10NYCRR | 10NYCAR |
| | MW-1 | MW-2 | MW-2 DUP | MW-3 | MW-4 | MW-5 | MW-6 | MW-7 | MW-8 | MW-9 | Station | Part 703 | (1.1.1) | Part 5 | Part 170 |
| | A55733 | A55739 | A55742 | A55738 | A55734 | A55735 | A55740 | A55818 | A55819 | A55813 | A55741 | Standard | Guidance | Standard | Standard |
| VOLATILE ORGANIC | | } | | | | | | 1 | , | | | | | | |
| COMPOUNDS | | | ĺ | | | | | | | | | | | | |
| Vinyl Chloride | ND | ND | ND | ND | ND | ND | ND | 350 | 2500 | ND | ND | 2.0 | - | 2.0 | - |
| Methylene Chloride | ND | 4.0 JV | 4.0 JV | 4 J | ND | ND | ND | 12 J | ND | ND | ND | 5.0 | j - | 5.0 | - |
| Acetone | ND | ND | VL E | 19.0 DJ | ND | ND | ND | 180 B | 390 B | ND | ND | _ | _ | 50 | - |
| 1,1 - Dichloroethene | ND | 110 V | 100 V | ND | ПD | ND | ND | 41 J | 54 J | ND | ND | 5.0 | - | 5.0 | - |
| 1,1 - Dichloroethane | ND | ND | ND | ND | ND | ND | ND | 1800 | ND | ND | ND | 5.0 | - | 5.0 | - |
| 1,2 - Dichloroethene (Total) | ND ! | ND | ND | 100 | ND | ND | ND | 6300 D | 15000 BD | ND | ND | 5.0 | i - 1 | 5.0 | - |
| 2 - Butanone | ND | ND | ND | ND | ND | ND | ND | 150 B | 490 | ND | ND | - | 50 | - | - |
| 1,1,1 - Trichloroethane | ND | 4 JV | 3 J | ND | ND | ND | ND | 100 | ND | ND | ND | 5.0 | - | 5.0 | - |
| Vinyl Acetate | ND | ND | ND | ND | ND | ND | ND | ND | 40 BJ | ND | ND | - | - | 50 | - |
| Trichloroethene | ND | ND | ND | 600 DV | ND | ND | ND | 28000 BD | 1700 | ND | ND | 5.0 | - | 5.0 | - |
| Benzene | 11 | ND | ND | 5.0 | ND | ND | ND | ND | ND | ND | ND | ND | - | 5.0 | - |
| 4 - Methyl - 2 - Pentanone | 1 J | ND | ND | ND | ND | ND | ND | 27 J | ND | ND | ND | - | 50 | - | - |
| Tetrachloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 5.0 | i - 1 | 5.0 | - |
| 1,1,2,2 - Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | 33 BJ | ND | ND | 5.0 | - | 5.0 | - |
| Toluene | ND | ND | ND | ND | ND | ND | ND | 1200 | ND | ND | ND | 5.0 | - | 5.0 | - |
| Chlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | 27 | ND | 5.0 | - | 5.0 | - |
| Ethylbenzene | 2 J | ND | ND | ND | ND | ND | ND | ND | ND | 44 | ND | 5.0 | - | 5.0 | - |
| Styrene | 2 J | ND | ND | ND | ND | ND | ND | ND | 31 BJ | ND | ND | 5.0 | - | 5.0 | - |
| Total Xylenes | ND | ND | ND | ND | ND | ND | NĐ | ND | 66 BJ | 15 | ND | 5.0 | - | 5.0 | - |
| Total Volatiles | 16 | 123 | 118 | 869 | ND | 8 | ND | 38160 | 20304 | 86 | ND | - | 100 | - | - |
| Total Volatile TICs | 10 J | 5.7 JV | 5.1 JV | ND | ND | ND | ND | ND | ND | ND | ND | - | - | | - |
| | | | | | | | | ļ | | | | | | | |

TABLE S-1 (CONTINUED)

WESTINGHOUSE ELECTRIC CORPORATION SITE SUMMARY TABLE OF VOLATILE ORGANIC COMPOUNDS FOR GROUND WATER: AREA S

(Concentration Values in ug/l - ppb)

| | | MONITORING WELL LOCATIONS | | | | | | | 6NYCRR | NY TOGS | 10NYCRR | 10NYCRR | | |
|------------------------------|--------|---------------------------|--------|--------|--------|--------|--------|--------|-----------|---------|----------|----------|----------|----------|
| | MW-10 | MW-11 | MW-12 | MW-13 | MW-14 | MW-15 | MW-16 | MW-17 | MW-17 DUP | MW-18 | Part 703 | (1.1.1) | Part 5 | Part 170 |
| | A55815 | A55820 | A55810 | A55821 | A55814 | A55809 | A55806 | A55808 | A55811 | A55823 | Standard | Guidance | Standard | Standard |
| VOLATILE ORGANIC | | | | | | | | | | | | | | |
| COMPOUNDS | | | | | | | | | ľ | | | | | |
| | | | | | | | | | | | | | | |
| Vinyl Chloride | 4 J | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.0 | - | 2.0 | - |
| Methylene Chloride | 4 J | 5 | ND | 6 | ND | ND | ND | ND | ND | ND | 5.0 | - | 5.0 | - |
| Acetone | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | - | - | 50 | - |
| 1,1 - Dichloroethene | 200 D | ND | ND | ND | ND | ND | ND | ND | ND | ND | 5.0 | - | 5.0 | - |
| 1,1 - Dichloroethane | 680 D | ND | ND | ND | ND | ND | ND | ND | ND | NĐ | 5.0 | - | 5.0 | - |
| 1,2 - Dichloroethene (Total) | 19 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 5.0 | - | 5.0 | - [|
| 2 - Butanone | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | - | 50 | - | - |
| 1,1,1 - Trichloroethane | 1400 D | ND | ND | ND | ND | ND | ND | ND | ND | ND | 5.0 | - | 5.0 | - |
| Vinyl Acetate | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | - | - | 50 | - |
| Trichloroethene | 7 | 8 | ND | ND | ND | ND | 58000 | ND | ND | 1 J | 5.0 | - | 5.0 | - |
| Benzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | - | 5.0 | - |
| 4 - Methyl - 2 - Pentanone | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | - | 50 | - | - 1 |
| Tetrachloroethene | 160 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 5.0 | - | 5.0 | - |
| 1,1,2,2 - Tetrachloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 5.0 | - 1 | 5.0 | - |
| Toluene | ΝD | ND | ND | ND | ND | ND | ND | ND | ND | ND | 5.0 | | 5.0 | - |
| Chlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 5.0 | - | 5.0 | - |
| Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 5.0 | - | 5.0 | - |
| Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 5.0 | - | 5.0 | - |
| Total Xylenes | ND | ND | ND | ND | ND: | ND | ND | ND | ND | ND | 5.0 | - | 5.0 | - } |
| | | | | | | | | | | | | | | |
| Total Volatiles | 2498 | 13 | ND | 6 | ND | ND | 58000 | ND | ND | 1 | - | 100 | - | - } |
| | | i | | | | | | | | | | | | |
| Total Volatile TICs | ND | 6.1 J | ND | 5.4 J | ND | ND | ND | ND | ND | ND | - | - | - | - 1 |
| | | | | | | | | | | | | | | |
| | | | | L | | | | | | | L | | | |

TABLE 4-1

EXPLANATION OF QUALIFIERS FOR ORGANIC COMPOUND ANALYTICAL RESULTS

- U Indicates that the compound was analyzed for but not detected at or above the detection limit.
- J Indicates that the compound was analyzed for and determined to be present in the sample. The mass spectrum of the compound meets the identification criteria of the method. The concentration listed is an estimated value, which is less than the specified quantitation limit but is greater than zero.
- B The analyte is found in the blanks as well as the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of this analyte.
- C Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.
- K This is a common laboratory contaminant, where the sample result was less than 10 times the associated blank value. The original sample was revised to the Contract Required Quantitation Limit (CRQL)/laboratory reporting limit and qualified with a "U".
- L The parameter is not a common laboratory contaminant, but was in the sample result as less than five times the blank result. The original sample result was revised to the CRQL/laboratory reporting limit and qualified with a "U".
- N Indicates that the compound was analyzed for but not requested as an analyte. Value will not be listed on tabular result sheet.
- NA Not analyzed
- ND Not detected
- NS A clean-up standard has not been determined.
- M Matrix spike compound.
- V Reported value is estimated due to variance from quality control limits.
- R Reported value is unusable and rejected due to variance from quality control limits.
- E Reported value is estimated due to the presence of matrix interference.
- D Reported result taken from diluted sample analysis.
- A Aldol condensation product.

TABLE 4-2

EXPLANATION OF QUALIFIERS FOR INORGANIC ANALYTE RESULTS

- U Indicates analyte result less than Instrument Detection Limit (IDL).
- B Indicates analyte result between IDL and CRDL.
- V Reported value is estimated due to variance from quality control limits identified during data validation procedures.
- E Reported value is estimated because of the presence of interference.
- R Reported value is unusable and rejected due to variance from quality control limits.
- K Since this is a common laboratory contaminant, EPA guidelines suggest this data revision whenever the sample is less than 10 times the associated blank value. The original sample result was revised to the CRDL/laboratory reporting limit and qualified with a "U".
- L Although the parameter is not a common laboratory contaminant, EPA guidelines suggest that if the sample result is less than five time the blank result this data revision is appropriate. The original sample result was revised to the CRDL/laboratory reporting limit and qualified with a "U".
- M Duplicate injection precision not met.
- N Spiked sample recovery not within control limits.
- NA Not analyzed
- ND Not detected
- NS A clean-up standard has not been determined.
- S The reported value was determined by the Method of Standard Additions (MSA).
- W Post-digest spike recovery furnace analysis was out of 85 125 percent control limit, while sample absorbance was less than 50 percent of spike absorbance.
- * Duplicate analysis not within control limit.
- + Correlation coefficient for MSA is less than 0.995.

TABLE 4-3

SOURCES OF STANDARDS/GUIDELINE VALUES APPEARING ON ANALYTICAL SUMMARY TABLES

- 6NYCRR Part 703 Standards obtained from the New York State Official Compilation of Codes, Rules and Regulations, Title 6, Chapter X Part 703, (revised 1990). "Water Quality Regulations: Surface Water and Groundwater Classification and Standards" September 25, 1990.
- NY TOGS (1.1.1) Guidance Guidance values obtained from the New York State Division of Water Technical Operations Guidance Series (1.1.1) September 24, 1990.
- 10NYCRR Part 5 Standards obtained from the New York State Official Compilation of Codes, Rules and Regulations Title 10, Part 5 NYSDOH Maximum Contaminant Levels for Public Water Supplies.
- 10NYCRR Part 170 Standards obtained from the New York State Official Compilation of Codes, Rules and Regulations, Title 10, Part 170 NYSDOH Standard for Sources of Water Supply.
- NYSDEC Soil Guidance Values are based on the Water Soil Partition Model.

The model predicts the maximum contaminant concentration which is allowed in soil such that if the soil were to be exposed to the groundwater, it would not leach in excess of the groundwater standards. It is based on the soil sorption coefficient between water and soil and the fraction of organic matter in the soil. There is a direct relationship between the organic matter in soils and their capacity to sorb most organic chemicals.

Using the equation below, the maximum soil concentration can be determined for a contaminant given the values for the fraction of organic matter in the soil, the contaminant's partition coefficient, and the contaminant's groundwater or drinking water standard.

 $Cs = f \times Koc \times Cw$

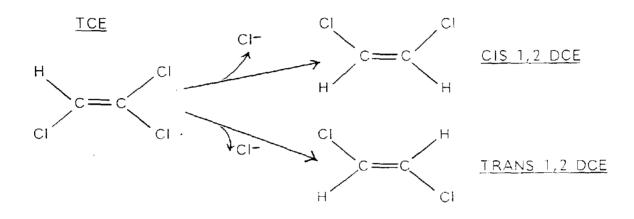
where: Cs = allowable concentration in the soil

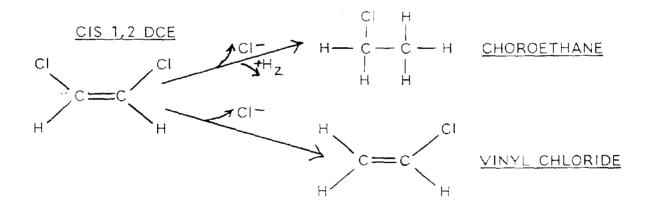
f = fraction of the total organic matter (TOC) in the soil. (A value of 2.5% was used as a conservative estimate.)

Koc = partition coefficient between water and soil

Cw = allowable groundwater/drinking water standard (whichever is more stringent)

TRANSFORMATIONS OF TETRACHLOROETHYLENE





$$C = C \xrightarrow{H} CI \xrightarrow{CI} C = C \xrightarrow{VINYL CHLORID}$$



New York State Department of Environmental Conservation

MEMORANDUM

TO: FROM: File

SUBJECT:

Mark P. Mateunas, P.E., EIS, BHSC, DHWR
Westinghouse Electric Corporation, Cheektowaga(T), Erie County

Site No. 915066 - Classification Justification

DATE:

July 12, 1991

By using the criteria set forth in the September 14, 1990 draft Division Technical and Administrative Guidance Memorandum (TAGM), Guidance for Classifying Class 1 and 2 Inactive Hazardous Waste Disposal Sites, the determination of the presence of hazardous waste and significant threat can be demonstrated for the above-referenced site.

Hazardous Waste Criteria

Listed hazardous waste under Article 27, Title 9 - show presence by documentation, analytical data or combination of both, reference 6NYCRR Part 371.4a-e.

The analytical data show the following hazardous wastes to be present on-site: tetrachloroethene (U210), trichloroethene (U228), 1,2-dichloroethene (U079), vinyl chloride (U043), and 1,1,1-trichloroethane (U226).

Significant Threat Criteria

The release of contaminants which results in the contravention of ambient groundwater standards set by the Division of Water.

The following hazardous wastes were found in the groundwater sampling results, all in violation of 6NYCRR Part 703:

| tetrachloroethene | | | 160 | ppb | (5 | ppb) |
|-----------------------|-----|---|--------|-----|----|------|
| trichloroethene | 7 | - | 58,000 | ppb | (5 | ppb) |
| 1,2-dichloroethene | 19 | - | 15,000 | ppb | (5 | ppb) |
| vinyl chloride | 350 | - | 2,500 | ppb | (2 | ppb) |
| 1,1,1-trichloroethane | 100 | _ | 1,400 | ppb | (5 | ppb) |

The release of contaminants which will result in contamination of soil/sediment that will likely result in migration of contaminants to surface or ground waters or otherwise adversely impact upon the environment or public health through direct contact as determined by the Departments of Health or Environmental Conservation.

The following areas demonstrate the contamination of soil migrating to groundwater:

!

- In Area G, the soil sample taken at boring B-5 shows trichloroethene at 30,000 ppb. The groundwater sample taken at monitoring well MW-7 (B-5) shows trichloroethene at 28,000 ppb, 1,2-dichloroethene at 6,300 ppb and vinyl chloride at 350 ppb.
- In Area J, the soil sample taken at boring B-7 shows trichloroethene at 240 ppb and 1,2-dichloroethene at 71 ppb and the soil sample taken at boring B-8 shows trichloroethene at 2,200 ppb and 1,2-dichloroethene at 160 ppb. The groundwater sample taken at monitoring well MW-8 (B-8) shows 1,2-dichloroethene at 5,000 ppb and vinyl chloride at 2,500 ppb.
- In Area K, the soil sample taken at boring B-14 shows trichloroethene at 29 ppb and the soil sample taken at B-13 shows tetrachloroethene at 76 ppb and 1,1,1-trichloroethane at 36 ppb. The groundwater sample taken at monitoring well MW-10 (B-13) shows tetrachloroethene at 160 ppb, trichloroethene at 7 ppb, 1,2-dichloroethene 19 ppb and 1,1,1-trichloroethane at 1,400 ppb.

The following demonstrates the contamination of sediments migrating to surface water.

In Area A, the sediment sample taken at the fan room sump shows tetrachloroethene at 13,000 ppb and trichloroethene at 1,500,000 ppb. The surface water sample at the fan room sump shows trichloroethene at 17,000 ppb.

The following demonstrates the possibility of off-site contamination by surface water migration.

The surface water sample taken at manhole MH-001-06 shows trichloroethene at 40 ppb, 1,2-dichloroethene at 38 pb and 1,1,1-trichloroethane at 41 ppb. MH-001-06 drains into Outfall 001. The surface water sample taken at Outfall 001 shows 1,2-dichloroethene at 7 ppb.

The fan room sump was formerly connected to Storm Sewer Line 003. The surface water sample taken at the fan room sump shows trichloroethene at 17,000 ppb and the sediment sample taken at the fan room sump shows tetrachloroethene at 13,000 ppb and trichloroethene at 1,500,000 ppb. The surface water sample taken at Outfall 003 shows trichloroethene at 180 ppb, 1,2-dichloroethene at 33 ppb and 1,1,1-trichloroethane at 29 ppb and the sediment sample at Outfall 003 shows tetrachloroethene at 53 ppb, trichloroethene at 4,100 ppb and 1,2-dichloroethene at 540 ppb. Soil samples taken along the

sewer line running from the building toward Outfall 003 show trichloroethene at 5,100 ppb and 1,2-dichloroethene at 2,200 ppb; trichloroethene at 82 ppb; and trichloroethene at 44 ppb, respectively.

By definition, a Class 2 inactive waste disposal site requires the presence of hazardous waste coupled with a significant threat to the public health or the environment. At this site we have both the presence of hazardous waste and a significant threat to the environment. I recommend that this site be classified a Class 2.

New York State Department of Environmental Conservation 50 Wolf Road, Albany, New York 12233



CERTIFIED MAIL RETURN RECEIPT REQUESTED

Buffalo Airport Center Associates 4454 Genesee Street Cheektowaga, NY 14225 JUL 16 1991

Dear Ladies/Gentlemen:

As mandated by Section 27-1305 of the Environmental Conservation Law (ECL), copy enclosed, the New York State Department of Environmental Conservation (NYSDEC) must maintain a registry of all inactive disposal sites suspected or known to contain hazardous wastes. The ECL also mandates that this Department notify, by certified mail, the owner of all or any part of each site or area included in the Registry of Inactive Hazardous Waste Disposal Sites.

Our records indicate that you are the owner or part owner of the site listed below. Therefore, this letter constitutes notification of the inclusion of such site in the Registry of Inactive Hazardous Waste Disposal Sites in New York State.

DEC Site No.: 915066

Site Name: Westinghouse Electric Corp.

Site Address: 4454 Genessee Street, Cheektowaga, New York 14225

Site Classification: 2

The reason is as follows: Documented disposal of tetrachloroethene, trichloroethene and 1,1,1-trichlorethane in groundwater at concentrations exceeding published groundwater standards.

Enclosed is a copy of the New York State Department of Environmental Conservation, Division of Hazardous Waste Remediation, Inactive Hazardous Waste Disposal Site Report form as it appears in the Registry and Annual Report, and an explanation of the site classifications. The Law allows the owner and/or operator of a site listed in the Registry to petition the Commissioner of the New York State Department of Environmental Conservation for deletion of such site, modification of site classification, or modification of any information regarding such site, by submitting a written statement setting forth the grounds of the petition. Such petition may be addressed to:

Mr. Thomas C. Jorling Commissioner New York State Department of Environmental Conservation 50 Wolf Road Albany, New York 12233-1010 For additional information, please contact me, at (518) 457-0747.

Sincerely,

Robert L. Marino

Chief

Site Control Section

Bureau of Hazardous Site Control

Division of Hazardous Waste Remediation

Enclosures