

**FMC CORPORATION
PEROXYGEN CHEMICALS DIVISION
TONAWANDA, NEW YORK SITE
SITE NO. 915025**

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TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
EXECUTIVE SUMMARY.....	ES-1
1.0 INTRODUCTION	1-1
2.0 OBJECTIVES.....	2-1
3.0 BACKGROUND.....	3-1
3.1 SETTING.....	3-1
3.2 RESULTS OF 1994 PSA PREVIOUS INVESTIGATION.....	3-2
4.0 ADDITIONAL INVESTIGATION.....	4-1
4.1 SCOPE OF WORK	4-1
4.2 METHODS	4-3
4.3 FIELD OBSERVATIONS.....	4-4
4.4 ANALYTICAL RESULTS.....	4-5
4.4.1 Subsurface Soil	4-5
4.4.2 Surface Soil	4-6
4.5 CONCLUSIONS AND RECOMMENDATIONS - ADDITIONAL INVESTIGATION	4-7
5.0 REMEDIAL MEASURES	5-1
5.1 SCOPE OF WORK	5-2
5.1.1 Excavation.....	5-2
5.1.2 Post-Excavation Sampling.....	5-3
5.1.3 Additional Surface Soil Sampling	5-4
5.1.4 Soil Staging and Disposal.....	5-5
5.1.5 Backfill	5-5
5.2 RESULTS	5-6
5.3 SOIL VOLUME AND DISPOSAL RECORDS.....	5-6
5.4 BACKFILL AND COVER.....	5-7
6.0 CONCLUSIONS AND RECOMMENDATIONS	6-1

TABLE OF CONTENTS (Continued)

<u>Section</u>	<u>Page</u>
7.0 CERTIFICATION	7-1

LIST OF TABLES

TABLE 4-1	SOIL BORING AND SURFACE SOIL GRID SAMPLE PCB RESULTS - ADDITIONAL INVESTIGATION
TABLE 5-1	FIELD/LABORATORY PCB RESULTS - REMEDIAL MEASURES
TABLE 5-2	SURFACE AND SUBSURFACE COMMERCIAL LABORATORY PCB RESULTS - REMEDIAL MEASURES

LIST OF FIGURES

FIGURE 3-1	SITE LOCATION MAP
FIGURE 3-2	POTENTIAL SURFACE WATER RUN-OFF PATHWAYS
FIGURE 4-1	BORING LOCATION GRID - ADDITIONAL INVESTIGATION
FIGURE 4-2	SUBSURFACE PCB RESULTS - ADDITIONAL INVESTIGATION
FIGURE 4-3	SURFACE/SUBSURFACE PCB RESULTS IN LOCATION A AND D AND POTENTIAL EXCAVATION SCENARIOS - ADDITIONAL INVESTIGATION
FIGURE 5-1	LOCATION A EXCAVATION SEQUENCE AND SURFACES REMOVED
FIGURE 5-2	LOCATION D EXCAVATION SEQUENCE AND SURFACES REMOVED

LIST OF APPENDICES

APPENDIX A	SOIL BORING LOGS - ADDITIONAL INVESTIGATION
APPENDIX B	LABORATORY DATA SUMMARY FORMS - ADDITIONAL INVESTIGATION
APPENDIX C	DATA QUALITY REVIEW - ADDITIONAL INVESTIGATION
APPENDIX D	LABORATORY DATA SUMMARY FORMS - REMEDIAL MEASURES
APPENDIX E	DATA QUALITY REVIEW - REMEDIAL MEASURES
APPENDIX F	WASTE MANIFESTS - REMEDIAL MEASURES
APPENDIX G	DOCUMENTATION ON SOURCES OF BACKFILL MATERIAL

EXECUTIVE SUMMARY

FMC Corporation (FMC) has entered into an Order on Consent (Index #B9-0431-93-06), effective November 22, 1993, with the New York State Department of Environmental Conservation (NYSDEC) to perform a Preliminary Site Assessment (PSA) at FMC's Peroxygen Chemicals Division manufacturing facility located at 37 Sawyer Avenue in Tonawanda, New York (NYSDEC Site No. 915025). Approximately 100 tons of plant waste materials were reportedly disposed of over a twelve year period (from 1964 to 1976) in two to four pits located along the southwestern portion of the plant property. Woodward-Clyde Consultants (WCC) was retained to assist FMC in performance of the PSA.

Commencing with the January 1994 Records Search, investigatory work consistent with the requirements of the Order have been conducted by FMC. Investigative field work has included two phases of sampling and analysis. The first phase conducted in September 1994 as part of the initial PSA investigation concluded that:

1. Evidence of disposal of plant manufacturing waste was limited to two small areas, identified as Locations A and D on Site-1.
2. No samples collected during the initial PSA field work exhibited any hazardous waste characteristics. Field tests indicated that oxidizers, the primary plant waste, were not present, confirming that disposed oxidizing materials had decomposed into innocuous salts.
3. PCBs were detected in waste samples collected from test pits at Locations A and D. The PCB concentration from the waste sample from Location A at 16,000 ppm was above the New York hazardous waste criterion of 50 ppm.

Based on the results of the initial PSA investigation, a second phase of sampling and analysis was conducted in July and August 1995 to characterize the horizontal and vertical extent of PCB concentrations at Locations A and D. Based on the results from this sampling phase, excavation of surface and subsurface soils having PCB concentrations above NYSDEC clean-up criteria (1 ppm surface, 10 ppm subsurface) was undertaken at Locations A and D.

Remedial measure activities were conducted at these locations from October 10 through October 26, 1995. In all, approximately 285 cubic yards of material including soil and wastes were removed from Locations A and D. No plant wastes were observed at the base or walls upon final excavation margins at either of Locations A and D. Evidence of plant rubble and flyash mixed with clay were observed at the final clean margin at the east wall of Location D. Laboratory analyses of composite samples collected from the base, sidewalls and surrounding surface margins of excavations at both Locations A and D met the applicable clean-up criteria (less than 1 ppm PCBs in surface soils and 10 ppm in subsurface soils). Additionally, the excavations at Locations A and D were backfilled and roughly graded with clean imported fill obtained from Integrated Waste Special Services (IWSS), providing a one-foot clean soil cover in all remediated areas.

In summary, PCB contamination on FMC property identified as Site-1, has been remediated in accordance with New York State DEC approved measures and, as such, this area does not constitute a threat to public health or environment. Moreover, the only hazardous waste discovered at the site, soils containing PCBs in excess of the New York State criterion of 50 ppm, has been completely removed. No evidence of any other hazardous waste at the FMC Site (either Site-1 or Site-2) was discovered during the PSA. Therefore, no additional investigatory or remedial work is required, and the site should be delisted from the Registry of Inactive Hazardous Waste Disposal Sites in New York State.

1.0 INTRODUCTION

FMC Corporation (FMC) has entered into an Order on Consent (Index #B9-0431-93-06), effective November 22, 1993, with the New York State Department of Environmental Conservation (NYSDEC) to perform a Preliminary Site Assessment (PSA) at FMC's Peroxygen Chemicals Division manufacturing facility located at 37 Sawyer Avenue in Tonawanda, New York (NYSDEC Site No. 915025). Approximately 100 tons of plant waste materials were reportedly disposed of over a twelve year period (from 1964 to 1976) in two to four pits located along the southwestern portion of the plant property. Woodward-Clyde Consultants (WCC) was retained to assist FMC in performance of the PSA.

In accordance with the terms and provisions of the Order, FMC submitted a Work Plan for conducting a PSA Investigation to the NYSDEC on January 21, 1994. A revised work plan reflecting NYSDEC comments was submitted on May 11, 1994. An addendum to this Work Plan was submitted July 14, 1994, responding to the final NYSDEC comment letter of June 28, 1994. The Work Plan, with the Addendum, was approved by NYSDEC in a letter dated August 12, 1994.

In September 1994, field work for the PSA was completed. Work performed included sampling and analyses of select soil and waste samples from excavated test pits within Site-1 and Site-2 located on FMC property. During the PSA field work, waste samples from two areas of Site-1 (Locations A and D) exhibited detections of polychlorinated biphenyls (PCBs). No other compounds of concern were reported during the initial PSA investigation. A PSA report was submitted to NYSDEC on January 19, 1995. Section 7.0 of this report included a recommendation that an additional investigation be conducted to characterize the horizontal and vertical extent of PCBs at Locations A and D on Site-1. NYSDEC comments on the PSA report were received on February 28, 1995. At a March 21, 1995 meeting, agreements between FMC and NYSDEC were made concerning NYSDEC's comment letter on the PSA report and recommended additional investigation. An April 13, 1995 letter from FMC to NYSDEC summarized agreements made and together with Section 7.0 of the PSA report, was considered the scope of work for what was identified as the Additional Investigation.

Between July 27, 1995 and August 15, 1995, field activities for the Additional Investigation were completed. Due to a fire at FMC's warehouse facility on August 18, 1995, earth moving equipment and remediation personnel were on-site, and FMC requested permission to proceed with remediation of the PCB contaminated soil while equipment was mobilized at the site. On August 24, 1995, a meeting between FMC and NYSDEC was held to discuss and agree upon remedial measures to be conducted at Locations A and D. At the meeting, NYSDEC was presented with figures and available data from the Additional Investigation which delineated surface and subsurface soil PCB concentrations and the expected extent of remediation required at the two locations. On August 28, 1995, a letter from NYSDEC to FMC summarized discussions and agreements made at the August 24, 1995 meeting and requested a brief project operations plan that described the proposed remedial actions. On September 22, 1995, an Interim Remedial Measures - Project Operations Plan was submitted to NYSDEC. Verbal approval by NYSDEC to proceed had been given at the August 24, 1995 meeting. On October 25, 1995, FMC received formal approval of the Interim Remediation Measures - Project Operations Plan, as submitted.

Remedial measures activities between October 10 and October 26, 1995 included field and laboratory PCB testing, excavation of soils and miscellaneous waste materials exceeding PCB action levels, backfilling excavations with clean soil, and rough grading of backfilled soil. Clean backfill soil was obtained from the remedial contractor, Integrated Waste Special Services (IWSS). Final grading will most likely occur during the spring of 1996 during drier weather.

This report describes the Additional Investigation performed at the FMC facility in accordance with Section 7.0 of the PSA report and the April 13 letter from FMC to NYSDEC, and the Remedial Measures performed in accordance with the Project Operations Plan.

The subsequent sections of this report present:

- The objectives of the Additional Investigation and Remedial Measures (Section 2.0).
- Site background information (Section 3.0).
- A summary of sampling methods, locations and analytical procedures used during the Additional Investigation, as well as analytical results, conclusions and recommendations based on the findings (Section 4.0).

- An overview of the Remedial Measures performed. This includes excavation methods employed, sampling methods and locations, sampling results, soil volumes removed, and backfilling and grading performed (Section 5.0).
- Conclusions and recommendations (Section 6.0), including a recommendation for delisting the site.
- A certification that work was performed in accordance with the approved Scope of Work (Section 7.0).

2.0 OBJECTIVES

As set forth in the Order, the objectives of the PSA investigation are to gather data to enable the Department to (1) determine whether hazardous waste is presents at the site; and (2) if hazardous waste is present, characterize the nature of such wastes and determine whether they constitute a threat to public health or the environment.

During the initial PSA investigation, samples of plant wastes did not exhibit any hazardous waste characteristics. However, PCB concentrations in waste samples collected within Location A on Site-1 were above the New York State hazardous waste criterion (50 ppm). PCBs were also detected at Location D, at concentrations below 50 ppm. The initial PSA investigation did not include testing for PCBs in soils underlying the waste disposal pits and test trench excavations did not delineate the extent of apparent waste present to the south and east of Locations A and D. The objective of the Additional Investigation was to characterize the vertical and horizontal extent of PCB concentrations at these locations.

The objectives of the Remedial Measures Program were to (1) remove surface and subsurface soils from Locations A and D having PCB concentrations above NYSDEC clean-up criteria of 1 ppm and 10 ppm in surface and subsurface soils, respectively; (2) remove such material to a secure landfill; and (3) restore the site to its approximate initial condition. The overall objectives of both the Additional Investigation and Remedial Measures Program is the delisting of Site-1 from the Registry of Inactive Hazardous Waste Disposal Sites in New York State.

3.0 BACKGROUND

3.1 SITE SETTING

The FMC Facility is located at the corner of Sawyer Avenue and River Road in the Town of Tonawanda, Erie County, New York. A site location map is provided as Figure 3-1. The facility is situated in a heavily industrialized area of Tonawanda, New York between Interstate 190 and the Niagara River. The river is approximately 1,800 feet west of the FMC Plant.

On January 6, 1994, FMC submitted to NYSDEC a report of a "Records Search" concerning the history of potential hazardous waste disposal at the facility. Information obtained during this "Records Search" identified two locations on FMC property known as Site-1 and Site-2, where waste disposal activities most likely occurred until approximately 1976. These disposal areas were reportedly covered with clay. Field work conducted during 1994 as part of the PSA investigation focused on both locations as potential sources of waste disposal.

Site-1 is an approximately 1-acre parcel of land owned by FMC, located south of the current paved plant parking lot. Prior to remedial measures activities, the area was covered with gravel placed over thin plastic sheeting. Site-1 is bounded by the FMC plant to the east, the plant parking lot to the North, Site-2 to the west, and a Niagara Mohawk rail spur and coal unloading area to the south.

Figure 3-2 illustrates the major features of the area of investigation, and surface water drainage pathways. The surface topography of Site-1 slopes gently to the north and west. The land surface along the western fence line of Site-1 is approximately 1 to 2 feet higher than the adjacent portion of Site-2. Based on the site topography, surface water runoff likely flows toward Site-2. A sewer line crosses Site-1. The approximate location of the sewer line is shown on Figure 3-2. There are no surface water bodies on Site-1.

Site-2 is an approximately three acre parcel, owned by FMC, located west of the plant parking lot. Site-2 is currently level and grassed. Site-2 is bordered by Site-1 and the plant parking lot to the east, Sawyer Avenue to the north, River Road (and Niagara Mohawk's Huntley Station) to the west, and the Niagara Mohawk rail spur to the south.

Site-2 is relatively flat. Surface drainage ditches are present along the northern boundary of the parcel, adjacent to Sawyer Avenue, and the western boundary, adjacent to River Road. These ditches would receive surface water runoff from Site-2. Some surface water drainage may also occur at the southern boundary of Site-1 and Site-2, along the Niagara Mohawk rail spur. Sewer lines and raw water supply lines run under Site-2, as shown on Figure 3-2. There are no surface water bodies on Site-2.

Both sites are underlain, at depths ranging from 1/2 foot to 8 feet, by a stiff lacustrine clay with very low permeabilities. This clay reportedly extends to depths of 25 feet to 58 feet. Some isolated pockets of perched water are associated with crushed stone/brick rubble fill in the two areas, but no evidence of a continuous shallow groundwater zone has been discovered.

Additional supporting documentation on site history and geology/hydrogeology is presented in the PSA report (January 1995).

3.2 RESULTS OF 1994 PSA PREVIOUS INVESTIGATION

As previously noted, WCC completed a review of the history of disposal of potentially hazardous wastes at the FMC facility that was presented in the report to NYSDEC titled "Preliminary Site Assessment, Report of Records Search" (January 6, 1994). In general, this report concluded that wastes reportedly disposed of on-site were primarily composed of plant products which did not include listed hazardous waste based on present RCRA or NYSDEC hazardous waste regulations. Under present regulatory provisions, some waste materials may have exhibited the characteristics of ignitability at the time of disposal. However, due to rapid degradation rates of these chemicals (mainly persulfates and peroxide salts), which are strong oxidizers, it was concluded that products disposed of on-site had degraded into innocuous salts over time and would therefore no longer exhibit the characteristic of ignitability. Though waste and fill material were placed extensively into areas of Site-1 and Site-2, there were primarily four disposal pits in Site-1 which received plant wastes other than construction debris, rubble, or other innocuous fill. These four disposal pits were reported to contain product residue, small amounts of paint waste, oily rags and floor sweepings. Through employee interviews and historic aerial photograph examinations, WCC identified nine suspected disposal pit locations in Site-1 and Site-2.

In September 1994, WCC began an investigation into these nine locations (identified as Locations A through I), by excavating a series of test pits to the native clay horizon. Seventy-five test pits were excavated. Evidence of disposal of plant manufacturing wastes was encountered at only two of the nine locations (Locations A and D), both located along the southern property line in Site-1. The approximate extent of waste to the west and north of these disposal pits was determined by observations during test pit excavations. None of the waste samples collected for analysis exhibited a hazardous waste characteristic. All field tests for the presence of oxidizers, the primary plant waste, were negative. All TCLP results were below regulatory criteria for hazardous waste. No semi-volatile organics representative of plant wastes were reported in apparent waste materials.

The PCB concentration in the sample from Location A on Site-1 at 16,000 ppm, was well above the NYS hazardous waste criterion (50 ppm). The source of PCBs at this location is unknown, nor was the extent of PCB contamination determined by this investigation. PCBs were also detected on Site-1 at Location D, though at a much lower concentration (total PCB concentrations from replicate analyses were 14.1 ppm and 27 ppm).

Permeability and grain-size distribution analysis of native clay samples underlying Site-1 and Site-2 reported low permeabilities in the range of 2×10^{-7} to 1×10^{-6} cm/sec. The native clay was found under all test pits excavated at depths ranging from 2 to 7 feet below ground surface.

Analysis of native clay samples underlying waste disposal pits did not indicate any significant migration of contaminants from the waste. Only traces (less than 0.2 mg/kg) of volatile organic compounds were detected. No semi-volatile organics were detected. Reported metal concentrations were typical of background.

The PSA report concluded that based upon the low permeability of the native clay underlying the site, the low concentration of constituents found in soil directly underlying the waste disposal pits and the low mobility of PCBs, there was no potential of groundwater contamination due to past waste disposal practices at the site. The 1994 PSA investigation did not include testing for PCBs in soils underlying the waste disposal pits, and test trench excavations did not delineate the extent of apparent waste present to the south and east of Locations A and D. The PSA report further recommended an Additional Investigation to

better delineate the horizontal and vertical extent of PCB contamination in Locations A and D and surrounding areas by means of a grid pattern of soil borings. No chemicals other than PCBs required further investigation or remediation based upon the initial PSA investigation.

4.0 ADDITIONAL INVESTIGATION

To determine the horizontal extent of PCB contamination in apparent waste materials above the clay layer, soil borings were advanced on a grid of approximately 25-foot centers consisting of three columns (designated X, Y and Z from north to south) and eight rows (designated 1 through 8 from east to west), overlain over Locations A and D and the area between them. Figure 4-1 shows the orientation of this grid and the locations of test pits excavated during the initial investigation. Each grid node represents a boring location. An additional four borings were advanced approximately 12 feet near the center of Location A (corresponding to grid node "Y7") to better delineate the horizontal extent of PCB contamination in this area. In addition, four more borings were advanced (two in Location A and two in Location D) to determine whether PCB contamination has penetrated the native clay underlying the pits. For each location, one boring was performed in the approximate area where PCBs were detected during the initial PSA investigation, and one boring in the approximate center of the disposal pit, based on the data collected to date. Each of these four vertical borings extended two feet into the underlying native clay. Surface soil samples were also collected, with subsequent analyses required for selected samples in areas where subsurface PCB concentrations exceeded 10 ppm. Section 7.0 of the PSA report (January 1995) presents a more comprehensive description of the proposed scope of work.

4.1 SCOPE OF WORK

Field work was completed in accordance with the approved Work Plan. Figure 4-1 illustrates locations of borings advanced during the Additional Investigation. As shown on Figure 4-1 sample location designations were referenced to the 3 column, 8 row grid set up over the two former disposal pit areas (Locations A and D). The long axis of the grid runs roughly parallel to the fence and boundary separating FMC and Niagara Mohawk. During field work, this fence/boundary was interpreted to run in a north-south direction, with north being toward River Road and the Niagara Mohawk Power generating plant. This direction is actually approximately west-northwest. The samples from borings surrounding former Test Pit A-5 were labeled based on this assumption. As such, borings and corresponding samples were identified as A5S (south), A5N (north), A5SE (southeast), etc. This sample designation scheme carried over into the remediation phase of the field work (Section 5.0) so that

excavation sites were named according to their orientation to the fence and not to a strictly true north direction. Horizontal delineation borings advanced around former Test Pit A-5 (grid location Y7) were prefixed "A5".

Following execution of an access agreement to drill on Niagara Mohawk Property, on July 27, 1995, the 24 node grid boring locations were staked out over the site and advancement of borings commenced. A small portion of the fence separating FMC and Niagara Mohawk property was removed and the drill rig was moved onto Niagara Mohawk property. Drilling services were provided by Nothnagle Drilling of Scottsville, New York. Borings on Niagara Mohawk property (Z2 to Z8) were advanced first to establish the limits of PCB contamination beyond the FMC property line.

In a February 28, 1995 letter from NYSDEC to FMC approving the Work Plan, NYSDEC requested four additional borings, one in Site-1 and three in Site-2. These four locations were the C-4 test pit in Site-1 (which was already on the grid as boring location X3), a boring in the center of location H in Site-2 (designated boring HB), a boring in the center of Location I in Site-2 (designated boring IB), and a boring from Test Pit E-5 in location E at Site-2 (designated boring EB). These four borings were advanced after the Niagara Mohawk property borings. Samples from this first day of field activities were shipped that evening to Nytest Environmental Laboratories of Port Washington, New York, with instructions for 24-hour turnaround time for analyses.

The remaining borings were subsequently advanced in accordance with the plan. Based on field observations, one additional boring (Boring A5SE on Figure 4-1) was advanced in Location A to better delineate the potential extent of waste material in this area.

Surface soil samples from undisturbed portions of the clay cap (encountered over disposal areas) were collected from the same approximate locations as the soil borings. The majority of surface samples were collected during boring activities; however, a number were also collected the following week.

Soil and waste/fill samples collected for laboratory analysis were generally obtained from the split spoon which exhibited the most evidence of fill/waste materials or visual contamination (if any) at each boring location. If waste or fill or evidence of visual contamination was not

present, the sample for PCB analysis was collected from the split spoon immediately above the native clay layer. An organic vapor analyzer (OVA) was used to screen samples from each split spoon. With the exception of samples from three split spoons with low responses (1/2 ppm to 2 ppm), there was no response from the instrument on the majority of samples screened with the OVA.

Four soil borings, two for Location A and two for Location D, for vertical delineation of PCB contamination, were advanced to the top of the clay layer and then an additional two feet into the clay. These included borings A5N and Y7 in Location A, and borings D4 and Y4C in Location D. The first six inches of native clay from these borings were sampled and submitted for PCB analysis. The 6 to 12 inch and 18 to 24 inch intervals were also sampled and archived in case the 0 to 6 inch interval yielded PCB concentrations above 10 ppm.

Surface soil samples from the undisturbed clay cap were collected at locations as close as possible to each corresponding boring, generally within one foot. In several cases where borings were advanced through former test pits (X3, Y7, A5E), the clay was disturbed; therefore, the surface/clay cap samples were collected up to two feet away from corresponding borings. For all subsurface samples which had PCB concentrations greater than 10 ppm, the corresponding surface soil sample was also submitted for PCBs analysis.

4.2 METHODS

All subsurface samples were collected from decontaminated stainless steel split spoons driven ahead of the augers. The decontamination procedure included washing with non-phosphate detergent and potable water, followed by a potable water rinse, a deionized water rinse, a hexane rinse, a second de-ionized water rinse, and air drying. Samples collected from split spoons were removed onto clean plastic sheeting. The outer surface of the sample was scrapped off, if possible, with a decontaminated stainless steel knife. The sample was then put into a decontaminated stainless steel mixing bowl and composited if more than one horizon from a single split spoon was sampled. The sample was placed into laboratory supplied glassware, refrigerated and submitted to the laboratory within 24 hours of sample collection. For surface soils, all sampling equipment (stainless steel bowls, trowels, spoons) were decontaminated in the same manner as the split spoons. Surface soil samples were obtained by digging through the gravel surface to the black plastic sheeting overlying the clay cap. The

plastic was then cut away and the trowel was used to dig down three to four inches into the clay cap. Another trowel was then used to collect the clay sample into laboratory supplied glassware. These were kept refrigerated until determination could be made as to whether PCB analyses were required, based on results of corresponding subsurface samples.

All subsurface samples submitted to the contract laboratory, Nytest Environmental of Port Washington, New York, were analyzed for PCBs by EPA Method 8080. Thirty eight subsurface soil samples were submitted for analysis. This number included two field duplicates: T1, a duplicate of sample Z1, and U1, a duplicate of sample A5S. In addition, extra sample volume was collected at borings Y4 and X8 to enable the laboratory to analyze quality control samples. Two rinsate blanks (RSB-1 and RSB-2) were also collected during subsurface sample collection activities. The collection of these involved pouring one liter of laboratory-supplied analyte-free deionized water through a decontaminated split spoon and into a one liter amber glass bottle. Rinsate blanks were collected on July 28 and July 31, 1995.

For surface soil samples, a field duplicate of sample A5ES was submitted (V1) along with a rinsate blank (RSB-3). The rinsate blank was prepared by pouring a liter of laboratory supplied analyte-free deionized water into a decontaminated stainless steel bowl and then transferring the water into a one liter amber glass sample bottle.

4.3 FIELD OBSERVATIONS

A total of 29 horizontal delineation borings were advanced at Site-1 over the area of the former waste disposal pits.

For Site-1, native clay was generally encountered at an average depth of five feet, with a range of from two to eight feet bgs. Most borings in Site-1 revealed fill materials such as reworked clay, clay stained with fly ash and brick fragments. Minor amounts of gravel and sand were also brought to surface. Actual plant waste/disposal pit materials were seldom recovered from the split spoons. Appendix A contains boring logs for borings advanced during the Additional Investigation. The logs contain information on the depth to native clay, the materials above clay and the approximate depth at which analytical samples were collected for each boring. OVA response (if any) and recoveries for each split spoon are also presented

in the boring logs. Chemical odors that emanated from the excavation of Test Pit A-5 during the 1994 PSA investigation were not detected from any split spoon samples from borings advanced around this location.

The three borings on Site-2 (HB, EB, IB) also had an average depth to native clay of five feet, with a range of four to seven feet. Most of the material observed in the split spoons of these three widely separated borings was reworked clay fill with occasional brick fragments (Location H), gravel and minor glass (Location E) and flyash (Location I). Logs of these borings are also included in Appendix A.

4.4 ANALYTICAL RESULTS

PCB results for all soil samples collected during the Additional Investigation are summarized in Table 4-1. Figure 4-2 presents subsurface total PCB concentrations reported during the Additional Investigation. Figure 4-3 presents the subsurface and surface soil total PCB concentrations at Location A.

4.4.1 Subsurface Soil

Subsurface soil samples collected across the established grid (see Figure 4-2) had PCB concentrations for the most part below 2 ppm. Exceptions included samples from borings X8, Y4, Y6, A5E, A5S, and A5SE. Only samples from Location A - Y6 (11 ppm), A5E (60 ppm), A5S (2,100 ppm and 23,000 ppm, replicate samples), and A5SE (16 ppm) - had PCB concentrations above the NYSDEC subsurface soil clean-up criterion. No subsurface samples from the vicinity of Location D had PCB concentrations above 10 ppm. No PCBs were detected in the three Site-2 borings (HB, EB, IB) at detection levels well below the clean-up criterion.

No PCBs were detected in the 6 inches of native clay in three of the four vertical delineation boring samples (Y4C, D4, A5NA). The fourth, Y7A, located beneath Test Pit A-5, had a PCB concentration of 2 ppm, which is well below the NYSDEC subsurface soil clean-up criterion of 10 ppm.

Field replicate subsurface soil samples Z1 and T1 PCB concentrations compared favorably at 1.9 ppm and 1.0 ppm, respectively. Field replicate subsurface soil sample PCB concentrations for A5S and U1 differed by approximately one order of magnitude (A5S at 2,100 ppm and U1 at 23,000 ppm). The discrepancies may be attributable to the heterogeneity of the sample matrix.

4.4.2 Surface Soil

For each subsurface soil sample result that was reported at greater than 10 ppm, the corresponding surface soil sample was submitted for PCB analysis at a detection level below the NYSDEC surface soil clean-up criterion. These surface samples were Y6S (S = surface), A5SS, A5ES and A5SES. In addition, all other surface samples in the vicinity of former Test Pit A-5 were analyzed for PCBs to better delineate surface soil contamination from PCBs in this area. These included samples Y7S, A5NS, A5WS, X6S, Z6S and X7S.

Four of the ten surface samples analyzed had PCB concentrations greater than 1 ppm, these included samples Y6S (2.8 ppm), Y7S (86 ppm), A5SS (1.5 ppm) and A5SES (1.4 ppm); locations and PCB concentrations of these samples are shown on Figures 4-3.

Copies of laboratory data summary forms (Form-1s) are included in Appendix B. All analytical data generated during the Additional Investigation were subjected to a data quality review. The results of the data quality review are discussed in Appendix C, and appropriate data qualifiers have been incorporated into the data summary tables in this report. The overall conclusion of the data quality review was that the data reported were acceptable for their intended use, with minor qualification. No contamination was detected in equipment blanks. Acceptable precision was achieved in analyses of field replicate samples except where noted. Additional details concerning the data quality review can be found in Appendix C.

4.5 CONCLUSIONS AND RECOMMENDATIONS - ADDITIONAL INVESTIGATION

The following conclusions were developed based upon the analytical results and field observations obtained from the initial PSA investigation and Additional Investigation:

1. Soil PCB concentrations exceeding NYSDEC's 10 ppm clean-up criterion for subsurface soils are limited to the immediate vicinity of Test Pit A-5 and Test Pit D-4. Waste/fill material during the initial PSA investigation yielded concentrations of total PCBs at 16,000 ppm in Test Pit A-5 and 14 and 27 ppm from replicate samples of Test Pit D-4. No subsurface soil samples collected during the Additional Investigation from Location D had PCB concentrations above the NYSDEC clean-up criterion. Subsurface soil samples at Location A with PCB concentrations above 10 ppm included: Y6, A5E, A5S, and A5SE.
2. The grid sampling provides a "clean" boundary in subsurface soils around Location A. The approximate area containing PCBs above the clean-up criteria, and the "clean" boundary are illustrated on Figure 4-3.
3. Samples from the clay layer underlying Locations A and D contained low (below 10 ppm) or non-detectable PCB concentrations in the 0 to 6 inch interval; thus, no substantial migration of PCBs into the clay layer was observed.
4. No significant surficial contamination is present beyond the area of subsurface contamination near Test Pit A-5. Four surficial soil samples in the vicinity of Test Pit A-5 had PCB concentrations above 1 ppm. These included samples Y6S, Y7S, A5SS and A5SES. Surficial soils in the vicinity of Test Pit D-4 were not investigated since corresponding subsurface grid samples collected during the Additional Investigation were either non-detected for PCBs or had concentrations below the 10 ppm clean-up criterion.
5. No subsurface and surface soil PCB concentrations above NYSDEC clean-up criteria were detected from other areas on-site, or from the Niagara Mohawk property adjacent to the site.

Two potential excavation scenarios for Location A were discussed with NYSDEC. The initial excavation at Location A would be limited to the immediate vicinity of subsurface samples exceeding the 10 ppm clean-up criterion (Y6, A5SE, A5E, Test Pit A-5 and A5S), the area bound by the red line on Figure 4-3. Conservative limits of remediation were delineated by the "clean" boundary defined by locations X6, X7, A5N, A5W, Z6 and near the vicinity of Y6, the blue line shown on Figure 4-3. At a 6-foot average depth, the impacted volume of excavated material was anticipated to be approximately 100 cubic yards for the "expected case" and approximately 600 cubic yards for the "conservative case". For Location D, excavation was expected to be limited to the immediate vicinity of Test Pit D-4, since no other samples in this area exceeded the 10 ppm criterion. For both locations, the final limits of excavation were to be determined by post-excavation samples.

5.0 REMEDIAL MEASURES

Following a fire at FMC's warehouse facility on August 18, 1995, heavy equipment was brought on-site for clean-up and demolition activities. At this time, FMC deemed it appropriate to conduct remedial measures at areas recommended on Site-1 simultaneously with ongoing remediation efforts at the warehouse.

On August 24, 1995, a meeting between representatives of FMC, WCC and NYSDEC was held at the FMC Tonawanda facility to discuss and agree upon remedial measures to be conducted at Locations A and D. The remedial measures agreed upon included excavation of surface and subsurface soils with PCB concentrations above 1 ppm and 10 ppm, respectively.

Subsequent to this meeting, NYSDEC required FMC to submit an interim remedial measures - project operations plan prior to commencement of remediation efforts on Site-1. This plan, which detailed the scope of work for the remedial measures, was submitted to NYSDEC on September 22, 1995. Per the Project Operations Plan (POP), the approximate limits of excavations at Locations A and D were to be determined in the field based on rapid PCB field screening tests using the immunoassay method, followed by confirmational analyses of samples at a commercial certified laboratory. PCB immunoassay test kits were provided by Ensys Incorporated of North Carolina, and commercial laboratory services for the remedial measures were provided by Recra Environmental (Recra) of Amherst, New York. Excavation services were provided by Great Lakes Contracting, under subcontract to Integrated Waste Special Services (IWSS) of Buffalo, New York.

Verbal approval for the remediation plan at Site-1 was granted by NYSDEC at the August 24, 1995 meeting at FMC. Final approval of the POP was granted on October 25, 1995 (subsequent to the remediation work) in a letter from NYSDEC to FMC.

Remediation work was completed in accordance with the POP, and was subject to periodic inspections by NYSDEC personnel during progress of the field work. During the course of the remedial measures, it became evident that the immunoassay test kits were not suitable for extraction of PCBs from clay material. Numerous false negative field test kit results were observed based on subsequent confirmatory commercial laboratory analyses. The final limits of excavation in all cases, were based on PCB results from the commercial laboratory.

5.1 SCOPE OF WORK

Remediation work consisted of:

- Excavation of surface and subsurface soils from Locations A and D until clean-up criteria were achieved.
- Collection and analysis of confirmatory post-excavation samples.
- Collection of additional pre-excavation surface soil samples.
- Placement of excavated soils in trucks or rolloffs for subsequent offsite disposal.
- Placement of clean fill in the excavations and preliminary regrading of the site.

WCC inspected all on-site activities, and collected and arranged for analyses of confirmatory samples.

5.1.1 Excavation

Soil excavation was performed, primarily using a John Deere track-mounted shovel with an approximate twenty-five foot reach. Excavation was completed in a series of cuts, until confirmatory sampling demonstrated that clean-up criteria were achieved.

The progress of excavation is presented on Figure 5-1 for Location A, and on Figure 5-2 for Location D. The initial excavation at Location A represents the approximate planned excavation area shown by the red line on Figure 4-3. For Location D, the initial excavation represented an approximate 10 foot by 10 foot area at the location of Test Pit D-4. In each case, the depth of excavation was defined by the native clay layer underlying the site.

As shown in Figures 5-1 and 5-2, a number of excavation cuts were required to achieve clean-up criteria, based upon results of post-excavation testing.

By the time the excavations were completed, no plant waste material was evident at the margins of the excavations. Some rubble, and flyash mixed with clay, consistent with fill materials in many areas of the site, were observed at the east wall of the Location D excavation.

During the excavation of Location A, the excavation had extended slightly into an area of subsurface perched water originally noted during the 1994 PSA test pit investigation. This perched water resided in a layer of orange stained slag and cobbles lying on reworked clay, primarily in the area of location H which bordered Location A. The northeast corner of the excavation at Location A had exposed the fringe of this slag and cobble layer, therefore, the perched water drained from a six inch long seep into the Location A excavation to a depth of approximately one foot, primarily in the western portion of the excavation. Mr. J. Hyden of NYSDEC raised the concern that this water could act as a pathway for contaminated sediments still present in the north wall to spread over the (clean) floor of the pit (the still contaminated eastern wall of Location A was not affected). In order to address this concern, great care was taken during further excavation of the north wall so as not to cause slumping of sediments from the wall into standing water at the base of the excavation at Location A. The shovel had an advantageous position for accomplishing this. The operator was able to "peel" away the north wall in layers by pulling material toward him. The wall itself was straight and almost no material came in contact with the water. By extending the shovel slightly outward when native clay had been reached at the excavation base, a berm remained which kept water from the newly exposed wall. This berm and the area below it was subsequently scrapped away. Thus, the potential for recontamination of the excavation base was averted.

5.1.2 Post-Excavation Sampling

After completion of each excavation "cut", surface and subsurface soil samples were collected to determine if clean-up criteria had been achieved. Composite samples (representing three points) were collected from surface and subsurface soil strata along each of the north, south, east and west boundaries of the excavation. Sample designations were as follows: A or D for each location; followed by N, S, E, or W to designate wall side; followed by S if a surface soil; followed by the cut number.

In general, subsurface composite sample locations were taken at the base of the wall near the exposed native clay boundary. Surface (composite) samples were taken by sampling three locations within the clay cap exposed on each wall.

Samples were collected by digging into the exposed face for one or two inches with a decontaminated stainless steel trowel at three (occasionally four) locations and homogenizing the material in a decontaminated stainless steel bowl. Laboratory provided glassware was then filled and a small amount of sample removed for field screening if required.

Initially, field screening for PCBs using the Ensys immunoassay test kit was used to determine the need for additional excavation. If the test kit indicated exceedances of clean-up criteria, additional excavation was performed, without sending a sample for confirmatory laboratory analysis. If the test kit indicated that clean-up criteria had been achieved, the corresponding sample was shipped for confirmatory laboratory analysis. It was subsequently determined that the test kit results were biased low (false negative) for clay samples, and use of the field test was discontinued. Subsequently, laboratory analyses (Method 8080) of each post-excavation sample was performed on an expedited turnaround basis to define final excavation limits. In all cases, final excavation limits were based upon laboratory results.

5.1.3 Additional Surface Soil Sampling

After limits of subsurface soils exceeding the 10 ppm clean-up criteria were achieved, it was determined that the final limits of surface soil excavation could best be achieved by additional pre-excavation testing, since field tests were determined to be ineffective for the clayey surficial materials.

On October 17, 1995, WCC collected a series of surface composite samples taken from the undisturbed clay cap around both excavations at Locations A and D. Each composite represented three to four locations on a line parallel to an excavation sidewall. These samples were collected in a manner analogous to that used for surface post-excavation samples. Three "lines" of samples were collected on the north and south sides of the excavation at Location D and the north, south and west side of the excavation at Location A. The first composite was taken approximately five feet back from the pit sidewall or the edge of the surface area that had already been removed. The second composite was taken five feet beyond the first, and the third taken ten feet beyond the second composite. Sample designations for this series followed the convention AA or DD (for A pit or D pit), followed by the wall direction (N, S, E, W), and by the letter S (for surface) and finally by the number (1,2,3) of the composite sample outward from the excavation. The initial composites around each excavation were requested to be analyzed first (24-hour turnaround time) with subsequent composite sample

analysis dependent on whether the initial composites exceeded the surface soil clean-up criterion of 1 ppm total PCBs.

Surface soil excavations proceeded to the clean limits defined by these additional surface soil samples. All surface soils in the area between Locations A and D exceeded the 1 ppm criterion. Surface soil was removed from this entire area; therefore, no clean surface soil sample was reported south of Location A, or north of Location D, since these areas merged.

5.1.4 Soil Staging and Disposal

Excavated soils were either placed directly into lined dump trailers for off-site disposal, or placed in lined rollofs which were covered with plastic tarps and staged on site pending off-site disposal. In either case, the excavated soils were transported by Chemical Waste Management (CWM) and Hazmat to CWM's Model City landfill, for disposal in a TSCA approved facility.

5.1.5 Backfill

After review of final excavation limits and test results, and inspection of the excavations, Mr. J. Hyden of NYSDEC gave verbal approval for backfill on October 20, 1995. Clean backfill material was provided by Integrated Waste. Backfill was placed October 21, 1995. Preliminary grading of the site was performed October 26, 1995. Final grading and stone cover could not be completed due to wet conditions. Thus, final restoration of the site was delayed until spring. At this time, a clean soil cover at least one foot thick has been placed over all areas remediated. Only final grading and placement of stone for reuse of these site need to be completed.

5.2 RESULTS

The sequence of excavations at Locations A and D, and associated confirmatory sample location, are illustrated on Figures 5-1 and 5-2. Confirmatory test results are presented on Table 5-1 and Table 5-2. For completeness of data presentation, Table 5-1 presents results of field test kit analyses, where performed. However, all final excavation limits were based on laboratory analyses conducted by Recra.

All laboratory analytical data generated during the Remedial Measures were subjected to a data quality review. The results of the data quality review are discussed in Appendix E. The overall conclusion of the data quality review was that the data reported were acceptable for their intended use, without qualification. No contamination was detected in equipment blanks. Acceptable precision was achieved in analyses of field replicate samples. Additional details concerning the data quality review can be found in Appendix E. Copies of laboratory data summary forms (Form-1s) are included in Appendix D.

As shown on Table 5-1, the clean-up criteria were achieved:

- at the bottom of each excavation,
- in subsurface excavation sidewalls at the north, south, east and west limits of excavations,
- in surface soil in excavation sidewalls north, east and west of Location A, and south, east and west of Location D. The area south of Location A and north of Location D was completely remediated.

5.3 SOIL VOLUME AND DISPOSAL RECORDS

Based on measurements made in the field, the subsurface excavation at Location D covered an area approximately thirteen by twenty six feet. Assuming an average depth of seven feet, this would represent 2,366 cubic feet or 87 cubic yards removed from this area. In addition, an estimated 481 square feet of area from the south and east surface areas of excavation D was removed to an average depth of one foot for an additional 482 cubic feet or 18 cubic yards of soil removed.

The excavation at Location A had a more complicated perimeter. The subsurface excavation had a long axis of approximately thirty six (36) feet (parallel to the fence line) and a maximum width of approximately twenty four (24) feet. The area excavated was estimated to be 760 square feet. At an average depth of 4-1/2 feet, the excavation volume was approximately of 3,420 cubic feet or 127 cubic yards was excavated from Location A proper. Surface soil was scraped to a depth of one foot adjacent to the west, north and east side of the excavation at Location A adding approximately 754 cubic feet (28.0 cubic yards). In addition, the entire surface area between Locations A and D was removed to a depth of one foot. This represents an area of approximately 42 by 16 feet, equivalent to 672 cubic feet (25 cubic yards).

Total soil volume removed is therefore estimated as approximately 285 cubic yards. It was initially estimated that between 100 cubic yards (best case) and 600 cubic yards (worst case) of soil would require excavation.

All excavated soil was disposed of in lined dump trailers or rolloffs which were covered, weighed and transported to CWM's Model City Landfill, a secure hazardous waste disposal facility in Model City, New York. A total of 31 trucks/rolloffs with a combined weight of 510 tons of excavated material were transported from the excavation sites. Appendix F includes waste manifests for soil disposed of off-site.

5.4 BACKFILL AND COVER

The two primary subsurface excavations and all surface scraped areas were filled in on Saturday, October 21, 1995, with clean fill stockpiled on site. Two letters from IWSS to FMC, dated October 4 and October 11, 1995, document the source of this material as clean soil from excavations on Grand Island and in Buffalo (see Appendix G).

Preliminary rough grading took place on Thursday, October 26, 1995 by Carmen M. Pariso Inc., of Tonawanda, New York. Precipitation in the form of rain, had been heavy immediately before and during backfilling of the excavations. The areas above the former excavations were still too soft to support heavy grading equipment. A front end loader was used to redistribute fill materials to insure all remediated areas were covered by a minimum one foot of clean soil. WCC excavated seven holes by hand and recorded depth of cover (greater than or equal to one foot) in all of them. In addition, inspection was made over the perimeter of

6.0 CONCLUSIONS AND RECOMMENDATIONS

Commencing with the January 1994 Records Search, investigatory work consistent with the requirements of the Order have been conducted by FMC. Investigative field work has included two phases of sampling and analysis. The first phase conducted in September 1994 as part of the initial PSA investigation concluded that:

1. Evidence of disposal of plant manufacturing waste was limited to two small areas, identified as Locations A and D on Site-1.
2. No samples collected during the initial PSA field work exhibited any hazardous waste characteristics. Field tests indicated that oxidizers, the primary plant waste, were not present, confirming that disposed oxidizing materials had decomposed into innocuous salts.
3. PCBs were detected in waste samples collected from test pits at Locations A and D. The PCB concentration from the waste sample from Location A at 16,000 ppm was above the New York hazardous waste criterion of 50 ppm.

Based on the results of the initial PSA investigation, a second phase of sampling and analysis was conducted in July and August 1995 to characterize the horizontal and vertical extent of PCB concentrations at Locations A and D. Based on the results from this sampling phase, excavation of surface and subsurface soils having PCB concentrations above NYSDEC clean-up criteria (1 ppm surface, 10 ppm subsurface) was undertaken at Locations A and D.

Remedial measure activities were conducted at these locations from October 10 through October 26, 1995; periodic inspections were performed by NYSDEC representative, Mr. John Hyden. In all, approximately 285 cubic yards of material including soil and wastes were removed from Locations A and D. No plant wastes were observed at the base or walls upon final excavation margins at either of Locations A and D. Evidence of plant rubble and flyash mixed with clay were observed at the final clean margin at the east wall of Location D. Laboratory analyses of composite samples collected from the base, sidewalls and surrounding surface margins of excavations at both Locations A and D met the applicable clean-up criteria (less than 1 ppm PCBs in surface soils and 10 ppm in subsurface soils). Additionally, the

excavations at Locations A and D were backfilled and roughly graded with clean imported fill obtained from IWSS, providing a one-foot clean soil cover in all remediated areas.

In summary, PCB contamination on FMC property identified as Site-1, has been remediated in accordance with New York State DEC approved measures and, as such, this area does not constitute a threat to public health or environment. Moreover, the only hazardous waste discovered at the site, soils containing PCBs in excess of the New York State criterion of 50 ppm, has been completely removed. No evidence of any other hazardous waste at the FMC Site (either Site-1 or Site-2) was discovered during the PSA. Therefore, no additional investigatory or remedial work is required, and the site should be delisted from the Registry of Inactive Hazardous Waste Disposal Sites in New York State.

7.0 CERTIFICATION

Woodward-Clyde Consultants provided full-time inspection of field work, and completed the Additional Investigation and Remedial Measures report in accordance with the provisions of the approved scope of work. Locations and number of borings installed during the Additional Investigation were subject to minor modifications, based on professional judgment and as approved by NYSDEC's representative. During the course of the Remedial Measures Program, it became evident that the field test kit method was not suitable for extraction of PCBs from clay material. As such, excavation limits for the most part, were based on PCB tests performed by the subcontracted laboratory. No other significant deviations from the approved scope of work occurred.

Tables

TABLE 4-1
FMC TONAWANDA FACILITY - ADDITIONAL INVESTIGATION
SOIL BORING AND SURFACE SOIL GRID SAMPLE PCB RESULTS

Sample ID Sample date Units	X1 7/28/95 mg/kg	X2 7/28/95 mg/kg	X3 7/27/95 mg/kg	X4 7/28/95 mg/kg	X5 7/28/95 mg/kg	X6 7/31/95 mg/kg	X7 7/31/95 mg/kg	X8 7/31/95 mg/kg
I. SOIL BORING PCB RESULTS								
PCBs								
Aroclor - 1016	ND 1.3	ND 1.2	ND 1.3	ND 1.2	ND 1.2	ND 1.4	ND 1.3	ND 1.3
Aroclor - 1221	ND 1.3	ND 1.2	ND 1.3	ND 1.2	ND 1.2	ND 1.4	ND 1.3	ND 1.3
Aroclor - 1232	ND 1.3	ND 1.2	ND 1.3	ND 1.2	ND 1.2	ND 1.4	ND 1.3	ND 1.3
Aroclor - 1242	ND 1.3	ND 1.2	ND 1.3	ND 1.2	ND 1.2	ND 1.4	ND 1.3	ND 1.3
Aroclor - 1248	ND 1.3	ND 1.2	ND 1.3	ND 1.2	ND 1.2	ND 1.4	ND 1.3	ND 1.3
Aroclor - 1254	ND 1.3	ND 1.2	ND 1.3	ND 1.2	ND 1.2	ND 1.4	ND 1.3	ND 1.3
Aroclor - 1260	ND 1.3	ND 1.2	1.1J ND 1.2		0.5J ND 1.2	ND 1.4	ND 1.3	5.6
II. SOIL BORING PCB RESULTS - cont.								
PCBs								
Aroclor - 1016	ND 1.3	ND 1.4	ND 1.3	ND 1.4	ND 1.2	ND 1.2	ND 1.4	ND 1.3
Aroclor - 1221	ND 1.3	ND 1.4	ND 1.3	ND 1.4	ND 1.2	ND 1.2	ND 1.4	ND 1.3
Aroclor - 1232	ND 1.3	ND 1.4	ND 1.3	ND 1.4	ND 1.2	ND 1.2	ND 1.4	ND 1.3
Aroclor - 1242	ND 1.3	ND 1.4	ND 1.3	ND 1.4	ND 1.2	ND 1.2	ND 1.4	ND 1.3
Aroclor - 1248	ND 1.3	ND 1.4	ND 1.3	ND 1.4	ND 1.2	ND 1.2	ND 1.4	ND 1.3
Aroclor - 1254	ND 1.3	ND 1.4	ND 1.3	ND 1.4	ND 1.2	ND 1.2	ND 1.4	ND 1.3
Aroclor - 1260	ND 1.3	ND 1.4	ND 1.3	6.4 ND 1.2	ND 1.2	11	0.8 ND 1.3	

TABLE 4-1
FMC TONAWANDA FACILITY - ADDITIONAL INVESTIGATION
SOIL BORING AND SURFACE SOIL GRID SAMPLE PCB RESULTS

Sample ID Sample date Units	Z1 7/28/95 mg/kg	Z1 Dup. 7/28/95 mg/kg	Z2 7/27/95 mg/kg	Z3 7/27/95 mg/kg	Z4 7/27/95 mg/kg	Z5 7/27/95 mg/kg	Z6 7/27/95 mg/kg	Z7 7/31/95 mg/kg
I. SOIL BORING PCB RESULTS - cont.								
PCBs								
Aroclor - 1016	ND 1.3	ND 1.3	ND 1.3	ND 1.4	ND 1.3	ND 1.2	ND 1.3	ND 1.3
Aroclor - 1221	ND 1.3	ND 1.3	ND 1.3	ND 1.4	ND 1.3	ND 1.2	ND 1.3	ND 1.3
Aroclor - 1232	ND 1.3	ND 1.3	ND 1.3	ND 1.4	ND 1.3	ND 1.2	ND 1.3	ND 1.3
Aroclor - 1242	ND 1.3	ND 1.3	ND 1.3	ND 1.4	ND 1.3	ND 1.2	ND 1.3	ND 1.3
Aroclor - 1248	ND 1.3	ND 1.3	ND 1.3	ND 1.4	ND 1.3	ND 1.2	ND 1.3	ND 1.3
Aroclor - 1254	ND 1.3	ND 1.3	ND 1.3	ND 1.4	ND 1.3	ND 1.2	ND 1.3	ND 1.3
Aroclor - 1260	1.9	1.0J	1.5	ND 1.4	1.6	ND 1.2	ND 1.3	ND 1.3
I. SOIL BORING PCB RESULTS - cont.								
Sample ID Sample date Units	Z8 7/27/95 mg/kg	A5E 7/31/95 mg/kg	A5N 7/31/95 mg/kg	A5S 7/31/95 mg/kg	A5S Dup. 7/31/95 mg/kg	A5SE 7/31/95 mg/kg	A5W 7/28/95 mg/kg	A5NA 7/31/95 mg/kg
I. SOIL BORING PCB RESULTS - cont.								
PCBs								
Aroclor - 1016	ND 1.3	ND 1.2	ND 1.2	ND 1.3	ND 1.4	ND 1.4	ND 1.4	ND 1.2
Aroclor - 1221	ND 1.3	ND 1.2	ND 1.2	ND 1.3	ND 1.4	ND 1.4	ND 1.4	ND 1.2
Aroclor - 1232	ND 1.3	ND 1.2	ND 1.2	ND 1.3	ND 1.4	ND 1.4	ND 1.4	ND 1.2
Aroclor - 1242	ND 1.3	ND 1.2	ND 1.2	ND 1.3	ND 1.4	ND 1.4	ND 1.4	ND 1.2
Aroclor - 1248	ND 1.3	ND 1.2	ND 1.2	ND 1.3	ND 1.4	ND 1.4	ND 1.4	ND 1.2
Aroclor - 1254	ND 1.3	ND 1.2	ND 1.2	ND 1.3	ND 1.4	ND 1.4	ND 1.4	ND 1.2
Aroclor - 1260	ND 1.3	60 D	1.6	2100 DJ	23000 DJ	16	ND 1.4	ND 1.2

TABLE 4-1
FMC TONAWANDA FACILITY - ADDITIONAL INVESTIGATION
SOIL BORING AND SURFACE SOIL GRID SAMPLE PCB RESULTS

Sample ID Sample date Units	D4 7/28/95 mg/kg	Y4C 7/28/95 mg/kg	Y7A 7/31/95 mg/kg	EB 7/27/95 mg/kg	HB 7/27/95 mg/kg	IB 7/27/95 mg/kg	Rinsate-1 7/28/95 ug/l	Rinsate-2 7/31/95 ug/l
I. SOIL BORING PCB RESULTS - cont.								
PCBs								
Aroclor - 1016	ND 1.1	ND 1.2	ND 1.2	ND 1.2	ND 1.2	ND 1.2	ND 0.50	ND 0.50
Aroclor - 1221	ND 1.1	ND 1.2	ND 1.2	ND 1.2	ND 1.2	ND 1.2	ND 0.50	ND 0.50
Aroclor - 1232	ND 1.1	ND 1.2	ND 1.2	ND 1.2	ND 1.2	ND 1.2	ND 0.50	ND 0.50
Aroclor - 1242	ND 1.1	ND 1.2	ND 1.2	ND 1.2	ND 1.2	ND 1.2	ND 0.50	ND 0.50
Aroclor - 1248	ND 1.1	ND 1.2	ND 1.2	ND 1.2	ND 1.2	ND 1.2	ND 0.50	ND 0.50
Aroclor - 1254	ND 1.1	ND 1.2	ND 1.2	ND 1.2	ND 1.2	ND 1.2	ND 0.50	ND 0.50
Aroclor - 1260	ND 1.1	ND 1.2	2.0	ND 1.2	ND 1.2	ND 1.2	ND 0.50	ND 0.50
II. SURFACE SOIL PCB RESULTS								
Sample ID Sample date Units	X6S 8/1/95 mg/kg	X7S 8/1/95 mg/kg	Y6S 8/1/95 mg/kg	Y7S 8/1/95 mg/kg	Z6S 7/28/95 mg/kg	A5ES 8/7/95 mg/kg	A5ES Dup. 8/7/95 mg/kg	A5NS 8/15/95 mg/kg
PCBs								
Aroclor - 1016	ND 0.093	ND 0.094	ND 0.098	ND 0.094	ND 0.110	ND 0.096	ND 0.094	ND 0.095
Aroclor - 1221	ND 0.093	ND 0.094	ND 0.098	ND 0.094	ND 0.110	ND 0.096	ND 0.094	ND 0.095
Aroclor - 1232	ND 0.093	ND 0.094	ND 0.098	ND 0.094	ND 0.110	ND 0.096	ND 0.094	ND 0.095
Aroclor - 1242	ND 0.093	ND 0.094	ND 0.098	ND 0.094	ND 0.110	ND 0.096	ND 0.094	ND 0.095
Aroclor - 1248	ND 0.093	ND 0.094	ND 0.098	ND 0.094	ND 0.110	ND 0.096	ND 0.094	ND 0.095
Aroclor - 1254	ND 0.093	ND 0.094	ND 0.098	ND 0.094	ND 0.110	ND 0.096	ND 0.094	ND 0.095
Aroclor - 1260	ND 0.093	0.690	2.8	86 D	0.180	0.73	0.97	0.210

TABLE 4-1
FMC TONAWANDA FACILITY - ADDITIONAL INVESTIGATION
SOIL BORING AND SURFACE SOIL GRID SAMPLE PCB RESULTS

Sample ID Sample date Units	A5SES 8/7/95 mg/kg	A5SS 8/7/95 mg/kg	A5WS 7/28/95 mg/kg	Rinsate-3 8/7/95 ug/l					
III. SURFACE SOIL PCB RESULTS - cont.									
PCBs									
Aroclor - 1016	ND 0.093	ND 0.096	ND 0.100	ND 0.50					
Aroclor - 1221	ND 0.093	ND 0.096	ND 0.100	ND 0.50					
Aroclor - 1232	ND 0.093	ND 0.096	ND 0.100	ND 0.50					
Aroclor - 1242	ND 0.093	ND 0.096	ND 0.100	ND 0.50					
Aroclor - 1248	ND 0.093	ND 0.096	0.340	ND 0.50					
Aroclor - 1254	ND 0.093	ND 0.096	ND 0.100	ND 0.50					
Aroclor - 1260	1.4	1.5	0.490	ND 0.50					

NOTES:

ND - Non - detected at presented quantitation limit.
D - Result reported from secondary dilution analysis.
J - Estimated concentration (see Appendix C).

TABLE 5-1
FMC TONAWANDA FACILITY
REMEDIAL MEASURES
FIELD/LABORATORY PCB RESULTS (PPM)

LOCATION	SAMPLE TYPE	FIRST CUT Sample ID Field/Lab	SECOND CUT Sample ID Field/Lab	THIRD CUT Sample ID Field/Lab	FOURTH CUT Sample ID Field/Lab	FIFTH CUT Sample ID Field/Lab	SIXTH CUT Sample ID Field/Lab
A							
North	Surface	ANS <1/1.0	AANS1 NFT/1.3 & 2.0	AANS2 NFT/0.92			
	Subsurface	AN <1/32	AN2 NFT/0.061				
South	Surface	ASS >10/NLT	ASS2 >1<10/NLT	ASS3 NFT/54	AASS1 NFT/9	AASS2 NFT/5.9(1)	
	Subsurface	AS <1/0.31					
East	Surface	AES >1<10/NLT	AES2 >10/NLT	AES3 >10/NLT	AES4 >10/NLT	AES5 <1/1.3	AAES1 NFT/0.15
	Subsurface	AE >10/NLT	AE 2 >10/NLT	AE3 >1<10/180	AE4 NFT/0.13		
West	Surface	AWS <1/NLT	AWS2 <1/1.34	AAWS1 NFT/0.29			
	Subsurface	AW >10/NLT	AW2 <1/ND 1.0				
Bottom	Base	AB <1/1.4					
NOTES: NFT - Lab sample submitted was not field tested. NLT - Field sample was not lab tested. ND - Non-detected at presented quantitation limit. Shaded areas indicates final cut. (*) - Result exceeded surface soil cleanup criterion; however the surface soil south of Location A and north of Location D was completely removed.							

TABLE 5-1
FMC TONAWANDA FACILITY
REMEDIAL MEASURES
FIELD/LABORATORY PCB RESULTS (PPM)

LOCATION	SAMPLE TYPE	FIRST CUT Sample ID Field/Lab	SECOND CUT Sample ID Field/Lab	THIRD CUT Sample ID Field/Lab	FOURTH CUT Sample ID Field/Lab	FIFTH CUT Sample ID Field/Lab	SIXTH CUT Sample ID Field/Lab
D							
North	Surface	NOT SAMPLED	DNS >1<10/NLT	DNS2 NFT/2.4	DDNS1 NFT/6.2	DDNS2 NFT/9.7(1)	
	Subsurface	DN >10/NLT	DN2 >10/NLT	DN3 >1<10/42	DN4 NFT/ND 1.0		
South	Surface	DSS >1<10/NLT	DSS2 NFT/2.8	DDSS1 NFT/2.4	DDSS2 NFT/4.2	DDSS3 NFT/3.1	DDSS4 NFT/0.2
	Subsurface	DS >1<10/0.92					
East	Surface	DES >1<10/NLT	DES2 NFT/0.43				
	Subsurface	DE >1<10/1.56					
West	Surface	DWS <1/0.6					
	Subsurface	DW >1<10/1.5					
Bottom	Base	DB <1/ND 1.0 & ND 1.0					
NOTES: NFT - Lab sample submitted was not field tested. NLT - Field sample was not lab tested. ND - Non-detected at presented quantitation limit. Shaded areas indicates final cut. (1) - Result exceeded surface soil cleanup criterion; however the surface soil south of Location A and north of Location D was completely removed.							

TABLE 5-2
FMC TONAWANDA FACILITY - REMEDIAL MEASURES
SURFACE AND SUBSURFACE SOIL COMMERCIAL LABORATORY PCB RESULTS

Sample ID Location Sample date Units	AN N. Subsurface 10/10/95 mg/kg	AN2 N. Subsurface 10/18/95 mg/kg	ANS N. Surface 10/10/95 mg/kg	AANS1 N. Surface 10/17/95 mg/kg	AANS1Dup. N. Surface 10/17/95 mg/kg	AANS2 N. Surface 10/17/95 mg/kg	AS S. Subsurface 10/10/95 mg/kg	ASS3 S. Surface 10/11/95 mg/kg
I. LOCATION A								
PCBs								
Aroclor - 1016	ND 2.2	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 2.2
Aroclor - 1221	ND 2.2	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 2.2
Aroclor - 1232	ND 2.2	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 2.2
Aroclor - 1242	ND 2.2	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 2.2
Aroclor - 1248	ND 2.2	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 2.2
Aroclor - 1254	ND 2.2	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 2.2
Aroclor - 1260	32	0.061J	1.0	1.3	2.0	0.92J	0.31J	54
II. LOCATION B								
PCBs								
Aroclor - 1016	ND 1.1	ND 1.0	ND 5.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Aroclor - 1221	ND 1.1	ND 1.0	ND 5.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Aroclor - 1232	ND 1.1	ND 1.0	ND 5.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Aroclor - 1242	ND 1.1	ND 1.0	ND 5.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Aroclor - 1248	ND 1.1	ND 1.0	ND 5.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	1.1
Aroclor - 1254	ND 1.1	ND 1.0	ND 5.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Aroclor - 1260	9.0	5.9	180	0.13J	1.3	0.15J	ND 1.0	0.24J

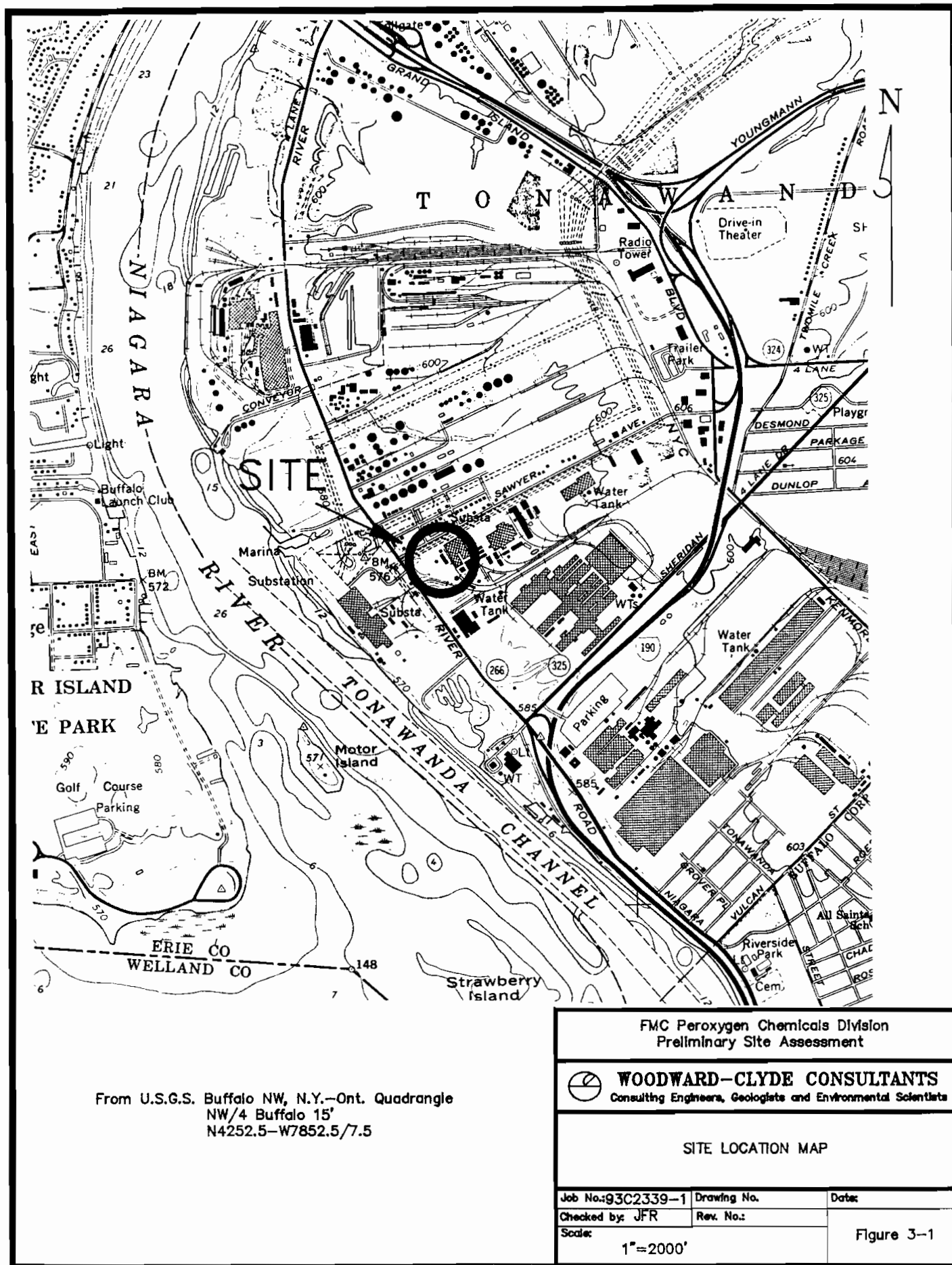
TABLE 5-2
FMC TONAWANDA FACILITY - REMEDIAL MEASURES
SURFACE AND SUBSURFACE SOIL COMMERCIAL LABORATORY PCB RESULTS

Sample ID Location Sample date Units	AAWS1 W Surface 10/17/95 mg/kg	AB Base 10/10/95 mg/kg										
I. LOCATION A												
PCBs												
Aroclor - 1016	ND 1.0	ND 1.0										
Aroclor - 1221	ND 1.0	ND 1.0										
Aroclor - 1232	ND 1.0	ND 1.0										
Aroclor - 1242	ND 1.0	ND 1.0										
Aroclor - 1248	ND 1.0	ND 1.0										
Aroclor - 1254	0.29J	ND 1.0										
Aroclor - 1260	ND 1.0	1.4										
II. LOCATION D												
PCBs												
Aroclor - 1016	ND 5.8	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Aroclor - 1221	ND 5.8	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Aroclor - 1232	ND 5.8	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Aroclor - 1242	ND 5.8	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Aroclor - 1248	ND 5.8	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Aroclor - 1254	42	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Aroclor - 1260	ND 5.8	ND 1.0	ND 1.0	2.4	6.2	9.7	0.92J	2.8	2.4			

TABLE 5-2
FMC TONAWANDA FACILITY - REMEDIAL MEASURES
SURFACE AND SUBSURFACE SOIL COMMERCIAL LABORATORY PCB RESULTS

Sample ID Location Sample date Units	DDSS2 S Surface 10/17/95 mg/kg	DDSS3 S Surface 10/17/95 mg/kg	DDSS4 S Surface 10/20/95 mg/kg	DE E Subsurface 10/11/95 mg/kg	DES2 E Surface 7/27/95 mg/kg	DW W Subsurface 10/10/95 mg/kg	DWS W Surface 10/11/95 mg/kg	DB Base 10/11/95 mg/kg
II. LOCATION D								
PCBs								
Aroclor - 1016	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Aroclor - 1221	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Aroclor - 1232	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Aroclor - 1242	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Aroclor - 1248	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Aroclor - 1254	ND 1.0	ND 1.0	ND 1.0	0.75J	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Aroclor - 1260	4.2	3.1	0.20J	0.81J	0.43J	1.5	0.60J	ND 1.0
III. LOCATION D								
Sample ID Location Sample date Units	DB Dup. Base 10/11/95 mg/kg							
PCBs								
Aroclor - 1016	ND 1.0							
Aroclor - 1221	ND 1.0							
Aroclor - 1232	ND 1.0							
Aroclor - 1242	ND 1.0							
Aroclor - 1248	ND 1.0							
Aroclor - 1254	ND 1.0							
Aroclor - 1260	ND 1.0							
NOTES: ND - Non - detected at presented quantitation limit. J - Estimated concentration.								

Figures



From U.S.G.S. Buffalo NW, N.Y.-Ont. Quadrangle
 NW/4 Buffalo 15'
 N4252.5-W7852.5/7.5

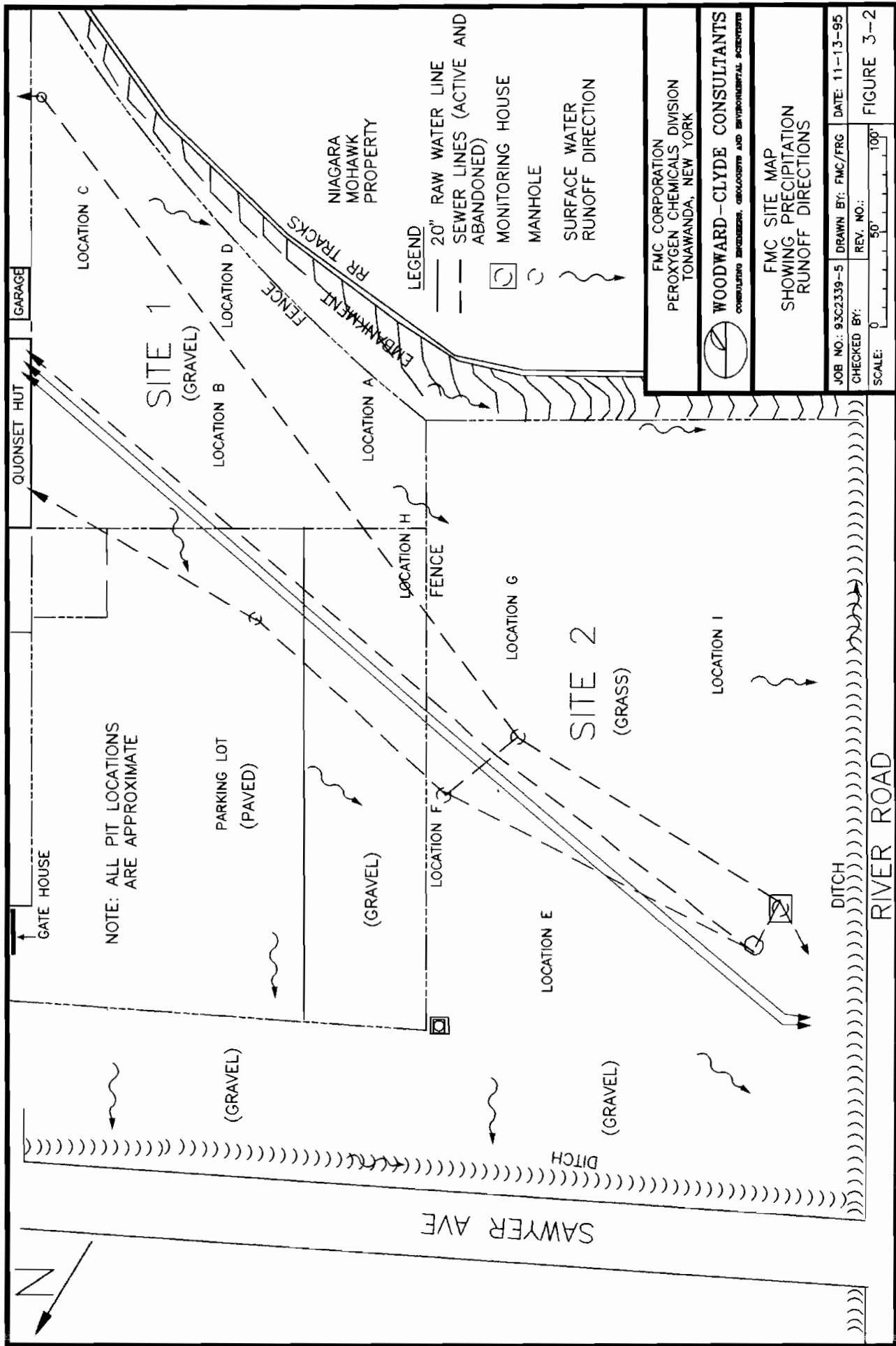
FMC Peroxygen Chemicals Division
 Preliminary Site Assessment

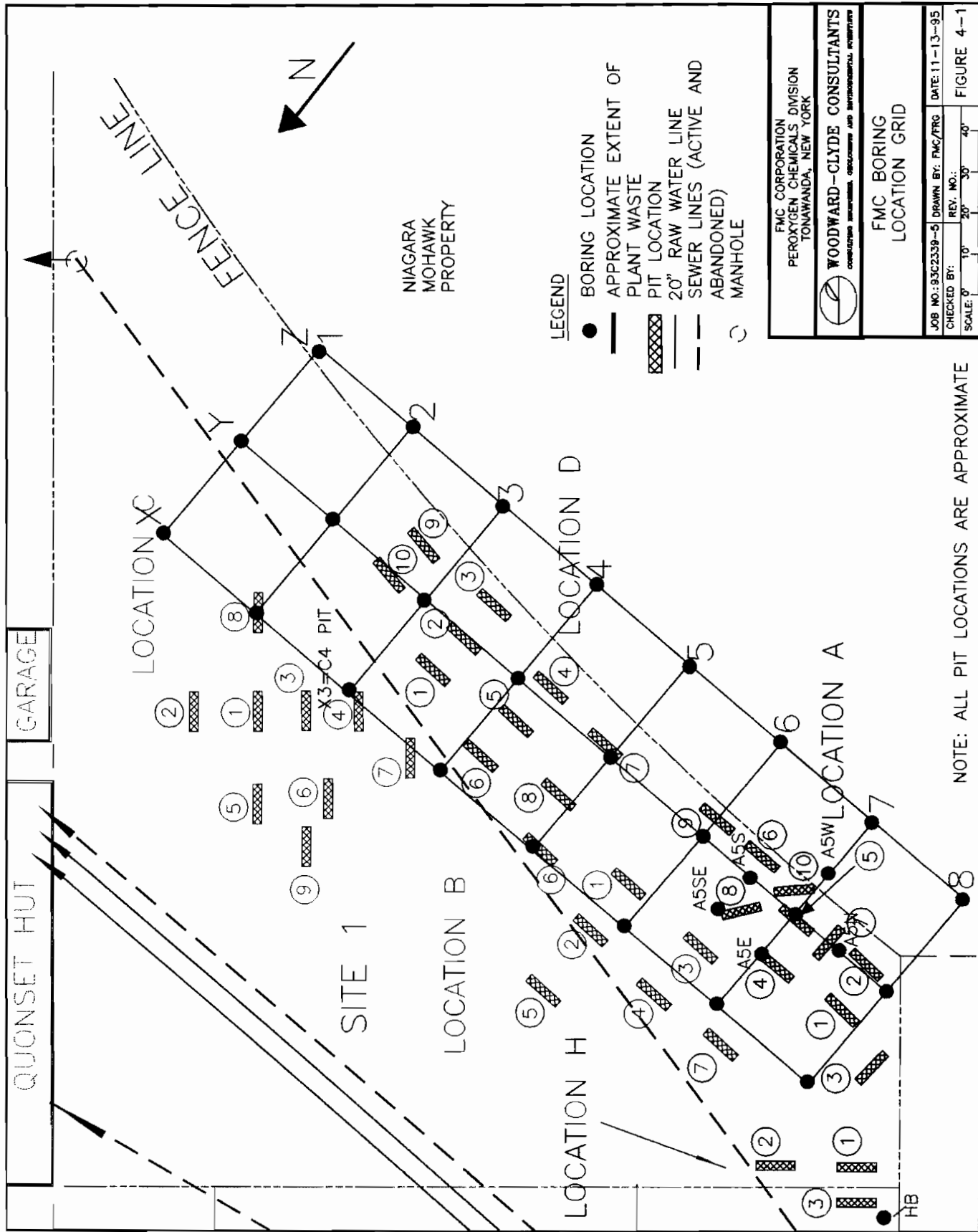


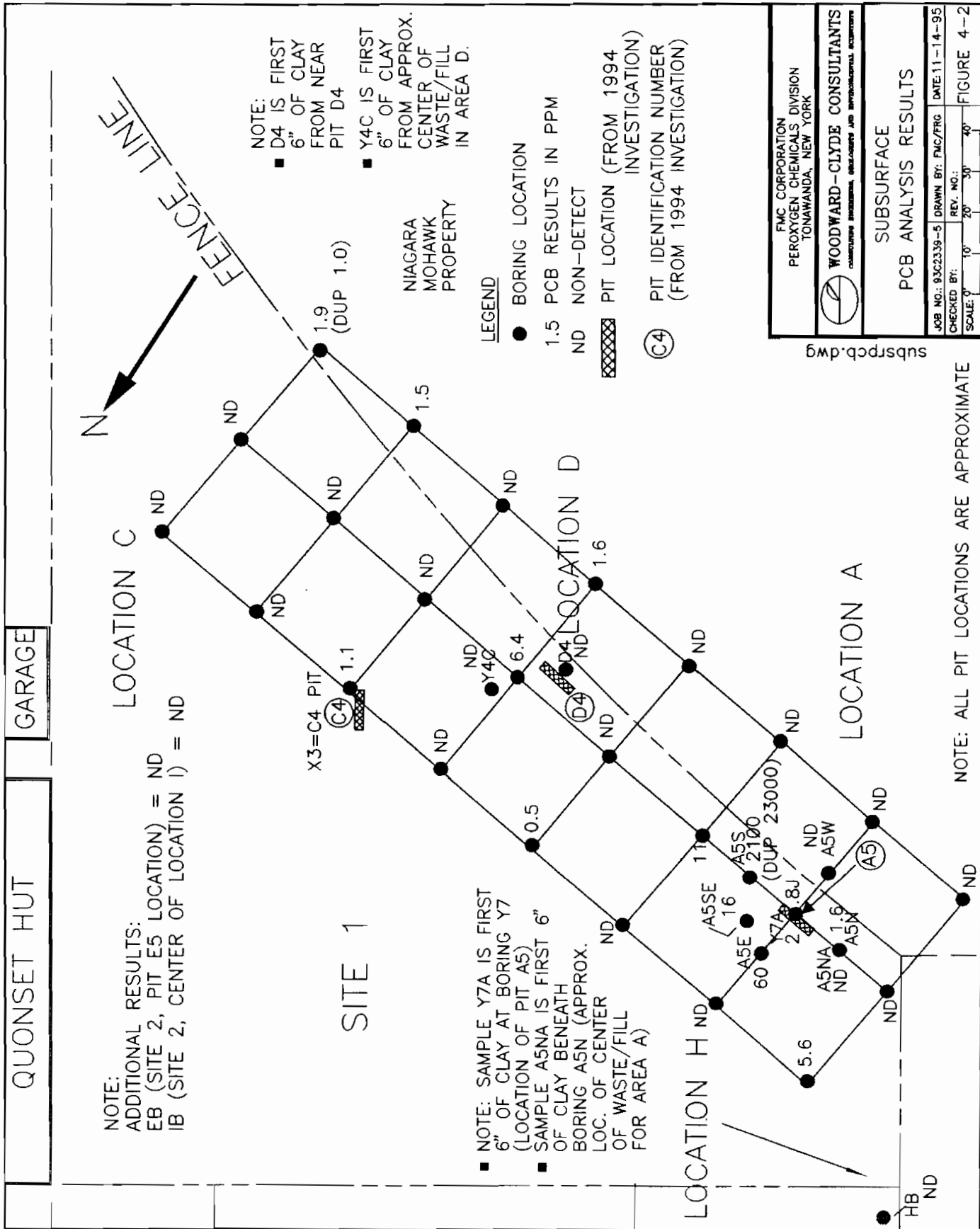
WOODWARD-CLYDE CONSULTANTS
 Consulting Engineers, Geologists and Environmental Scientists

SITE LOCATION MAP

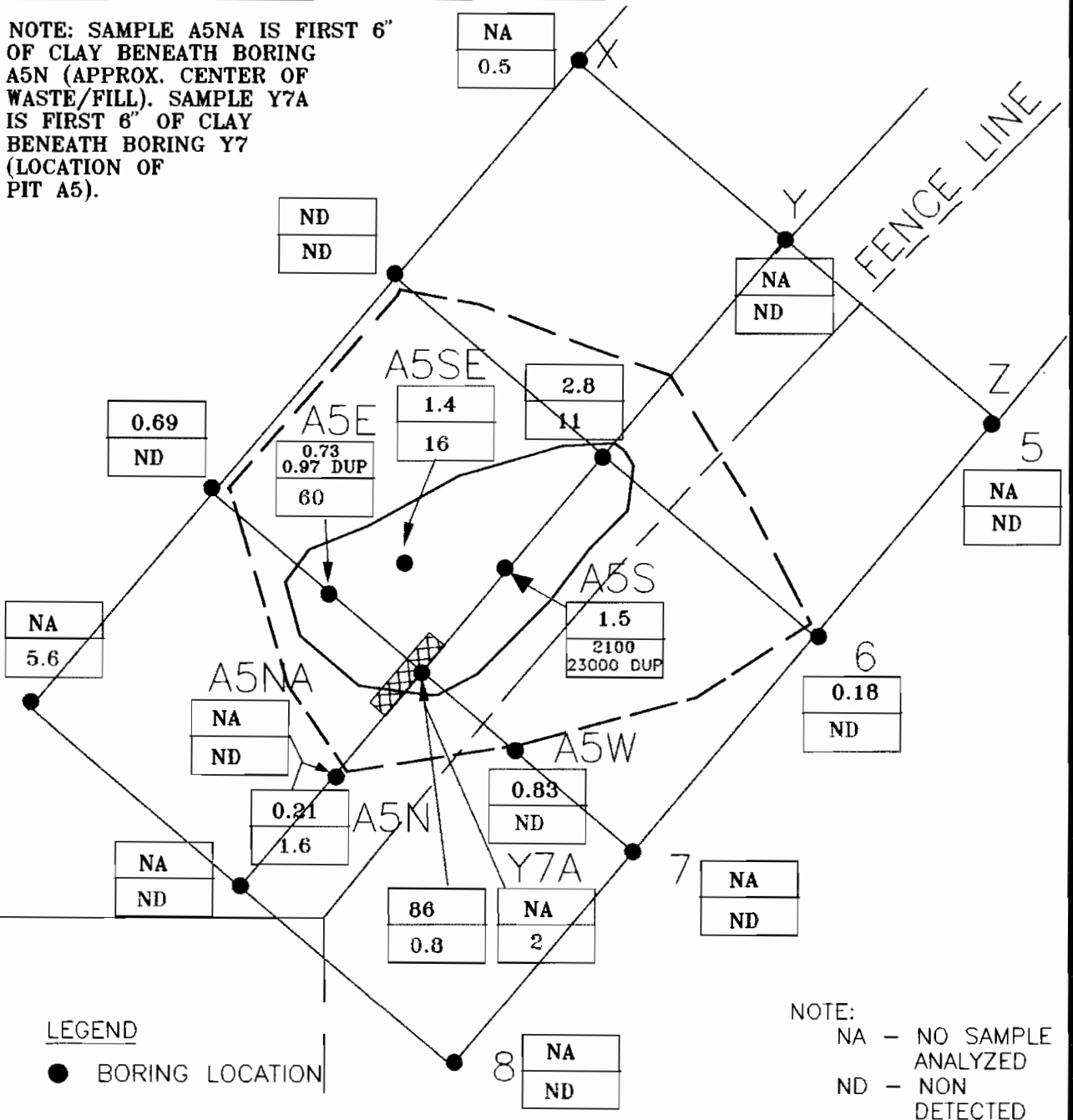
Job No.: 93C2339-1	Drawing No.	Date:
Checked by: JFR	Rev. No.:	Figure 3-1
Scale: 1"=2000'		





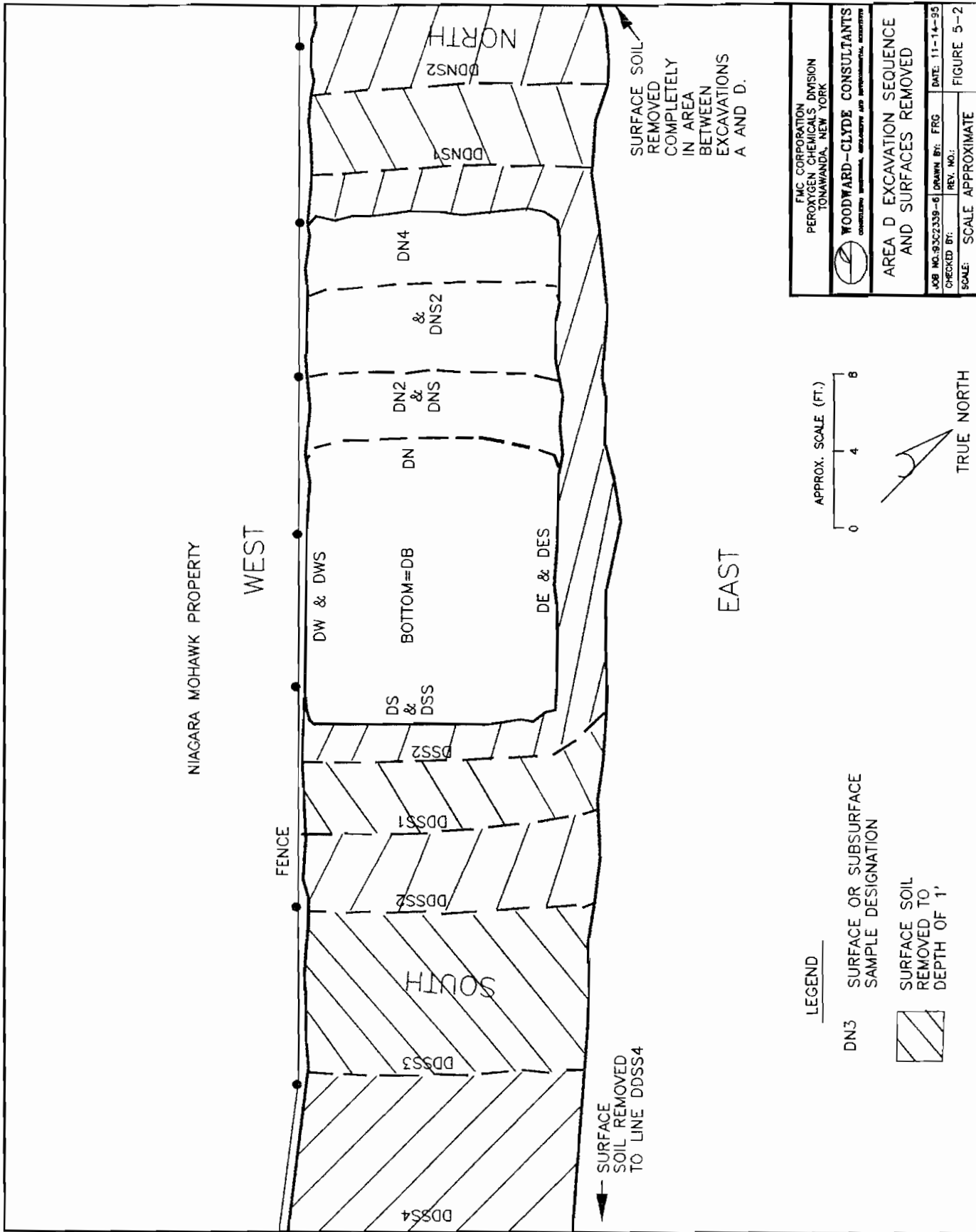


NOTE: SAMPLE A5NA IS FIRST 6" OF CLAY BENEATH BORING A5N (APPROX. CENTER OF WASTE/FILL). SAMPLE Y7A IS FIRST 6" OF CLAY BENEATH BORING Y7 (LOCATION OF PIT A5).



FMC CORPORATION PEROXYGEN CHEMICALS DIVISION TONAWANDA, NEW YORK		
WOODWARD-CLYDE CONSULTANTS CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS		
SURFACE AND SUBSURFACE PCB RESULTS IN AREA A AND POTENTIAL EXCAVATION SCENARIOS		
JOB NO.: 93C2339-5	DRAWN BY: FMC/FRG	DATE: 11-14-95
CHECKED BY:	REV. NO.:	
SCALE: 0' 10' 20'		FIGURE 4-3





APPENDIX A
SOIL BORING LOGS
ADDITIONAL INVESTIGATION

LOG OF BORING X1

DATE: 7-28-95

LOCATION: Site 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	4	Brown clay and gravel (Cap).	1.2	0
	5	Black silt and sand, occasionally flecked white (flyash?), trace gravel. Sample X1.		
	8			
	9			
2				
3	4	Red-brown clay, trace gravel (Native).	1.2	
	5			
	8			
	14			
4		Bottom of boring		
5				
6				
7				
8				
9				
10				
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 4.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING X2

DATE: 7-28-95

LOCATION: Site 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	6	Red-brown clay, some gravel (Cap).	1.1	0
	10	Black sand and silt, occasionally flecked white (flyash?), little fine gravel. Sample X2.		
	10			
2	7	Red-brown clay, some occasional black silt seams (flyash?).		
	4			
3	4	Red-brown clay, trace gravel (Native).	1.1	
	6			
	10			
4		Bottom of boring		
5				
6				
7				
8				
9				
10				
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 4.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING X3

DATE: 7-27-95

LOCATION: Site 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	4	Gravel and brown silt	1.2	0
	6	Red-brown to black clay, some gravel. Very stiff.		
	6			
	8			
2	7	Tan-brown sand, trace silt.	1.0	0
3	7			
	7			
4	5	Brown clay, some gravel, trace brick fragments. Sample X3.	0.5	0
	3			
	3			
	7			
5	7	Red-brown clay, trace gravel (Native).	1.0	
	3			
	16			
	18			
6	20	Bottom of boring		
	18			
7		* NOTE: This location corresponds to test pit location C4 and is a NYSDEC requested boring.		
8				
9				
10				
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 8.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING X4

DATE: 7-28-95

LOCATION: Site 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	3	Brown clay and gravel (Cap).	1.5	0
	4	Red-brown clay, mottled with black clay, some silt, trace gravel. Sample X4.		
	7			
	7			
2	4	Red-brown clay, trace gravel (Native).	1.4	
3	4			
	7			
	8			
4		Bottom of boring		
5				
6				
7				
8				
9				
10				
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 4.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING X5

DATE: 7-28-95

LOCATION: Site 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	4	Brown silt and clay, some gravel (Cap).	1.2	0
		Brown clay and red brick fragments.		
	4	Black and red-brown clay, some seams of red-brown, mottled black silt (flyash?).		
	4			
2	4			
3	3	...as above	0.1	
	4			
	5			
	5			
4				0
5	3	Brown to black-brown clay, some black silt. Sample X5.	1.1	
	7			
	16	Red-brown clay, trace gravel (Native)		
	16			
6				
7		Bottom of boring		
8				
9				
10				
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 6.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING X6

DATE: 7-31-95

LOCATION: Site 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	3	Brown clay and gravel (Cap).	0.8	0
	2	Red-brown clay with little yellow and black mottling, trace gravel.		
	4			
	5			
2	4	Black clay and silt, some sand (flyash?). Soft, moist. Sample X6.	1.3	0
3	5			
	10			
	13			
4	5	Red-brown clay, trace gravel (Native).	1.0	
5	10			
	12			
	21			
6		Bottom of boring		
7				
8				
9				
10				
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 6.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING X7

DATE: 7-31-95

LOCATION: Site 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	4	Brown clay and gravel (Cap).	0.7	0
	3	Black fine sand and silt (flyash?), some clay. Sample X7.		
	6			
	8			
2				0
3	5	Red-brown clay, with some black mottling, trace gravel.	0.9	
	5			
	5			
	5			
4		no recovery	no recovery	
5	NA			
	NA			
	NA			
	NA			
6				
7	12	Red-brown clay, trace gravel (Native). Slightly moist.	1.7	
	14			
	18			
	13			
8		Bottom of boring		
9				
10				
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 8.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING X8

DATE: 7-31-95

LOCATION: Site 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	6	Brown clay and gravel (Cap).	1.0	0
	8	Black silt and clay, some gravel. Wet. Sample X8. (Area of perched water in brick rubble discovered during the test pit study.)		
	10			
	8			
2	4	Red-brown clay, trace gravel (Native). Stiff, dry.	1.3	
3	8			
	12			
	8			
4		Bottom of boring		
5				
6				
7				
8				
9				
10				
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 4.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING Y1

DATE: 7-28-95

LOCATION: Site 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	4	Brown clay, little gravel.(Cap).	1.5	0
	10	Black clay, some gravel .		
	11	Brown to black sand, occasional white flecks (flyash?), trace silt. Sample Y1.		
2	7	Red-brown clay, trace gravel (Native)	0.9	0
	3			
	4			
3	8	Bottom of boring		
	9			
4				
5		Bottom of boring		
6				
7				
8		Bottom of boring		
9				
10				
11		Bottom of boring		

SURFACE ELEVATION:

COMPLETION DEPTH: 4.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING Y2

DATE: 7-28-95

LOCATION: Site 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	4	Red-brown clay and gravel (Cap).	0.8	0.5
	7	Black silt, some sand (flyash?)		
	7			
	7			
2	2	Black and red-brown clay, some black silt (flyash?), little gravel. Sample Y2.	1.4	0
3	3			
	3	Red-brown clay, occasionally mottled yellow, trace gravel. Sample Y2.		
	4			
4	4	Red-brown clay, trace gravel (Native).	1.2	
5	13			
	13			
	22			
6		Bottom of boring		
7				
8				
9				
10				
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 6.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING Y3

DATE: 7-28-95

LOCATION: Site 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	4	Brown clay and gravel (Cap).	0.7	0
	5	Red-brown clay, occasionally mottled black		
	8			
	7			
2				
3	3	Red-brown clay, trace gravel. Soft.	0.8	0
	3			
	4			
	5			
4				
5	3	Black silt and sand (flyash?), trace gravel.	1.3	0
	3	Red-brown clay, occasionally mottled black, with thin black silt seams. Moist. Sample Y3.		
	3			
	3			
6				
7	3	Black silt and clay. Soft and moist with sewage-like odor. Sample Y3.	0.7	0
	3			
	3			
	3			
8				
9	4	Red-brown clay, trace gravel (Native).	1.3	
	8			
	14			
	21			
10				
11		Bottom of boring		

SURFACE ELEVATION:

COMPLETION DEPTH: 10.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING Y4

DATE: 7-28-95

LOCATION: Site 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	3	Brown clay and gravel (Cap)	0.2	0.5
	4	Red-brown clay, some black silt seams (flyash?), moist.		
	4			
	4			
2	3		1.4	
3	2	Brown to brown-black clay and silt, some white flecks, moist. Sewage like odor. Sample Y4.		
	4			
	4			
4	3		1.1	
5	4	Red-brown clay, trace gravel. Stiff, dry. (Native)		
	15			
	16			
6			Bottom of boring	
7				
8				
9				
10				
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 6.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING Y4C

DATE: 7-28-95

LOCATION: Site 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1				
2				
3		Auger to 3 feet		
4	3	?	no recovery	
	4			
	4	?		
5	5			
	3	Red-brown to black clay, some black silt	1.7	
	15	Red-brown clay, trace gravel (Native). Samples from 5.3'-5.8', 5.8'-6.3', 6.3'-6.7'		
6	16	in native clay (or 0-6", 6"-12", and 12"-18"		
	18	below top of native clay).		
7		Bottom of boring		
8				
9				
10				
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 7.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING Y5

DATE: 7-28-95

LOCATION: Site 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	3	Brown silt and gravel (Cap)	1.0	
	4	Black silt and sand (flyash?)		
	5			
2	7	Black to red-brown clay, some black silt, trace gravel.		
		...becoming moist.		
3	3	Black silt and sand, little gravel, moist to wet (white, flaky, hard substance and disk of plastic in spoon tip). Sample Y5. as above with increasing black clay.	0.6	0
	1			
	1			
4	3			
5	1	Red-brown clay with seams of red-brown and mottled black clay. Sample Y5. grades to...	1.1	0
	1			
	3			
6	6			
7	3	Red-brown clay, trace gravel (Native).	1.4	
	8			
	9			
8	15			
9		Bottom of boring		
10				
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 8.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING Y6

DATE: 7-31-95

LOCATION: Site 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	4	Brown clay and silt, some gravel (Cap).	0.4	0
	2			
	4			
	8			
2	4	Red-brown clay and gravel	1.0	
3	2	Black to white coarse sand, little silt. Sample Y6.		
	3	Black and red-brown clay, some gravel, stiff to soft, moist. Sample Y6.		
	4			
4	4	Red-brown clay, trace gravel (Native).	1.2	
5	8			
	18			
	22			
6		Bottom of boring		
7				
8				
9				
10				
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 6.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING Y7

DATE: 7-31-95 LOCATION: Site 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	5	Gravel and brown silt (Cap).	0.2	0
	6			
	4			
2	3	Red-brown clay mottled black, some gravel		
	5			
3	4	Black to red-brown clay, some to little gravel, slightly moist. Sample Y7.	1.3	0
	4			
	3			
4		Red-brown clay, some (white) gravel.		0
	4	Red-brown clay mottled black and yellow, trace gravel.		
5	4	Red-brown clay, trace gravel (Native) Sample Y7A (4.5'-5.0'), Sample Y7B (5.0'-5.4')	1.4	0
	6			
6	10	as above. Sample Y7C (6.5'-7.0'). Samples represent 0'-6", 6"-12" and 18"-24" intervals below top of native clay.	1.1	
	8			
	13			
7	20			
	24			
8		Bottom of boring		
9				
10				
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 8.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING Y8

DATE: 7-31-95

LOCATION: Site 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	3	Red-brown clay and gravel, little silt (Cap)	1.0	0
	5	Black silt and clay, moist.		
	5			
	7			
2	4	...becoming wet (Water perched at ~2' in brick rubble in test pits)	1.3	0
3	4	Black clay mottled yellow, some silt, some red brick fragments. Becoming dry. Sample Y8.		
	9			
	9			
4	4	No recovery - wet.	0	
5	8			
	8			
6	14			
	8			
	18			
	28			
7	18	Red-brown clay, trace gravel, dry to slightly moist (Native)	1.3	
	30			
9	31			
10		Bottom of boring		
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 10.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING Z1

DATE: 7-28-95

LOCATION: Site 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	6	Brown clay and gravel (Cap)	0.6	0
	7	Black silt and sand (flyash?), little brick fragments		
	13			
	13			
2	7	as above, less brick fragments, increasing black sand (flyash?) with white flecks.	2.0	0
3	4	Sample Z1.		
	4	grades to...		
4	4	Black clay, some silt, little sand		
	7	Red-brown clay, trace gravel (Native).	0.7	0
	4			
5	5			
	7			
	13			
6		Bottom of boring		
7				
8				
9				
10				
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 6.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING Z2

DATE: 7-27-95

LOCATION: SITE 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	3	Brown clay, little silt, roots (Topsoil)	1.2	0
	5	Black sand, some silt, little brick, slag		
	15			
	15			
2				
3	2	Black sand-like material (flyash?), flecked white. Dry to slightly moist. Sample Z2.	0.9	0
	5			
	8			
	8			
4				
5	11	Red-brown clay, little gravel, stiff (Native)	0.7	
	5			
	15			
	20			
6				
7	7		1.2	
	17			
	25			
	42			
8		Bottom of boring		
9				
10				
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 8.0 FT.

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING Z3

DATE: 7-27-95

LOCATION: SITE 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)	
1	4	Brown sand, some silt and clay (Topsoil)	1.4	0	
	4	Black sand, some silt, occasionally flecked white (flyash?)			
	8				
	11				
2	8	as above with occasional red brick fragments. Sample Z3.	1.4	0	
3					8
					4
					4
4	4	Red-brown clay, little gravel, trace silt, stiff (Native).	1.2		
5	4				
	7				
	7				
6	Bottom of boring				
7					
8					
9					
10					
11					

SURFACE ELEVATION:

COMPLETION DEPTH: 6.0 FT.

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING Z4

DATE: 7-27-95

LOCATION: SITE 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)	
1	4	Brown clay, little silt (Topsoil)	0.9	0	
	8	Brown clay, some gravel, trace black sand like material (flyash?). Very stiff. Dry.			
	6				
	13				
2	3	Black sand like material (flyash?), wet. Sample Z4.	0.6	1-2	
3	4				
	3				
4	3				
5	4	Red-brown clay, little gravel (Native). Dry.	0.85	0	
	15				
	18				
	20				
6	10		1.5		
7					14
					20
8					20
9		Bottom of boring			
10					
11					

SURFACE ELEVATION:

COMPLETION DEPTH: 8.0 FT

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING Z5

DATE: 7-27-95

LOCATION: SITE 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	8	Brown silt, some sand, roots (Topsoil)	1.0	0
	10	Brown-black sand, some silt, brick fragment in spoon tip.		
	100/.1			
2				
3	6	Brown-black sand with occasional white flecks, some red brick fragments and roots.	0.8	0
	7	Black sand like material with white flecks (flyash?)		
	8			
4	6		1.1	0
	3	Red-brown clay, trace gravel (Native). Dry.		
	3			
5	6			
6	14			
		Bottom of boring		
7				
8				
9				
10				
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 6.0 FT

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339

 WOODWARD-CLYDE CONSULTANTS

LOG OF BORING Z6

DATE: 7-27-95

LOCATION: SITE 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	3	Brown sand, some silt, little roots (Topsoil)	0.8	0
	3	Brown sand, some silt, mottled with black sand (flyash?)		
	6			
	20	grading to...		
2	3	Black sand, some silt and brick fragments. Sample Z6.	1.1	0
	3			
3	6			
	9			
4	3	Red-brown clay, trace gravel. Dry, stiff. (Native)	1.2	
	6			
5	6			
	12			
6		Bottom of boring		
7				
8				
9				
10				
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 6.0 FT.

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING Z7

DATE: 7-27-95

LOCATION: Site 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	5	Brown silt, trace sand and roots (Topsoil)	1.1	0
	6	Black sand like material mottled with white flecks (flyash?), trace brick fragments.		
	5			
	8			
2	3	becoming moist... Sample Z7.	1.2	
5				
6				
8				
4	6	Red-brown clay, trace silt and gravel. Dry. (Native).	0.5	0
5	7			
	13			
	13			
6		Bottom of boring		
7				
8				
9				
10				
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 6.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING Z8

DATE: 7-27-95

LOCATION: Site 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	3	Brown silt, some roots (Topsoil)	1.0	0
	8			
	10	Brown silt mottled with black sand like material (flyash?).		
	11			
2	3	Black clay (reworked with black sand/ flyash?) mottled with yellow clay. Sample Z8.		0
	5			
3	5	Red-brown clay, trace gravel. Stiff. (Native).	0.9	0
	7			
4	3			
	5			
5	9		1.2	
	15			
6				
7		Bottom of boring		
8				
9				
10				
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 6.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING D-4

DATE: 7-28-95

LOCATION: Site 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1				
2				
3				
4				
5				
6				
7		Auger to 7 feet		
8	4	Red-brown to black clay grading to ...	0.8	
	9	Red-brown clay, trace gravel (Native)		
	17	Sample from 8.0'-8.5'		
	36			
9	18	Sample from 9.0'-9.5' and 10.0'-10.5' (samples taken from 0'-6", 6"-12", and 18"-24" below approximate top of native clay).	1.6	
	22			
10	31			
	21			
11		Bottom of boring		

SURFACE ELEVATION:

COMPLETION DEPTH: 11.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING EB

DATE: 7-27-95

LOCATION: Site 2, Location E

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	11	Brown silt and clay (Topsoil).	1.4	0
	14	Brown-red silt and gravel (shot rock), little clay.		
	19			
	28			
2	15	increasing clay...	0.8	0
3	9			
	7			
	8			
4	10	Red-brown clay, some gravel, little glass fragments. Sample EB.	0.3	0
5	5			
	8			
	8			
6	4	Red-brown clay, some mottled black, little gravel. Sample EB.	0.9	
7	4	Red-brown clay, trace gravel (Native).		
	7			
	13			
8		Bottom of boring		
9				
10		* NOTE: This boring corresponds to test pit location E-5 in location E, Site 2 and was requested by the NYSDEC.		
11				

* NOTE: This boring corresponds to test pit location E-5 in location E, Site 2 and was requested by the NYSDEC.

SURFACE ELEVATION:

COMPLETION DEPTH: 6.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339

WOODWARD-CLYDE CONSULTANTS

LOG OF BORING HB

DATE: 7-27-95

LOCATION: Site 1, Location H

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	3	Red-brown and black clay, some gravel.	0.7	0
	3	Black sand (flyash?), some brick fragments.		
	6	Wet. (Located in area of subsurface brick rubble containing perched water - discovered during the test pit study.)		
	2			
2	4		1.1	0
3	4	Black clay, some mottled red-brown, some brick fragments. Sample HB.		
	10			
	10			
4	8	Red-brown clay, trace gravel (Native).	0.6	
5	12			
	21			
	21			
6		Bottom of boring		
7				
8				
9				
10		* NOTE: This boring was placed in the approximate center of Location H (Site 1) and is a NYSDEC requested boring.		
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 6.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING IB

DATE: 7-27-95

LOCATION: Location I, Site 2

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	6	Brown silt, little gravel and roots (Topsoil)	0.6	0
	10	Brown silt and gravel, moist.		
	12			
	16			
2	3	Brown-black clay, mottled yellow, trace gravel, One inch black sand (flyash?) seam at approximately -3.5 ft. Sample IB.	1.0	0
6				
8				
3	8	Red-brown clay, trace gravel (Native).	1.0	0
4	8			
5	7			
	10			
	15			
6	20	Bottom of boring		
7				
8				
9	* NOTE: This boring was placed in the approximate center of Location I, Site 2. It was a NYSDEC requested boring.			
10				
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 6.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING A5W

DATE: 7-28-95

LOCATION: Site 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)	
1	7 7 13 14	No recovery.	no recovery	0	
2					
3	7	Black clay, soft, moist to wet, no odor. Sample A5W.	1.3		
	5				
	3	Red-brown clay, trace gravel (Native).			
18					
4		Bottom of boring			
5					
6					
7					
8					
9					
10					
11					

SURFACE ELEVATION:

COMPLETION DEPTH: 4.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING A5N

DATE: 7-31-95 LOCATION: Site 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	4	Brown clay and gravel	0.6	0
	5	Grey-blue sand (salts?) and gravel, little clay. Sample A5N.		
	8			
	6			
2				
3	8	Brown sand and gravel (little recovery)	0.1	
	18			
	11			
	26			
4				
5	4	Red-brown clay, some wood fragments (little recovery).	0.3	
	8			
	8			
	12			
6				
7	6	Black clay, little gravel, moist.	1.2	0
	12	Red-brown clay, trace gravel (Native). Dry, stiff. Sample A5NA. ((6.6'-7.2')		
	20			
	36			
8				
9	8	as above. Sample A5NB (8.0'-8.5') and A5NC (8.5'-9.0'). Samples A5N A thru C represent the 0-6", 6"-12" and 18"-24" intervals below the top of the native clay.	1.8	
	12			
	22			
	36			
10				
		Bottom of boring		
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 10.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING A5S

DATE: 7-31-95

LOCATION: Site 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	5	Gravel and brown silt, some red-brown clay (Cap).	0.9	
	5	Red-brown clay, mottled black, trace gravel.		
	5			
2	7		1.1	0
3	3			
	4	Black coarse sand, flecked white (flyash?), some silt, faint TCE like odor. Sample A5S.		
4	5		1.7	0
	4			
	4	Red-brown clay, mottled black. Soft, moist, no odor		
5	10		1.7	
	14	Red-brown clay, trace gravel (Native). Stiff, dry.		
	13			
6		Bottom of boring		
7				
8				
9				
10				
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 6.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING A5E

DATE: 7-31-95

LOCATION: Site 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	10	Brown clay and gravel (Cap).	0.5	0
	12	Black clay and gravel.		
	14			
	21			
2				
3	10	Gravel and blue-white sand (salts?), some silt, little red-brown clay, mottled yellow. Moist. Sample A5E.	0.4	0
	15			
	7			
	7			
4				
5	4	Black to red-brown clay. Soft, slightly moist.	1.0	0
	6	Red-brown clay, trace gravel (Native). Stiff, dry.		
	16			
	18			
6		Bottom of boring		
7				
8				
9				
10				
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 6.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

LOG OF BORING A5SE

DATE: 7-31-95

LOCATION: Site 1

DEPTH	SAMPLING RESISTANCE	DESCRIPTION	RECOVERY (FT)	OVA (PPM)
1	5	Brown clay and gravel (Cap)	0.5	0
		Brown to black clay, some gravel.		
	10	Rock		
	50/0			
2				
3	5	Red-brown to black clay, some silt, trace gravel. Moist.	1.5	0
	5	Black clay, some silt and sand. Moist. Sample A5SE.		
	5			
	5			
4				
5	5	Black clay, trace gravel. Stiff, dry.	1.1	
	10	Red-brown clay, trace gravel (Native)		
	18			
	18			
6				
		Bottom of boring		
7				
8				
9				
10				
11				

SURFACE ELEVATION:

COMPLETION DEPTH: 6.0

WATER DEPTH: NA

PROJECT NAME: FMC CORP. TONAWANDA, NEW YORK FACILITY SOIL BORINGS

PROJECT NUMBER: 93C2339



WOODWARD-CLYDE CONSULTANTS

APPENDIX B
LABORATORY DATA SUMMARY FORMS
ADDITIONAL INVESTIGATION

8080PCB - FORM 1
NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: X1
CONC. LEVEL: MED LAB SAMPLE ID: 2459104
EXTRACTION DATE: 08/01/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/02/95 % MOISTURE: 24

MG/KG			
(DRY BASIS)			
CMPD #	CAS Number	PCB COMPOUND	
1	12674-11-2	Aroclor-1016	1.3 U
2	11104-28-2	Aroclor-1221	1.3 U
3	11141-16-5	Aroclor-1232	1.3 U
4	53469-21-9	Aroclor-1242	1.3 U
5	12672-29-6	Aroclor-1248	1.3 U
6	11097-69-1	Aroclor-1254	1.3 U
7	11096-82-5	Aroclor-1260	1.3 U

8080PCB - FORM 1
NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: X2
CONC. LEVEL: MED LAB SAMPLE ID: 2459105
EXTRACTION DATE: 08/01/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/02/95 % MOISTURE: 17

			MG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	1.2 U
2	11104-28-2	Aroclor-1221	1.2 U
3	11141-16-5	Aroclor-1232	1.2 U
4	53469-21-9	Aroclor-1242	1.2 U
5	12672-29-6	Aroclor-1248	1.2 U
6	11097-69-1	Aroclor-1254	1.2 U
7	11096-82-5	Aroclor-1260	1.2 U

8080PCB - FORM 1
NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: X3
CONC. LEVEL: MED LAB SAMPLE ID: 2455908
EXTRACTION DATE: 07/28/95 DIL FACTOR: 1.00
ANALYSIS DATE: 07/29/95 % MOISTURE: 20

			MG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	1.3 U
2	11104-28-2	Aroclor-1221	1.3 U
3	11141-16-5	Aroclor-1232	1.3 U
4	53469-21-9	Aroclor-1242	1.3 U
5	12672-29-6	Aroclor-1248	1.3 U
6	11097-69-1	Aroclor-1254	1.3 U
7	11096-82-5	Aroclor-1260	1.1 J

8080PCB - FORM 1
NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: X4
CONC. LEVEL: MED LAB SAMPLE ID: 2459111
EXTRACTION DATE: 08/01/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/02/95 % MOISTURE: 14

MG/KG			
(DRY BASIS)			
CMPD #	CAS Number	PCB COMPOUND	
1	12674-11-2	Aroclor-1016	1.2 U
2	11104-28-2	Aroclor-1221	1.2 U
3	11141-16-5	Aroclor-1232	1.2 U
4	53469-21-9	Aroclor-1242	1.2 U
5	12672-29-6	Aroclor-1248	1.2 U
6	11097-69-1	Aroclor-1254	1.2 U
7	11096-82-5	Aroclor-1260	1.2 U

8080PCB - FORM 1
NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: X5
CONC. LEVEL: MED LAB SAMPLE ID: 2459110
EXTRACTION DATE: 08/01/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/02/95 % MOISTURE: 17

			MG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	1.2 U
2	11104-28-2	Aroclor-1221	1.2 U
3	11141-16-5	Aroclor-1232	1.2 U
4	53469-21-9	Aroclor-1242	1.2 U
5	12672-29-6	Aroclor-1248	1.2 U
6	11097-69-1	Aroclor-1254	1.2 U
7	11096-82-5	Aroclor-1260	0.5 J

8080PCB - FORM 1
NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: X6
CONC. LEVEL: MED LAB SAMPLE ID: 2460411
EXTRACTION DATE: 08/02/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/02/95 % MOISTURE: 26

			MG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	1.4 U
2	11104-28-2	Aroclor-1221	1.4 U
3	11141-16-5	Aroclor-1232	1.4 U
4	53469-21-9	Aroclor-1242	1.4 U
5	12672-29-6	Aroclor-1248	1.4 U
6	11097-69-1	Aroclor-1254	1.4 U
7	11096-82-5	Aroclor-1260	1.4 U

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: X7
CONC. LEVEL: MED LAB SAMPLE ID: 2460410
EXTRACTION DATE: 08/02/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/02/95 % MOISTURE: 25

			MG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	1.3 U
2	11104-28-2	Aroclor-1221	1.3 U
3	11141-16-5	Aroclor-1232	1.3 U
4	53469-21-9	Aroclor-1242	1.3 U
5	12672-29-6	Aroclor-1248	1.3 U
6	11097-69-1	Aroclor-1254	1.3 U
7	11096-82-5	Aroclor-1260	1.3 U

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: X8
CONC. LEVEL: MED LAB SAMPLE ID: 2460409
EXTRACTION DATE: 08/02/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/03/95 % MOISTURE: 24

			MG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	1.3 U
2	11104-28-2	Aroclor-1221	1.3 U
3	11141-16-5	Aroclor-1232	1.3 U
4	53469-21-9	Aroclor-1242	1.3 U
5	12672-29-6	Aroclor-1248	1.3 U
6	11097-69-1	Aroclor-1254	1.3 U
7	11096-82-5	Aroclor-1260	5.6

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: Y1
CONC. LEVEL: MED LAB SAMPLE ID: 2459102
EXTRACTION DATE: 08/01/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/02/95 % MOISTURE: 21

			MG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	1.3 U
2	11104-28-2	Aroclor-1221	1.3 U
3	11141-16-5	Aroclor-1232	1.3 U
4	53469-21-9	Aroclor-1242	1.3 U
5	12672-29-6	Aroclor-1248	1.3 U
6	11097-69-1	Aroclor-1254	1.3 U
7	11096-82-5	Aroclor-1260	1.3 U

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: Y2
CONC. LEVEL: MED LAB SAMPLE ID: 2459106
EXTRACTION DATE: 08/01/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/02/95 % MOISTURE: 26

			MG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	1.4 U
2	11104-28-2	Aroclor-1221	1.4 U
3	11141-16-5	Aroclor-1232	1.4 U
4	53469-21-9	Aroclor-1242	1.4 U
5	12672-29-6	Aroclor-1248	1.4 U
6	11097-69-1	Aroclor-1254	1.4 U
7	11096-82-5	Aroclor-1260	1.4 U

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: Y3
CONC. LEVEL: MED LAB SAMPLE ID: 2459107
EXTRACTION DATE: 08/01/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/02/95 % MOISTURE: 25

			MG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	1.3 U
2	11104-28-2	Aroclor-1221	1.3 U
3	11141-16-5	Aroclor-1232	1.3 U
4	53469-21-9	Aroclor-1242	1.3 U
5	12672-29-6	Aroclor-1248	1.3 U
6	11097-69-1	Aroclor-1254	1.3 U
7	11096-82-5	Aroclor-1260	1.3 U

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: Y4
CONC. LEVEL: MED LAB SAMPLE ID: 2459108
EXTRACTION DATE: 08/01/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/02/95 % MOISTURE: 26

			MG/KG
CPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	1.4 U
2	11104-28-2	Aroclor-1221	1.4 U
3	11141-16-5	Aroclor-1232	1.4 U
4	53469-21-9	Aroclor-1242	1.4 U
5	12672-29-6	Aroclor-1248	1.4 U
6	11097-69-1	Aroclor-1254	1.4 U
7	11096-82-5	Aroclor-1260	6.4

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: Y5
CONC. LEVEL: MED LAB SAMPLE ID: 2459109
EXTRACTION DATE: 08/01/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/02/95 % MOISTURE: 19

			MG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	1.2 U
2	11104-28-2	Aroclor-1221	1.2 U
3	11141-16-5	Aroclor-1232	1.2 U
4	53469-21-9	Aroclor-1242	1.2 U
5	12672-29-6	Aroclor-1248	1.2 U
6	11097-69-1	Aroclor-1254	1.2 U
7	11096-82-5	Aroclor-1260	1.2 U

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: Y6
CONC. LEVEL: MED LAB SAMPLE ID: 2460401
EXTRACTION DATE: 08/02/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/03/95 % MOISTURE: 14

MG/KG			
(DRY BASIS)			
CMPD #	CAS Number	PCB COMPOUND	
1	12674-11-2	Aroclor-1016	1.2 U
2	11104-28-2	Aroclor-1221	1.2 U
3	11141-16-5	Aroclor-1232	1.2 U
4	53469-21-9	Aroclor-1242	1.2 U
5	12672-29-6	Aroclor-1248	1.2 U
6	11097-69-1	Aroclor-1254	1.2 U
7	11096-82-5	Aroclor-1260	11.0

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: Y7
CONC. LEVEL: MED LAB SAMPLE ID: 2460402
EXTRACTION DATE: 08/02/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/03/95 % MOISTURE: 28

MG/KG (DRY BASIS)			
CMPD #	CAS Number	PCB COMPOUND	
1	12674-11-2	Aroclor-1016	1.4 U
2	11104-28-2	Aroclor-1221	1.4 U
3	11141-16-5	Aroclor-1232	1.4 U
4	53469-21-9	Aroclor-1242	1.4 U
5	12672-29-6	Aroclor-1248	1.4 U
6	11097-69-1	Aroclor-1254	1.4 U
7	11096-82-5	Aroclor-1260	0.8 J

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: Y8
CONC. LEVEL: MED LAB SAMPLE ID: 2460404
EXTRACTION DATE: 08/02/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/02/95 % MOISTURE: 22

				MG/KG
CMPD #	CAS Number	PCB COMPOUND		(DRY BASIS)
1	12674-11-2	Aroclor-1016		1.3 U
2	11104-28-2	Aroclor-1221		1.3 U
3	11141-16-5	Aroclor-1232		1.3 U
4	53469-21-9	Aroclor-1242		1.3 U
5	12672-29-6	Aroclor-1248		1.3 U
6	11097-69-1	Aroclor-1254		1.3 U
7	11096-82-5	Aroclor-1260		1.3 U

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: Z1
CONC. LEVEL: MED LAB SAMPLE ID: 2459101
EXTRACTION DATE: 08/01/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/01/95 % MOISTURE: 24

MG/KG			
(DRY BASIS)			
CMPD #	CAS Number	PCB COMPOUND	
1	12674-11-2	Aroclor-1016	1.3 U
2	11104-28-2	Aroclor-1221	1.3 U
3	11141-16-5	Aroclor-1232	1.3 U
4	53469-21-9	Aroclor-1242	1.3 U
5	12672-29-6	Aroclor-1248	1.3 U
6	11097-69-1	Aroclor-1254	1.3 U
7	11096-82-5	Aroclor-1260	1.9

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: T1
CONC. LEVEL: MED LAB SAMPLE ID: 2459103
EXTRACTION DATE: 08/01/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/02/95 % MOISTURE: 25

MG/KG (DRY BASIS)			
CMPD #	CAS Number	PCB COMPOUND	
1	12674-11-2	Aroclor-1016	1.3 U
2	11104-28-2	Aroclor-1221	1.3 U
3	11141-16-5	Aroclor-1232	1.3 U
4	53469-21-9	Aroclor-1242	1.3 U
5	12672-29-6	Aroclor-1248	1.3 U
6	11097-69-1	Aroclor-1254	1.3 U
7	11096-82-5	Aroclor-1260	1.0 J

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: Z2
CONC. LEVEL: MED LAB SAMPLE ID: 2455901
EXTRACTION DATE: 07/28/95 DIL FACTOR: 1.00
ANALYSIS DATE: 07/28/95 % MOISTURE: 22

				MG/KG
CMPD #	CAS Number	PCB COMPOUND		(DRY BASIS)
1	12674-11-2	Aroclor-1016		1.3 U
2	11104-28-2	Aroclor-1221		1.3 U
3	11141-16-5	Aroclor-1232		1.3 U
4	53469-21-9	Aroclor-1242		1.3 U
5	12672-29-6	Aroclor-1248		1.3 U
6	11097-69-1	Aroclor-1254		1.3 U
7	11096-82-5	Aroclor-1260		1.5

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: Z3
CONC. LEVEL: MED LAB SAMPLE ID: 2455902
EXTRACTION DATE: 07/28/95 DIL FACTOR: 1.00
ANALYSIS DATE: 07/28/95 % MOISTURE: 28

			MG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	1.4 U
2	11104-28-2	Aroclor-1221	1.4 U
3	11141-16-5	Aroclor-1232	1.4 U
4	53469-21-9	Aroclor-1242	1.4 U
5	12672-29-6	Aroclor-1248	1.4 U
6	11097-69-1	Aroclor-1254	1.4 U
7	11096-82-5	Aroclor-1260	1.4 U

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: Z4
CONC. LEVEL: MED LAB SAMPLE ID: 2455903
EXTRACTION DATE: 07/28/95 DIL FACTOR: 1.00
ANALYSIS DATE: 07/28/95 % MOISTURE: 20

MG/KG			
(DRY BASIS)			
CMPD #	CAS Number	PCB COMPOUND	
1	12674-11-2	Aroclor-1016	1.3 U
2	11104-28-2	Aroclor-1221	1.3 U
3	11141-16-5	Aroclor-1232	1.3 U
4	53469-21-9	Aroclor-1242	1.3 U
5	12672-29-6	Aroclor-1248	1.3 U
6	11097-69-1	Aroclor-1254	1.3 U
7	11096-82-5	Aroclor-1260	1.6

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: Z5
CONC. LEVEL: MED LAB SAMPLE ID: 2455904
EXTRACTION DATE: 07/28/95 DIL FACTOR: 1.00
ANALYSIS DATE: 07/28/95 % MOISTURE: 15

			MG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	1.2 U
2	11104-28-2	Aroclor-1221	1.2 U
3	11141-16-5	Aroclor-1232	1.2 U
4	53469-21-9	Aroclor-1242	1.2 U
5	12672-29-6	Aroclor-1248	1.2 U
6	11097-69-1	Aroclor-1254	1.2 U
7	11096-82-5	Aroclor-1260	1.2 U

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: Z6
CONC. LEVEL: MED LAB SAMPLE ID: 2455905
EXTRACTION DATE: 07/28/95 DIL FACTOR: 1.00
ANALYSIS DATE: 07/28/95 % MOISTURE: 20

MG/KG			
(DRY BASIS)			
CMPD #	CAS Number	PCB COMPOUND	
1	12674-11-2	Aroclor-1016	1.3 U
2	11104-28-2	Aroclor-1221	1.3 U
3	11141-16-5	Aroclor-1232	1.3 U
4	53469-21-9	Aroclor-1242	1.3 U
5	12672-29-6	Aroclor-1248	1.3 U
6	11097-69-1	Aroclor-1254	1.3 U
7	11096-82-5	Aroclor-1260	1.3 U

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: 27
CONC. LEVEL: MED LAB SAMPLE ID: 2455906
EXTRACTION DATE: 07/28/95 DIL FACTOR: 1.00
ANALYSIS DATE: 07/28/95 % MOISTURE: 25

MG/KG (DRY BASIS)			
CMPD #	CAS Number	PCB COMPOUND	
1	12674-11-2	Aroclor-1016	1.3 U
2	11104-28-2	Aroclor-1221	1.3 U
3	11141-16-5	Aroclor-1232	1.3 U
4	53469-21-9	Aroclor-1242	1.3 U
5	12672-29-6	Aroclor-1248	1.3 U
6	11097-69-1	Aroclor-1254	1.3 U
7	11096-82-5	Aroclor-1260	1.3 U

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: Z8
CONC. LEVEL: MED LAB SAMPLE ID: 2455907
EXTRACTION DATE: 07/28/95 DIL FACTOR: 1.00
ANALYSIS DATE: 07/28/95 % MOISTURE: 25

			MG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	1.3 U
2	11104-28-2	Aroclor-1221	1.3 U
3	11141-16-5	Aroclor-1232	1.3 U
4	53469-21-9	Aroclor-1242	1.3 U
5	12672-29-6	Aroclor-1248	1.3 U
6	11097-69-1	Aroclor-1254	1.3 U
7	11096-82-5	Aroclor-1260	1.3 U

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: ASE
CONC. LEVEL: MED LAB SAMPLE ID: 2460412
EXTRACTION DATE: 08/02/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/02/95 % MOISTURE: 18

			MG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	1.2 U
2	11104-28-2	Aroclor-1221	1.2 U
3	11141-16-5	Aroclor-1232	1.2 U
4	53469-21-9	Aroclor-1242	1.2 U
5	12672-29-6	Aroclor-1248	1.2 U
6	11097-69-1	Aroclor-1254	1.2 U
7	11096-82-5	Aroclor-1260	E

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: A5EDL
CONC. LEVEL: MED LAB SAMPLE ID: 2460412
EXTRACTION DATE: 08/02/95 DIL FACTOR: 5.00
ANALYSIS DATE: 08/03/95 % MOISTURE: 18

MG/KG			
(DRY BASIS)			
CMPD #	CAS Number	PCB COMPOUND	
1	12674-11-2	Aroclor-1016	NA
2	11104-28-2	Aroclor-1221	NA
3	11141-16-5	Aroclor-1232	NA
4	53469-21-9	Aroclor-1242	NA
5	12672-29-6	Aroclor-1248	NA
6	11097-69-1	Aroclor-1254	NA
7	11096-82-5	Aroclor-1260	60.0

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: A5N
CONC. LEVEL: MED LAB SAMPLE ID: 2460405
EXTRACTION DATE: 08/02/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/02/95 % MOISTURE: 15

MG/KG (DRY BASIS)			
CMPD #	CAS Number	PCB COMPOUND	
1	12674-11-2	Aroclor-1016	1.2 U
2	11104-28-2	Aroclor-1221	1.2 U
3	11141-16-5	Aroclor-1232	1.2 U
4	53469-21-9	Aroclor-1242	1.2 U
5	12672-29-6	Aroclor-1248	1.2 U
6	11097-69-1	Aroclor-1254	1.2 U
7	11096-82-5	Aroclor-1260	1.6

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: A55
CONC. LEVEL: MED LAB SAMPLE ID: 2460408
EXTRACTION DATE: 08/02/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/02/95 % MOISTURE: 22

MG/KG			
(DRY BASIS)			
CMPD #	CAS Number	PCB COMPOUND	
1	12674-11-2	Aroclor-1016	1.3 U
2	11104-28-2	Aroclor-1221	1.3 U
3	11141-16-5	Aroclor-1232	1.3 U
4	53469-21-9	Aroclor-1242	1.3 U
5	12672-29-6	Aroclor-1248	1.3 U
6	11097-69-1	Aroclor-1254	1.3 U
7	11096-82-5	Aroclor-1260	E

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NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: A5SDL
CONC. LEVEL: MED LAB SAMPLE ID: 2460408
EXTRACTION DATE: 08/02/95 DIL FACTOR: 250.00
ANALYSIS DATE: 08/03/95 % MOISTURE: 22

MG/KG			
(DRY BASIS)			
CMPD #	CAS Number	PCB COMPOUND	
1	12674-11-2	Aroclor-1016	NA
2	11104-28-2	Aroclor-1221	NA
3	11141-16-5	Aroclor-1232	NA
4	53469-21-9	Aroclor-1242	NA
5	12672-29-6	Aroclor-1248	NA
6	11097-69-1	Aroclor-1254	NA
7	11096-82-5	Aroclor-1260	2100.0

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: U1
CONC. LEVEL: MED LAB SAMPLE ID: 2460407
EXTRACTION DATE: 08/02/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/02/95 % MOISTURE: 27

				MG/KG
CMPD #	CAS Number	PCB COMPOUND		(DRY BASIS)
1	12674-11-2	Aroclor-1016		1.4 U
2	11104-28-2	Aroclor-1221		1.4 U
3	11141-16-5	Aroclor-1232		1.4 U
4	53469-21-9	Aroclor-1242		1.4 U
5	12672-29-6	Aroclor-1248		1.4 U
6	11097-69-1	Aroclor-1254		1.4 U
7	11096-82-5	Aroclor-1260		E

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NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: U1DL
CONC. LEVEL: MED LAB SAMPLE ID: 2460407
EXTRACTION DATE: 08/02/95 DIL FACTOR: 1000.00
ANALYSIS DATE: 08/03/95 % MOISTURE: 27

				MG/KG
CMPD #	CAS Number	PCB COMPOUND		(DRY BASIS)
1	12674-11-2	Aroclor-1016		NA
2	11104-28-2	Aroclor-1221		NA
3	11141-16-5	Aroclor-1232		NA
4	53469-21-9	Aroclor-1242		NA
5	12672-29-6	Aroclor-1248		NA
6	11097-69-1	Aroclor-1254		NA
7	11096-82-5	Aroclor-1260		23000.0

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NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: A5SE
CONC. LEVEL: MED LAB SAMPLE ID: 2460413
EXTRACTION DATE: 08/02/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/03/95 % MOISTURE: 27

MG/KG (DRY BASIS)			
CPD #	CAS Number	PCB COMPOUND	
1	12674-11-2	Aroclor-1016	1.4 U
2	11104-28-2	Aroclor-1221	1.4 U
3	11141-16-5	Aroclor-1232	1.4 U
4	53469-21-9	Aroclor-1242	1.4 U
5	12672-29-6	Aroclor-1248	1.4 U
6	11097-69-1	Aroclor-1254	1.4 U
7	11096-82-5	Aroclor-1260	16.0

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NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: A5W
CONC. LEVEL: MED LAB SAMPLE ID: 2459114
EXTRACTION DATE: 08/01/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/02/95 % MOISTURE: 27

			MG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	1.4 U
2	11104-28-2	Aroclor-1221	1.4 U
3	11141-16-5	Aroclor-1232	1.4 U
4	53469-21-9	Aroclor-1242	1.4 U
5	12672-29-6	Aroclor-1248	1.4 U
6	11097-69-1	Aroclor-1254	1.4 U
7	11096-82-5	Aroclor-1260	1.4 U

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: A5NA
CONC. LEVEL: MED LAB SAMPLE ID: 2460406
EXTRACTION DATE: 08/02/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/02/95 % MOISTURE: 14

			MG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	1.2 U
2	11104-28-2	Aroclor-1221	1.2 U
3	11141-16-5	Aroclor-1232	1.2 U
4	53469-21-9	Aroclor-1242	1.2 U
5	12672-29-6	Aroclor-1248	1.2 U
6	11097-69-1	Aroclor-1254	1.2 U
7	11096-82-5	Aroclor-1260	1.2 U

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: D4
CONC. LEVEL: MED LAB SAMPLE ID: 2459113
EXTRACTION DATE: 08/01/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/02/95 % MOISTURE: 12

			MG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	1.1 U
2	11104-28-2	Aroclor-1221	1.1 U
3	11141-16-5	Aroclor-1232	1.1 U
4	53469-21-9	Aroclor-1242	1.1 U
5	12672-29-6	Aroclor-1248	1.1 U
6	11097-69-1	Aroclor-1254	1.1 U
7	11096-82-5	Aroclor-1260	1.1 U

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: Y4C
CONC. LEVEL: MED LAB SAMPLE ID: 2459112
EXTRACTION DATE: 08/01/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/02/95 % MOISTURE: 18

				MG/KG
CMPD #	CAS Number	PCB COMPOUND		(DRY BASIS)
1	12674-11-2	Aroclor-1016		1.2 U
2	11104-28-2	Aroclor-1221		1.2 U
3	11141-16-5	Aroclor-1232		1.2 U
4	53469-21-9	Aroclor-1242		1.2 U
5	12672-29-6	Aroclor-1248		1.2 U
6	11097-69-1	Aroclor-1254		1.2 U
7	11096-82-5	Aroclor-1260		1.2 U

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: Y7A
CONC. LEVEL: MED LAB SAMPLE ID: 2460403
EXTRACTION DATE: 08/02/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/02/95 % MOISTURE: 18

				MG/KG
				(DRY BASIS)
CMPD #	CAS Number	PCB COMPOUND		
1	12674-11-2	Aroclor-1016		1.2 U
2	11104-28-2	Aroclor-1221		1.2 U
3	11141-16-5	Aroclor-1232		1.2 U
4	53469-21-9	Aroclor-1242		1.2 U
5	12672-29-6	Aroclor-1248		1.2 U
6	11097-69-1	Aroclor-1254		1.2 U
7	11096-82-5	Aroclor-1260		2.0

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: EB
CONC. LEVEL: MED LAB SAMPLE ID: 2455910
EXTRACTION DATE: 07/28/95 DIL FACTOR: 1.00
ANALYSIS DATE: 07/29/95 % MOISTURE: 18

			MG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	1.2 U
2	11104-28-2	Aroclor-1221	1.2 U
3	11141-16-5	Aroclor-1232	1.2 U
4	53469-21-9	Aroclor-1242	1.2 U
5	12672-29-6	Aroclor-1248	1.2 U
6	11097-69-1	Aroclor-1254	1.2 U
7	11096-82-5	Aroclor-1260	1.2 U

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: HB
CONC. LEVEL: MED LAB SAMPLE ID: 2455909
EXTRACTION DATE: 07/28/95 DIL FACTOR: 1.00
ANALYSIS DATE: 07/29/95 % MOISTURE: 16

			MG/KG
CPMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	1.2 U
2	11104-28-2	Aroclor-1221	1.2 U
3	11141-16-5	Aroclor-1232	1.2 U
4	53469-21-9	Aroclor-1242	1.2 U
5	12672-29-6	Aroclor-1248	1.2 U
6	11097-69-1	Aroclor-1254	1.2 U
7	11096-82-5	Aroclor-1260	1.2 U

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: IB
CONC. LEVEL: MED LAB SAMPLE ID: 2455911
EXTRACTION DATE: 07/28/95 DIL FACTOR: 1.00
ANALYSIS DATE: 07/29/95 % MOISTURE: 17

MG/KG			
(DRY BASIS)			
CMPD #	CAS Number	PCB COMPOUND	
1	12674-11-2	Aroclor-1016	1.2 U
2	11104-28-2	Aroclor-1221	1.2 U
3	11141-16-5	Aroclor-1232	1.2 U
4	53469-21-9	Aroclor-1242	1.2 U
5	12672-29-6	Aroclor-1248	1.2 U
6	11097-69-1	Aroclor-1254	1.2 U
7	11096-82-5	Aroclor-1260	1.2 U

8080PCB - FORM 1
NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: WATER SAMPLE ID: RSB1
CONC. LEVEL: LOW LAB SAMPLE ID: 2459117
EXTRACTION DATE: 08/01/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/02/95 % MOISTURE:NA

UG/L

CMPD # CAS Number PCB COMPOUND

1	12674-11-2	Aroclor-1016	0.50 U
2	11104-28-2	Aroclor-1221	0.50 U
3	11141-16-5	Aroclor-1232	0.50 U
4	53469-21-9	Aroclor-1242	0.50 U
5	12672-29-6	Aroclor-1248	0.50 U
6	11097-69-1	Aroclor-1254	0.50 U
7	11096-82-5	Aroclor-1260	0.50 U

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NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: WATER SAMPLE ID: RSB2
CONC. LEVEL: LOW LAB SAMPLE ID: 2460414
EXTRACTION DATE: 08/02/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/03/95 % MOISTURE:NA

UG/L

CMPD # CAS Number PCB COMPOUND

1	12674-11-2	Aroclor-1016	0.50 U
2	11104-28-2	Aroclor-1221	0.50 U
3	11141-16-5	Aroclor-1232	0.50 U
4	53469-21-9	Aroclor-1242	0.50 U
5	12672-29-6	Aroclor-1248	0.50 U
6	11097-69-1	Aroclor-1254	0.50 U
7	11096-82-5	Aroclor-1260	0.50 U

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NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: X6S
CONC. LEVEL: LOW LAB SAMPLE ID: 2473104
EXTRACTION DATE: 08/16/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/17/95 % MOISTURE: 14

				UG/KG
CMPD #	CAS Number	PCB COMPOUND		(DRY BASIS)
1	12674-11-2	Aroclor-1016		93 U
2	11104-28-2	Aroclor-1221		93 U
3	11141-16-5	Aroclor-1232		93 U
4	53469-21-9	Aroclor-1242		93 U
5	12672-29-6	Aroclor-1248		93 U
6	11097-69-1	Aroclor-1254		93 U
7	11096-82-5	Aroclor-1260		93 U

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NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: X7S
CONC. LEVEL: LOW LAB SAMPLE ID: 2473107
EXTRACTION DATE: 08/16/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/17/95 % MOISTURE: 15

			UG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	94 U
2	11104-28-2	Aroclor-1221	94 U
3	11141-16-5	Aroclor-1232	94 U
4	53469-21-9	Aroclor-1242	94 U
5	12672-29-6	Aroclor-1248	94 U
6	11097-69-1	Aroclor-1254	94 U
7	11096-82-5	Aroclor-1260	690

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NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL
CONC. LEVEL: LOW
EXTRACTION DATE: 08/16/95
ANALYSIS DATE: 08/17/95

SAMPLE ID: Y6S
LAB SAMPLE ID: 2473101
DIL FACTOR: 1.00
% MOISTURE: 18

			UG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	98 U
2	11104-28-2	Aroclor-1221	98 U
3	11141-16-5	Aroclor-1232	98 U
4	53469-21-9	Aroclor-1242	98 U
5	12672-29-6	Aroclor-1248	98 U
6	11097-69-1	Aroclor-1254	98 U
7	11096-82-5	Aroclor-1260	2800

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NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: Y7S
CONC. LEVEL: LOW LAB SAMPLE ID: 2466701
EXTRACTION DATE: 08/08/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/09/95 % MOISTURE: 15

			UG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	94 U
2	11104-28-2	Aroclor-1221	94 U
3	11141-16-5	Aroclor-1232	94 U
4	53469-21-9	Aroclor-1242	94 U
5	12672-29-6	Aroclor-1248	94 U
6	11097-69-1	Aroclor-1254	94 U
7	11096-82-5	Aroclor-1260	E

8080PCB - FORM 1
NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: Y7SDL
CONC. LEVEL: LOW LAB SAMPLE ID: 2466701
EXTRACTION DATE: 08/08/95 DIL FACTOR: 100.00
ANALYSIS DATE: 08/10/95 % MOISTURE: 15

			UG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	NA
2	11104-28-2	Aroclor-1221	NA
3	11141-16-5	Aroclor-1232	NA
4	53469-21-9	Aroclor-1242	NA
5	12672-29-6	Aroclor-1248	NA
6	11097-69-1	Aroclor-1254	NA
7	11096-82-5	Aroclor-1260	86000

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NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: Z6S
CONC. LEVEL: LOW LAB SAMPLE ID: 2473106
EXTRACTION DATE: 08/16/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/17/95 % MOISTURE: 25

			UG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	110 U
2	11104-28-2	Aroclor-1221	110 U
3	11141-16-5	Aroclor-1232	110 U
4	53469-21-9	Aroclor-1242	110 U
5	12672-29-6	Aroclor-1248	110 U
6	11097-69-1	Aroclor-1254	110 U
7	11096-82-5	Aroclor-1260	180

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NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: ASES
CONC. LEVEL: LOW LAB SAMPLE ID: 2466703
EXTRACTION DATE: 08/08/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/09/95 % MOISTURE: 17

			UG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	96 U
2	11104-28-2	Aroclor-1221	96 U
3	11141-16-5	Aroclor-1232	96 U
4	53469-21-9	Aroclor-1242	96 U
5	12672-29-6	Aroclor-1248	96 U
6	11097-69-1	Aroclor-1254	96 U
7	11096-82-5	Aroclor-1260	780

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NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: V1
CONC. LEVEL: LOW LAB SAMPLE ID: 2466702
EXTRACTION DATE: 08/08/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/09/95 % MOISTURE: 15

			UG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	94 U
2	11104-28-2	Aroclor-1221	94 U
3	11141-16-5	Aroclor-1232	94 U
4	53469-21-9	Aroclor-1242	94 U
5	12672-29-6	Aroclor-1248	94 U
6	11097-69-1	Aroclor-1254	94 U
7	11096-82-5	Aroclor-1260	970

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NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: A5NS
CONC. LEVEL: LOW LAB SAMPLE ID: 2474201
EXTRACTION DATE: 08/17/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/17/95 % MOISTURE: 16

				UG/KG
CMPD #	CAS Number	PCB COMPOUND		(DRY BASIS)
1	12674-11-2	Aroclor-1016		95 U
2	11104-28-2	Aroclor-1221		95 U
3	11141-16-5	Aroclor-1232		95 U
4	53469-21-9	Aroclor-1242		95 U
5	12672-29-6	Aroclor-1248		95 U
6	11097-69-1	Aroclor-1254		95 U
7	11096-82-5	Aroclor-1260		210

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL
CONC. LEVEL: LOW
EXTRACTION DATE: 08/08/95
ANALYSIS DATE: 08/09/95

SAMPLE ID: A5SBS
LAB SAMPLE ID: 2466704
DIL FACTOR: 1.00
% MOISTURE: 14

			UG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	93 U
2	11104-28-2	Aroclor-1221	93 U
3	11141-16-5	Aroclor-1232	93 U
4	53469-21-9	Aroclor-1242	93 U
5	12672-29-6	Aroclor-1248	93 U
6	11097-69-1	Aroclor-1254	93 U
7	11096-82-5	Aroclor-1260	1400

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: A5SS
CONC. LEVEL: LOW LAB SAMPLE ID: 2466705
EXTRACTION DATE: 08/08/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/09/95 % MOISTURE: 17

			UG/KG
CMPD #	CAS Number	PCB COMPOUND	(DRY BASIS)
1	12674-11-2	Aroclor-1016	96 U
2	11104-28-2	Aroclor-1221	96 U
3	11141-16-5	Aroclor-1232	96 U
4	53469-21-9	Aroclor-1242	96 U
5	12672-29-6	Aroclor-1248	96 U
6	11097-69-1	Aroclor-1254	96 U
7	11096-82-5	Aroclor-1260	1500

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NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: A5WS
CONC. LEVEL: LOW LAB SAMPLE ID: 2473105
EXTRACTION DATE: 08/16/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/17/95 % MOISTURE: 22

				UG/KG
				(DRY BASIS)
CMPD #	CAS Number	PCB COMPOUND		
1	12674-11-2	Aroclor-1016		100 U
2	11104-28-2	Aroclor-1221		100 U
3	11141-16-5	Aroclor-1232		100 U
4	53469-21-9	Aroclor-1242		100 U
5	12672-29-6	Aroclor-1248		340
6	11097-69-1	Aroclor-1254		100 U
7	11096-82-5	Aroclor-1260		490

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TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: WATER SAMPLE ID: 073095
CONC. LEVEL: LOW LAB SAMPLE ID: 2460501
EXTRACTION DATE: 08/04/95 DIL FACTOR: 2.00
ANALYSIS DATE: 08/09/95 % MOISTURE: NA

UG/L

CMPD #	CAS Number	PCB COMPOUND	
1	12674-11-2	Aroclor-1016	1.00 U
2	11104-28-2	Aroclor-1221	1.00 U
3	11141-16-5	Aroclor-1232	1.00 U
4	53469-21-9	Aroclor-1242	1.00 U
5	12672-29-6	Aroclor-1248	1.00 U
6	11097-69-1	Aroclor-1254	1.00 U
7	11096-82-5	Aroclor-1260	1.00 U

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NYTEST ENVIRONMENTAL INC.

TCL PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: WATER SAMPLE ID: RSB3
CONC. LEVEL: LOW LAB SAMPLE ID: 2466708
EXTRACTION DATE: 08/09/95 DIL FACTOR: 1.00
ANALYSIS DATE: 08/10/95 % MOISTURE: NA

UG/L

CMPD #	CAS Number	PCB COMPOUND	
1	12674-11-2	Aroclor-1016	0.50 U
2	11104-28-2	Aroclor-1221	0.50 U
3	11141-16-5	Aroclor-1232	0.50 U
4	53469-21-9	Aroclor-1242	0.50 U
5	12672-29-6	Aroclor-1248	0.50 U
6	11097-69-1	Aroclor-1254	0.50 U
7	11096-82-5	Aroclor-1260	0.50 U

APPENDIX C
ANALYTICAL DATA QUALITY REVIEW
ADDITIONAL INVESTIGATION
ANALYTICAL DATA

INTRODUCTION

This appendix presents a data quality review for PCB analyses performed in support of the FMC Tonawanda facility Preliminary Site Assessment (PSA) - Additional Investigation. Analytical services were provided by Nytest Environmental, Inc. (Nytest) of Port Washington, New York. A summary of the number and type of samples analyzed is presented below:

	<u>Investigative Samples</u>	<u>Field Duplicates</u>	<u>Equipment Blanks</u>	<u>MS/MSD⁽¹⁾ Samples</u>
Subsurface Soil	36	2	2	3/3
Surface Soil	9	1	1	2/2

(1) Matrix spike/matrix spike duplicate

Sample analyses followed USEPA SW-846 Method 8080 protocol, as modified by Nytest. This method was modified for subsurface soil samples to achieve detection limits of approximately 1.0 mg/kg (ten times higher than detection limits reported for surface soils).

The following document was used as guidance for the data quality review:

CLP Organics Review and Preliminary Review. SOP No. HW-6, Revision
8. USEPA Region II. January 1992.

The above "Guidelines" provided the criteria to review. The following items were checked as part of the data quality review:

- Results reporting from secondary dilutions
- Holding Times
- Method blanks and equipment blanks
- Surrogate spike recoveries
- Matrix spike/matrix spike duplicate analyses
- Field duplicate sample results
- Overall assessment of data

The following sections present the results of the data quality review.

RESULTS REPORTED FROM SECONDARY DILUTIONS

For samples that required dilutions, part of the review process is to evaluate which set of results (initial or diluted) are considered to be more usable. For this data set, three samples required dilutions for Aroclor 1260.

- Aroclor-1260 results for samples A5E, A5S, U1 (A5S Dup.) and Y7S were noted by Nytest as exceeding the corresponding instruments' linear calibration range. Detected Aroclor-1260 results for these samples were not reported on the corresponding initial sample analysis Form-1s. All four initial sample extracts were diluted and reanalyzed and the diluted Aroclor-1260 concentrations were reported as separate analyses. For these samples, the diluted results for the detected Aroclors were transcribed onto the data summary table (Table 4-1) with a "D" code (result reported from secondary dilution) along with any appropriate qualifiers.

SAMPLE HOLDING TIMES

Per the method protocol, soil samples for PCB analyses are required to be extracted within 14 days of sample collection and aqueous samples require extraction within 7 days from sample collection. Both soil and aqueous extracts require analysis within 40 days of extraction.

Review of the sample collection dates and extraction and analyses dates noted the following extractions were performed outside the required holding time criterion:

<u>Sample</u>	<u>Holding Time</u> ⁽¹⁾	<u>Required Holding Time</u> ⁽¹⁾
A5NS	19 days	14 days
X6S	15 days	14 days
X7S	15 days	14 days
Y6S	15 days	14 days
Z6S	19 days	14 days

⁽¹⁾ From collection to extraction.

The above surface soil samples were archived in the laboratory pending the analysis of corresponding subsurface soil location samples, as such, exceedance of extraction holding times was unavoidable. Due to the relative stability of PCBs, qualification of the associated data was not considered necessary based on the holding time exceedances.

Remaining sample extractions and analyses were completed within holding time requirements.

METHOD BLANKS

Method blank analyses evaluate the existence and magnitude of contamination problems resulting from laboratory activities.

The PCB method blank results associated with these samples were contaminant-free for the target compounds. Therefore, the potential for contamination from laboratory activities was minimal.

EQUIPMENT BLANK SAMPLES

Equipment blanks are used to assess sampling equipment decontamination procedures. Three equipment blank samples were collected during the Additional Investigation (two for subsurface soil samples and one for surface soil samples). The equipment blanks were identified as RSB-1, RSB-2 and RSB-3.

The PCB results for the equipment blank samples were reported as non-detected for the target compounds, and no qualification was required.

SURROGATE SPIKE RECOVERIES

Surrogate compounds are used to evaluate overall laboratory performance for sample preparation efficiency on a per sample basis. The "Guidelines" allow one PCB surrogate recovery (three surrogate compounds per sample) to be outside acceptance criteria provided that the recovery is greater than or equal to 10 percent. The PCB analysis of sample U1 (A5S Dup.) had two outlying surrogate recoveries as shown below:

<u>Sample</u>	<u>Surrogate Recovery⁽¹⁾</u>		
	<u>TCX</u> <u>(60-150)</u>	<u>DBC</u> <u>(20-150)</u>	<u>DCB</u> <u>(60-150)</u>
U1	--	304	377

- (1) Control limits noted in parentheses
 TCX Tetrachloro-meta-xylene
 DBC Dibutylchloroendate
 DCB Decachlorobiphenyl
 -- Recovery acceptable

The outlying surrogate recoveries for this sample were caused by interfering PCB peaks which exceeded the instrument's linear calibrated range. Therefore, only non-detected PCB results were reported from the initial analysis of sample U1 and the detected PCB result was reported from a secondary dilution analysis (dilution factor of 1,000). Since the outlying surrogate recoveries indicated a potential high bias, the corresponding non-detected PCB results did not require qualification as estimated. Surrogate recoveries for the diluted analysis of sample U1 could not be quantitated based on the magnitude of the dilution. Per the "Guidelines", qualification of sample data is not required for samples having no surrogate recoveries due to required dilution.

Surrogate recoveries for secondary dilution analyses of samples A5S and Y7 were also not quantifiable based on the magnitude of sample dilutions. Per the "Guidelines", no qualification was required. The initial undiluted surrogate recoveries for these samples were within control limits.

No other sample analyses had outlying surrogate spike recoveries.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) SAMPLES

Samples Z3, Y4, X8, A5SS and Y6S were analyzed as MS/MSD samples for this investigation. These samples were analyzed to evaluate potential matrix effects upon the data. Each sample was spiked with both Aroclors 1016 and 1260.

Aroclor-1260 spike recoveries for samples A5SS and Y6S could not be accurately quantitated since sample concentrations exceeded the spiking by a factor of 4 or more. Remaining Aroclor-1260 and all Aroclor-1016 MS/MSD recoveries and relative percent difference (RPD) values met the laboratory's established acceptance criteria, indicating satisfactory analytical accuracy and precision were achieved.

FIELD DUPLICATES

Field duplicate results are used to evaluate the aggregate sampling and analytical precision. For soil samples, when analytes for both duplicate and sample values are greater than five times the quantitation limit, satisfactory precision is indicated by an RPD less than or equal to 100 percent. Where one or both of the analytes of a field duplicate pair are reported at less than five times the quantitation limit, satisfactory precision is indicated if the field duplicate results agree within 3.5 times the quantitation limit. Field duplicate results that do not meet these criteria may indicate unsatisfactory precision of the results.

Three field duplicate pairs, labeled as A5S/U1, Z1/T1 and A5ES/V1 are associated with the samples from this investigation.

Aroclor-1260 results for field duplicate pair A5S and U1 were the only results that were not in agreement with the specified criteria (RPD value of 167%). Based on the outlying RPD value, Aroclor-1260 results for both samples were qualified as estimated (data qualifier J). The discrepancies between field duplicate sample PCB concentrations most likely resulted from sample heterogeneity.

OVERALL DATA ASSESSMENT

Based on the criteria outlined, it is recommended the PCB results reported for the FMC PSA - Additional Investigation be accepted for their intended use. Acceptable levels of accuracy and precision were achieved except where noted in this appendix. In addition, completeness, defined as the percentage of analytical results which are judged to be valid, including estimated (J) values, was 100 percent, which exceeds the method's historical completeness range of 80 to 85 percent.

Only two sample results from this investigation required qualification. Aroclor-1260 results for samples A5S and U1 were qualified as estimated (data qualifier J) due to low precision between field duplicate sample results.

APPENDIX D
LABORATORY DATA SUMMARY FORMS
REMEDIAL MEASURES

METHOD 8080 - POLYCHLORINATED BIPHENYLS

000005

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5422 Dilution Factor: 20
Lab Samp ID: A5542203 Sample Date: 10/10/95
Client ID: AN Analysis Date: 10/12/95
Extraction Date: 10/11/95
% Dry Weight: 78.32

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		2.2	U
Aroclor 1221		2.2	U
Aroclor 1232		2.2	U
Aroclor 1242		2.2	U
Aroclor 1248		2.2	U
Aroclor 1254		2.2	U
Aroclor 1260		32	

000003

METHOD 8080 - POLYCHLORINATED BIPHENYLS

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5588 Dilution Factor: 1
Lab Samp ID: A5558801 Sample Date: 10/18/95
Client ID: AN2 Analysis Date: 10/19/95
Extraction Date: 10/19/95
% Dry Weight: 70.68

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		0.81	J

METHOD 8080 - POLYCHLORINATED BIPHENYLS

000006

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5422 Dilution Factor: 1
Lab Samp ID: A5542204 Sample Date: 10/10/95
Client ID: ANS Analysis Date: 10/12/95
Extraction Date: 10/11/95
% Dry Weight: 88.89

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	

000008

METHOD 8080 - POLYCHLORINATED BIPHENYLS

Laboratory: Recra Environmental, Inc. :RECN Matrix: Soil Low
Lab Job No: A95-5537 Dilution Factor: 1
Lab Samp ID: A5553704 Sample Date: 10/17/95
Client ID: AANS1 Analysis Date: 10/18/95
Extraction Date: 10/17/95
% Dry Weight: 80.37

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.3	

METHOD 8080 - POLYCHLORINATED BIPHENYLS

000009

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5537 Dilution Factor: 1
Lab Samp ID: A5553705 Sample Date: 10/17/95
Client ID: AANS4 Analysis Date: 10/18/95
Extraction Date: 10/17/95
% Dry Weight: 83.60

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		2.0	

METHOD 8080 - POLYCHLORINATED BIPHENYLS

000003

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5578 Dilution Factor: 1
Lab Samp ID: A5557801 Sample Date: 10/17/95
Client ID: AANS2 Analysis Date: 10/18/95
Extraction Date: 10/18/95
% Dry Weight: 83.22

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		0.92	J

METHOD 8080 - POLYCHLORINATED BIPHENYLS

C00007

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5422 Dilution Factor: 1
Lab Samp ID: A5542206 Sample Date: 10/10/95
Client ID: AS Analysis Date: 10/12/95
Extraction Date: 10/11/95
% Dry Weight: 82.03

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		0.31	J

METHOD 8080 - POLYCHLORINATED BIPHENYLS

000010

Laboratory: Recra Environmental, Inc. :RECN Matrix: Soil Low
Lab Job No: A95-5422 Dilution Factor: 20
Lab Samp ID: A5542217 Sample Date: 10/11/95
Client ID: ASS3 Analysis Date: 10/12/95
Extraction Date: 10/11/95
% Dry Weight: 84.94

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		2.2	U
Aroclor 1221		2.2	U
Aroclor 1232		2.2	U
Aroclor 1242		2.2	U
Aroclor 1248		2.2	U
Aroclor 1254		2.2	U
Aroclor 1260		54	

000007

METHOD 8080 - POLYCHLORINATED BIPHENYLS

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5537 Dilution Factor: 10
Lab Samp ID: A5553703 Sample Date: 10/17/95
Client ID: AASS1 Analysis Date: 10/18/95
Extraction Date: 10/17/95
% Dry Weight: 77.39

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.1	U
Aroclor 1221		1.1	U
Aroclor 1232		1.1	U
Aroclor 1242		1.1	U
Aroclor 1248		1.1	U
Aroclor 1254		1.1	U
Aroclor 1260		9.0	

000004

METHOD 8080 - POLYCHLORINATED BIPHENYLS

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5578 Dilution Factor: 1
Lab Samp ID: A5557805 Sample Date: 10/17/95
Client ID: AASS2 Analysis Date: 10/18/95
Extraction Date: 10/18/95
% Dry Weight: 83.25

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		5.9	

METHOD 8080 - POLYCHLORINATED BIPHENYLS

CCCC94

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5455 Dilution Factor: 50
Lab Samp ID: A5545503 Sample Date: 10/12/95
Client ID: AE3 Analysis Date: 10/13/95
Extraction Date: 10/12/95
% Dry Weight: 79.87

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		5.0	U
Aroclor 1221		5.0	U
Aroclor 1232		5.0	U
Aroclor 1242		5.0	U
Aroclor 1248		5.0	U
Aroclor 1254		5.0	U
Aroclor 1260		180	

METHOD 8080 - POLYCHLORINATED BIPHENYLS

000004

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5588 Dilution Factor: 1
Lab Samp ID:A5558802 Sample Date: 10/18/95
Client ID: AE4 Analysis Date: 10/19/95
Extraction Date: 10/19/95
% Dry Weight: 78.17

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		2.0	

000005

METHOD 8080 - POLYCHLORINATED BIPHENYLS

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5455 Dilution Factor: 1
Lab Samp ID: A5545504 Sample Date: 10/12/95
Client ID: AES5 Analysis Date: 10/13/95
Extraction Date: 10/12/95
% Dry Weight: 83.04

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.3	

000011

METHOD 8080 - POLYCHLORINATED BIPHENYLS

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5537 Dilution Factor: 1
Lab Samp ID: A5553707 Sample Date: 10/17/95
Client ID: AAES1 Analysis Date: 10/18/95
Extraction Date: 10/17/95
% Dry Weight: 83.99

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		0.15	J

METHOD 8080 - POLYCHLORINATED BIPHENYLS

000011

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5422 Dilution Factor: 1
Lab Samp ID: A5542201 Sample Date: 10/10/95
Client ID: AW2 Analysis Date: 10/12/95
Extraction Date: 10/11/95
% Dry Weight: 77.17

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

000012

METHOD 8080 - POLYCHLORINATED BIPHENYLS

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5422 Dilution Factor: 1
Lab Samp ID: A5542202 Sample Date: 10/10/95
Client ID: AWS2 Analysis Date: 10/12/95
Extraction Date: 10/11/95
% Dry Weight: 82.77

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.1	
Aroclor 1254		1.0	U
Aroclor 1260		0.24	J

000010

METHOD 8080 - POLYCHLORINATED BIPHENYLS

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5537 Dilution Factor: 1
Lab Samp ID: A5553706 Sample Date: 10/17/95
Client ID: AAWS1 Analysis Date: 10/18/95
Extraction Date: 10/17/95
% Dry Weight: 80.31

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		0.29	J
Aroclor 1260		1.0	U

METHOD 8080 - POLYCHLORINATED BIPHENYLS

000004

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5422 Dilution Factor: 1
Lab Samp ID: A5542205 Sample Date: 10/10/95
Client ID: AB Analysis Date: 10/12/95
Extraction Date: 10/11/95
% Dry Weight: 84.74

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.4	

000017

METHOD 8080 - POLYCHLORINATED BIPHENYLS

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5422 Dilution Factor: 40
Lab Samp ID: A5542215 Sample Date: 10/11/95
Client ID: DN3 Analysis Date: 10/12/95
Extraction Date: 10/11/95
% Dry Weight: 66.71

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		5.8	U
Aroclor 1221		5.8	U
Aroclor 1232		5.8	U
Aroclor 1242		5.8	U
Aroclor 1248		5.8	U
Aroclor 1254		42	
Aroclor 1260		5.8	U

METHOD 8080 - POLYCHLORINATED BIPHENYLS

000003

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5590 Dilution Factor: 1
Lab Samp ID: A5559001 Sample Date: 10/19/95
Client ID: DN4 Analysis Date: 10/20/95
Extraction Date: 10/19/95
% Dry Weight: 76.02

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

000018

METHOD 8080 - POLYCHLORINATED BIPHENYLS

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5422 Dilution Factor: 1
Lab Samp ID: A5542216 Sample Date: 10/11/95
Client ID: DNS2 Analysis Date: 10/12/95
Extraction Date: 10/11/95
% Dry Weight: 83.71

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		2.4	

METHOD 8080 - POLYCHLORINATED BIPHENYLS

000003

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5537 Dilution Factor: 1
Lab Samp ID: A5553701 Sample Date: 10/17/95
Client ID: DDNS1 Analysis Date: 10/18/95
Extraction Date: 10/17/95
% Dry Weight: 83.18

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		6.2	

000007

METHOD 8080 - POLYCHLORINATED BIPHENYLS

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil
Lab Job No: A95-5578 Dilution Factor: 1
Lab Samp ID: A5557808 Sample Date: 10/17/95
Client ID: DDNS2 Analysis Date: 10/18/95
Extraction Date: 10/18/95
% Dry Weight: 81.98

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		9.7	

METHOD 8080 - POLYCHLORINATED BIPHENYLS

000019

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5422 Dilution Factor: 1
Lab Samp ID: A5542211 Sample Date: 10/10/95
Client ID: DS Analysis Date: 10/12/95
Extraction Date: 10/11/95
% Dry Weight: 79.21

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		0.92	J

METHOD 8080 - POLYCHLORINATED BIPHENYLS

000020

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5422 Dilution Factor: 1
Lab Samp ID: A5542212 Sample Date: 10/11/95
Client ID: DSS2 Analysis Date: 10/12/95
Extraction Date: 10/11/95
% Dry Weight: 90.10

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		2.8	

000006

METHOD 8080 - POLYCHLORINATED BIPHENYLS

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5537 Dilution Factor: 1
Lab Samp ID:A5553702 Sample Date: 10/17/95
Client ID: DDSS1 Analysis Date: 10/18/95
Extraction Date: 10/17/95
% Dry Weight: 83.84

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		2.4	

METHOD 8080 - POLYCHLORINATED BIPHENYLS

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5578 Dilution Factor: 1
Lab Samp ID: A5557806 Sample Date: 10/17/95
Client ID: DDSS2 Analysis Date: 10/18/95
Extraction Date: 10/18/95
% Dry Weight: 84.54

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		4.2	

000006

METHOD 8080 - POLYCHLORINATED BIPHENYLS

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5578 Dilution Factor: 1
Lab Samp ID: A5557807 Sample Date: 10/17/95
Client ID: DDSS3 Analysis Date: 10/20/95
Extraction Date: 10/19/95
% Dry Weight: 87.80

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		3.1	

METHOD 8080 - POLYCHLORINATED BIPHENYLS

000003

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5644 Dilution Factor: 1
Lab Samp ID: A5564402 Sample Date: 10/20/95
Client ID: DDSS4 Analysis Date: 10/20/95
Extraction Date: 10/20/95
% Dry Weight: 88.39

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		0.20	J

000015

METHOD 8080 - POLYCHLORINATED BIPHENYLS

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5422 Dilution Factor: 1
Lab Samp ID: A5542209 Sample Date: 10/11/95
Client ID: DE Analysis Date: 10/12/95
Extraction Date: 10/11/95
% Dry Weight: 79.30

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		0.75	J
Aroclor 1260		0.81	J

000016

METHOD 8080 - POLYCHLORINATED BIPHENYLS

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5422 Dilution Factor: 1
Lab Samp ID: A5542210 Sample Date: 10/11/95
Client ID: DES2 Analysis Date: 10/12/95
Extraction Date: 10/11/95
% Dry Weight: 88.41

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		0.43	J

000021

METHOD 8080 - POLYCHLORINATED BIPHENYLS

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5422 Dilution Factor: 1
Lab Samp ID:A5542213 Sample Date: 10/10/95
Client ID: DW Analysis Date: 10/12/95
Extraction Date: 10/11/95
% Dry Weight: 77.48

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.5	

000022

METHOD 8080 - POLYCHLORINATED BIPHENYLS

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5422 Dilution Factor: 1
Lab Samp ID: A5542214 Sample Date: 10/11/95
Client ID: DWS Analysis Date: 10/12/95
Extraction Date: 10/11/95
% Dry Weight: 86.70

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		0.60	J

METHOD 8080 - POLYCHLORINATED BIPHENYLS

000013

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5422 Dilution Factor: 1
Lab Samp ID: A5542207 Sample Date: 10/11/95
Client ID: DB Analysis Date: 10/12/95
Extraction Date: 10/11/95
% Dry Weight: 86.35

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

000014

METHOD 8080 - POLYCHLORINATED BIPHENYLS

Laboratory: Recra Environmental, Inc. :RECNY Matrix: Soil Low
Lab Job No: A95-5422 Dilution Factor: 1
Lab Samp ID: A5542208 Sample Date: 10/11/95
Client ID: DD Analysis Date: 10/12/95
Extraction Date: 10/11/95
% Dry Weight: 86.18

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

APPENDIX E
ANALYTICAL DATA QUALITY REVIEW
REMEDIAL MEASURES
ANALYTICAL DATA

INTRODUCTION

This appendix presents a data quality review for PCB analyses performed in support of the FMC Tonawanda facility Preliminary Site Assessment (PSA) - Remedial Measures Program. Analytical services were provided by Recra Environmental, Inc. (Recra) of Amherst, New York. A summary of the number and type of samples analyzed is presented below:

	<u>Investigative Samples</u>	<u>Field Duplicates</u>	<u>MS/MSD⁽¹⁾ Samples</u>
Subsurface Soil	13	1	1/1
Surface Soil	20	1	1/1

⁽¹⁾ Matrix spike/matrix spike duplicate

Sample analyses followed USEPA SW-846 Method 8080 protocol, as modified by Recra. This method was modified to achieve detection limits of approximately 1.0 mg/kg.

The following document was used as guidance for the data quality review:

CLP Organics Review and Preliminary Review. SOP No. HW-6, Revision
8. USEPA Region II. January 1992.

The above "Guidelines" provided the criteria to review. The following items were checked as part of the data quality review:

- Results reporting from secondary dilutions
- Holding Times
- Method blanks and equipment blanks
- Surrogate spike recoveries
- Matrix spike/matrix spike duplicate analyses
- Field duplicate sample results
- Overall assessment of data

The following sections present the results of the data quality review.

RESULTS REPORTED FROM SECONDARY DILUTIONS

For samples that required dilutions, part of the review process is to evaluate which set of results (initial or diluted) are considered to be more usable. For this data set, five samples required dilutions for Aroclors 1254 or 1260.

- Samples AN, ASS3, DN3, AE3, and AASS1 were analyzed at dilutions for PCBs since screening of samples prior to final analysis indicated target compounds in excess of the instrument's linear calibration range. For these samples, results of ten times more concentrated extracts were not analyzed and reported by Recra.

SAMPLE HOLDING TIMES

Per the method protocol, soil samples for PCB analyses are required to be extracted within 14 days of sample collection; extracts require analysis within 40 days of extraction.

Review of the sample collection dates and extraction and analyses dates noted that all sample extractions and analyses were performed within the method holding time requirements.

METHOD BLANKS

Method blank analyses evaluate the existence and magnitude of contamination problems resulting from laboratory activities.

The PCB method blank results associated with these samples were contaminant-free for the target compounds. Therefore, the potential for contamination from laboratory activities was minimal.

EQUIPMENT BLANK SAMPLES

Equipment blank samples are used to assess sampling equipment decontamination procedures. All samples were collected using dedicated sampling equipment, and as such, the collection of equipment blank samples was not required.

SURROGATE SPIKE RECOVERIES

Surrogate compounds are used to evaluate overall laboratory performance for sample preparation efficiency on a per sample basis. The "Guidelines" allow one PCB surrogate recovery (two surrogate compounds per sample) to be outside acceptance criteria provided that the recovery is greater than or equal to 10 percent. All samples which did not require dilution had surrogate spike recoveries that met the acceptance criteria presented in the "Guidelines". This indicates that the laboratory preparation procedure was satisfactory.

Five of the samples were analyzed at dilution factors which ranged from 10 to 50. For these samples, a ten times more concentrated extract was not analyzed and the surrogate spike compounds were diluted below quantifiable concentrations. The subject samples include: AN, ASS3, DN3, AE3, and AASS1. Per the "Guidelines", qualification of sample data is not required when surrogate spike compounds are diluted beyond quantifiable concentrations.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) SAMPLES

Samples A5 and DDNS1 were analyzed as MS/MSD samples for this program. MS/MSD samples were analyzed to evaluate potential matrix effects upon the data. Each sample was spiked with Aroclor 1242.

All MS/MSD recoveries and relative percent difference (RPD) values met the laboratory's established acceptance criteria, indicating satisfactory analytical accuracy and precision were achieved.

FIELD DUPLICATES

Field duplicate results are used to evaluate the aggregate sampling and analytical precision. For soil samples, when analytes for both duplicate and sample values are greater than five times the quantitation limit, satisfactory precision is indicated by an RPD less than or equal to 100 percent. Where one or both of the analytes of a field duplicate pair are reported at less than five times the quantitation limit, satisfactory precision is indicated if the field duplicate results agree within 3.5 times the quantitation limit. Field duplicate results that do not meet these criteria may indicate unsatisfactory precision of the results.

Two field duplicate pairs, labeled as AANS1/AANS4 and DB/DD are associated with the samples from the Remedial Measures Program.

All target PCB results reported for the field duplicate pairs are in agreement with the above criteria.

OVERALL DATA ASSESSMENT

Based on the criteria outlined, it is recommended the PCB results reported for the FMC PSA - Remedial Measures Program be accepted for their intended use. Acceptable levels of accuracy and precision were achieved except where noted in this appendix. In addition, completeness, defined as the percentage of analytical results which are judged to be valid, including estimated (J) values, was 100 percent, which exceeds the method's historical completeness range of 80 to 85 percent.

APPENDIX F
WASTE MANIFESTS
REMEDIAL MEASURES

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

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

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

Please print or type. Do not Staple.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NY 007403310195033		Manifest Document No. 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.	
3. Generator's Name and Mailing Address FMC CORPORATION P.O. BOX 845 BUFFALO, NY 14240-0845				A. State Manifest Document No. NY B 555180 3					
4. Generator's Phone (716) 878-8300				B. Generator's ID TERMINATED, NY 2550					
5. Transporter 1 (Company Name) HAZMAT ENVIRONMENTAL GROUP				6. US EPA ID Number NY 0980769947		C. State Transporter's ID 10258P(NY)			
7. Transporter 2 (Company Name)				8. US EPA ID Number		D. Transporter's Phone (716) 827-7200			
9. Designated Facility Name and Site Address CMR CHEMICAL SERVICES, INC. 1550 BALMER ROAD MODEL CITY, NY 14107				10. US EPA ID Number NY 0049838679		E. State Transporter's ID			
						F. Transporter's Phone ()			
						G. State Facility's ID			
						H. Facility's Phone (716) 724-8231			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers		13. Total Quantity		14. Unit Wt/Vol	
a. 80, POLYCHLORINATED BIPHENYLS, MIXTURE, 9, UN 2315, PG III				No. Type		Quantity		Wt/Vol	
						0010T 17588 K			
b.								I. Waste No. EPA	
								STATE	
c.								EPA	
								STATE	
d.								EPA	
								STATE	
J. Additional Descriptions for Materials listed Above				K. Handling Codes for Wastes Listed Above					
a				a		b		c	
b				b		c		d	
15. Special Handling Instructions and Additional Information CMR CODE: BL 1357 OUT OF SERVICE DATE: 10/10/95				ESTIMATED WEIGHT: 17588 kg EMERGENCY PHONE: (716) 878-8300 (24 HOURS)					
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 BRUCE R. WARNER				Signature FOR FMC Bruce R Warner		Mo. Day Year 10/10/95			
17. Transporter 1 (Acknowledgement of Receipt of Materials)				Printed/Typed Name Tom Polley		Signature Tom Polley		Mo. Day Year 10/10/95	
18. Transporter 2 (Acknowledgement or Receipt of Materials)				Printed/Typed Name		Signature		Mo. Day Year	
19. Discrepancy Indication Space actual received 17799 K									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name KATH VIGENFUE				Signature Kath Vigenfue		Mo. Day Year 10/10/95			

NY B 555180 3

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NY 0074033101950341		Manifest Document No. 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.	
3. Generator's Name and Mailing Address FMC CORPORATION P.O. BOX 845 BUFFALO, NY 14240-0845				A. State Manifest Document No. NY B 555181 2					
4. Generator's Phone (716) 876-8300				B. Generator's ID 77 RIVER AVE TOWNHALL, NY 14200					
5. Transporter 1 (Company Name) HAZMAT ENVIRONMENTAL GROUP				6. US EPA ID Number NY 0980758947		C. State Transporter's ID 10256PM			
7. Transporter 2 (Company Name)				8. US EPA ID Number		D. Transporter's Phone (716) 827-7200			
9. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, INC. 1050 BALMER ROAD ROSELAND CITY, NY 14107				10. US EPA ID Number NY 0049836879		E. State Transporter's ID			
						F. Transporter's Phone ()			
						G. State Facility's ID			
						H. Facility's Phone (716) 754-8231			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers		13. Total Quantity		14. Unit	
a. 90, POLYCHLORINATED BIPHENYLS, MIXTURE, 9, UN 2315, PG III				No. Type		Quantity		Wt/Vol	
								I. Waste No.	
								EPA	
								STATE	
								EPA	
								STATE	
								EPA	
								STATE	
								EPA	
								STATE	
J. Additional Descriptions for Materials listed Above				K. Handling Codes for Wastes Listed Above					
a				a		b		c	
b				b		c		d	
15. Special Handling Instructions and Additional Information									
CWM CODE: DL 1357									
OUT OF SERVICE DATE: 10/10/95									
ESTIMATED WEIGHT: 17297 kg									
EMERGENCY PHONE: (716) 876-8300 (24 HOURS)									
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 BRUCE R. WARNER				Signature <i>FOR FMC BRUCE R. WARNER</i>				Mo. Day Year 10/10/95	
17. Transporter 1 (Acknowledgement of Receipt of Materials)									
Printed/Typed Name KENNETH JOYAL				Signature <i>Kenneth Joyal</i>				Mo. Day Year 10/10/95	
18. Transporter 2 (Acknowledgement or Receipt of Materials)									
Printed/Typed Name				Signature				Mo. Day Year	
19. Discrepancy Indication Space									
<i>artificial piece 17400 K</i>									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name EILEEN CARTER				Signature <i>Eileen Carter</i>				Mo. Day Year 10/10/95	

NY B 555181 2

HAZARDOUS WASTE MANIFEST

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

Please print or type. Do not Staple.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NY007403310195035		2. Page 1 of 1 Manifest Document No. 1		3. Information in the shaded areas is not required by Federal Law.			
3. Generator's Name and Mailing Address FMC CORPORATION P.O. BOX 848 BUFFALO, NY 14240-0848				A. State Manifest Document No. NY B 555182 1					
4. Generator's Phone (716) 878-8300				B. Generator's ID TECHNICAL, NY 1110					
5. Transporter 1 (Company Name) HAZMAT ENVIRONMENTAL GROUP				6. US EPA ID Number NY0000780047					
7. Transporter 2 (Company Name)				8. US EPA ID Number					
9. Designated Facility Name and Site Address CM CHEMICAL SERVICES, INC. 1550 BALMER ROAD MODEL CITY, NY 14107				10. US EPA ID Number NY0049836679					
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.	
a. RD, POLYCHLORINATED BIPHENYLS, MIXTURE, 9, UN 2815, PG III				No. Type				EPA STATE 0010T14210K	
b.								EPA STATE	
c.								EPA STATE	
d.								EPA STATE	
J. Additional Descriptions for Materials listed Above				K. Handling Codes for Wastes Listed Above					
a				a L c					
b				b d					
15. Special Handling Instructions and Additional Information CM CODE: BL 1957 OUT OF SERVICE DATE: 12/10/95 ESTIMATED WEIGHT: 14210 kg EMERGENCY PHONE: (716) 878-8300 (24 HOURS)									
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 BRUCE R. WARNER				Signature FOR FMC BRUCE R. WARNER				Mo. Day Year 10/10/95	
17. Transporter 1 (Acknowledgement of Receipt of Materials)									
Printed/Typed Name WILLIAM SINCLAIR				Signature William Sinclair				Mo. Day Year 10/10/95	
18. Transporter 2 (Acknowledgement or Receipt of Materials)									
Printed/Typed Name				Signature				Mo. Day Year	
19. Discrepancy Indication Space add. recd. 15704K									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name EILEEN CARTER				Signature Eileen Carter				Mo. Day Year 10/10/95	

CCFYG-0 - Underlying Cause of Death

[illegible]

In case of emergency or spill! Immediately call the National Response Center (800) 424-8802 and the N.Y. Dept. of Environmental Conservation (518) 457-1362.

NY B 550183 1



STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

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

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

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NYD074033101B50361		Manifest Document No. 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.	
3. Generator's Name and Mailing Address PNC CORPORATION P.O. BOX 845 BUFFALO, NY 14240-0845		A. State Manifest Document No. NY B 555183 9		B. Generator's ID P. J. JAMES		C. State Transporter's ID 10251P47		D. Transporter's Phone 716 827-7200	
4. Generator's Phone 716 876-8300		5. Transporter 1 (Company Name) HAZMAT ENVIRONMENTAL GROUP		6. US EPA ID Number NYD980750047		E. State Transporter's ID		F. Transporter's Phone ()	
7. Transporter 2 (Company Name)		8. US EPA ID Number		9. Designated Facility Name and Site Address CHI CHEMICAL SERVICES, INC. 1550 BALMAIN ROAD ROSEL CITY, NY 14107		10. US EPA ID Number NYD049836678		G. State Facility's ID	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity		14. Unit		15. Waste No.	
a. NO. POLYCHLORINATED BIPHENYLS, MIXTURE, 9, UN 2315, PG III		No. Type		Quantity		Unit		EPA	
b.				001 DT 18124 K		K		STATE	
c.								EPA	
d.								EPA	
J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above		a. <input checked="" type="checkbox"/>		c. <input type="checkbox"/>		EPA	
a.		b.		81437705		d. <input type="checkbox"/>		EPA	
15. Special Handling Instructions and Additional Information		ESTIMATED WEIGHT: 18124 kg		EMERGENCY PHONE: (716) 876-8300 (24 HOURS)					
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.		Printed/Typed Name BRUCE R. WARDEN		Signature <i>BRUCE R. WARDEN</i>		Mo. Day Year 10/10/95			
17. Transporter 1 (Acknowledgement of Receipt of Materials)		Printed/Typed Name ROBERT E. KAPP		Signature <i>ROBERT E. KAPP</i>		Mo. Day Year 10/10/95			
18. Transporter 2 (Acknowledgement or Receipt of Materials)		Printed/Typed Name		Signature		Mo. Day Year			
19. Discrepancy Indication Space ACT. 18107K		20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.		Printed/Typed Name EILEEN CARTEK		Signature <i>Eileen Cartek</i>		Mo. Day Year 10/10/95	

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

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

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

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NY 0074033101950371		Manifest Document No. 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.			
3. Generator's Name and Mailing Address FMC CORPORATION P.O. BOX 845 BUFFALO, NY 14240-0845						A. State Manifest Document No. NY B 555184 8					
4. Generator's Phone (716) 876-8300						B. Generator's ID 7-1000					
5. Transporter 1 (Company Name) HADMAT ENVIRONMENTAL GROUP						C. State Transporter's ID 10203144					
6. US EPA ID Number NY 0080769947						D. Transporter's Phone (716) 827-7200					
7. Transporter 2 (Company Name)						E. State Transporter's ID					
8. US EPA ID Number						F. Transporter's Phone ()					
9. Designated Facility Name and Site Address CMR CHEMICAL SERVICES, INC. 1850 BALKEN ROAD ROSEL CITY, NY 14107						G. State Facility's ID					
10. US EPA ID Number NY 0049836679						H. Facility's Phone (716) 754-8231					
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit	
a. 80. POLYCHLORINATED BIPHENYLS, MIXTURE, 9, UN 2315, PG III						No. Type		Quantity		Wt/Vol	
										I. Waste No.	
										EPA	
										STATE	
										EPA	
										STATE	
										EPA	
										STATE	
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above					
a						a <input checked="" type="checkbox"/> L <input type="checkbox"/>					
b						b <input type="checkbox"/> <input type="checkbox"/>					
c						c <input type="checkbox"/>					
d						d <input type="checkbox"/>					
15. Special Handling Instructions and Additional Information CMR CODE: 01.1357 OUT OF SERVICE DATE: 10/10/95						ESTIMATED WEIGHT: 19813 kg EMERGENCY PHONE: (716) 876-8300 (24 HOURS)					
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 BRUCE R. WARNER						Signature FOR FMC BRUCE R. WARNER					
						Mo. Day Year 10/10/95					
17. Transporter 1 (Acknowledgement of Receipt of Materials)											
Printed/Typed Name FRANK G. SAWYER						Signature Frank G. Sawyer					
						Mo. Day Year 10/10/95					
18. Transporter 2 (Acknowledgement or Receipt of Materials)											
Printed/Typed Name						Signature					
						Mo. Day Year					
19. Discrepancy Indication Space act. recd 19858K											
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.											
Printed/Typed Name EILEEN CARTEK						Signature Eileen Cartek					
						Mo. Day Year 10/10/95					

NY B 555184 8

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

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

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

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NYD07493310195038		Manifest Document No. 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.	
3. Generator's Name and Mailing Address FMC CORPORATION P.O. BOX 845 BUFFALO, NY 14240-0845				A. State Manifest Document No. NY B 555185 7					
4. Generator's Phone (716) 876-8300				B. Generator's ID 10258P (ny)					
5. Transporter 1 (Company Name) HAZMAT ENVIRONMENTAL GROUP				6. US EPA ID Number NYD980783347					
7. Transporter 2 (Company Name)				8. US EPA ID Number					
9. Designated Facility Name and Site Address CAN CHEMICAL SERVICES, INC. 1550 BALMER ROAD ROSEL CITY, NY 14107				10. US EPA ID Number NYD049836878					
				C. State Transporter's ID 10258P (ny)					
				D. Transporter's Phone (716) 827-7200					
				E. State Transporter's ID					
				F. Transporter's Phone ()					
				G. State Facility's ID					
				H. Facility's Phone (716) 754-8231					
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers		13. Total Quantity		14. Unit Wt/Vol	
a. 82, POLYCHLORINATED BIPHENYLS, MIXTURE, 9, UN 2314, PG III				No. Type		Quantity		Waste No.	
								EPA	
								STATE	
								EPA	
								STATE	
								EPA	
								STATE	
J. Additional Descriptions for Materials listed Above				K. Handling Codes for Wastes Listed Above					
a				c		a		c	
b				d		b		d	
15. Special Handling Instructions and Additional Information									
CAN CODE: BL 1357 OUT OF SERVICE DATE: 10/10/95 ESTIMATED WEIGHT: 18805 kg EMERGENCY PHONE: (716) 876-8300 (24 HOURS) 2437712									
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 BRUCE H. WANNER				Signature FOR FMC Bruce H. Wanner				Mo. Day Year 10/10/95	
17. Transporter 1 (Acknowledgement of Receipt of Materials)				Printed/Typed Name Tom Polley				Signature Tom Polley	
								Mo. Day Year 10/10/95	
18. Transporter 2 (Acknowledgement of Receipt of Materials)				Printed/Typed Name				Signature	
								Mo. Day Year	
19. Discrepancy Indication Space Actual Recd 19015 K									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name KATH VILFENUE				Signature Kath Vilfene				Mo. Day Year 10/11/95	

NY B 555185 7

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

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

Form Approved OMB No. 2050-0039 Expires 9-30-96

Please print or type. Do not Staple.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NY D 0 7 4 0 3 3 1 0 1 9 5 0 2 7 1		Manifest Document No. 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.	
3. Generator's Name and Mailing Address FMC CORPORATION P.O. BOX 845 BUFFALO, NY 14240-0845		6. US EPA ID Number NY D 9 8 0 7 6 9 9 4 7		A. State Manifest Document No. NY B 8166096		B. Generator's ID 37 SAWYER AVE TOMAHAWK, NY 14150			
4. Generator's Phone (716) 876-8300		7. Transporter 1 (Company Name) HAZMAT ENVIRONMENTAL GROUP		8. US EPA ID Number NY D 0 4 9 8 3 6 6 7 9		C. State Transporter's ID 10226PNY		D. Transporter's Phone (716) 827-7200	
5. Transporter 2 (Company Name)		9. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, INC. 1550 BALMER ROAD MOORE CITY, NY 14107		10. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone ()	
		11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) a. AQ, POLYCHLORINATED BIPHENYLS, MIXTURE, 9, UN 2315, PG III		12. Containers No. Type 001 DT 21247 K		13. Total Quantity		14. Unit Wt/Vol	
		b.						I. Waste No. EPA STATE 8007 EPA STATE	
		c.						EPA STATE	
		d.						EPA STATE	
J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above		a		b		c	
a		b		c		d			
b		c		d					
15. Special Handling Instructions and Additional Information CWM CODE: BL 1357 OUT OF SERVICE DATE: 10/10/95 ESTIMATED WEIGHT: 21247 kg EMERGENCY PHONE: (716) 876-8300 (24 HOURS)									
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 BRUCE R. WARNER		Signature <i>Bruce R. Warner</i>				Mo. Day Year 11/10/95			
17. Transporter 1 (Acknowledgement of Receipt of Materials)		Printed/Typed Name Kenneth Joyal				Signature <i>Kenneth Joyal</i>			
18. Transporter 2 (Acknowledgement or Receipt of Materials)		Printed/Typed Name				Signature			
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. 21283 K				Printed/Typed Name Keith Villeneuve			
						Signature <i>Keith Villeneuve</i>			
						Mo. Day Year 11/10/95			

NY B 8166096

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

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

Form Approved OMB No. 2050-0039 Expires 9-30-96

Please print or type. Do not Staple.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NY 1017403310195040		Manifest Document No. 40		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.									
3. Generator's Name and Mailing Address FMC CORPORATION P.O. BOX 845 BUFFALO, NY 14240-0845						A. State Manifest Document No. NY B 8166087											
4. Generator's Phone (716) 876-8300						B. Generator's ID 37 SAWYER AVE TONAWANDA, NY 14150											
5. Transporter 1 (Company Name) HAZMAT ENVIRONMENTAL GROUP						C. State Transporter's ID 10255 NY											
6. US EPA ID Number NY 10180769947						D. Transporter's Phone (716) 827-7200											
7. Transporter 2 (Company Name)						E. State Transporter's ID											
8. US EPA ID Number						F. Transporter's Phone ()											
9. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, INC. 1550 BALMER ROAD MODEL CITY, NY 14107						10. US EPA ID Number NY 10149836679											
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		15. Waste No. EPA STATE EPA STATE EPA STATE					
a. RQ, POLYCHLORINATED BIPHENYLS, MIXTURE, 9, UN 2315, PG III						0010719813 K											
b.																	
c.																	
d.																	
J. Additional Descriptions for Materials listed Above						K. Handling Codes for Wastes Listed Above											
a						c		a		c							
b						d		b		d							
15. Special Handling Instructions and Additional Information CWM CODE: BL 1357 OUT OF SERVICE DATE: 10/10/95 ESTIMATED WEIGHT: 19813 kg EMERGENCY PHONE: (716) 876-8300 (24 HOURS)																	
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 BRUCE B. WARNER						Signature Bruce B. Warner				Mo. Day Year 10 10 95							
17. Transporter 1 (Acknowledgement of Receipt of Materials)						Printed/Typed Name William J. Carter				Signature William J. Carter				Mo. Day Year 10 10 95			
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. 19577K																	
Printed/Typed Name Eileen Carter						Signature Eileen Carter				Mo. Day Year 10 10 95							

NY B 8166087

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the N.Y. Dept. of Environmental Conservation (518) 457-7362.

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION
HAZARDOUS WASTE MANIFEST

Please print or type. Do not Staple.

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

Form Approved OMB No. 2050-0039. Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NY 00740331019504		Manifest Document No. 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.							
3. Generator's Name and Mailing Address FMC CORPORATION P.O. BOX 845 BUFFALO, NY 14240-0845				A. State Manifest Document No. NY B 8166078											
4. Generator's Phone (716) 876-8300				B. Generator's ID 37 SAWYER AVE TONAWANDA, NY 14150											
5. Transporter 1 (Company Name) HAZMAT ENVIRONMENTAL GROUP				C. State Transporter's ID 10257PNY											
6. US EPA ID Number NY 0980769947				D. Transporter's Phone ()											
7. Transporter 2 (Company Name)				E. State Transporter's ID 716 827-7200											
8. US EPA ID Number				F. Transporter's Phone ()											
9. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, INC. 1550 BALMER ROAD MODEL CITY, NY 14107				G. State Facility's ID											
10. US EPA ID Number NY 0049836679				H. Facility's Phone (716) 754-8231											
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers		13. Total Quantity		14. Unit Wt/Vol		I. Waste No.					
a. RQ, POLYCHLORINATED BIPHENYLS, MIXTURE, 9, UN 2315, PG III				No. Type						EPA					
										STATE					
										EPA					
										STATE					
										EPA					
										STATE					
										EPA					
										STATE					
J. Additional Descriptions for Materials listed Above				K. Handling Codes for Wastes Listed Above											
a				c				a <input checked="" type="checkbox"/> L				c <input type="checkbox"/>			
b				d				b <input type="checkbox"/>				d <input type="checkbox"/>			
15. Special Handling Instructions and Additional Information CWM CODE: BL 1357 OUT OF SERVICE DATE: 10/10/95 ESTIMATED WEIGHT: 22600 kg EMERGENCY PHONE: (716) 876-8300 (24 HOURS)															
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 BRUCE R. WARNER				Signature <i>Bruce R. Warner</i>				Mo. Day Year 11/10/95							
17. Transporter 1 (Acknowledgement of Receipt of Materials)				Printed/Typed Name <i>John E. Kane</i>				Signature <i>John E. Kane</i>				Mo. Day Year 11/10/95			
18. Transporter 2 (Acknowledgement or Receipt of Materials)				Printed/Typed Name				Signature				Mo. Day Year			
19. Discrepancy Indication Space 23133K															
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.															
Printed/Typed Name <i>William Carter</i>				Signature <i>William Carter</i>				Mo. Day Year 11/10/95							

NY B 8166078

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

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

Form Approved, OMB No. 2050-0039 Expires 9-30-96

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NY 007403310185042		Manifest Document No. 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law						
3. Generator's Name and Mailing Address FMC CORPORATION P.O. BOX 845 BUFFALO, NY 14240				A. State Manifest Document No. NY B 8166159										
4. Generator's Phone (716) 876-8300				B. Generator's ID 37 SANYER AVE. TONAWANDA, NY 14150										
5. Transporter 1 (Company Name) HAZMAT ENVIRONMENTAL GROUP				6. US EPA ID Number NY 00000700947		C. State Transporter's ID 102034 NY								
7. Transporter 2 (Company Name)				8. US EPA ID Number		D. Transporter's Phone (716) 827-7200								
9. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, INC. 1550 BALMER RD. MODEL CITY, NY 14107				10. US EPA ID Number NY 0048836679		E. State Transporter's ID								
						F. Transporter's Phone ()								
						G. State Facility's ID								
						H. Facility's Phone (716) 754-8231								
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		I. Waste No.		
a. RQ, POLYCHLORINATED BIPHENYLS, MIXTURE, 9, UN2315, PGIII						No. Type						EPA		
												STATE		
b.												EPA		
												STATE		
c.												EPA		
												STATE		
d.												EPA		
												STATE		
J. Additional Descriptions for Materials listed Above						K. Handling Codes for Wastes Listed Above								
a						a <input checked="" type="checkbox"/> L <input type="checkbox"/>								
b						b <input type="checkbox"/> <input type="checkbox"/>								
c						c <input type="checkbox"/>								
d						d <input type="checkbox"/>								
15. Special Handling Instructions and Additional Information														
CWM CODE: BL 1357										ESTIMATED WEIGHT: 18850 KG				
OUT OF SERVICE DATE: 10/10/95										EMERGENCY PHONE: (716) 876-8300 24 HRS.				
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 BRUCE R. WARNER					Signature <i>Bruce R. Warner</i>					Mo. Day Year 10/10/95				
17. Transporter 1 (Acknowledgement of Receipt of Materials)														
Printed/Typed Name <i>Fred B. Sanyer</i>					Signature <i>Fred B. Sanyer</i>					Mo. Day Year 10/10/95				
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 <i>RITA VILLENEUVE</i>					Signature <i>Rita Villeneuve</i>					Mo. Day Year 10/10/95				

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

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

Form Approved OMB No. 2050-0039 Expires 9-30-96

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NY 0074033101950421		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.	
3. Generator's Name and Mailing Address FMC CORPORATION P.O. BOX 345 BUFFALO, NY 14240-0845				A. State Manifest Document No. NY B 8166105					
4. Generator's Phone (716) 878-8300				B. Generator's ID 37 SANGER AVE TONAWANDA, NY 14150					
5. Transporter 1 (Company Name) HAZMAT ENVIRONMENTAL GROUP				C. State Transporter's ID 10203PNY					
6. US EPA ID Number NY 0080760947				D. Transporter's Phone ()					
7. Transporter 2 (Company Name)				E. State Transporter's ID 716 827-7200					
8. US EPA ID Number				F. Transporter's Phone ()					
9. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, INC. 1550 BALMER ROAD MODEL CITY, NY 14107				10. US EPA ID Number NY 0040836679					
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers		13. Total Quantity		14. Unit Wt/Vol	
a. PG, POLYCHLORINATED BIPHENYLS, MIXTURE, 9, UN 2315, PG III				No. Type		Quantity		Waste No.	
						dd 10713811 K		EPA	
b.								STATE	
								EPA	
c.								STATE	
								EPA	
d.								STATE	
								EPA	
J. Additional Descriptions for Materials listed Above				K. Handling Codes for Wastes Listed Above					
a						L		c	
b								d	
15. Special Handling Instructions and Additional Information CWM CODE: BL 1357 OUT OF SERVICE DATE: 10/11/95 ESTIMATED WEIGHT: 13811 kg EMERGENCY PHONE: (716) 878-8300 (24 HOURS)									
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 BRUCE R. WARNER				Signature [Signature]				Mo. Day Year 11/01/95	
17. Transporter 1 (Acknowledgement of Receipt of Materials)				Printed/Typed Name Frank L. Smith				Signature [Signature]	
				Mo. Day Year 11/01/95					
18. Transporter 2 (Acknowledgement of 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 KATH VILLENUEVE				Signature [Signature]				Mo. Day Year 11/01/95	

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the N.Y. Dept. of Environmental Conservation (516) 457-7362.

NY B 8166105

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

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

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

Please print or type. Do not Staple.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NY D 0 7 4 0 3 3 1 0 1 9 5 0 4 4		Manifest Document No. 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.	
3. Generator's Name and Mailing Address FMC CORPORATION P.O. BOX 845 BUFFALO, NY 14240-0845		A. State Manifest Document No. NY B 508435 2		B. Generator's ID 37 SANYER AVENUE TONAWANDA, NY 14150-7717					
4. Generator's Phone (716) 876-8300		6. US EPA ID Number NY D 9 8 0 7 6 9 9 4 7		C. State Transporter's ID 112050NY		D. Transporter's Phone (716) 827-7200			
5. Transporter 1 (Company Name) HAZMAT ENVIRONMENTAL GROUP		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone ()			
7. Transporter 2 (Company Name)		10. US EPA ID Number		G. State Facility's ID		H. Facility's Phone (716) 754-8231			
9. Designated Facility Name and Site Address CMM CHEMICAL SERVICES, INC. 1550 BALMER ROAD MODEL CITY, NY 14107		11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) a. RQ, POLYCHLORINATED BIPHENYLS, MIXTURE, 9, UN 2315, PG III		12. Containers No. Type 0 0 1 C M 1 3 1 2 1		13. Total Quantity 1 3 1 2 1		14. Unit Wt/Vol K	
								I. Waste No. EPA STATE 8007	
								EPA STATE	
								EPA STATE	
								EPA STATE	
J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above							
a		a		b		c		d	
b		b		c		d		d	
15. Special Handling Instructions and Additional Information CMM CODE: BL 1357 ESTIMATED WEIGHT: 13121 kg OUT OF SERVICE DATE: 10/10/95 EMERGENCY TELEPHONE: 716-876-8300 (24 HOURS)									
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 BRUCE R. WARNER		Signature <i>Bruce R. Warner</i>		Mo. Day Year 10 13 95					
17. Transporter 1 (Acknowledgement of Receipt of Materials)		Printed/Typed Name <i>Kenneth Joyal</i>		Signature <i>Kenneth Joyal</i>		Mo. Day Year 10 12 95			
18. Transporter 2 (Acknowledgement or Receipt of Materials)		Printed/Typed Name		Signature		Mo. Day Year			
19. Discrepancy Indication Space 13898 K									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name <i>John Villeneuve</i>		Signature <i>John Villeneuve</i>		Mo. Day Year 10 13 95					

NY B 508435 2

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

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

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

Please print or type. Do not Staple.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NY007403310195045		Manifest Document No. 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.			
3. Generator's Name and Mailing Address PAC CORPORATION P.O. BOX 845 BUFFALO, NY 14240-0845						A. State Manifest Document No. NY B 508436 1					
4. Generator's Phone (716) 876-8328						B. Generator's ID 14240-0845					
5. Transporter 1 (Company Name) HAZMAT ENVIRONMENTAL GROUP						C. State Transporter's ID PD94971					
6. US EPA ID Number NY00000760047						D. Transporter's Phone (716) 827-7500					
7. Transporter 2 (Company Name)						E. State Transporter's ID					
8. US EPA ID Number						F. Transporter's Phone ()					
9. Designated Facility Name and Site Address CMC CHEMICAL SERVICES, INC. 1550 BALMAIN ROAD MODEL CITY, NY 14107						G. State Facility's ID					
10. US EPA ID Number NY0040838679						H. Facility's Phone (716) 784-8231					
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit	
a. 80, POLYCHLORINATED BIPHENYLS, MIXTURE, 9, HSE 2215, PG III						No. Type		Quantity		Wt/Vol	
						001CN		14746		K	
b.										EPA	
										STATE	
c.										EPA	
										STATE	
d.										EPA	
										STATE	
J. Additional Descriptions for Materials listed Above						K. Handling Codes for Wastes Listed Above					
a						a <input checked="" type="checkbox"/> c <input type="checkbox"/>					
b						b <input type="checkbox"/> d <input type="checkbox"/>					
15. Special Handling Instructions and Additional Information CM CODE: EL 1367 OUT OF SERVICE DATE: 10/10/95 ESTIMATED WEIGHT: 14746 kg EMERGENCY TELEPHONE: 716-876-8328 (24 HOURS) 81437390											
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 BRUCE R. WARNER						Signature Bruce R. Warner			Mo. Day Year 10/12/95		
17. Transporter 1 (Acknowledgement of Receipt of Materials)											
Printed/Typed Name Ted Kyre						Signature Ted Kyre			Mo. Day Year 10/12/95		
18. Transporter 2 (Acknowledgement or Receipt of Materials)											
Printed/Typed Name						Signature			Mo. Day Year		
19. Discrepancy Indication Space actual 14887K											
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.											
Printed/Typed Name Kath Villeneuve						Signature Kath Vill			Mo. Day Year 10/13/95		

NY B 508436 1

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

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

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

Please print or type. Do not Staple.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NY0074033101960461		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.	
3. Generator's Name and Mailing Address FAC CORPORATION P.O. BOX 845 BUFFALO, NY 14240-0845		A. State Manifest Document No. NY B 508437 9		B. Generator's ID 101295			
4. Generator's Phone (716) 876-8300		5. Transporter 1 (Company Name) HAZMAT ENVIR. GROUP		6. US EPA ID Number NY0980769947		C. State Transporter's ID PA10764	
7. Transporter 2 (Company Name)		8. US EPA ID Number		D. Transporter's Phone ()		E. State Transporter's ID	
9. Designated Facility Name and Site Address CMS CHEMICAL SERVICES, INC. 1800 CALVER ROAD REBEL CITY, NY 14107		10. US EPA ID Number NY0040836679		G. State Facility's ID		H. Facility's Phone (716) 754-0231	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers	13. Total Quantity	14. Unit	Waste No.
a. HL, POLYCHLORINATED BIPHENYLS, MIXTURE, 9, UN 2315, PG III				No. Type		Wt/Vol	EPA 001CN17388K STATE NY
b.							EPA STATE
c.							EPA STATE
d.							EPA STATE
J. Additional Descriptions for Materials listed Above				K. Handling Codes for Wastes Listed Above			
a				a <input checked="" type="checkbox"/> L c <input type="checkbox"/>			
b				b <input type="checkbox"/> d <input type="checkbox"/>			
15. Special Handling Instructions and Additional Information QMS CODE: DL 1307 OUT OF SERVICE DATE: 10/11/95 EXTENDED WEIGHT: 17388 kg EMERGENCY TELEPHONE: 716-876-8300 (24 HOURS) 814-7995							
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 BRUCE R. WARNER		Signature BRUCE R. WARNER		Mo. Day Year 10 12 95			
17. Transporter 1 (Acknowledgement of Receipt of Materials)		Printed/Typed Name Tom Polley		Signature Tom Polley		Mo. Day Year 10 12 95	
18. Transporter 2 (Acknowledgement or Receipt of Materials)		Printed/Typed Name		Signature		Mo. Day Year	
19. Discrepancy Indication Space actual recd 17736K							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.							
Printed/Typed Name EILEEN CARTEK		Signature Eileen Cartek		Mo. Day Year 10 16 95			

NY B 508437 9

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

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

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

Please print or type. Do not Staple.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NY 0074033101050471		Manifest Document No. 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.	
3. Generator's Name and Mailing Address FMC CORPORATION P.O. BOX 845 BUFFALO, NY 14245-0845		A. State Manifest Document No. NY B 508438 8		B. Generator's ID 101995		C. State Transporter's ID NY PAS320		D. Transporter's Phone (716) 784-8231	
4. Generator's Phone (716) 876-8330		5. Transporter 1 (Company Name) CHEMICAL WASTE MANAGEMENT		6. US EPA ID Number 12042833661		E. State Transporter's ID		F. Transporter's Phone ()	
7. Transporter 2 (Company Name)		8. US EPA ID Number		9. Designated Facility Name and Site Address CMI CHEMICAL SERVICES, INC. 1800 DELMAR ROAD ROSEL CITY, NY 14107		10. US EPA ID Number NY 0428336679		H. Facility's Phone (716) 784-8231	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity		14. Unit		I. Waste No.	
a. NO. POLYMERIZED EXPLOSIVE, MIXTURE, 8, UN 2315, PG III		No. Type		Quantity		Unit		EPA	
		001 CM		09089		K		STATE 1007	
b.								EPA	
								STATE	
c.								EPA	
								STATE	
d.								EPA	
								STATE	
J. Additional Descriptions for Materials listed Above		K. Handling Codes for Wastes Listed Above		a		c			
a		b		d					
b		c		d					
15. Special Handling Instructions and Additional Information CMI CODE: IL 1367 OUT OF SERVICE DATE: 10/19/95 SR# 250899-1-2		ESTIMATED WEIGHT: 9089 kg		EMERGENCY TELEPHONE: 716-876-8330 (24 HOURS)		R10744			
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 BRUCE R. WARNER		Signature <i>BRUCE R. WARNER</i>		Mo. Day Year 10/19/95					
17. Transporter 1 (Acknowledgement of Receipt of Materials)		Printed/Typed Name GARTH WILSON		Signature <i>Garth Wilson</i>		Mo. Day Year 10/19/95			
18. Transporter 2 (Acknowledgement of Receipt of Materials)		Printed/Typed Name		Signature		Mo. Day Year			
19. Discrepancy Indication Space <i>actual sent 9362K</i>		20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.		Printed/Typed Name RAM VUENHUE		Signature <i>Ram Vu</i>		Mo. Day Year 10/24/95	



STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

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

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

Please print or type. Do not Staple.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NYD074033101950481		Manifest Document No. 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.	
3. Generator's Name and Mailing Address FMC CORPORATION P.O. BOX 845 BUFFALO, NY 14240-0845		A. State Manifest Document No. NY B 508441 5		B. Generator's ID 718 876-8300		C. State Transporter's ID NY 824072		D. Transporter's Phone (718) 754-8231	
4. Generator's Phone (718) 876-8300		5. Transporter 1 (Company Name) Chemical Waste Management		6. US EPA ID Number IL0000202681		E. State Transporter's ID		F. Transporter's Phone ()	
7. Transporter 2 (Company Name)		8. US EPA ID Number		9. Designated Facility Name and Site Address CMC CHEMICAL SERVICES, INC. 1550 SALMER ROAD MIDEL CITY, NY 14107		10. US EPA ID Number NYD040036079		G. State Facility's ID	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity		14. Unit		I. Waste No.	
a. 80, POLYCHLORINATED BIPHENYLS, MIXTURE, 9, UN 2810, PG III		No. Type 001 CM		ESTIMATE 11523		K		EPA STATE NY	
b.								EPA STATE	
c.								EPA STATE	
d.								EPA STATE	
J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above		a		b		c	
a		b		c		d		e	
b		c		d		e		f	
15. Special Handling Instructions and Additional Information CMC CODE: 0L 1357 OUT OF SERVICE DATE: 10/18/95 SR# 256200-1		ESTIMATED WEIGHT: 11523 kg		EMERGENCY TELEPHONE: 718-876-8300 (24 HOURS)					
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 BRUCE R. WARNER		Signature FOR FMC Bruce R Warner		Mo. Day Year 10 20 95			
17. Transporter 1 (Acknowledgement of Receipt of Materials)		Printed/Typed Name ROBERT J. DUNN		Signature Robert J. Dunn		Mo. Day Year 10 20 95			
18. Transporter 2 (Acknowledgement or Receipt of Materials)		Printed/Typed Name		Signature		Mo. Day Year			
19. Discrepancy Indication Space Actual 11257K		20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.		Printed/Typed Name EILEEN CARTER		Signature Eileen Carter		Mo. Day Year 10 20 95	

NY B 508441 5

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

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

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

Please print or type. Do not Staple.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No NYD074032101950491		Manifest Document No 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.	
3. Generator's Name and Mailing Address FMC CORPORATION P.O. BOX 845 BUFFALO, NY 14240-0845		A. State Manifest Document No. NY B 508442 4		B. Generator's ID 102095		C. State Transporter's ID NY 43903 Y		D. Transporter's Phone (716) 764-0331	
4. Generator's Phone (716) 876-8330		5. Transporter 1 (Company Name) CHEMICAL WASTE MANAGEMENT		6. US EPA ID Number IL0000202081		E. State Transporter's ID		F. Transporter's Phone ()	
7. Transporter 2 (Company Name)		8. US EPA ID Number		9. Designated Facility Name and Site Address CAN CHEMICAL SERVICES, INC. 1570 SALMON ROAD ROSEL CITY, NY 14107		10. US EPA ID Number NYD049030679		H. Facility's Phone (716) 764-0331	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) a. 10, POLYCHLORINATED BIPHENYLS, MIXTURE, 9, UN 2315, PG III		12. Containers No. Type 001 CR 11967 K		13. Total Quantity ESTIMATE		14. Unit Wt/Vol K		15. Waste No. EPA STATE 102095	
b.								EPA STATE	
c.								EPA STATE	
d.								EPA STATE	
J. Additional Descriptions for Materials listed Above		K. Handling Codes for Wastes Listed Above		a. L		c.			
b.		d.		b.		d.			
15. Special Handling Instructions and Additional Information CAN CODE: 102095 OUT OF SERVICE DATE: 10/10/95 SR # 256198-1 ESTIMATED WEIGHT: 11967 kg EMERGENCY TELEPHONE: 716-876-8330 (24 HOURS) 81438392									
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 BRUCE R. WARNER		Signature FOR FMC Bruce R Warner		Mo. Day Year 10 20 95					
17. Transporter 1 (Acknowledgement of Receipt of Materials)		Printed/Typed Name Dennis J. Hoover		Signature Dennis J Hoover		Mo. Day Year 10 20 95			
18. Transporter 2 (Acknowledgement or Receipt of Materials)		Printed/Typed Name		Signature		Mo. Day Year			
19. Discrepancy Indication Space Actual Rec'd 12048 K									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name KATH VILGNEUVE		Signature Kath Vilg		Mo. Day Year 10 20 95					

COPY 5-Generator-mailed by TSD facility

COPY 8-Generator-received by generator

NY B 508442 4

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

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

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

Please print or type. Do not Staple.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NY 007403310105050		Manifest Document No. 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.			
3. Generator's Name and Mailing Address FMC CORPORATION P.O. BOX 845 BUFFALO, NY 14240-0845						A. State Manifest Document No. NY B 508443 3					
4. Generator's Phone (716) 879-8300						B. Generator's ID # 14240-0845					
5. Transporter 1 (Company Name) CHEMICAL WASTE MANAGEMENT				6. US EPA ID Number ILL 0000202031		C. State Transporter's ID # 14240-0845					
7. Transporter 2 (Company Name)				8. US EPA ID Number		D. Transporter's Phone (716) 764-0231					
9. Designated Facility Name and Site Address CMI CHEMICAL SERVICES, INC. 1000 SALMER ROAD MODEL CITY, NY 14107				10. US EPA ID Number NY 0040836679		E. State Transporter's ID					
						F. Transporter's Phone ()					
						G. State Facility's ID					
						H. Facility's Phone (716) 764-0231					
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol	
a. NO. POLYCHLORINATED BIPHENYLS, MIXTURE, S. UN 2315, PG III						No. Type 001C		13003		EPA Waste No. STATE	
b.										EPA STATE	
c.										EPA STATE	
d.										EPA STATE	
J. Additional Descriptions for Materials listed Above						K. Handling Codes for Wastes Listed Above					
a.						a. <input checked="" type="checkbox"/> b. <input type="checkbox"/> c. <input type="checkbox"/> d. <input type="checkbox"/>					
b.						b. <input type="checkbox"/> c. <input type="checkbox"/> d. <input type="checkbox"/>					
15. Special Handling Instructions and Additional Information CM CODE: IL 1357 OUT OF SERVICE DATE: 10/20/95 SERVICE REQUEST # 256204-1						ESTIMATED WEIGHT: 13003 kg EMERGENCY TELEPHONE: 716-879-8300 (24 HOURS)					
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 BRUCE R. WARNER				Signature FOR FMC Bruce R. Warner				Mo. Day Year 10 20 95			
17. Transporter 1 (Acknowledgement of Receipt of Materials)											
Printed/Typed Name ROBERT J. DUNN				Signature Robert J. Dunn				Mo. Day Year 10 20 95			
18. Transporter 2 (Acknowledgement or Receipt of Materials)											
Printed/Typed Name				Signature				Mo. Day Year			
19. Discrepancy Indication Space actual recd 13390 K											
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.											
Printed/Typed Name ARTH VIKENFUNE				Signature Arth Vikenfun				Mo. Day Year 10 24 95			

NY B 508443 3

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

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

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

Please print or type. Do not Staple.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NY 007403310105051		Manifest Document No. 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.							
3. Generator's Name and Mailing Address PWC CORPORATION P.O. BOX 845 BUFFALO, NY 14240-0845				A. State Manifest Document No. NY B 508444-2											
4. Generator's Phone (716) 876-8300				B. Generator's ID FORWARD, NY 14240-0845											
5. Transporter 1 (Company Name) CHEMICAL WASTE MANAGEMENT				6. US EPA ID Number 110000202081		C. State Transporter's ID NY 14240									
7. Transporter 2 (Company Name)				8. US EPA ID Number		D. Transporter's Phone ()									
9. Designated Facility Name and Site Address OWT CHEMICAL SERVICES, INC. 1500 SALVER ROAD MODEL CITY, NY 14107				10. US EPA ID Number NY 0040826670		E. State Transporter's ID									
						F. Transporter's Phone ()									
						G. State Facility's ID									
						H. Facility's Phone (716) 764-0221									
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. HQ, POLYCHLORINATED BIPHENYLS, MIXTURE, 9, UN 2815, PG III				001 CR		ESTIMATE 12748		E		EPA STATE					
b.										EPA STATE					
c.										EPA STATE					
d.										EPA STATE					
J. Additional Descriptions for Materials listed Above				K. Handling Codes for Wastes Listed Above											
a				c				a <input checked="" type="checkbox"/> c <input type="checkbox"/>							
b				d				b <input type="checkbox"/> d <input type="checkbox"/>							
15. Special Handling Instructions and Additional Information OWT CODE: BL 1357 OUT OF SERVICE DATE: 10/20/95 S.R. # 256202															
ESTIMATED WEIGHT: 12748 LB EMERGENCY TELEPHONE: 716-876-8300 (24 HOURS) 2143347															
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 BRUCE R. WARNER				Signature FOR PWC BRUCE R. Warner				Mo. Day Year 10 20 95							
17. Transporter 1 (Acknowledgement of Receipt of Materials)				Printed/Typed Name Dennis J. Hoover				Signature Dennis Hoover				Mo. Day Year 10 20 95			
18. Transporter 2 (Acknowledgement or Receipt of Materials)				Printed/Typed Name				Signature				Mo. Day Year			
19. Discrepancy Indication Space a true receipt 12492K															
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.															
Printed/Typed Name KATH VIGORFUNE				Signature Kath Vell				Mo. Day Year 10 24 95							

NY B 508444 2

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

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

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

Please print or type. Do not Staple.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No NY007403310105052		Manifest Document No 2		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.							
3. Generator's Name and Mailing Address FMC CORPORATION P.O. BOX 845 BUFFALO, NY 14240-0845						A. State Manifest Document No. NY B 425318 4									
4. Generator's Phone (716) 878-8300						B. Generator's ID 37 SOUTHERN AVENUE TOWNHILL, NY 14150-3717									
5. Transporter 1 (Company Name) HAZMAT ENVIRONMENTAL GROUP						C. State Transporter's ID 1A716123									
6. US EPA ID Number NY0080709947						D. Transporter's Phone (716) 878-8300									
7. Transporter 2 (Company Name)						E. State Transporter's ID									
8. US EPA ID Number						F. Transporter's Phone ()									
9. Designated Facility Name and Site Address CMH CHEMICAL SERVICES, INC. 1550 BALMER ROAD ROSEL CITY, NY 14107						10. US EPA ID Number NY0049830679									
G. State Facility's ID						H. Facility's Phone (716) 784-0231									
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit		15. Waste No.			
a. PG, POLYCHLORINATED BIPHENYLS, MIXTURE, 9, UN 2315, PG III						No. 0016		Type M		ESTIMATE 12848		EPA STATE NY			
b.												EPA STATE			
c.												EPA STATE			
d.												EPA STATE			
J. Additional Descriptions for Materials listed Above						K. Handling Codes for Wastes Listed Above									
a						a <input checked="" type="checkbox"/> c <input type="checkbox"/>									
b						b <input type="checkbox"/> d <input type="checkbox"/>									
15. Special Handling Instructions and Additional Information CMH CODE: BL 1357 OUT OF SERVICE DATE: 10/20/95 SERVICE REQUEST # 268501-1 ESTIMATED WEIGHT: 12848 kg EMERGENCY TELEPHONE: 716-878-8300 (24 HOURS) 81138451															
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 BRUCE R. WARNER						Signature FOR FMC Bruce R. Warner						Mo. Day Year 102395			
17. Transporter 1 (Acknowledgement of Receipt of Materials)						Printed/Typed Name Tom Polley						Signature Tom Polley		Mo. Day Year 102395	
18. Transporter 2 (Acknowledgement or Receipt of Materials)						Printed/Typed Name						Signature		Mo. Day Year	
19. Discrepancy Indication Space Actual Pkg of 13436K															
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.															
Printed/Typed Name KATH VILLENEUVE						Signature Kath Vill						Mo. Day Year 102395			

NY B 425318 4

In case of emergency or spill immediately call the National Response Center (800) 424-9300 and the N.Y. Dept. of Environmental Conservation (518) 457-7362.



STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

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

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

Please print or type. Do not Staple.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NY B 07403310105053		Manifest Document No. 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.	
3. Generator's Name and Mailing Address FMC CORPORATION P.O. BOX 845 BUFFALO, NY 14240-0845				A. State Manifest Document No. NY B 425216 7					
4. Generator's Phone (716) 878-8300				B. Generator's ID 102395					
5. Transporter 1 (Company Name) HAZMAT ENVIRONMENTAL GROUP				6. US EPA ID Number NY 9980789947		C. State Transporter's ID 102395			
7. Transporter 2 (Company Name)				8. US EPA ID Number		D. Transporter's Phone (716) 827-7200			
9. Designated Facility Name and Site Address CMH CHEMICAL SERVICES, INC. 1800 BALMER ROAD MODEL CITY, NY 14107				10. US EPA ID Number NY 0049830679		E. State Transporter's ID			
						F. Transporter's Phone ()			
						G. State Facility's ID			
						H. Facility's Phone (716) 754-8231			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers		13. Total Quantity		14. Unit	
a. 80, POLYCHLORINATED BIPHENYLS, MIXTURE, 0, UN 2315, PG III				No. Type 001 CM		ESTIMATE 13048		Wt/Vol K	
b.								I. Waste No. EPA STATE 0007	
c.								EPA STATE	
d.								EPA STATE	
J. Additional Descriptions for Materials listed Above				K. Handling Codes for Wastes Listed Above					
a				c		a		c	
b				d		b		d	
15. Special Handling Instructions and Additional Information CMH CODE: BL 1357 OUT OF SERVICE DATE: 10/20/85 SERVICE REQUEST # 256501-2 ESTIMATED WEIGHT: 13048 kg EMERGENCY TELEPHONE: 716-878-8300 (24 HOURS) R14-2052									
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 BRUCE R. WARNER				Signature FOR FMC BRUCE R WARNER				Mo. Day Year 10 23 95	
17. Transporter 1 (Acknowledgement of Receipt of Materials)				Printed/Typed Name THOMAS H. HALEY				Signature Thomas H. Haley	
18. Transporter 2 (Acknowledgement or Receipt of Materials)				Printed/Typed Name				Signature	
19. Discrepancy Indication Space Actual received 13490 K				20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name KATH VUENEUVE				Signature Kath Vuenueve				Mo. Day Year 10 23 95	

NY B 425216 7

HAZARDOUS WASTE MANIFEST

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

Please print or type. Do not **Staple**.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No		Manifest Document No.		2. Page 1 of		Information in the shaded areas is not required by Federal Law.	
3. Generator's Name and Mailing Address		FMC CORPORATION P.O. BOX 845 BUFFALO, NY 14240-0845				A. State Manifest Document No. NY B 425218 5			
4. Generator's Phone (716) 876-8300						B. Generator's ID NY CENTER AVENUE TOWNHALL, NY 14130-7717			
5. Transporter 1 (Company Name) HAZMAT ENVIRONMENTAL GROUP		6. US EPA ID Number NY0800760947				C. State Transporter's ID			
7. Transporter 2 (Company Name)		8. US EPA ID Number				D. Transporter's Phone (716) 827-7200			
9. Designated Facility Name and Site Address CMI CHEMICAL SERVICES, INC. 1800 BALMER ROAD ROSEL CITY, NY 14107		10. US EPA ID Number NY0849030079				E. State Transporter's ID PD1949 NY			
						F. Transporter's Phone ()			
						G. State Facility's ID			
						H. Facility's Phone (716) 704-0231			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.	
a. 00, POLYCHLORINATED BIPHENYLS, MIXTURE, 9, ON 2315, PG III		No. Type		ESTIMATE				EPA	
		001 CM		12449		K		STATE	
b.								EPA	
								STATE	
c.								EPA	
								STATE	
d.								EPA	
								STATE	
J. Additional Descriptions for Materials listed Above		K. Handling Codes for Wastes Listed Above							
a		a		K		c			
b		b				d			
15. Special Handling Instructions and Additional Information CMI CODE: BL 1367 OUT OF SERVICE DATE: 10/20/95 S.R.# 258502-1		ESTIMATED WEIGHT: 12,449 kg EMERGENCY TELEPHONE: 716-876-8300 (24 HOURS) 81421509							
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 BRUCE R. WARNER		Signature FOR FMC Bruce R Warner				Mo. Day Year 102495			
17. Transporter 1 (Acknowledgement of Receipt of Materials)		Signature Ted Ky...				Mo. Day Year 102495			
18. Transporter 2 (Acknowledgement or Receipt of Materials)		Signature				Mo. Day Year			
19. Discrepancy Indication Space actual record 11993K		Item K-12							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name KATH VUENHENS		Signature Kath Vu...				Mo. Day Year 102495			

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

CONFIDENTIAL - SECURITY INFORMATION

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NY B 425218 5

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

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

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

Please print or type. Do not Staple.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NY007403310105055		Manifest Document No. 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.	
3. Generator's Name and Mailing Address FMC CORPORATION P.O. BOX 845 BUFFALO, NY 14240-0845		A. State Manifest Document No. NY B 425217 6		B. Generator's ID 1035324Y		C. State Transporter's ID 102495		D. Transporter's Phone (716) 627-7500	
4. Generator's Phone (716) 876-8330		5. Transporter 1 (Company Name) HAZMAT ENVIRONMENTAL GROUP		6. US EPA ID Number NY00800769947		7. Transporter 2 (Company Name)		8. US EPA ID Number	
9. Designated Facility Name and Site Address COR CHEMICAL SERVICES, INC. 1550 CALMER ROAD ROSEL CITY, NY 14107		10. US EPA ID Number NY0048838078		11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) a. 82, POLYCHLORINATED BIPHENYLS, MIXTURE, 8, UN 2315, PG III		12. Containers No. Type 001 CN		13. Total Quantity 12013 K	
				14. Unit Wt/Vol K		15. I. Waste No. EPA 8007		STATE	
								EPA STATE	
								EPA STATE	
								EPA STATE	
J. Additional Descriptions for Materials listed Above		K. Handling Codes for Wastes Listed Above		a <input checked="" type="checkbox"/> K		c <input type="checkbox"/>		b <input type="checkbox"/> d <input type="checkbox"/>	
15. Special Handling Instructions and Additional Information COR CODE: BL 1357 OUT OF SERVICE DATE: 10/20/85 S.R.#238502-2		ESTIMATED WEIGHT: 12013 kg		EMERGENCY TELEPHONE: 716-876-8330 (24 HOURS)					
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 BRUCE R. WARNER		Signature <i>FOR FMC Bruce R Warner</i>		Mo. Day Year 10 24 95					
17. Transporter 1 (Acknowledgement of Receipt of Materials)		Printed/Typed Name KENNETH JOYAL		Signature <i>Kenneth Joyal</i>		Mo. Day Year 10 24 95			
18. Transporter 2 (Acknowledgement or Receipt of Materials)		Printed/Typed Name		Signature		Mo. Day Year			
19. Discrepancy Indication Space actual received 12193K									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name KATH VULFENE		Signature <i>Kath Vulfene</i>		Mo. Day Year 10 24 95					

NY B 425217 6

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

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

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

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US-EPA No. NY007403810195656		Manifest Document No. 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.					
3. Generator's Name and Mailing Address PMC CORPORATION P.O. BOX 845 BUFFALO, NY 14240-0845				A. State Manifest Document No. NY B 425215 8									
4. Generator's Phone (716) 876-8300				B. Generator's ID 37 EARTH WAREHOUSE TOWNSEND, NY 14155-7117									
5. Transporter 1 (Company Name) CHEMICAL WASTE MANAGEMENT				6. US EPA ID Number IL0099202001		C. State Transporter's ID NY-PA5320							
7. Transporter 2 (Company Name)				8. US EPA ID Number		D. Transporter's Phone (716) 754-8231							
9. Designated Facility Name and Site Address CNR CHEMICAL SERVICES, INC. 1550 BALDWIN ROAD MODEL CITY, NY 14107				10. US EPA ID Number NY0049838678		E. State Transporter's ID							
						F. Transporter's Phone ()							
						G. State Facility's ID							
						H. Facility's Phone (716) 754-8231							
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit		15. Waste No.	
a. NO. POLYCARBONATED CEMENTS, MIXTURE, 9, UN 2315, PG III						No. Type 001 CM		ESTIMATE 11759		K		EPA STATE 0007	
b.												EPA STATE	
c.												EPA STATE	
d.												EPA STATE	
J. Additional Descriptions for Materials listed Above						K. Handling Codes for Wastes Listed Above							
a. PCBs								a. <input checked="" type="checkbox"/>		c. <input type="checkbox"/>			
b.								b. <input type="checkbox"/>		d. <input type="checkbox"/>			
15. Special Handling Instructions and Additional Information CNR CODE: BL 1367 OUT OF SERVICE DATE: 10/20/95 S.R.# 230024													
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. ESTIMATED WEIGHT: 11759 kg EMERGENCY TELEPHONE: 716-876-8300 (24 HOURS) 81438730													
Printed/Typed Name BRUCE R. WARNER				Signature FOR PMC Bruce R Warner				Mo. Day Year 10 24 95					
17. Transporter 1 (Acknowledgement of Receipt of Materials)													
Printed/Typed Name ROBERT MC MANN				Signature Robert M Mann				Mo. Day Year 10 24 95					
18. Transporter 2 (Acknowledgement or Receipt of Materials)													
Printed/Typed Name				Signature				Mo. Day Year					
19. Discrepancy Indication Space Actual Recd 11984K THANK - [L]													
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.													
Printed/Typed Name PAUL VUENEFUNE				Signature Paul Vuenefune				Mo. Day Year 10 25 95					

NY B 425215 8



STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

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

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

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No NY007403310193057		Manifest Document No. 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.	
3. Generator's Name and Mailing Address FMC CORPORATION P.O. BOX 845 BUFFALO, NY 14240-0845		4. Generator's Phone (716) 876-8300		A. State Manifest Document No. NY B 425315 7		B. Generator's ID 27 SHAFER AVENUE TOWNHILL, NY 14150-7710		C. State Transporter's ID 105324NY	
5. Transporter 1 (Company Name) HAZMAT ENVIRONMENTAL GROUP		6. US EPA ID Number NY0000769947		D. Transporter's Phone (716) 827-1200		E. State Transporter's ID		F. Transporter's Phone ()	
7. Transporter 2 (Company Name)		8. US EPA ID Number		G. State Facility's ID		H. Facility's Phone (716) 764-0021			
9. Designated Facility Name and Site Address CAR CHEMICAL SERVICES, INC. 1550 GALTHER ROAD ROSEL CITY, NY 14107		10. US EPA ID Number NY0049036679		11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) a. 82, POLYCHLORINATED BIPHENYLS, MIXTURE, 9, UN 2315, PG III		12. Containers No. Type 001 CN		13. Total Quantity ESTIMATE 12567 K	
14. Unit Wt/Vol K		15. Waste No. EPA STATE 8007		16. EPA STATE		17. EPA STATE		18. EPA STATE	
J. Additional Descriptions for Materials listed Above		K. Handling Codes for Wastes Listed Above		a		b		c	
a		b		c		d		e	
15. Special Handling Instructions and Additional Information CAR CODE: BL 1357 OUT OF SERVICE DATE: 10/20/95 S.R.#256362-1		ESTIMATED WEIGHT: 12 FLZ		EMERGENCY TELEPHONE: 716-876-8300 (24 HOURS)		81438634			
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 BRUCE R. WARNER		Signature FOR FMC Bruce R. Warner		Mo. Day Year 10 25 95			
17. Transporter 1 (Acknowledgement of Receipt of Materials)		Printed/Typed Name Kenneth Joyal		Signature Kenneth Joyal		Mo. Day Year 10 25 95			
18. Transporter 2 (Acknowledgement of Receipt of Materials)		Printed/Typed Name		Signature		Mo. Day Year			
19. Discrepancy Indication Space Actual Rec'd 12683 K		Item K <input checked="" type="checkbox"/>							
20. Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.		Printed/Typed Name John Vuenevuc		Signature John Vuenevuc		Mo. Day Year 10 25 95			

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the N.Y. Dept. of Environmental Conservation (516) 457-7382.



STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION
HAZARDOUS WASTE MANIFEST
P.O. Box 12820, Albany, New York 12212

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

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No NY0074033101990581		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.	
3. Generator's Name and Mailing Address FMC CORPORATION P.O. BOX 845 BUFFALO, NY 14240-0845		A. State Manifest Document No. NY B 425316 6		B. Generator's ID 37 BARNER AVENUE TOWNHILL, NY 14150-7717		C. State Transporter's ID		D. Transporter's Phone (716) 876-8300	
4. Generator's Phone (716) 876-8300		6. US EPA ID Number NY00000769847		E. State Transporter's ID TD141 NY		F. Transporter's Phone ()		G. State Facility's ID	
5. Transporter 1 (Company Name) HAZMAT ENVIRONMENTAL GROUP		8. US EPA ID Number		H. Facility's Phone (716) 784-8331		9. Designated Facility Name and Site Address GM CHEMICAL SERVICES, INC. 1530 BARNER ROAD MODEL CITY, NY 14107		10. US EPA ID Number NY0049838878	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity		14. Unit		I. Waste No.	
a. HQ. POLYCHLORINATED BIPHENYLS, MIXTURE, 9, UN 2315, PG III		No. Type		ESTIMATE		Wt/Vol		EPA	
		001 CM / 2467 K						STATE	
b.								EPA	
								STATE	
c.								EPA	
								STATE	
d.								EPA	
								STATE	
J. Additional Descriptions for Materials listed Above		K. Handling Codes for Wastes Listed Above		a		c			
a				b		d			
b									
15. Special Handling Instructions and Additional Information GM CODE: BL 1357 OUT OF SERVICE DATE: 10/20/95 S.R.#258362-2		ESTIMATED WEIGHT: 12467 kg EMERGENCY TELEPHONE: 716-876-8300 (24 HOURS) 10/20/95							
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		Signature FOR FMC BRUCE R. WARNER		Mo. Day Year 10 25 95					
17. Transporter 1 (Acknowledgement of Receipt of Materials)		Signature Red Kyre		Mo. Day Year 10 25 95					
18. Transporter 2 (Acknowledgement of Receipt of Materials)		Signature		Mo. Day Year					
19. Discrepancy Indication Space 2000 K-12		Signature Edgar Carter		Mo. Day Year 10 25 95					
20. Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.		Signature Edgar Carter		Mo. Day Year 10 25 95					

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

COPY 5-Generator-will keep this copy

COPY 8-Generator-retain copy generator

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the N.Y. Dept. of Environmental Conservation (516) 457-7362.

NY B 425316 6

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

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

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

Please print or type. Do not Staple.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NYD07403310195059		Manifest Document No. 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.	
3. Generator's Name and Mailing Address FMC CORPORATION P.O. BOX 845 BUFFALO, NY 14240-0845				A. State Manifest Document No. NY B 425317 5					
4. Generator's Phone (716) 876-8300				B. Generator's ID 27 CENTER AVENUE TOWNHILL, NY 14150-7017					
5. Transporter 1 (Company Name) HAZMAT ENVIRONMENTAL GROUP				C. State Transporter's ID 103951 (NY)					
6. US EPA ID Number NYD980769947				D. Transporter's Phone (716) 827-7200					
7. Transporter 2 (Company Name)				E. State Transporter's ID					
8. US EPA ID Number				F. Transporter's Phone ()					
9. Designated Facility Name and Site Address CNN CHEMICAL SERVICES, INC. 1500 BALMER ROAD ROSEL CITY, NY 14107				G. State Facility's ID					
10. US EPA ID Number NYD049836675				H. Facility's Phone (716) 754-8231					
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers		13. Total Quantity		14. Unit Wt/Vol	
a. NO. POLYCHLORINATED BIPHENYLS, MIXTURE, 9, UN 2315, PG III				No. Type 002 CM		ESTIMATE		Waste No. 12778 K	
b.								EPA STATE 8007	
c.								EPA STATE	
d.								EPA STATE	
J. Additional Descriptions for Materials listed Above				K. Handling Codes for Wastes Listed Above					
a				c		L		c	
b				d				d	
15. Special Handling Instructions and Additional Information CNN CODE: BL 1257 OUT OF SERVICE DATE: 10/20/95 S.R.#258734-1 ESTIMATED WEIGHT: 12778 kg EMERGENCY TELEPHONE: 716-876-8300 (24 HOURS) 21439000									
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 BRUCE R. WARNER				Signature <i>FOR FMC</i> <i>Bruce R. Warner</i>				Mo. Day Year 10/31/95	
17. Transporter 1 (Acknowledgement of Receipt of Materials)				Printed/Typed Name <i>Tom Polley</i>				Signature <i>Tom Polley</i>	
18. Transporter 2 (Acknowledgement or Receipt of Materials)				Printed/Typed Name				Signature	
19. Discrepancy Indication Space <i>actual issued 13172 K</i>				20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.				Printed/Typed Name <i>KATH VILLENEUVE</i>	
								Signature <i>Kath Villeneuve</i>	
								Mo. Day Year 10/31/95	

NY B 425317 5

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

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

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

Please print or type. Do not Staple.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NY 007403310195060		Manifest Document No. 01		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.	
3. Generator's Name and Mailing Address FMC CORPORATION P.O. BOX 845 BUFFALO, NY 14240-0845		A. State Manifest Document No. NY B 425319 3		B. Generator's ID 37 CENTER AVENUE TOWNHILL, NY 14150-7717		C. State Transporter's ID 113067 NY		D. Transporter's Phone (716) 827-3200	
4. Generator's Phone (716) 876-8300		5. Transporter 1 (Company Name) HAZMUT ENVIRONMENTAL GROUP		6. US EPA ID Number NY 0000700947		E. State Transporter's ID 113067 NY		F. Transporter's Phone (716) 827-3200	
7. Transporter 2 (Company Name)		8. US EPA ID Number		9. Designated Facility Name and Site Address CMR CHEMICAL SERVICES, INC. 1550 BALMAIN ROAD MODEL CITY, NY 14107		10. US EPA ID Number NY 0049836678		G. State Facility's ID (716) 784-8221	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) a. 80, POLYCHLORINATED BIPHENYLS, MIXTURE, 9, UN 2315, PG III		12. Containers No. Type 001 CN		13. Total Quantity ESTIMATE 12394		14. Unit Wt/Vol K		I. Waste No. EPA STATE 0007	
b.								EPA STATE	
c.								EPA STATE	
d.								EPA STATE	
J. Additional Descriptions for Materials listed Above		K. Handling Codes for Wastes Listed Above PPW L		a		c			
b		d		b		d			
15. Special Handling Instructions and Additional Information CMR CODE: BL 1357 OUT OF SERVICE DATE: 10/20/95 S.R.#256734-2		ESTIMATED WEIGHT: 12394 kg		EMERGENCY TELEPHONE: 716-876-8300 (24 HOURS)		814 39001			
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 BRUCE R. WARNER		Signature FOR FMC Bruce R. Warner		Mo. Day Year 10/31/95					
17. Transporter 1 (Acknowledgement of Receipt of Materials)		Printed/Typed Name GENE WALENTYNOWICZ		Signature Gene Walenty		Mo. Day Year 10/31/95			
18. Transporter 2 (Acknowledgement or Receipt of Materials)		Printed/Typed Name		Signature		Mo. Day Year			
19. Discrepancy Indication Space Actual Prod 12465 K		20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.		Printed/Typed Name KATH VILLENEUVE		Signature Kath Villeneuve		Mo. Day Year 10/31/95	

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

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

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

Please print or type. Do not Staple.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NY 007403310195061		Manifest Document No. 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.	
3. Generator's Name and Mailing Address FMC CORPORATION P.O. BOX 845 BUFFALO, NY 14260-0845		A. State Manifest Document No. NY B 425320 2		B. Generator's ID 37		C. State Generator's ID 14150-7717		D. Generator's Phone (716) 876-8300	
4. Generator's Phone (716) 876-8300		5. Transporter 1 (Company Name) HAZMAT ENVIRONMENTAL GROUP		6. US EPA ID Number NY 0980769947		C. State Transporter's ID 14150-7717		D. Transporter's Phone (716) 876-8300	
7. Transporter 2 (Company Name)		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone ()		G. State Facility's ID	
9. Designated Facility Name and Site Address CMH CHEMICAL SERVICES, INC. 1550 BALMER ROAD MIDEL CITY, NY 14107		10. US EPA ID Number NY 0040030079		H. Facility's Phone (716) 754-0231					
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No. Type		13. Total Quantity ESTIMATE		14. Unit Wt/Vol		I. Waste No.	
a. HQ, POLYCHLORINATED BIPHENYLS, MIXTURE, 9, UN 2315, PG III		001CN11041		K		ESTIMATE		EPA STATE 0007	
b.								EPA STATE	
c.								EPA STATE	
d.								EPA STATE	
J. Additional Descriptions for Materials listed Above		K. Handling Codes for Wastes Listed Above							
a		b		c		d			
b		c		d					
15. Special Handling Instructions and Additional Information CMH CODE: DL 1987 OUT OF SERVICE DATE: 10/20/95 S.R.# 257412-1		ESTIMATED WEIGHT: 11041 kg		EMERGENCY TELEPHONE: 716-876-8300 (24 HOURS)		81439072			
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 BRUCE R. WARNER		Signature <i>FOR FMC Bruce R. Warner</i>		Mo. Day Year 11 01 95			
17. Transporter 1 (Acknowledgement of Receipt of Materials)		Printed/Typed Name Tom Polley		Signature <i>Tom Polley</i>		Mo. Day Year 11 01 95			
18. Transporter 2 (Acknowledgement of Receipt of Materials)		Printed/Typed Name		Signature		Mo. Day Year			
19. Discrepancy Indication Space Actual Recd 11403 K									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.		Printed/Typed Name KATHA VUENEUW		Signature <i>Katha Vueneuw</i>		Mo. Day Year 11 01 95			

NY B 425320 2

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST

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

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

Please print or type. Do not Staple.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NY 0074033101950621		Manifest Document No. 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.	
3. Generator's Name and Mailing Address FMC CORPORATION P.O. BOX 845 BUFFALO, NY 14240-0845				A. State Manifest Document No. NY B508445 1					
4. Generator's Phone (716) 876-8300				B. Generator's ID TONNINER, NY 14101-7717					
5. Transporter 1 (Company Name) HAZMAT ENVIRONMENTAL GROUP				6. US EPA ID Number NY 0980769947		C. State Transporter's ID 110195			
7. Transporter 2 (Company Name)				8. US EPA ID Number		D. Transporter's Phone (716) 876-8300			
9. Designated Facility Name and Site Address CNN CHEMICAL SERVICES, INC. 1350 BALMAIN ROAD MODEL CITY, NY 14107				10. US EPA ID Number NY 0049836679		E. State Transporter's ID			
						F. Transporter's Phone ()			
						G. State Facility's ID			
						H. Facility's Phone (716) 734-8221			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers		13. Total Quantity		14. Unit	
a. 80, POLYCHLORINATED BIPHENYLS, MIXTURE, 9, UN 2315, PG III				No. Type 001 CH		ESTIMATE 10324		Wt/Vol K	
								I. Waste No. EPA STATE 0007	
b.								EPA STATE	
c.								EPA STATE	
d.								EPA STATE	
J. Additional Descriptions for Materials listed Above				K. Handling Codes for Wastes Listed Above					
a.				b		c		d	
b.				c		d		e	
15. Special Handling Instructions and Additional Information CNN CODE: BL 1357 OUT OF SERVICE DATE: 10/20/95 S.N.# 257412-2				ESTIMATED WEIGHT: 10524 kg EMERGENCY TELEPHONE: 716-876-8300 (24 HOURS) 81137073					
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.				Signature FOR FMC BRUCE R. WARNER Mo. Day Year 11/01/95					
17. Transporter 1 (Acknowledgement of Receipt of Materials)				Signature Eugene Malentyndovitz Mo. Day Year 11/01/95					
18. Transporter 2 (Acknowledgement of Receipt of Materials)				Signature John Vul Mo. Day Year 11/01/95					
19. Discrepancy Indication Space Actual rec'd 10324K									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.				Signature John Vul Mo. Day Year 11/01/95					

NY B 508445 1

HAZARDOUS WASTE MANIFEST

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

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NY 0074033101850631		Manifest Document No. 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal Law.	
3. Generator's Name and Mailing Address FMC CORPORATION P.O. BOX 845 BUFFALO, NY 14240-0845		4. Generator's Phone (716) 876-8300		5. Transporter 1 (Company Name) HAZMAT ENVIRONMENTAL GROUP		6. US EPA ID Number NY 00889769847		7. Transporter 2 (Company Name)	
9. Designated Facility Name and Site Address CMC CHEMICAL SERVICES, INC. 1500 BALMER ROAD MODEL CITY, NY 14107		10. US EPA ID Number NY 0048836679		11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) a. NO. POLYCHLORINATED BIPHENYLS, MIXTURE, 9, UN 2315, PG III		12. Containers No. Type 001 CM		13. Total Quantity ESTIMATE 17125 K	
14. Additional Descriptions for Materials listed Above a. b. c. d.		15. Special Handling Instructions and Additional Information CMC CODE: BL 1357 OUT OF SERVICE DATE: 10/20/95 S.R.# 257412-3		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.		17. Transporter 1 (Acknowledgement of Receipt of Materials) Printed/Typed Name Signature Mo. Day Year		18. Transporter 2 (Acknowledgement or Receipt of Materials) Printed/Typed Name Signature Mo. Day Year	
19. Discrepancy Indication Space actual weight 16946 K		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		21. Facility's Name and Address Signature Mo. Day Year		22. Facility's Phone Signature Mo. Day Year		23. Facility's EPA ID Number Signature Mo. Day Year	

NY B 508445 5

APPENDIX G

DOCUMENTATION ON SOURCES OF BACKFILL MATERIAL

REMEDIAL MEASURES

October 4, 1995



Rich Wise
FMC

Dear Rich:

The on site clay was brought from an excavation of a pond at 2625 Bedell Road on Grand Island. It was also brought from a stockpile at IWSS 201 Ganson Street yard. Clay was excavated from virgin ground of clean property.

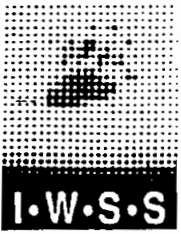
If you have any questions, please do not hesitate to call me.

Sincerely,
Bhaves h Kamdar

T.E.M.

INTEGRATED WASTE SPECIAL SERVICES, INC.

201 Ganson Street • Buffalo, NY 14203 • (716) 852-2345 • FAX (716) 852-1757
Offices In: Rochester, New York, Chicago, Detroit, Philadelphia, Binghamton, Albany, Pittsburgh, Houston



October 11, 1995

Rich Wise
FMC

Mr. Wise:

This letter is in regards to the information requested as to the origins of the clay from Ganson Street. The clay in question originated from a new building foundation at Roswell Park in downtown Buffalo.

If you have any further questions, please feel free to call me.

Bhargesh Kamdar/mks

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