Feasibility Study Report

Fairchild Republic Aircraft: Old Sump

Route 110 (Broadway)
Village of East Farmingdale
Town of Babylon
Suffolk County, New York

NYSDEC Site Number: 152004

Prepared by:

NYSDEC

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Executive Summary

This Feasibility Study (FS) is being submitted to address remedial options at the Fairchild Republic Aircraft site which was recently placed on the Registry as a Class 2 site due to unintentional consequences from implementing a remedy after a 1995 remedial investigation. This FS Report has been prepared by the New York State Department of Environmental Conservation (NYSDEC) to identify a remedial alternative to address soil contamination found in a June-July 2014 remedial investigation performed by Environmental Assessment and Remediation Inc. with NYSDEC oversight. Figure 1 in Appendix A shows the location of the site.

Three major Remedial Investigations have been conducted throughout the lifespan of this site. At the time of the first investigation in 1995, the site was still an open recharge basin. Following the 1995 site investigation, the basin was filled in which caused an upwelling of contaminated sediment to the surface of the now-filled-in basin where contamination still remains. Another investigation was conducted in 2002 which found PCBs and levels of chromium significantly in exceedance of standards, criteria, and guidance (SCGs).

The latest remedial investigation sampled soil at 76 locations and groundwater at 6 locations. This investigation detected PCBs, chromium, and semi-volatile organic compounds (SVOCs) at levels in exceedance of SCGs.

The objectives of this FS were to identify, develop, and evaluate different remedial alternatives to effectively achieve the site-related Remedial Action Objectives (RAOs). The following alternatives were developed for the remediation of site soils:

Alternative 1: No Action

- No remedial action

Alternative 2: Full Excavation and Removal of Contaminated Soils

- Full excavation of site soils down to 32 feet and disposal at appropriate facility
- Requires extensive shoring and clean fill imported to the site
- No need for Environmental Easement or Site Management Plan

Alternative 3: Installation of a Surface Cap/Cover

- Addition of 1 foot of soil cover or parking lots/basements/foundations to encapsulate contaminated site soils
- Requires Environmental Easement and Site Management Plan

The main difference with all of these alternatives is cost and time to implement. Besides No Action, the other alternatives effectively achieve the RAOs by protecting human health and the environment, but differ greatly in cost. The Full Excavation alternative would also take

considerably more time, be significantly more disruptive to the community, but be just as effective as a surface cap. Alternative 3, a surface cap, is the recommended alternative because it is the quickest and most inexpensive remedy which will still protect public health and the environment.

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1. Introduction

This Feasibility Study (FS) is being submitted to address remedial alternatives at the Fairchild Republic Aircraft site which was recently placed on the Registry as a Class 2 site due to unintentional consequences from implementing a remedy after a 1995 remedial investigation. This FS Report has been prepared by The New York State Department of Environmental Conservation (NYSDEC) to identify a remedial alternative to address soil contamination found in a June-July 2014 remedial investigation performed by Environmental Assessment and Remediation Inc. with NYSDEC oversight. Figure 1 in Appendix A shows the location of the site.

1.1 Purpose of Feasibility Study

This FS Report compiles remedial technologies and remedial investigative results to develop different remedial alternatives to protect human health and the environment. Technologies for each remedial alternative were identified and evaluated for their effectiveness, technical feasibility, and sufficient protection of human health and the environment. The screening of these remedial alternatives was based on two EPA Guidance documents: "A Guide on Remedial Actions at Superfund Sites with PCB Contamination, August 1990" and "Presumptive Remedy for Metals-in-Soil Sites, September 1999." The screening of remedial alternatives was also based on "DER-10, Technical Guidance for Site Investigation and Remediation", a NYSDEC Program Policy guidance document.

The FS goes through a stringent evaluation by considering how all alternatives would affect public health and the environment. The FS includes a specific evaluation and considered the following: Protection of Human Health and the Environment, Remedy Selection with comparison to Standards, Criteria, and Guidance (SCGs), the Long Term effectiveness and permanence of the remedial alternative, the short term effectiveness and permanence of the remedial alternative, implementability of each remedy, cost effectiveness of the remedy, and how the remedy will affect future land use. Future development plans for commercial use were taken into consideration during the evaluation of these remedies. State and community acceptance of the results of this FS Report will also be taken into consideration prior to the development of the Record of Decision (ROD) by the NYSDEC.

2. Site Description and History

2.1 Site Location

The Fairchild Republic Old Sump (AKA: Old Recharge Basin) Site is located near the intersection of State Route 110 (Broad Hollow Road) and Conklin Street in East Farmingdale, Suffolk County. Across Route 110 is the Airport Plaza shopping center – site of the former Fairchild Republic Main Plant Site (MPS), and Republic Airport (see Appendix A, Figure 2).

Vacant property and Conklin Street lie to the north, State Route 110 to the east, East Carmens Road to the west, and industrial and commercial buildings to the south. A chain link fence

completely surrounds the former Old Sump property along with a contiguous 6 acre parcel of vacant land to the north.

2.2 Site History

The Old Sump is the site of a former sand mining operation that was later converted to a stormwater recharge basin and wastewater/cooling water repository as shown on Figure 3 of Appendix A. The basin was used by NYSDOT to collect storm water runoff, and by Fairchild Republic for runoff and disposal of up to 2 million gallons per day of non-contact cooling water and treated waste water from the Fairchild Main Plant Site (Site No. 152130). Fairchild stopped discharging to the basin in 1983 when it constructed a new recharge basin on the east side of Route 110. The MPS produced sludge from metal precipitation alodining, anodizing, chemical milling and wash water from paint spray booths.

The site was first listed on the Registry of Inactive Hazardous Waste Disposal Sites (Registry) as Class 2 in August 1989. A Remedial Investigation (RI), completed on the site in 1995, found that basin bottom sediments contained elevated levels of total chromium, polynuclear aromatic hydrocarbons (PAHs) and polychlorinated biphenyls (PCBs). In light of the fact that the site was not found to be impacting groundwater, the Record of Decision in 1996 did not require active remediation and instead selected fencing of the property and institutional controls as the remedy to prevent potential exposure to the bottom sediments. In 1997, DEC executed an Order on Consent with Fairchild, allowing Fairchild to fill in the recharge basin with acceptable alternative grading material and soils from demolition of their Main Plant Site. The site was delisted with the expectation that filling the basin would result in the contamination being encapsulated approximately 30 feet below grade. This, however, did not happen. The basin was not dewatered prior to filling, and the denser fill material and concrete debris displaced the contaminated bottom sediments, resulting in an upwelling of PCB and metals contamination to the surface and shallow subsurface soils. The filling, completed in 1998, was problematic and created new concerns of potential exposure to contamination. Ultimately, the implemented remedy was deemed insufficient and not meeting remediation goals, and the site was relisted on the Registry in April 2010 after negotiations with the property owner to mitigate the continued threat to public health and the environment failed.

The 13 acre site and 6 acre adjacent property have been under consideration for commercial/retail development for many years.

2.3 Site Features

The site is a 13 acre vacant sand lot. Areas of young trees and native vegetation have marginally taken hold since the basin was filled and graded in 1997-98. An historical image of the site can be seen in Appendix A, Figure 3. Large piles of soil and concrete debris from the former MPS demolition, along with approximately 25,000 cubic yards of petroleum contaminated soil, once approved for onsite use as asphalt sub-base material, are stockpiled on the site. The northern portion of the site lies in the runway protection zone of the Republic Airport and building height in the zone is restricted by local ordinance.

2.4 Current Zoning and Land Use

The site is currently inactive, comprised of five tax parcels, and is zoned G- Industry (Light).

2.5 Past Use of the Site

As discussed above, the site was a former storm water recharge basin. The basin was used by NYSDOT and Fairchild Republic for storm water runoff. Fairchild Republic also used the basin to discharge up to 2 million gallons per day of non-contact cooling water and treated waste water from the Fairchild MPS. Discharge to the ORB stopped in 1983 with the construction of a new recharge basin on the east side of Route 110. The MPS produced sludge from metal precipitation alodining, anodizing, chemical milling, and wash water from spray paint booths.

2.6 Site Geology and Hydrogeology

Hydrogeology

The site is located in Long Island, which includes the following hydrogeologic units beneath the site in descending order: the Upper Glacial aquifer, the Magothy aquifer, the Raritan confining unit, and the Lloyd aquifer. The Raritan formation clay is considered the lower confining unit of the groundwater system within the Upper Glacial and Magothy aquifer systems, which are sometimes regarded as a single system due to good hydraulic interconnection.

Regional groundwater flows either north or south on Long Island. The Northern half of the Island experiences flow to the north, where the southern half groundwater flows to the south. There is also a strong vertical hydraulic gradient in the center of the island which changes to a more horizontal flow as distance increases from the center of Long Island. The groundwater ultimately discharges to streams and creeks, and then to the ocean.

The lower portion of the Upper Glacial aquifer is saturated beneath the site with a water table depth of 19 to 30 feet on the east side of the ORB and a depth of 11 to 14 feet on the west side of the ORB. The land surface on the west side of the ORB is about 10 feet lower in elevation than the east side.

Groundwater is estimated to flow south-southeasterly based on regional groundwater flow of the area.

Geology

The Upper Glacial deposits, the Magothy formation, and the Raritan formation are estimated to have a combined thickness of 1,300 feet beneath the site. The bedrock beneath the formations is uneven, slopes gently to the southeast, is Precambrian and/or Paleozoic, and is composed of schist and gneiss.

3. Remedial Investigation Summary

The following sections summarize each remedial investigation conducted at the Fairchild site including an overall summary of the nature and extent of contamination in section 3.3.

3.1 Previous Environmental Investigations

The Fairchild Republic Aircraft site has had three different remedial investigations, once in the early 1990's, in the early 2000's, and recently in June/July 2014.

3.1.1 Investigation - *Old Recharge Basin Final Remediation Investigation Report,* Eder Associates, dated September 1995

Eder stated in this report that there were five environmental investigations conducted prior to the 1995 RI which established a database on the physical and chemical characteristics of groundwater, surface water, surrounding surface soil, and sediments at the Old Recharge Basin (ORB) site. This RI and the Supplemental RI were conducted by Eder to further characterize the nature and extent of contamination in the area of the ORB. The supplemental RI work was implemented in response to NYSDEC's June 1993 request for additional data. The RI results are summarized below. Appendix B contains the data summary for the ORB's surface soil, sediment, surface water, and groundwater analytical data and lists the frequency of detection and average/maximum concentrations of each contaminant detected in the samples. The results are compared with historical standards, criteria, and guidance (SCGs) that were applicable when this investigation was conducted.

3.1.1.1 Surface Soil

During the 1992/1995 remedial investigation, surface soil samples were collected at three locations on-site (see Appendix B, Figure 6) at the request of NYSDEC and Nassau County Department of Health. The samples were collected from zero to six inches below grade, and the analytical data are contained in Tables 22 through 25 in Appendix B. VOCs were found at very low concentrations which the validator attributed to the blanks or to concentrations below the method detection limits. Polycyclic aromatic hydrocarbons (PAHs) and PCBs were found at concentrations above ambient levels at sample location ORB-1. Concentrations of arsenic, beryllium, cadmium, chromium, copper, iron, lead, mercury, nickel, and zinc exceeded NYSDEC-recommended soil cleanup levels (The Soil Chemistry of Hazardous Materials, Dragun, Jr., Ph.D., 1988 and NYSDEC Memorandum: Determination of Soil Cleanup Levels, November 16, 1992). Concentrations of copper, lead, mercury, silver and zinc exceeded ambient levels. All metals, except mercury, where concentrations exceed the ambient level, were regulated by SPDES permits.

Table 26 in Appendix B summarizes the additional analytical data collected during the Supplemental RI report in September 1993. PCBs were found in the ORB-4 soil sample at 0.16 parts per million (ppm) which is below the New York State Commercial Use Soil Cleanup Objectives (CUSCOs) of 1 ppm. PCBs were not found in the other soil samples. Since these soil

samples were taken 15 feet from ORB-1, where PCBs were previously found, the distribution of PCBs in surface soil did not appear to be extensive.

3.1.1.2 Groundwater

Two rounds of groundwater samples were collected during the RI from 11 new and 15 existing monitoring wells in the vicinity of the ORB. The monitoring well locations and data discussed below are from sampling events from December 1992 and February/March 1993. Please see Tables 15 through 20 and Figure 1 in Appendix B which summarize the data and well locations.

VOCs

Volatile Organic Compounds (VOCs) were detected above groundwater standards, consisting primarily of 1,1,1-Trichloroethane (1,1,1-TCA), 1,1-Dichoroethene (1,l -DCE), 1,l-Dichloroethane (1,1-DCA), 1,2-Dichloroethene (1,2-DCE), Trichloroethylene (TCE), Tetrachloroethylene (PCE), and Acetone. The highest concentration was from 1,1,1-TCA with a range of 548 parts per billion (ppb) to 585 ppb. All the additional detected VOCs ranged from concentrations of 5 to 52 ppb. Eder stated that there were known or suspected sources of chlorinated solvent contamination up-gradient to the Fairchild site which are currently under investigation by the NYSDEC.

Semi Volatile Compounds

All semi volatile compounds found in groundwater were reported below the method quantification limit at estimated concentrations.

Metals

Tables 18 and 19 in Appendix B present the analytical results for the total and dissolved metals. Iron, manganese, and sodium concentrations in groundwater samples that Eder collected from the monitoring wells exceeded NYS groundwater standards, but were similar to regional levels of these contaminants. Total chromium and lead concentrations were found to exceed NYS groundwater standards at well clusters 6, 10, and well MW-12S, but Eder attributed these exceedances to off-site sources near the western portion of the site. Dissolved chromium, lead, and arsenic levels were detected below NYS groundwater standards. Antimony and dissolved total antimony were both detected above groundwater standards (3 ppb) in 4 of 55 samples with dissolved concentrations varying between 20.6 ppb and 26.1 ppb.

PCBs and Pesticides

Marginal levels of pesticides, beta-benzene hexachloride (B-BHC), Dieldrin and 4,4'-DDD, were detected above groundwater standards specified as non-detect. Dieldrin, alpha and gamma chlordane were also detected marginally in exceedance of the groundwater standard of 0.1 ppb. Eder proposed that these exceedances were due to an off-site source due to the detection of these compounds downgradient and sidegradient to the site. The data summary of these concentrations and map of the well locations can be found on Table 17 and Figure 1 in Appendix B.

3.1.1.3 Surface Water

The surface water analytical results were compared to NYSDEC surface water and groundwater standards. The groundwater standards comparison is included because the ORB is not connected to any other surface water body and is not legally used for recreation or as a potable water supply. At the time of this investigation in 1992, the ORB was receiving water from precipitation and local surface runoff and was hydraulically connected to the groundwater. Tables 9 through 14 in Appendix B display the surface water quality results from the two sampling rounds in 1992 and 1993 and are compared with NYSDEC surface water and groundwater standards. All volatile organic compounds (VOCs), SVOCs, PCBs, and pesticides were found at concentrations below the NYS groundwater standards.

For metals, iron and manganese concentrations in the basin surface water exceeded NYS groundwater standards with maximum concentrations of 2,955 ppb and 1,948 ppb respectively which is in exceedance of the groundwater standard for iron and manganese (combined) of 500 ppb. Concentrations of dissolved iron in all samples were below NYS groundwater standards. The maximum concentration of dissolved manganese was 596 ppb at SW-4 with a standard of 300 ppb. Total antimony was found in 3 of the 12 first round samples above the NYS standard of 3 ppb at concentrations ranging from 21.4 ppb – 33.8 ppb (estimated). However, total antimony concentrations in the second sampling round were below the standard. In the first sampling round, total cobalt was detected at an estimated concentration of 11.1 ppb at SW-3, but below the standard of 5 ppb in the second round of sampling.

3.1.1.4 Basin Sediments

The basin was sampled in 16 locations for analysis of the sediment (Figure 4, Appendix B). Sediment samples including subsurface samples of native soil were collected and their results can be seen in Tables 5 – 9 of Appendix B. At the time of the RI, the North and South Ponds were separated by a land bridge which was thought to have restricted the migration of soil particles floating in the water between the ponds.

VOCs were detected in the South Pond at locations B-1 through B-8 except B-4 and B-5. B-1 indicated levels of 1,2-dichlorothene and tetrachloroethene at levels marginally in exceedance of groundwater standards. The samples collected in the North Pond, B-9 through B-16 had more VOCs detected than in the South Pond.

Higher concentrations of SVOCs and PCBs were also detected in the North Pond than the South Pond which was similar to the VOC results.

High metals concentrations relative to native soils were found in the sediment soils with Cyanide being detected in 23 of the 36 soil/sediment samples collected from the North and South Ponds. Despite the high detected metals concentrations, the metals were found to be in stable condition as indicated by EP toxicity tests.

3.1.1.5 Soil Vapor

No soil vapor sampling was conducted during the Eder Remedial Investigation, however there is a known off-site source of chlorinated volatile organic compounds north and up gradient of the site.

3.1.2 Investigation - *Bottom Sediment Investigation Report, MAC Consultants,* dated August 2002

MAC Consultants performed a remedial investigation after the implementation of the remedy which filled in the old recharge basin with fill from an adjacent site and caused an upwelling of PCB contaminated sediment to the surface. This investigation primarily focused on characterizing the subsurface soils with soil and soil vapor sampling. No groundwater sampling was conducted during this investigation.

3.1.2.1 Soil

Buried Chromium Soil

Soils containing elevated levels of chromium were buried beneath a berm along the western boundary of the site. Twenty-eight borings were drilled in the vicinity of the buried chromium soil to delineate locations and depths of total chromium in the soil. Three soil samples per boring were collected for laboratory analysis at the 0 – 4 foot, 4 – 8 foot, and 8 – 12 foot intervals. No samples collected at the 0 – 4 foot depth interval exceeded eastern USA background levels, while several samples collected at the other intervals exceeded background levels. Ten of the highest detected levels of chromium were tested for TCLP chromium and were all below the United States Environmental Protection Agency (USEPA) leachability standards.

Table 1 of Appendix C shows the data summary of the Chromium levels in the soil compared to Eastern USA background levels. Note that the NYSDEC CUSCO for hexavalent and trivalent chromium is 400 ppm and 1,500 ppm respectively. The unrestricted use soil cleanup objective (UUSCO) for hexavalent and trivalent chromium is 1 ppm and 30 ppm respectively.

Volatile Organic Compounds

MAC consultants collected 45 soil samples from the bottom sediment borings and analyzed them for VOCs. No VOCs were detected except for acetone, most often a common laboratory contaminant, at a maximum concentration of 0.023 ppm, below the UUSCO of 0.05 ppm. VOC results are shown in Table 3 in Appendix C.

Semi-Volatile Organic Compounds

MAC consultants also collected 45 soil samples from the bottom sediment borings and analyzed them for SVOCs. Thirty eight samples were detected and exceeded NYSDEC soil cleanup guidelines for one or more SVOC. The main compounds which exceeded NYSDEC soil cleanup guidelines were benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, and benzo(a)pyrene. These compounds are petroleum hydrocarbons most commonly found in asphalt

material, which was encountered in a majority of the borings. The presence and concentration of these compounds was consistent with soil samples collected by Eder Associates in October 1992 as well as the most recent 2014 investigation performed by Environmental Assessment & Remediation. SVOC results are shown in Table 4 of Appendix C.

PCBs

MAC consultants also collected 67 soil samples from the bottom sediment and subsurface soil and analyzed them for PCBs. PCBs were found in exceedance of CUSCOs in 33 samples with the highest detection at 260 ppm. The presence of PCBs in these soil samples can be associated with the buried bottom sediment material that was encountered in the area where bottom sediment had been buried. The PCB results are shown in Table 5 of Appendix C and compared with a past standard of 10 ppm. Please note that the current CUSCO is 1 ppm.

3.1.2.2 Soil vapor

A soil gas survey was performed to address the potential presence of volatile organic compounds (VOCs) in the soil gas. Soil gas wells were installed throughout the site and samples were collected at approximately 6 feet bgs. Thirteen air samples were collected from the soil gas survey locations (one in each grid). Tetrachloroethene was detected at 16.9 ug/m^3 in the northwestern portion of the site. Additional soil gas survey samples detected trace amounts of trichloroethene, tetrachloroethene, and 1,2,4-trimethylbenzene. The air analytical results are shown in Table 7 of Appendix C.

3.2 Areas of Concern – *Fairchild Old Sump Site, Broad Hollow Road, East Farmingdale, NY – June-July 2014 Remedial Investigation Summary Report,* Environmental Assessment & Remediation, Inc., dated October 29, 2014

This investigation was conducted from May through July 2014 by a NYSDEC contractor. The investigation called for soils to be investigated at 76 different locations at varying depths and the sampling/installation of 6 groundwater monitoring wells. The locations of these soil borings and groundwater monitoring locations can be seen on Figures 3 and 4 within Appendix D.

3.2.1 Polychlorinated Biphenyl (PCB) Contaminated Area

Soil sampling in the polychlorinated biphenyl (PCB) area was conducted from June 19th to the 25th and from June 27th through July 9th, using direct push drilling techniques at 43 locations pre-selected by NYSDEC. Samples were collected from 4 to 32 feet bgs. A total of 213 soil samples were analyzed for PCB's via EPA Method 8082A. Four randomly selected sample intervals (P-06 (28-32), P-08 (28-32), P-27 (28-32), and P-33 (28-32)) were also submitted for analysis of volatile organic compounds (VOCs), semi volatile organic compounds (SVOCs), metals, and pesticides/herbicides.

The soil sampling results indicated PCB concentrations in exceedance of unrestricted use soil cleanup objectives (UUSCOs) at 25 locations at depth intervals ranging from 4-8 feet bgs to 28-32 feet bgs. PCB concentrations were also found in exceedance of CUSCOs at 4 locations at

depth intervals ranging from 12 to 32 feet bgs. Chromium was also found in this area of concern at 2 locations, P-06 and P-08, in the 28-32 foot depth interval. Samples analyzed for VOCs, SVOCs, and pesticides did not exceed UUSCOs or CUSCOs. Please see Table 3 of Appendix D for the data summary of the PCB soil analytical results.

3.2.2 Beneficial Use Determination (BUD) Pile

Soil sampling in the BUD pile was conducted on June 26, 2014 using direct push drilling techniques, at three locations pre-selected by NYSDEC. Soil samples were collected continuously from approximately 4 feet bgs to approximately 22 feet bgs in an effort to identify the base of the pile and establish proposed sample collection intervals for potential remaining BUD boring locations. A total of 6 soil samples were collected and analyzed for VOC's, SVOC's, PCB's, Metals, and Pesticides.

The results of this sampling event indicated exceedances of UUSCOs in the 14-18 foot depth interval at locations BUD-01 and BUD-02 for 6 SVOCs: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, and chrysene. Benzo(a)pyrene and dibenzo(a,h)anthracene were also detected at the same location and depth interval in exceedance of CUSCOs. In this sample area, chromium, lead, and zinc were found at location BUD-01 (14-18 feet bgs) in exceedance of UUSCOs. The data summary for this sampling area can be found in Tables 8 through 12 of Appendix D.

3.2.3 Chromium Deposition Area

Soil sampling in the Chromium Deposition area was conducted on June 18 and July 15 at 12 locations (CR-1 through CR-12) pre-selected by NYSDEC. Soil sampling at CR-11 was conducted on June 18 in conjunction with the installation of MW-4. Samples were collected in 4-foot intervals from grade to 32 feet bgs. At each of the remaining Chromium Deposition area locations, two soil samples were collected: 1 sample from grade surface, and one sample from the shallow subsurface (0-1 foot bgs). A total of 25 soil samples were analyzed for Metals via EPA Methods 6010C and 7471B. Three randomly selected sample intervals (CR-05 (0-1), CR-10 (0-1), and CR-11 (24-29)) were also submitted for analysis of VOC's, SVOC's, PCB's, and pesticides/herbicides.

The sampling conducted in this area found levels of chromium, cadmium, lead, mercury, and silver in exceedance of UUSCOs in 10 locations as shown in Tables 13 through 17 in Appendix D.

3.2.4 General Evaluation of Site-Wide Soil Sampling

Soil sampling in the General Site Evaluation area was conducted on June 16th through the 17th and July 16th to the 17th at 18 locations (G-1 through G-18). Soil sampling at G-12 and G-17 was conducted on June 16-17 in conjunction with the installation of MW-1 & MW-2. Samples were gathered using direct-push drilling technology. Samples were collected in 4-foot intervals from grade to 32 feet BGS at G-12, and from grade to 52 feet BGS at G-17. At each of the remaining General Site Evaluation area locations, two soil samples were collected; 1 sample from grade

surface, and one sample from the shallow subsurface (0-1 foot bgs). Samples were collected using a stainless-steel hand auger. A total of 38 soil samples were analyzed for VOCs, SVOCs, PCBs, metals, and pesticides/herbicides (see Appendix D, Figure 5).

The investigation found concentrations of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene in exceedance of CUSCOs in the surface and shallow subsurface soils at 9 different locations (see Appendix D, Figure 6). SVOCs were also found in exceedance of UUSCOs at 10 locations in shallow-subsurface soils including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoanthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene. PCBs were also detected at three locations in exceedance of UUSCOs. Chromium, Copper, lead, mercury, silver, and zinc were also detected at multiple locations in the shallow subsurface in exceedance of UUSCOs. Please see Tables 18 through 22 in Appendix D for a data summary of the above results.

3.2.5 Groundwater Sampling Results

Sampling from the installed monitoring wells detected tetrachloroethene at a concentration of 6 ppb at MW-3 in exceedance of the TOGS 1.1.1 standard of 5 ppb. Concentrations of iron, manganese, and sodium were also detected in multiple wells in exceedance of TOGS 1.1.1, but these exceedances are consistent with regional background levels (see Appendix D, Figure 7).

3.3 Nature and Extent of Contamination

Groundwater

Four monitoring wells were installed in 2014 and sampled along with two previously existing wells. Groundwater was not found to be impacted by site-related contamination. However marginal impacts related to off-site sources were noted as follows; NYSDEC TOGS 1.1.1 groundwater standards were marginally exceeded for one volatile organic compound in one well along the up-gradient property line with tetrachloroethene (PCE) detected at 6 ppb versus the groundwater standard of 5 ppb. Several metals – iron, manganese and sodium also exceeded groundwater standards, however, the levels were consistent with regional conditions commonly found on Long Island and are not considered site related. Reported concentrations for SVOCs, PCBs, or pesticides did not exceed groundwater standards.

Soil

Contamination is widespread across the 13 acre site with the majority of the seventy six sample locations exceeding NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) for one or more of the following: PCBs(non-detect [ND] – 5.4 ppm); metals – lead (ND – 752 ppm), total chromium (ND – 205 ppm), cadmium (ND – 3.6 ppm), mercury (ND – 0.48 ppm) and silver (ND – 15.7 ppm), copper (ND – 58.7 ppm) and zinc (ND – 229 ppm); and seven SVOCs – benzo(a)anthracene (ND – 8.5 ppm), benzo(a)pyrene (ND – 7.9 ppm), benzo(b)fluoranthene (ND – 11 ppm), benzo(k)fluoranthene (ND – 3.9 ppm), chrysene (ND – 8.1 ppm), dibenzo(a,h)anthracene (ND – 0.93 ppm) and indeno(1,2,3-cd)pyrene (ND – 2.9 ppm).

Commercial use SCOs (CUSCOs) were exceeded for four SVOC's: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene. The exceedances occurred in surface and shallow subsurface soils at up to 11 locations. Total PCB concentrations exceeded CUSCOs at 4 locations (P-71, P-72, P-81, P-92) at depth intervals ranging from 12-32 feet bgs. Reported concentrations for VOCs, metals and pesticides did not exceed CUSCOs.

Industrial Use SCOs (IUSCOs) were exceeded for one SVOC: benzo(a)pyrene, at ten locations. The IUSCO and CUSCO values for benzo(a)pyrene are nearly identical – 1.1 ppm vs. 1 ppm, respectively.

Solid waste, in the form of hundreds of waste automobile tires and signs of illegal dumping-construction debris, wood, insulation, numerous hot tubs, etc., was noted onsite during the investigation. Large piles of concrete nuggets and iron rebar, presumably leftover from demolition of the Main Plant Site were also observed onsite.

The RI findings are consistent with previous investigations and, the areas of concern (AOC) resulting from basin filling operations and post-filling activities (1997-99) were found to have not substantially exacerbated the risk of human exposure to contamination, as previously believed.

PCB Contamination

Contaminated bottom sediments, displaced during basin filling operations, created an area of surface and shallow subsurface contamination known, because of its areal shape, as the "glove area" or "cow's udder." The 2002 MAC Consultants report documented PCB contamination as high as 370 ppm. The 2014 RI focused forty three soil borings in this area, collecting 213 samples from five depth intervals. While PCBs were detected at most locations, and 63 samples exceeded UUSCOs, only five samples exceeded CUSCOs – the high being 5.4 ppm of PCBs.

Chromium Deposition Area

An area of chromium impacted soil lies along the western site boundary. The soils were emplaced during basin filling operations (1997-98) and originated from the demolition of the Fairchild Main Plant site (Site No. 152130), across Rt. 110. The 1997 Order on Consent dictated that chromium contamination in the emplaced soil could not exceed 40 ppm. The order further dictated that the deposition area will be delineated and deed restricted to protect against future digging. The 2014 RI documented chromium above 40 ppm in three samples (41.9 ppm, 80.6 ppm and 205 ppm) in the deposition area, while a 2002 MAC Consultants report documented chromium levels above 40 ppm in fourteen samples, with a high of 1,210 ppm in one sample. While the documented chromium contamination in the deposition area does not exceed CUSCOs, future excavation in this area may uncover higher levels of contamination.

BUD Pile

In 1999, approximately 25,000 cubic yards of petroleum contaminated soil was stockpiled on the site. NYSDEC issued a Beneficial Use Determination (BUD) permit approving its anticipated

onsite use as parking lot and road way sub-base material. The BUD material remains onsite, in violation of the now expired permits. Sampling in 2014 documented that the BUD material contains the four aforementioned SVOCs at levels exceeding commercial use soil cleanup objectives, and benzo(a)pyrene exceeding its Industrial Use SCO. The material will require re-evaluation for suitability and another BUD permit before it can be used on site as sub-base, or it must be disposed of offsite at a permitted landfill.

4. Exposure Assessment

Soil, groundwater, and soil vapor are different mediums which contaminants can reside and travel to affect human health and the environment. The potential for contamination to affect people in these different mediums is discussed below and this exposure assessment is based on the investigation conducted by Environmental Assessment & Remediation.

4.1 Contaminants of Concern

Soil

The specific contaminants of concern in the soil are SVOCs and PCBs in exceedance of commercial use soil cleanup objectives. Based on the current zoning of the site and intended future development, soils with contaminants in exceedance of CUSCOs are of concern. The source of the SVOC contamination on the site is most likely from the fill used to fill in the old recharge basin and from the stockpiling of BUD material. The source of PCBs in the soil is likely from the historical plant operations when the basin was used to discharge the plant's wastewater. The plant produced sludge from metal precipitation alodining, anodizing, chemical milling and wash water from paint spray booths. There were no detections of free product in site soils.

Groundwater

Tetrachloroethene was detected marginally in exceedance of groundwater standards in one groundwater well in the North West area of the site. This detection is attributed to an upgradient, off-site source north of the site currently under investigation. There has been no free product found in any of the groundwater monitoring wells on-site.

Soil Vapor

There has not been a recent soil gas sampling event due to the non-existence of any substantial contamination in the groundwater. The marginal levels of tetrachloroethene detected in one well would not warrant a soil gas sampling event. However, it is recommended that an indoor air and sub slab evaluation be conducted for any future structures occupying the site.

4.2 Potential Receptors

On site

The on-site soil contamination could potentially harm any human or animal that ingests contaminated surface soils. Currently, the site is fenced in which significantly decreases the likelihood of anyone gaining access to the property. Also, due to how commercialized the surrounding area is, the likelihood of wildlife gaining access to the site and ingesting contaminated soils is low.

Off site

The SVOCs and PCBs present in site soils are very immobile compounds not likely to migrate throughout the site or off site. An off-site concern with these types of contaminants could be during construction of the remedy or development which would involve off-site transport of contaminated soils.

4.3 Exposure Pathways

The marginal groundwater contamination discussed above is not site related, and site related contamination has not impacted the groundwater. Drinking water is supplied by the Suffolk County Water Authority (SCWA) and private groundwater wells are not used for drinking water in this area of Long Island. Due to known off-site groundwater contamination, a soil vapor evaluation is recommended for any future buildings constructed at the site. The site specific contamination is from soils with levels of SVOCs and PCBs in exceedance of CUSCOs and is the medium of concern for contaminant transport.

The SVOCs and PCBs were found in site soils and considered to be immobile in the soil medium and not prone to migrate off-site. Ingestion from on-site contact is the most likely route of exposure with potential dermal contact and transferring the contaminants to the face, eyes, and mouth.

There is very little potential for the contamination to migrate to another location. However, the construction of a remedy and/or the development of the site could potentially result in contamination migrating from the site due to inadequate sealing of trucks carrying contaminated soils off-site. The contaminated soils could be deposited in roadways, kicked up as dust, and ingested. Great care must be taken when any contaminated soil is taken off-site.

4.4 Contaminant Concentrations at Each Exposure Point

The SVOC contaminant of concern, benzo(a)pyrene, is the only contaminant in exceedance of the CUSCO, 1 ppm, with the highest concentration detected at 7.9 ppm. While this contaminant was detected at nearly 8 times the CUSCO, it is very immobile. Benzo(a)pyrene is produced from coal tar or during combustion of wood and other organic matter. The risks associated with this compound are inhalation during combustion, but due to the immobility of this compound in the on-site soils, inhalation is unlikely.

PCBs are present on site at 4 locations in exceedance of the CUSCO of 1 ppm at levels ranging from 1.0 – 5.4 ppm. PCBs were used as a dielectric fluid for capacitors since the late 1920's and banned in the 1970's due to their toxicity and ability to bio accumulate in the food chain. The latest investigation revealed PCBs marginally in exceedance of CUSCOs at 4 locations, but no concentrations were found in exceedance of IUSCOs (25 ppm). These low concentrations, while a concern, were found between 12 and 32 feet below ground and are not an immediate health threat as they are not likely to migrate within the site or off-site.

5. Remedial Action Objectives

The Remedial Action Objectives (RAOs) are specific objectives for the protection of public health and the environment for areas of concern within the Fairchild Old Recharge Basin. The RAOs are developed based on the remedy on contaminant-specific Standards, Criteria, and Guidance (SCGs) to quantify and address contamination at the site. In addition to selecting the remedy based on SCGs, the intended future use, the environmental media (soil/water/vapor), and the potential human health and environmental exposures are also taken into consideration. The RAOs are as follows:

Soil

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

5.1 Remedial goals compared with Standards, Criteria, and Guidance

Additional goals of the remedial program are to meet specific standards, criteria, and guidance (SCGs) so that the remedy will be protective of human health and the environment. Since the site is currently zoned for commercial use and future use is also intended for commercial, the goal of the remedial program will be to achieve soil levels below the commercial use soil cleanup objectives (CUSCOs). There is no groundwater contamination resulting from contaminants in the site soils. Soil Vapor was not investigated during the most recent investigation. However, due to off-site sources, indoor air and sub slab vapor sampling should be conducted within any future building occupying the site to ensure the protection of public health.

Based on the detected contamination at the site, the specific goals are to eliminate any potential human exposure to surface soils and avoid any future exposure to subsurface soils during potential development of the site. The next section discusses different remedial alternatives by

comparing their effectiveness at protecting human health and the environment, and determining how difficult it would be to implement the discussed remedy.

6. Development and Evaluation of Alternatives

This section discusses what is involved with each alternative with a description on how the contamination will be effectively contained or treated. All alternatives are evaluated by also considering the cost and implementability of each treatment option.

6.1 Development of Alternatives

The following three (3) alternatives have been selected as potential remedies at the site. Each alternative has a different level of effectiveness at remediating the contaminated soil as defined by the remedial action objectives for the site. Implementing each of these alternatives also varies with different levels of difficulty and cost.

Alternative 1: No action

The No Action alternative would involve leaving the site as it is and not cleaning up the contaminants present in soils. The contamination would be left at the surface of the site with the potential for human exposure to SVOCs a concern. This alternative is provided as a baseline to compare with the other alternatives.

Alternative 2: Full Excavation

The Full Excavation alternative would involve the excavation of all on site soils to a depth of 32 feet. Confirmatory endpoint sampling will be required to ensure all of the contaminated sediment has been removed from the site. Shoring and sheeting will have to be used to avoid disturbing off site property and buildings. The full excavation of contaminated sediments will require the excavated material be taken to an appropriate disposal location and be transported in sealed trucks to avoid transport of the contaminated sediments in the form of dust. Clean fill from a source approved by NYSDEC will then have to be placed in the excavated hole. This alternative would achieve the greatest level of remediation, but is the highest cost. This option could also create a disturbance to the local community with the addition of trucks transporting contaminated fill off site and clean fill on site.

Alternative 3: Surface Cover

The third alternative is the installation of a surface cover, which will allow for commercial use of the site. The cover will consist either of structures such as buildings, pavement and sidewalks comprising the site development, or a cover of clean soil in areas where the upper one foot of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). Existing site soils may be re-graded on site to match up with the adjoining lots prior to applying the clean cover soil. If soil from the site needs to be removed for any reason, this material will have to be analyzed for contamination, transported in sealed containers, and taken to a NYSDEC permitted disposal facility.

As development of the site is planned, the surface cap may consist of a combination of building foundations and slabs, paved parking lots and roadways, and/or a soil cover with 1 foot of clean fill in any areas not being paved.

The surface cover will eliminate any potential exposure to PCB/SVOC/metals contaminated soils by encapsulating the contaminated soils beneath the cover. Since this alternative leaves contaminated soil onsite, an environmental easement will be required which restricts the use and development of the site for commercial and industrial uses only. A site management plan (SMP) is required which identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the institutional and/or engineering controls remain in place and effective.

The cost of this alternative would depend on the intent to develop the site. If development is desired, the cost associated with capping would be included in the construction of buildings, parking lots, or grassy areas. If development is not desired, importing 1 foot of clean fill to cover the site would cost much less than removing the contaminated fill and replacing it with clean material.

6.2 Evaluation of Alternatives

Alternative 1: No Action

The No Action alternative is being evaluated to provide a baseline example to compare with the other alternatives. This alternative would not require any work or monitoring and would leave the PCBs, SVOCs, and metals on-site. The remedial action objectives would not be met for the site with this remedy since contaminants in exccedance of CUSCOs would be left at the site.

Effectiveness

This alternative would not be effective at removing the contaminated soil from the site, since nothing would be implemented. The potential for human health exposure to contaminated soil would remain on site.

Implementability

This remedy would be the easiest to implement since nothing would have to be done. This remedy would also not cost anything to implement.

Alternative 2: Full Excavation

The Full Excavation alternative is being evaluated to provide an example of the only way to fully remediate the site. This alternative would not require a Site Management Plan or Environmental Easement to maintain a surface cap nor restrict future excavation, as the site wide contamination will be removed. The clean fill brought to the site would also be required to meet unrestricted use soil cleanup objectives (UUSCOs).

Effectiveness

This remedy would fully remediate the site since all site soils down to a depth of 32 feet would be removed.

Implementability

The removal of soil from the 13 acre site down to a depth of 32 feet is likely not possible. Of the 3 alternatives, it is the hardest to implement. The water table begins at 20 feet BGS, and extensive sheeting and shoring would be required to get below the 32 foot depth including the use of a large excavator to remove the deepest fill. The removal of roughly 670,000 cubic yards of fill would be extremely expensive when compared with the other alternatives. Precautions would also need to be taken when transporting this large quantity of material off-site to prevent any impacts to public health and the environment within the surrounding communities near the truck transportation route.

Alternative 3: Surface Cover

The Surface Cover alternative is being evaluated to provide a more cost effective remedy for the site. This alternative would not require any material to be removed from the site and only require 1 foot of fill to be added on top of the contaminated soil and sediments. This alternative would also require an Environmental Easement and approved Site Management Plan to restrict future excavation and maintain the Surface Cap.

Effectiveness

This alternative would effectively contain all contaminated soil and sediments and prevent exposure of surface soils to human contact. Due to the immobility of the site-related contamination, it would be effectively contained on site as long as the integrity of the cover is maintained and future excavation is restricted.

Implementability

This alternative is highly implementable in comparison to Alternative 2 since there is no need for off-site disposal of large amounts of contaminated fill or the excavation of 670,000 cubic yards of soil. This will greatly reduce costs and potential exposure to surrounding communities from trucking contaminated soil off-site.

6.3 Summary of Evaluation

The above remedial alternatives were retained for further consideration and are based on the above evaluation process. The alternatives are summarized below highlighting each of their main attributes and are further evaluated in the Individual Comparison of Alternatives (Section 7).

Alternative 1: No Action

- No remedial action

Alternative 2: Full Excavation

- Complete removal of contaminated soils to a depth of 32 feet
- Requires extensive shoring, hazardous waste disposal, and incoming clean fill

Alternative 3: Surface Cover

- A surface cover, in the form of buildings, sidewalks and paved parking lots and roadways
- 1 foot soil/clean fill cover over all areas of exposed soil
- May require removal of some fill if property is developed
- Deed Restriction and Site Management Plan required to restrict excavation and maintain surface cap

7. Individual Analysis of Alternatives

The remedial alternatives were summarized in the previous sections of this FS, but a more thorough evaluation is presented in the following sections. The evaluation in the following sections considers how each alternative will protect the public health and the environment, how effective each alternative will be, compares cost, community acceptance, and several other parameters.

7.1 Evaluation Criteria

The remedial alternatives for the site represent different ways to treat contaminated site soils meant to satisfy the remedial goals for the site. It is likely that the selected alternative will be modified based on the proposed development for the site, however it is important that any revisions to the remedy will offer the same protection of human health and the environment and meet the remedial goals. As discussed in the above section, a more thorough evaluation of each alternative is presented below while taking into consideration the following criteria.

Overall Protectiveness of the Public Health and the Environment

This section compares the ability of each alternative to protect human health and the environment. Each alternative was evaluated based on its ability to eliminate or reduce existing or potential human exposures or environmental impacts through removal, treatment, institutional and engineering controls. This section also draws upon the assessments made with other evaluation criteria such as long and short term effectiveness and permanence, and compliance with SCGs. The ability of each alternative to achieve each of the RAOs is also evaluated in this section.

Compliance with Standards, Criteria, and Guidance (SCGs)

This section compares how each alternative will conform with standards, criteria, and guidance which are applicable or relevant to the site. The SCGs for the site are identified including a discussion describing whether or not the remedy will achieve compliance. For any SCGs which will not be met in the selected remedy, an explanation is provided explaining what controls are in place to achieve compliance.

Long Term Effectiveness and Permanence

This section compares each alternative's long term effectiveness and permanence after it is implemented. Each alternative is evaluated based on any impacts associated with remaining on-site or off-site contamination and how it affects human exposure, ecological receptors, or impacts to the environment. The evaluation of each remedy's institutional controls is also considered in this section.

Reduction of Toxicity, mobility or volume of contamination through treatment

This section evaluates each alternatives' ability to reduce the toxicity, mobility and volume of site contamination.

Short Term Impact and Effectiveness

This section evaluates how each selected remedy will impact human health and the environment during the implementation and construction of the remedy. Potential impacts such as increased odors, vapors, noise, truck traffic, etc. will be evaluated for each alternative with the inclusion of ways to control these potential short term impacts.

Implementability

Each alternative will be evaluated on the technical and administrative feasibility to be implemented. Technical feasibility includes difficulties associated with construction of a remedy and the ability to monitor its effectiveness in the long term. Administrative feasibility evaluates the availability of the necessary personnel or material, and assesses any potential difficulties in obtaining special permits for construction or site access. This section also compares each alternatives' reliability and viability of implementing institutional or engineering controls necessary for the remedy.

Cost Effectiveness

Each remedy is evaluated based on its proportion of cost to overall effectiveness. In this section, the capitol costs of each remedy is discussed including a determination on whether the selected remedy is cost effective in comparison to its effectiveness.

Land Use

This section evaluates each remedy in comparison with the current and anticipated future use of the site and its surroundings. Each alternative's current and intended use is evaluated based on the level of remediation achievable in comparison to soil cleanup objectives (SCOs). Land use will be determined by how well each alternative removes contamination concentrations at the site; less reduction in concentration will restrict the site to industrial or commercial uses, while greater reduction in concentrations could allow residential uses.

7.2 Alternative 1 – No Action

The no action alternative is provided in the FS to provide a baseline remedy to compare the other remedies to while also examining the threat to public health and the environment if no action was taken to remediate the site.

Overall Protectiveness of the Public Health and the Environment

Since nothing would be implemented to remediate the soil contamination with a "no action" remedy, this option would be the least effective at protecting human health and the environment as the PCBs and chromium contaminants would be left on-site. Potential human exposures or environmental impacts from contaminated surface soils would remain.

Compliance with Standards, Criteria, and Guidance (SCGs)

Without any implemented remedy, the PCB/chromium contaminated sediments from the ORB would remain on-site at concentrations in exceedance of commercial use soil cleanup objectives (CUSCOs). SVOCs in the surface would remain on site in exceedance of industrial use soil cleanup objectives (IUSCOs).

Long Term Effectiveness and Permanence

This alternative provides no long term effectiveness or permanence.

Reduction of Toxicity, mobility or volume of contamination through treatment

Since nothing will be done with this alternative, toxicity, mobility or volume of the contamination will not be reduced.

Short Term Impact and Effectiveness

There will be no implementation of a remedy with this alternative, so there will be no short term impacts to workers at this site.

Implementability

This alternative is the most easily implemented since there are no construction activities required for this alternative.

Cost Effectiveness

This alternative would not cost anything to implement.

Land Use

This alternative would leave SVOC contamination in exceedance of IUSCOs and CUSCOs, PCBs and metals in exceedance of CUSCOs and UUSCOs respectively. This would require a Site Management Plan and Environmental Easement to maintain the surface cap and to restrict future excavation. If future development of the site is desired, the Site Management plan will have to be updated to account for the new on-site structures serving as a surface cap while continuing the maintenance program of the surface cap.

7.3 Alternative 2 – Full Excavation and Removal of Contaminated Soils

The Full Excavation alternative is included in the FS to discuss what is entailed with fully remediating the site to unrestricted use and restore the site prior to its use a treated wastewater discharge basin. By excavating all of the site contaminated soils to the 32 foot depth of the basin, all contaminants of concern would be removed and there would be no need for long term monitoring or institutional controls. Site soils would be removed in sealed trucks to avoid any community air impacts or off site contaminant migration. Clean fill, from an approved source by NYSDEC, would be brought to the site and used to fill in the excavated soils. There would not be any need for an Environmental Easement or Site Management Plan for this remedy since all site soils would be restored to unrestricted use.

Overall Protectiveness of the Public Health and the Environment

The removal of all site soils to a depth of 32 feet would fully remediate the site since all contaminated soils would be removed. This alternative would eliminate any potential human health exposures or environmental impacts identified in the latest investigation. Each RAO would be met for this alternative.

Compliance with Standards, Criteria, and Guidance (SCGs)

This remedy would satisfy the least restrictive soil cleanup objective (unrestricted use) which would allow the site to be used for anything, provided it conforms with officially promulgated standards and criteria directly applicable to the property. All SCGs will be met for soil at the site with this remedy.

Long Term Effectiveness and Permanence

This alternative would be the most effective in the long term since there would be no more potential for human exposure or environmental impacts with the complete removal of contaminated material from the site. There would be no need for an Environmental Easement of Site Management Plan with this alternative.

Reduction of Toxicity, Mobility, or Volume of Contamination through Treatment

The implementation of this alternative would remove the entire volume of contamination at the site, and effectively eliminate the toxicity and mobility of site-related contamination.

Short Term Impact and Effectiveness

The implementation of this remedy would involve the removal of roughly 670,000 cubic yards of contaminated sediment and soils. The removal of this amount of material would entail approximately 34,000 dump truck loads, creating a significant increase in truck traffic near the site, with associated noise, dust and exhaust fumes. Potential release of airborne contaminants to the surrounding community in the form of dust from site excavation and trucking material from the site could be an issue. These problems can be controlled by implementing dust control measures throughout the site as well as having a thorough inspection program in place ensuring trucks leaving the site are sealed to prevent any off-site deposit of site-related contamination. The time required to excavate and remove 670,000 cubic yards of material is estimated to take 2-3 years, when considering travel distance, truck capacity, and the number of truckloads involved. The removal may also unnecessarily impact the environment by the large amount of fuel required to excavate and truck this large volume of contaminated soil. The same amount of fill removed from to the site will also have to be brought back to the site which is estimated to require approximately the same amount of time and fuel costs.

Implementability

The difficulties from implementing this remedy arise from the depth of this excavation. Extensive shoring and sheeting will need to be installed in order to get to a depth of 32 feet. Time is also a factor to consider since the removal and importation of 670,000 cubic yards of material could take over 2-3 years.

Cost Effectiveness

The full excavation of the site is the most effective way of removing site contamination, but due to the extreme costs associated with this alternative, there are more cost effective options which still satisfy the site specific RAOs. Please see Table 1 in Appendix E for a description of the costs associated with this alternative.

Land Use

Complete removal of contamination will result in no restrictions being placed on the future use of the site, aside from local zoning regulations.

7.4 Alternative 3 – Installation of a Surface Cover

The Surface Cover alternative is presented in this FS to provide a reasonably cost effective remedy which will meet the site-specific RAOs. Due to the immobility of the site contamination, a 1 foot soil cover or surface cap in the form of parking lots or building foundations would effectively encapsulate the PCBs, SVOCs, and metals in exceedance of SCGs.

Overall Protectiveness of the Public Health and the Environment

Due to the immobility of the present contaminants on-site, the installation of a surface cap would effectively eliminate potential exposure to public health or any environmental releases. The surface cap would encapsulate any on-site contamination, provided the cap remains undisturbed and excavation does not occur on the property. The inclusion of a Site Management Plan and Environmental Easement will be required to maintain the surface cap and restrict excavation on the site to ensure the continued protection of public health and the environment.

If development of the site is desired, special precautions will have to be taken so that any excavated fill is disposed at a NYSDEC approved location. Additionally, the surface cap remedy will have to remain on site in the form of building foundations, slabs, parking lots, and a 1- foot surface cap of clean soil in areas not proposed for development. To protect public health and the environment, a Site Management Plan will be required to detail all institutional and engineering controls placed on the site and the measures necessary to maintain their effectiveness and compliance with RAOs. Additional measures will also have to be put in place during construction including dust control measures, transport of contaminated soil in sealed containers, and an excavation plan to prevent exposure to on-site contamination.

Compliance with Standards, Criteria, and Guidance (SCGs)

This proposed remedy will effectively encapsulate PCBs, SVOCs, and metals contamination in exceedance of SCGs on-site. Due to the immobility of these compounds, a surface cap would prevent any off-site migration and public exposure of these contaminants. This remedy was also chosen based on Section 4.1(f)(2)(ii) of DER-10 (Technical Guidance for Site Investigation and Remediation) which states that a one (1) foot soil cover is required for any site contamination left on site in exceedance of CUSCOs provided there are no ecological resources in the area.

If development occurs at the site, special precautions will be required as indicated in the above section (Overall Protectiveness of the Public Health and the Environment) to maintain the effectiveness of a surface cap remedy.

Long Term Effectiveness and Permanence

The SVOC, PCB, and metals contamination that will remain on-site will be effectively contained by the 1 foot of soil cover and eliminate any public health exposure or impacts to the environment. The long term effectiveness of this remedy relies on the maintenance and non-disturbance of the soil cover. Also, a deed restriction will also ensure that any on-site development maintains the remedy in the form of building basements, foundations, or parking lots in addition to the soil cover to prevent public exposure and any environmental impacts. A Site Management Plan and Environmental Easement will be necessary for surface cap maintenance and excavation restrictions.

Reduction of Toxicity, Mobility, or Volume of Contamination through Treatment

The implementation of the surface cap will not reduce the volume of contamination at the site, however it will effectively encapsulate the on-site contamination and prevent any public exposure or environmental impacts due to the immobility of the on-site contaminants. With the installation of a surface cap, there will be no potential for the contaminants to leave the site and any exposure to contaminated surface soils will be eliminated.

Short Term Effectiveness and Permanence

The short term impacts identified with the construction of a surface cap include increased truck traffic, dusty conditions, and increased noise. Special precautions will have to be taken when bringing cover material to the site when trucks leave the site. If trucks are driving on top of the contaminated surface, there must be a truck wash for trucks leaving the site and effective dust control measures put in place to contain any potentially contaminated dust that could leave the site. Any short term noise impacts due to trucking will most likely be less noisy than the airport which neighbors the site. The implementation of this remedy is estimated to take 2 to 3 weeks based on the amount of trucks importing fill the site, the required amount of fill, and the time needed for grading the site.

Implementability

The surface cover alternative is the easiest of the alternatives to implement besides the No Action alternative. Constructing the soil cover poses no major technical difficulties except mobilizing equipment, containing any potential dust emissions, and availability of the necessary personnel and equipment. A Site Management Plan will be required to be put in place to ensure that the soil cover is maintained. An Environmental Easement will also be required to restrict any future excavation at the site.

If site development is desired, the removal of contaminated soils may be required for constructing building foundations and basements. Special care will be required to ensure that excavated soils are transported from the site in sealed containers to avoid airborne transport of site contaminants and that the removed soils are taken to an approved disposal facility approved by NYSDEC. After construction is completed, contaminants will remain on site beneath building foundations, parking lots, and/or a soil cover which will require an updated Environmental

Easement to restrict future excavation. Additionally, the Site Management Plan will have to be updated to maintain the parking lots, building foundations, or basements of the new Surface Cap.

Cost Effectiveness

The Surface Cap is the least expensive alternative besides the No Action alternative. This alternative effectively reduces the potential for public exposure and environmental impacts, however does not allow unrestricted use at the site and requires an Environmental Easement to restrict excavation at the site.

With a Site Management Plan and Environmental Easement in place in place, this remedy will effectively prevent any public health or environmental exposure to the contaminated sediments. Therefore, this remedy is very cost effective when compared with Alternative 2, since it is approximately 0.5% of the cost of a full excavation of the site. Please see Table 2 in Appendix E for details of the costs associated with this alternative.

Land Use

The site is currently unused and vacant land in a commercially zoned area. It is anticipated that this property will be developed and used for commercial purposes. The encapsulation of the contaminated sediments is easily achievable with a Surface Cap or installation of parking lots, building foundations, and a soil cover. Due to the immobility of the site contamination, there is no concern for the migration of contamination, provided the surface cap is maintained with a Site Management Plan and an Environmental Easement is put in place restricting future excavation or development.

8. Comparative Analysis of Alternatives

The following section compares and ranks each alternatives ability to meet the site specific RAOs for each specific evaluation criteria.

Overall Protectiveness of Public Health and the Environment

Alternative 1 would not do anything to protect public health and the environment, while Alternative's 2 and 3 would both prevent ingestion and direct contact with site soils. However, Alternative 2, Full Excavation, would be the most protective of public health and the environment because any excavation would not result in the uncovering of contaminated sediments. Alternative 2 would also eliminate any potential migration of contaminants that would result in groundwater or surface water contamination.

Standards Criteria and Guidance (SCGs)

Alternative 1 would not remediate the site below SCGs applicable to the site. Alternative 3 would also leave contaminants on site in exceedance of site specific SCGs (CUSCOs), however the contaminated sediments would be encapsulated under 1 foot of soil cover. Alternative 2, Full

Excavation, is the only remedy which would effectively remove all contaminants in exceedance of CUSCOs.

Long-Term Effectiveness and Permanence

Alternative 1 would leave PCBs, SVOCs, and metals on site within surface soils where they would remain for potential ingestion or direct contact by the public or migration to off-site environmental receptors. Alternative's 2 and 3 would have more long term effectiveness and permanence in that they would both prevent ingestion or direct contact with contaminated soil. However, the full excavation remedy discussed in Alternative 2 would have the best long term effectiveness and permanence because there would be no danger of anyone digging up contaminated soil since all site soils would be below UUSCOs.

Reduction of Toxicity, Mobility or Volume of Contamination through Treatment

Alternative 1 would not reduce the volume of contamination and is considered the least effective at reducing the toxicity or mobility of the contamination. Alternative 3, Surface cap, would not reduce the volume of contamination, but would effectively reduce the toxicity of the present surface soils. By encapsulating the contaminated sediments, mobility of the contamination would likely decrease, but these types of contaminants are not very mobile. Alternative 2, Full Excavation would eliminate all site contamination and is noted as the most effective at reducing the toxicity, mobility, and volume of site contamination.

Short-Term Impact and Effectiveness

Alternative 2, Full Excavation would result in all of the contaminated sediments being transferred off site and take the most time, create the most noise, and greatest potential for contaminants leaving the site during remedy construction. Alternative 3, Surface Cap, would result in very little material being required to be taken off site and the import of clean fill to the site. The surface cap alternative would increase noise at the site during construction of the remedy, but take much less time than Alternative 2 due to the significantly less amount of material removal and placement. The time to implement Alternative 2 and 3 also differs significantly. By assuming the same trucking size and travel distances for each remedy, the Full Excavation alternative will take approximately 1 year, while the Surface Cap would take 2 to 3 weeks. Note that this time estimate is based on the same truck amount and capacity used for each alternative and it is likely that the Full Excavation alternative would take a shorter amount of time with the addition of more trucks.

While the least effective alternative, No Action is rated as having the best short-term impact since none of the site soils will be disturbed so there won't be any potential for off-site migration of contamination or noise impacts to the surrounding community.

Implementability

Alternative 2, Full Excavation, is rated as the hardest to implement since it requires the excavation of almost 670,000 cubic yards of contaminated sediment, extensive shoring and sheeting during the excavation, and locating a suitable disposal location to take the contaminated sediments. Alternative 3, surface cover, can be more easily implemented since there is no need for extensive shoring and sheeting, and no need to dispose of large quantities of contaminated sediments. However, alternative 1, No Action is the easiest to implement because it does not require any action.

Cost Effectiveness

Alternative 2, Full Excavation, is much more expensive than the surface cover discussed in Alternative 3. Excavating approximately 670,000 cubic yards of material requires extensive shoring, trucking, and approved landfill space for contaminated sediment. Alternative 1, No Action, would not cost anything to implement, but by not implementing any remedy there is no effectiveness associated with its implementation and it is not effective at all. Therefore Alternative 3, the Surface Cover is the most Cost Effective Remedy since it has a significantly lower cost associated with it when compared to the Full Excavation and it effectively meets the site specific RAOs.

Please see Tables 1 and 2 in Appendix E for a comparison of the cost differential of the two alternatives.

9. Recommended Remedy

The detailed analysis in the above section indicates that Alternative 2 and 3 are both protective of public health and the environment. Both alternatives meet the following remedial action objectives:

Soil

<u>RAOs for Public Health Protection</u>

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil.

<u>RAOs for Environmental Protection</u>

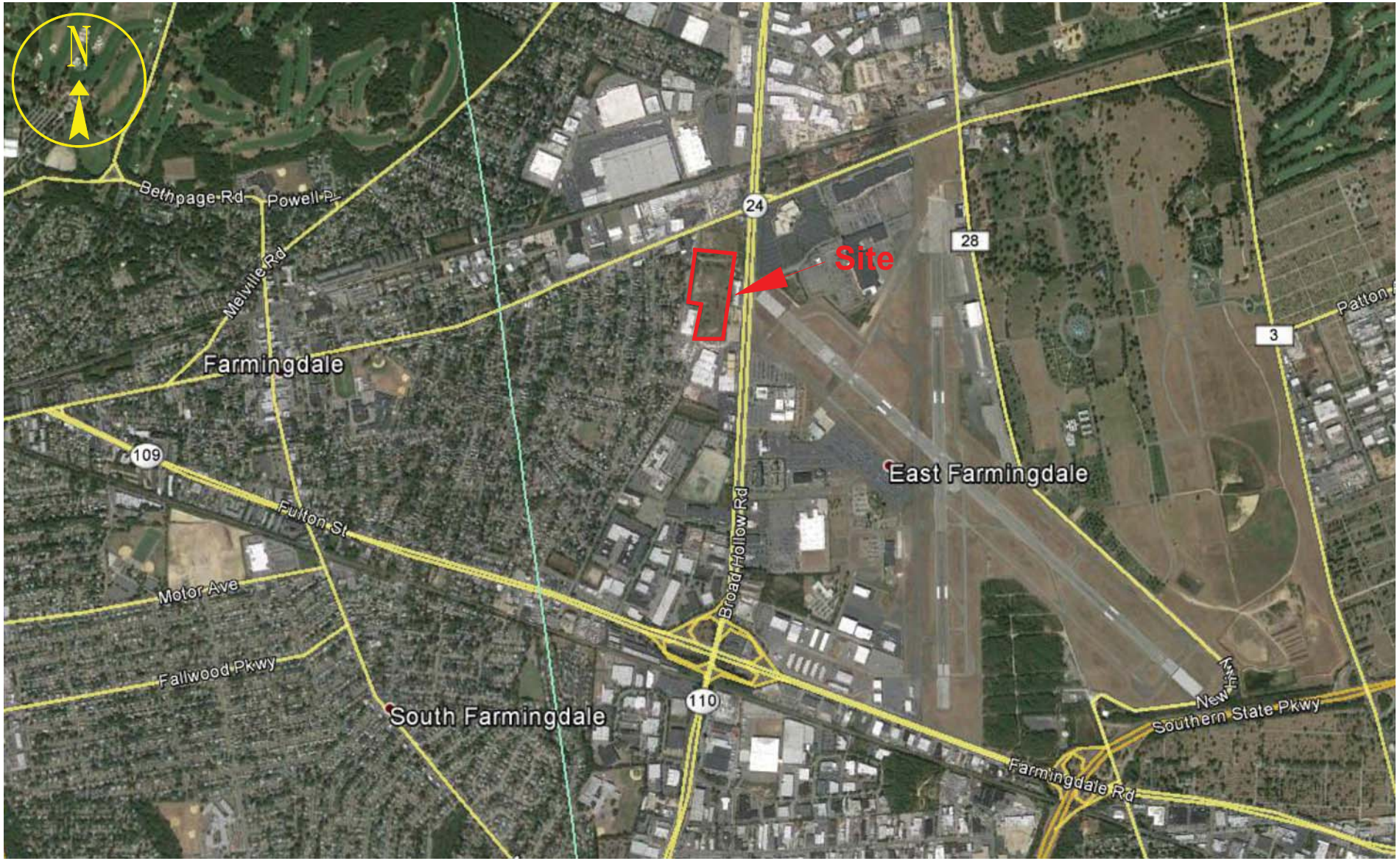
- Prevent migration of contaminants that would result in groundwater or surface water contamination.

However, the main difference between Alternative 2 and 3 is cost and construction time. Alternative 2 is extremely expensive when compared with Alternative 3, however both alternatives will achieve the above RAOs. The ability to implement Alternative 3 relies on the

nature of the present contamination. Due to the immobility of the SVOCs and PCBs marginally in exceedance of CUSCOs, and the metals in exceedance of UUSCOs, there is very limited concern with off-site migration and future exposure to public health or the environment with the implementation of a Surface Cover. It is therefore recommended that Alternative 3, Installation of a Surface Cover, be implemented because it effectively achieves the RAOs for the site, is the most easily implementable, and is relatively low in cost.

The implementation of Alternative 3 will require an approved Site Management Plan which has procedures in place to effectively maintain and repair the surface cap if necessary. Alternative 3 will also require an Environmental Easement restricting future excavation of site soils to protect public health and the environment.

Appendix A



Modified from 2014 Europa Technologies, Google

Not to Scale

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

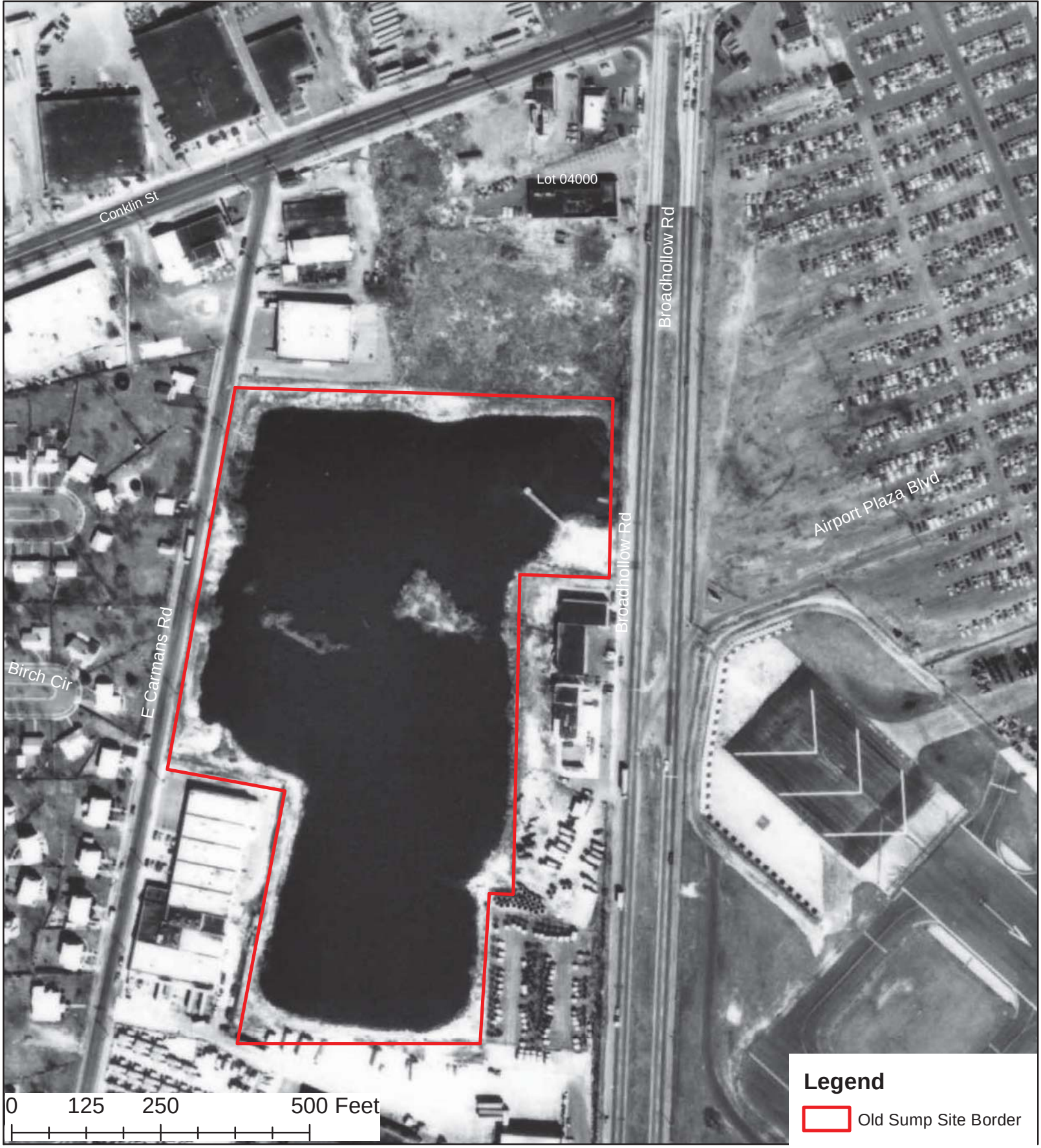
Figure 1
Site Location Map

Fairchild Republic Aircraft; Old Sump
Broad Hollow Road
East Farmingdale, NY
Site No. 152004

Fairchild Old Sump Site (class 2) Site No. 152004
Broad Hollow Rd (Rt 110) E. Farmingdale, NY 11530
Town of Babylon, Suffolk County, New York

Figure 2: Tax Parcel Map

Created by: RKC
4/10/14



N

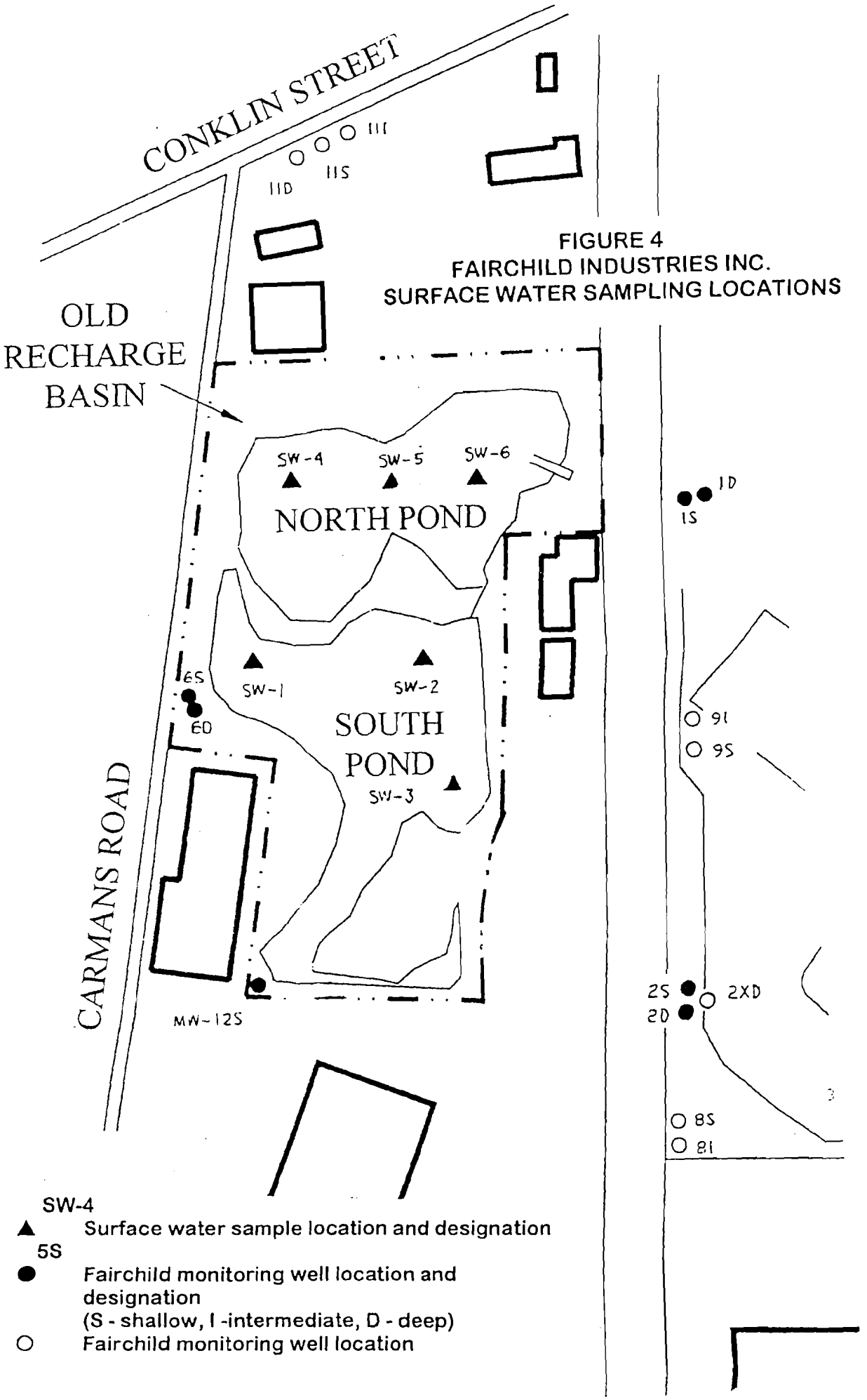
Fairchild Old Sump Site (class 2) Site No. 152004
Broad Hollow Rd (Rt 110) E. Farmingdale, NY 11530
Town of Babylon, Suffolk County, New York

Figure 3: Remedial Investigation Historical Aerial Photo
1976

Created by: RKC
5/01/14

Appendix B

FIGURE 4
FAIRCHILD INDUSTRIES INC.
SURFACE WATER SAMPLING LOCATIONS



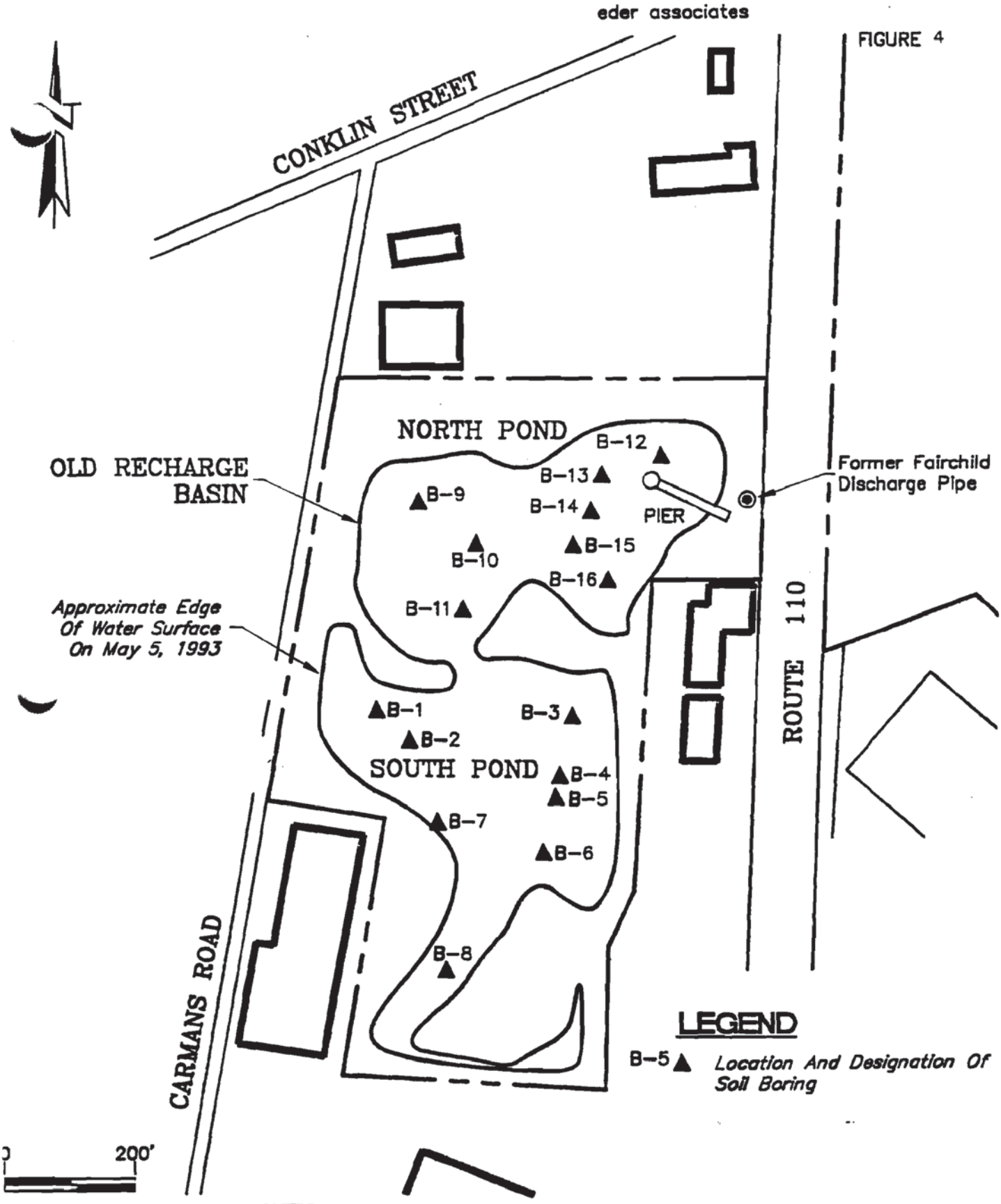
SW-4
▲ Surface water sample location and designation

5S
● Fairchild monitoring well location and designation
(S - shallow, I -intermediate, D - deep)

○ Fairchild monitoring well location

eder associates

FIGURE 4

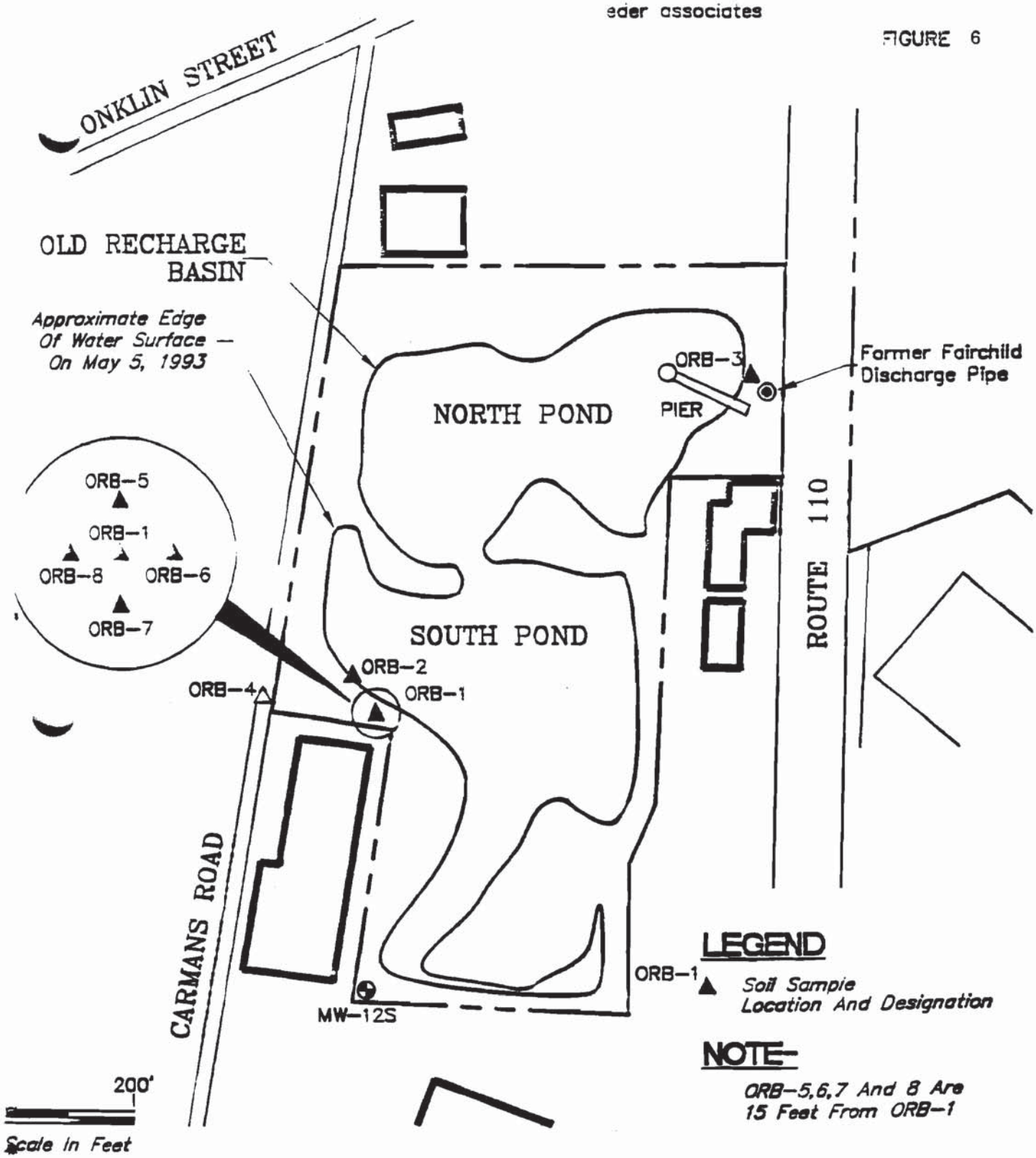


GERAGHTY AND MILLER
SEDIMENT SAMPLING LOCATIONS

FAIRCHILD INDUSTRIES INC.
EAST FARMINGDALE, NEW YORK

61-6C
493

FIGURE 6



SURFACE SOIL SAMPLE LOCATIONS

REMEDIAL INVESTIGATION

OLD RECHARGE BASIN

FAIRCHILD INDUSTRIES INC.

EAST FARMINGDALE, NEW YORK

N

Table 5. Concentrations of Volatile Organic Compounds Detected in Soil Samples Collected from the Recharge Basin in September and October 1988, for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-1	B-1	B-2	B-2	B-3
Sample Type:	S/N*	N	S	S/N*	S/N*
Sample Depth:	0-4	4-7	0-4	5-7	0-2
Sample Date:	9/27/88	9/27/88	9/27/88	9/27/88	9/28/88
Parameter (ug/kg)					
Methylene chloride	12	<6	<7	<6	<19
Acetone	53 J	<12	49 J	32 J	<300
1,2-Dichloroethene (total)	20	<6	<7	<6	<19
Chloroform	<6	<6	<7	<6	<19
Toluene	<6	<6	<7	<6	<19
Chlorobenzene	<6	<6	<7	<6	<19
Ethylbenzene	<6	<6	<7	<6	<19
Styrene	<6	<6	<7	<6	<19
Xylene (total)	<6	<6	<7	<6	<19
2-Butanone	<13	<13	5 J	<12	<90
Vinyl chloride	<13	<13	<14	<12	<38
Tetrachloroethene	<6	6	<7	<6	<19
Trichloroethene	<6	<6	<7	<6	<19
1,1,1-Trichloroethane	<6	<6	<7	<6	<19
Total VOCs	85	6	54	32	--

All results reported in micrograms per kilogram (ug/kg).

-- Not detected.
J Estimated Value.
B Detected in the Reagent blank.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.
R Unuseable data.

Table 5. Concentrations of Volatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-3	B-4	B-4	B-5	B-6
Sample Type:	N	S	S	S	S
Sample Depth:	2-4	0-2	2-6	2-4	0-2
Sample Date:	9/28/88	9/28/88	9/28/88	9/29/88	9/29/88
Parameter (ug/kg)					
Methylene chloride	<6	<7	<9	<9	<12
Acetone	47 J	<190	<360	<210	<85
1,2-Dichloroethene (total)	<6	<7	<9	<9	<12
Chloroform	<6	<7	<9	<9	<12
Toluene	<6	<7	<9	<9	<12
Chlorobenzene	<6	<7	<9	<9	<12
Ethylbenzene	<6	<7	<9	<9	<12
Styrene	<6	<7	<9	<9	<12
Xylene (total)	<6	<7	<9	<9	<12
2-Butanone	<12	<41	<110	<63	<23
Vinyl chloride	<12	<13	<19	<18	<23
Tetrachloroethene	<6	<7	<9	<9	<12
Trichloroethene	<6	<7	<9	<9	<12
1,1,1-Trichloroethane	<6	<7	<9	<9	<12
Total VOCs	47	--	--	--	--

All results reported in micrograms per kilogram (ug/kg).

-- Not detected.
J Estimated Value.
B Detected in the Reagent blank.
S Sediment.
N Native soil.
• Designates dominant component of composite sample.
R Unuseable data.

Table 5. Concentrations of Volatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-6	B-7	B-8	B-8	B-9	B-9
Sample Type:	N	S/N*	S	N	S	N
Sample Depth:	2-4	0-2	0-2	2-4	0-4	4-6
Sample Date:	9/29/88	9/29/88	9/29/88	9/29/88	10/4/88	10/4/88
Parameter (ug/kg)						
Methylene chloride	<6	<6	<25	<6	<3800 J	<6
Acetone	30 J	42 J	<270	76 J	<7600 J	<61
1,2-Dichloroethene (total)	<6	<6	<25	<6	<3800 J	<6
Chloroform	<6	<6	<25	<6	<3800 J	<6
Toluene	<6	<6	<25	<6	500 J	<6
Chlorobenzene	<6	<6	<25	<6	<3800 J	<6
Ethylbenzene	<6	<6	<25	<6	<3800 J	<6
Styrene	<6	<6	<25	<6	<3800 J	<6
Xylene (total)	<6	<6	<25	<6	<3800 J	2 J
2-Butanone	2 J	<12	<49	11 J	R	R
Vinyl chloride	<12	<12	<49	<12	<7600 J	<12
Tetrachloroethene	<6	<6	<25	<6	<3800 J	2 J
Trichloroethene	<6	<6	<25	<6	<3800 J	<6
1,1,1-Trichloroethane	<6	<6	<25	<6	<3800 J	<6
Total VOCs	32	42	--	87	500	4

All results reported in micrograms per kilogram (ug/kg).

-- Not detected.
J Estimated Value.
B Detected in the Reagent blank.
S Sediment.
N Native soil.
• Designates dominant component of composite sample.
R Unuseable data.

Table 5. Concentrations of Volatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-10	B-10	B-11	B-11	B-12	B-12
Sample Type:	S	N	S	N	S	S
Sample Depth:	0-4	4-6	0-4	4-6	0-5	5-7
Sample Date:	10/5/88	10/5/88	10/5/88	10/5/88	10/6/88	10/6/88
Parameter (ug/kg)						
Methylene chloride	<3600 J	<6	<13	<6	<12000 J	<2700 J
Acetone	<7400 J	<120	<160	<110	<67,000 B	<5400 J
1,2-Dichloroethene (total)	<3600 J	<6	<11	<6	<12000 J	5000 J
Chloroform	<3600 J	<6	<11	<6	<12000 J	<2700 J
Toluene	860 J	<6	<11	<6	<12000 J	<2700 J
Chlorobenzene	<3600 J	<6	<11	<6	<12000 J	<2700 J
Ethylbenzene	<3600 J	<6	<11	<6	<12000 J	<2700 J
Styrene	<3600 J	<6	<11	<6	<12000 J	<2700 J
Xylene (total)	<3600 J	1 J	<11	1 J	<12000 J	<2700 J
2-Butanone	R	R	R	R	R	R
Vinyl chloride	<7400 J	<12	<22	<12	<27000 J	<5400 J
Tetrachloroethene	<3600 J	<6	<11	2 J	<12000 J	<2700 J
Trichloroethene	<3600 J	<6	<11	<6	<12000 J	1800 J
1,1,1-Trichloroethane	<3600 J	11	<11	13	<12000 J	<2700 J
Total VOCs	860	12	--	16	--	6,800

All results reported in micrograms per kilogram (ug/kg).

-- Not detected.
J Estimated Value.
B Detected in the Reagent blank.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.
R Unuseable data.

Table 5. Concentrations of Volatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-12	B-13	B-13	B-13	B-14	B-14
Sample Type:	N	S	S	N	S	S
Sample Depth:	7-9	0-5	5-9	9-11	0-8	8-13
Sample Date:	10/6/88	10/6/88	10/6/88	10/6/88	10/7/88	10/7/88
Parameter (ug/kg)						
Methylene chloride	<32	<84 J	<760 J	43	<250 J	<58
Acetone	<410	<600 J	<1500 J	430 J	<770 J	<610
1,2-Dichloroethene (total)	24 J	<84 J	<760 J	<29	<250 J	330
Chloroform	<30	<84 J	<760 J	<29	<250 J	<58
Toluene	<30	<84 J	<760 J	<29	<250 J	44
Chlorobenzene	<30	<84 J	<760 J	<29	<250 J	<58
Ethylbenzene	<30	<84 J	<760 J	<29	<250 J	12
Styrene	<30	<84 J	<760 J	<29	<250 J	<58
Xylene (total)	<30	<84 J	<760 J	<29	400 J	<120
2-Butanone	R	<170 J	R	49 J	<500 J	R
Vinyl chloride	<60	<170 J	<1500 J	<58	<500 J	210
Tetrachloroethene	<30	<84 J	<760 J	<29	<250 J	<58
Trichloroethene	22 J	<84 J	<760 J	<29	<250 J	940
1,1,1-Trichloroethane	<30	<84 J	<760 J	<29	<250 J	<58
Total VOCs	46	--	--	522	400	1,536

All results reported in micrograms per kilogram (ug/kg).

-- Not detected.
J Estimated Value.
B Detected in the Reagent blank.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.
R Unuseable data.

Table 5. Concentrations of Volatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-14	B-15	B-15	B-15	B-16	B-16
Sample Type:	S	S	S	N	S	S
Sample Depth:	13-19	0-7	7-10	10-17	0-5	5-7
Sample Date:	10/7/88	10/10/88	10/10/88	10/10/88	10/10/88	10/10/88
Parameter (ug/kg)						
Methylene chloride	<6	<92	<96	<50	<110	<64 J
Acetone	<74	<1200	3,500 B	<1,300	4,600 B	<2,000 J
1,2-Dichloroethene (total)	<6	1000	<96	<50	<110	<64 J
Chloroform	<6	<92	<96	<50	<110	<64 J
Toluene	1 J	310	<96	<50	<110	<64 J
Chlorobenzene	<6	<92	180	<50	160	<64 J
Ethylbenzene	<6	<92	<96	<50	<110	<64 J
Styrene	<6	<92	<96	<50	<110	<64 J
Xylene (total)	<6	380	400	<50	430	180 J
2-Butanone	R	R	1,000 J	370 J	1,100 J	620 J
Vinyl chloride	<12	<180	<190	1,100	<220	<130 J
Tetrachloroethene	3 J	<92	<96	<50	<110	<64 J
Trichloroethene	<6	<92	<96	<50	<110	<64 J
1,1,1-Trichloroethane	1 J	<92	<96	<50	<110	<64 J
Total VOCs	5	1,690	1,580	1,470	1,690	800

All results reported in micrograms per kilogram (ug/kg).

-- Not detected.
J Estimated Value.
B Detected in the Reagent blank.
S Sediment.
N Native soil.
• Designates dominant component of composite sample.
R Unuseable data.

Table 5. Concentrations of Volatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-16
Sample Type:	N
Sample Depth:	7-11
Sample Date:	10/10/88

Parameter (ug/kg)	
Methylene chloride	<6
Acetone	<28
1,2-Dichloroethene (total)	<6
Chloroform	<6
Toluene	<6
Chlorobenzene	<6
Ethylbenzene	<6
Styrene	<6
Xylene (total)	<6
2-Butanone	R
Vinyl chloride	<12
Tetrachloroethene	<6
Trichloroethene	<6
1,1,1-Trichloroethane	<6
Total VOCs	--

All results reported in micrograms per kilogram (ug/kg).

-- Not detected.
J Estimated Value.
B Detected in the Reagent blank.
S Sediment.
N Native soil.
• Designates dominant component of composite sample.
R Unuseable data.

Table 6. Concentrations of Semivolatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-1	B-1	B-2	B-2	B-3
Sample Depth (ft):	0-4	4-7	0-4	5-7	0-2
Sample Date:	9/27/88	9/27/88	9/27/88	9/27/88	9/28/88
	S/N*	N	S	S/N*	S/N*
Parameter (ug/kg)					
N-Nitrosodiphenylamine	86 J	<380	<1300	<410	<440
1,2-Dichlorobenzene	58 J	<380	110 J	<410	55 J
Diethylphthalate	<570	<380	<1300	<410	<440
Di-n-butylphalate	<570	<380	<1300	50 J	<440
Phenol	<570	<380	<1300	<410	<440
Hexachlorobenzene	<570	<380	<1300	<410	<440
bis(2-Chloroethyl)ether	<570	<380	<1300	<410	<440
2-Chlorophenol	<570	<380	<1300	<410	<440
2,4-Dinitrotoluene	<570	<380	<1300	<410	<440
1,4-Dichlorobenzene	<570	<380	<1300	<410	<440
Benzo(g,h,i)perylene	<570 J	<380	<1300	<410	<440 J
Benzo(a)pyrene	300 J	<380	340 J	<410	<440 J
Indeno(1,2,3-cd)pyrene	<570 J	<380	<1300	<410	<440 J
4-Methylphenol	<570	<380	<1300	<410	<440
N-nitroso-di-n-propylamine	<570	<380	<1300	<410	<440
Acenaphthene	<570	<380	<1300	<410	<440
bis(2-Ethylhexyl)phthalate	<860	<380	<1300	<470	<1,900 J
4-Nitrophenol	<2800	<1900	<6400	<2000	<2200
Isophorone	<570	<380	<1300	<410	<440
Dibenzofuran	<570	<380	23 J	<410	36 J
2,4-Dimethylphenol	<570	<380	<1300	<410	<440
Benzoic acid	<2800	<1900	250 J	<2000	110 J
Benzo(b)fluoranthene	<570 J	6 J	480 J	43 J	<440 J
Benzo(k)fluoranthene	440 J	<380	<1300	<410	320 J
1,2,4-Trichlorobenzene	<570	<380	<1300	<410	<440
Naphthalene	<570	<380	<1300	<410	<440
Benzo(a)anthracene	<570 J	<380	<1300	<410	<440
Chrysene	320 J	<380	430 J	47 J	230 J
4-Chloro-3-methylphenol	<570	<380	44 J	<410	<440
2-Methylnaphthalene	<570	<380	45 J	<410	<440
Pentachlorophenol	<2800	<1900	<6400	<2000	<2200
Phenanthrene	<570	<380	250 JB	<410	<440
Anthracene	<570	<380	87 JB	<410	<440
Di-n-octyl phthalate	<570 J	<380	<1300	<410	<440 J
Fluoranthene	400 J	<380	510 J	79 J	270 J
Pyrene	660	<380	720 J	69 J	610 J
Dimethyl phthalate	<570	<380	<1300	<410	37 J
Acenaphthylene	49 J	<380	<1300	<410	38 J
Fluorene	<570	<380	<1300	<410	<440
Butylbenzylphthalate	<570	<380	<1300	<410	<440 J
Total Semivolatile Organic Compounds	2,313	6	2,952	288	1,706

All results in micrograms per kilogram (ug/kg).

- B Detected in Reagent blank.
- J Estimated value.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 6. Concentrations of Semivolatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-3	B-4	B-4	B-5
Sample Depth (ft):	2-4	0-2	2-6	2-4
Sample Date:	9/28/88	9/28/88	9/28/88	9/28/88
	N	S	S	S*/N
Parameter (ug/kg)				
N-Nitrosodiphonylamine	<380	<470	<590	<490
1,2-Dichlorobenzene	<380	<470	<590	70 J
Diethyiphthalate	<380	<470	<590	<490
Di-n-butylphalate	<380	<470	<590	51 J
Phenol	<380	<470	<590	<490
Hexachlorobenzene	<380	<470	<590	<490
bis(2-Chloroethyl)ether	<380	<470	<590	<490
2-Chlorophenol	<380	<470	<590	<490
2,4-Dinitrotoluene	<380	<470	<590	<490
1,4-Dichlorobenzene	<380	<470	<590	<490
Benzo(g,h,i)perylene	<380	<470 J	<590 J	<490 J
Benzo(a)pyrene	<380	2,000 J	940 J	220 J
Indeno(1,2,3-cd)pyrene	<380	<470 J	<590 J	<490 J
4-Methylphenol	<380	<470	<590	<490
N-nitroso-di-n-propylamine	<380	<470	<590	<490
Acenaphthene	<380	350 J	150 J	<490
bis(2-Ethylhexyl)phthalate	<380	<1,400 J	<6,300 J	<1,700 J
4-Nitrophenol	<1900	<2300	<2900	<2400
Isophorone	<380	<470	<590	<490
Dibenzofuran	<380	250 J	95 J	<490
2,4-Dimethylphenol	<380	<470	<590	<490
Benzoic acid	<1900	<2300	<2900	<2400
Benzo(b)fluoranthene	<380	5,300 J	1,300 J	180 J
Benzo(k)fluoranthene	<380	430 J	<590 J	<490 J
1,2,4-Trichlorobenzene	<380	<470	<590	<490
Naphthalene	<380	170 J	190 J	<490
Benzo(a)anthracene	8 J	1,700 J	<590 J	<490 J
Chrysene	<380	1,900 J	<590 J	230 J
4-Chloro-3-methylphenol	<380	<470	<590	<490
2-Methylnaphthalene	<380	330 J	250 J	28 J
Pentachlorophenol	<1900	<2300	<2900	<2400
Phenanthrene	<380	1,800 B	<590	<490
Anthracene	<380	580 B	<590	<490
Di-n-octyl phthalate	<380	<470 J	<590 J	<490 J
Fluoranthene	<380	2,400	750	250 J
Pyrene	<380	5,300 J	3,300 J	520 J
Dimethyl phthalate	<380	<470	<590	<490
Acenaphthylene	<380	560	130 J	43 J
Fluorene	<380	510	<590	<490
Butylbenzylphthalate	<380	<470 J	<590 J	<490 J
Total Semivolatile Organic Compounds	8	21,200	7,105	1,592

All results in micrograms per kilogram (ug/kg).

- B Detected in Reagent blank.
- J Estimated value.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 6. Concentrations of Semivolatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-6	B-6	B-7	B-8
Sample Depth (ft):	0-2	2-4	0-2	0-2
Sample Date:	9/29/88	9/29/88	9/29/88	9/29/88
	S	N	S/N*	S
Parameter (ug/kg)				
N-Nitrosodiphonylamine	<570	<400	<390	<530
1,2-Dichlorobenzene	74 J	<400	<390	130 J
Diethyiphthalate	<570	<400	<390	<530
Di-n-butyiphalate	<570	<400	34 J	<530
Phenol	<570	<400	<390	<530
Hexachlorobenzene	<570	<400	<390	43 J
bis(2-Chloroethyl)ether	<570	<400	<390	<530
2-Chlorophenol	<570	<400	<390	<530
2,4-Dinitrotoluene	<570	<400	<390	<530
1,4-Dichlorobenzene	<570	<400	<390	<530
Benzo(g,h,i)perylene	<570 J	<400	210 J	<530 J
Benzo(a)pyrene	320 J	5 J	2,200 J	830 J
Indeno(1,2,3-cd)pyrene	<570 J	<400	330 J	<530 J
4-Methyiphenol	<570	<400	<390	43 J
N-nitroso-di-n-propylamine	<570	<400	<390	<530
Acenaphthene	<570	<400	300 J	250 J
bis(2-Ethylhexyl)phthalate	<2,300 J	<810	<730	<1,800 J
4-Nitrophenol	<2800	<2000	<1900	<2600
Isophorone	<570	<400	<390	<530
Dibenzofuran	<570	<400	230 J	150 J
2,4-Dimethylphenol	<570	<400	<390	<530
Benzoic acid	73 J	<2000	<1900	130 J
Benzo(b)fluoranthene	300 J	4 J	3,100 J	1,900 J
Benzo(k)fluoranthene	<570	<400	610 J	190 J
1,2,4-Trichlorobenzene	<570	<400	<390	<530
Naphthalene	31 J	<400	140 J	110 J
Benzo(a)anthracene	<570 J	<400	2,300	<530 J
Chrysene	310 J	<400	2,300	<530 J
4-Chloro-3-methylphenol	<570	<400	<390	<530
2-Methylnaphthalene	35 J	<400	93 J	410 J
Pentachlorophenol	<2800	<2000	<1900	<2600
Phenanthrene	<570	<400	3,300 B	1,300 B
Anthracene	<570	8 J	980 B	330 JB
Di-n-octyl phthalate	<570 J	<400	<390 J	<530 J
Fluoranthene	370 J	15 J	4,200	1,100
Pyrene	820 J	14 J	5,400	2,400 J
Dimethyl phthalate	<570	<400	<390	<530
Acenaphthylene	53 J	<400	290 J	210 J
Fluorene	<570	<400	<390	390 J
Butylbenzylphthalate	<570 J	<400	<390	<530 J
Total Semivolatile Organic Compounds	2,386	46	21,737	8,286

All results in micrograms per kilogram (ug/kg).

- B Detected in Reagent blank.
- J Estimated value.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 6. Concentrations of Semivolatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-8	B-9	B-9	B-10	B-10
Sample Depth (ft):	2-4	0-4	4-6	0-4	4-6
Sample Date:	9/29/88	10/4/88	10/4/88	10/5/88	10/5/88
	N	S	N	S	N
Parameter (ug/kg)					
N-Nitrosodiphonylamine	<390	<1300	<390	<100,000 J	<390
1,2-Dichlorobenzene	<390	<1300	<390	<100,000 J	<390
Diethylphthalate	<390	<1300	<390	<100,000 J	<390
Di-n-butylphalate	26 J	<1300	21 J	<100,000 J	<390
Phenol	<390	<1300	<390	<100,000 J	<390
Hexachlorobenzene	<390	<1300	<390	<100,000 J	<390
bis(2-Chloroethyl)ether	<390	<1300	<390	<100,000 J	<390
2-Chlorophenol	<390	<1300	<390	<100,000 J	<390
2,4-Dinitrotoluene	<390	<1300	<390	<100,000 J	<390
1,4-Dichlorobenzene	<390	<1300	<390	<100,000 J	<390
Benzo(g,h,i)peryiene	<390	<1300 J	<390	<100,000 J	<390 J
Benzo(a)pyrene	34 J	370 J	29 J	<100,000 J	150 J
Indeno(1,2,3-cd)pyrene	<390	<1300 J	<390	<100,000 J	<390 J
4-Methylphenol	<390	<1300	<390	<100,000 J	<390
N-nitroso-di-n-propylamine	<390	<1300	<390	<100,000 J	<390
Acenaphthene	28 J	<1300	<390	<100,000 J	<390
bis(2-Ethylhexyl)phthalate	<390	<3,100	<910	<100,000 J	<1300
4-Nitrophenol	<1900	<6600	<1900	<480,000 J	<1900
Isophorone	<390	<1300	<390	<100,000 J	<390
Dibenzofuran	<390	<1300	<390	<100,000 J	<390
2,4-Dimethylphenol	<390	<1300	<390	<100,000 J	97 J
Benzoic acid	<1900	<6600	<1900	<480,000 J	<1900
Benzo(b)fluoranthene	<390	500 J	<390	<100,000 J	260 J
Benzo(k)fluoranthene	31 J	<1300 J	<390	<100,000 J	<390 J
1,2,4-Trichlorobenzene	<390	<1300	<390	<100,000 J	<390
Naphthalene	<390	<1300	<390	<100,000 J	<390
Benzo(a)anthracene	<390	<1300	<390	<100,000 J	<390
Chrysene	<390	460 J	47 J	<100,000 J	220 J
4-Chloro-3-methylphenol	<390	<1300	<390	<100,000 J	<390
2-Methylnaphthalene	<390	<1300	<390	<100,000 J	<390
Pentachlorophenol	<1900	<6600	<1900	<480,000 J	<1900
Phenanthrene	140 JB	530 J	29 J	<100,000 J	160 J
Anthracene	32 JB	<1300	<390	<100,000 J	<390
Di-n-octyl phthalate	280 J	<1300 J	25 J	<100,000 J	<390 J
Fluoranthene	93 J	860 J	71 J	2,900 J	350 J
Pyrene	95 J	920 J	70 J	<100,000 J	430
Dimethyl phthalate	<390	<1300	<390	<100,000 J	<390
Acenaphthylene	<390	<1300	<390	<100,000 J	<390
Fluorene	26 J	<1300	<390	<100,000 J	<390
Butylbenzylphthalate	<390	<1300	12 J	<100,000 J	<390
Total Semivolatile Organic Compounds	613	3,640	304	2,900	1,667

All results in micrograms per kilogram (ug/kg).

- B Detected in Reagent blank.
- J Estimated value.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 6. Concentrations of Semivolatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-11	B-11	B-12	B-12	B-12
Sample Depth (ft):	0-4	4-6	0-5	5-7	7-9
Sample Date:	10/5/88	10/5/88	10/6/88	10/6/88	10/6/88
	S	N	S		N
Parameter (ug/kg)					
N-Nitrosodiphonylamine	<1600	<400	<33000 J	<95000 J	<450
1,2-Dichlorobenzene	<1600	<400	<33000 J	<95000 J	<450
Diethylphthalate	<1600	<400	<33000 J	<95000 J	<450
Di-n-butylphalate	100 J	<400	<33000 J	<95000 J	<450
Phenol	<1600	<400	<33000 J	<95000 J	<450
Hexachlorobenzene	<1600	<400	<33000 J	<95000 J	<450
bis(2-Chloroethyl)ether	<1600	<400	<33000 J	<95000 J	<450
2-Chlorophenol	<1600	<400	<33000 J	<95000 J	<450
2,4-Dinitrotoluene	<1600	<400	<33000 J	<95000 J	<450
1,4-Dichlorobenzene	<1600	<400	<33000 J	<95000 J	<450
Benzo(g,h,i)perylene	<1600 J	<400 J	<33000 J	<95000 J	<450 J
Benzo(a)pyrene	<1600 J	160 J	<33000 J	<95000 J	270 J
Indeno(1,2,3-cd)pyrene	<1600 J	<400 J	<33000 J	<95000 J	<450 J
4-Methylphenol	<1600	<400	<33000 J	<95000 J	<450
N-nitroso-di-n-propylamine	<1600	<400	<33000 J	<95000 J	<450
Acenaphthene	<1600	<400	<33000 J	<95000 J	<450
bis(2-Ethylhexyl)phthalate	<3,300	<1,500	<33000 J	<95000 J	<1,600
4-Nitrophenol	<7800	<2000	<160,000 J	<450,000 J	<2200
Isophorone	<1600	<400	<33000 J	<95000 J	<450
Dibensofuran	<1600	<400	<33000 J	<95000 J	<450
2,4-Dimethylphenol	<1600	<400	<33000 J	<95000 J	<450
Benzoic acid	<7800	<2000	<160,000 J	<450,000 J	<2200
Benzo(b)fluoranthene	<1600 J	220 J	3,200 J	12,000 J	410 J
Benzo(k)fluoranthene	<1600 J	250 J	1,700 J	<95000 J	380 J
1,2,4-Trichlorobenzene	<1600	<400	<33000 J	<95000 J	<450
Naphthalene	<1600	<400	<33000 J	<95000 J	110 J
Benzo(a)anthracene	<1600	<400	<33000 J	<95000 J	<450
Chrysene	<1600	230	2,400 J	<95000 J	370 J
4-Chloro-3-methylphanol	<1600	<400	<33000 J	<95000 J	<450
2-Methylnaphthalene	<1600	<400	<33000 J	<95000 J	1,600
Pentachlorophenol	<7800	<2000	<160,000 J	<450,000 J	<2200
Phenanthrene	71 J	<400	1,600 J	10,000 J	660
Anthracene	<1600	<400	<33000 J	<95000 J	170 J
Di-n-octyl phthalate	<1600 J	<400 J	<33000 J	<95000 J	<450 J
Fluoranthene	110 J	340 J	3,900 J	13,000 J	840
Pyrene	98 J	440	3,100 J	11,000 J	1,000
Dimethyl phthalate	<1600	<400	<33000 J	<95000 J	56 J
Acenaphthylene	<1600	<400	<33000 J	<95000 J	<450
Fluorene	<1600	<400	<33000 J	<95000 J	<450
Butylbenzylphthalate	<1600	<400	<33000 J	<95000 J	<450
Total Semivolatile Organic Compounds	379	1,640	15,900	46,000	5,866

All results in micrograms per kilogram (ug/kg).

- B Detected in Reagent blank.
- J Estimated value.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 6. Concentrations of Semivolatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-13	B-13	B-13	B-14	B-14
Sample Depth (ft):	0-5	5-9	9-11	0-8	8-13
Sample Date:	10/6/88	10/6/88	10/6/88	10/7/88	10/7/88
	S	S	N	S	S
Parameter (ug/kg)					
N-Nitrosodiphonylamine	<45000 J	<2500	<370	<54000 J	<430
1,2-Dichlorobenzene	<45000 J	<2500	<370	<54000 J	<430
Diethylphthalate	<45000 J	<2500	<370	<54000 J	<430
Di-n-butylphalate	<45000 J	280 J	<370	<54000 J	<430
Phenol	<45000 J	<2500	<370	<54000 J	<430
Hexachlorobenzene	<45000 J	<2500	<370	<54000 J	<430
bis(2-Chloroethyl)ether	<45000 J	<2500	<370	<54000 J	<430
2-Chlorophenol	<45000 J	<2500	<370	<54000 J	<430
2,4-Dinitrotoluene	<45000 J	<2500	<370	<54000 J	<430
1,4-Dichlorobenzene	<45000 J	<2500	<370	<54000 J	<430
Benzo(g,h,i)perylene	<45000 J	<2500 J	<370 J	<54000 J	<430 J
Benzo(a)pyrene	4,600 J	3,100 J	710 J	4,500 J	1,300 J
Indeno(1,2,3-cd)pyrene	<45000 J	<2500 J	<370 J	<54000 J	260 J
4-Methylphenol	<45000 J	<2500	<370	<54000 J	<430
N-nitroso-di-n-propylamine	<45000 J	<2500	<370	<54000 J	<430
Acenaphthene	<45000 J	750 J	240 J	<54000 J	<430
bis(2-Ethylhexyl)phthalate	<45000 J	<8,400	<1,900	<54000 J	<2,700 J
4-Nitrophenol	<220,000 J	<13000	<1800	<260,000 J	<2100
Isophorone	<45000 J	<2500	<370	<54000 J	<430
Dibenzofuran	<45000 J	410 J	140 J	<54000 J	200 J
2,4-Dimethylphenol	<45000 J	310 J	<370	<54000 J	1,100
Benzoic acid	<220,000 J	<13000	<1800	<260,000 J	79 J
Benzo(b)fluoranthene	12,000 J	5,100 J	960 J	3,500 J	4,000 J
Benzo(k)fluoranthene	<45000 J	<2500 J	210 J	<54000 J	<430 J
1,2,4-Trichlorobenzene	<45000 J	<2500	<370	<54000 J	<430
Naphthalene	<45000 J	390 J	49 J	<54000 J	150 J
Benzo(a)anthracene	6,200 J	3,800	840	<54000 J	1,500 J
Chrysene	7,000 J	4,100	880	<54000 J	1,500 J
4-Chloro-3-methylphenol	<45000 J	<2500	<370	<54000 J	<430
2-Methylnaphthalene	<45000 J	410 J	130 J	<54000 J	350 J
Pentachlorophenol	<220,000 J	<13000	<1800	<260,000 J	<2100
Phenanthrene	7,400 J	5,600	1,600	3,900 J	2,400
Anthracene	1,600 J	1,300 J	440	<54000 J	580
Di-n-octyl phthalate	<45000 J	<2500 J	<370 J	<54000 J	<430 J
Fluoranthene	13,000 J	7,600	1,800	11,000 J	2,900
Pyrene	11,000 J	9,500	2,400	10,000 J	4,300 J
Dimethyl phthalate	<45000 J	<2500	<370	<54000 J	<430
Acenaphthylene	<45000 J	200 J	<370	<54000 J	190 J
Fluorene	<45000 J	880 J	340 J	<54000 J	<430
Butylbenzylphthalate	<45000 J	<2500	<370	<54000 J	<430 J
Total Semivolatile Organic Compounds	62,800	43,730	10,739	32,900	20,809

All results in micrograms per kilogram (ug/kg).

- B Detected in Reagent blank.
- J Estimated value.
- S Sediment.
- N Native soil.
- • Designates dominant component of composite sample.

Table 6. Concentrations of Semivolatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-14	B-15	B-15	B-15	B-16
Sample Depth (ft):	13-19	0-7	7-10	10-17	0-5
Sample Date:	10/7/88	10/10/88	10/10/88	10/17/88	10/10/88
	S/N*	S	S	N	S
Parameter (ug/kg)					
N-Nitrosodiphonylamine	<390	<1500	<58000 J	<53000	<58000
1,2-Dichlorobenzene	<390	590 J	<58000 J	<53000	<58000
Diethylphthalate	<390	<1500	<58000 J	<53000	<58000
Di-n-butylphalate	<390	<1500	1,800 J	<53000	<58000
Phenol	<390	<1500	<58000 J	<53000	<58000
Hexachlorobenzene	<390	<1500	<58000 J	<53000	<58000
bis(2-Chloroethyl)ether	<390	<1500	<58000 J	<53000	<58000
2-Chlorophenol	<390	<1500	<58000 J	<53000	<58000
2,4-Dinitrotoluene	<390	<1500	<58000 J	<53000	<58000
1,4-Dichlorobenzene	<390	<1500	<58000 J	<53000	<58000
Benzo(g,h,i)perylene	<390	<1500	<58000 J	<53000	<58000
Benzo(a)pyrene	<390	2,900	<58000 J	<53000	<58000
Indeno(1,2,3-cd)pyrene	<390	500 J	<58000 J	<53000	<58000
4-Methylphenol	<390	<1500	<58000 J	<53000	<58000
N-nitroso-di-n-propylamine	<390	<1500	<58000 J	<53000	<58000
Acenaphthene	<390	480 J	<58000 J	<53000	<58000
bis(2-Ethylhexyl)phthalate	<530	15,000 BJ	<58000 J	<53000	<58000
4-Nitrophenol	<1900	<7100	<280,000 J	<260,000	<280,000
Isophorone	<390	<1500	<58000 J	<53000	<58000
Dibenzofuran	<390	280 J	<58000 J	<53000	<58000
2,4-Dimethylphenol	<390	27,000	12,000 J	<53000	<58000
Benzoic acid	<1900	<7100	<280,000 J	<260,000	<280,000
Benzo(b)fluoranthene	<390	3,300	<58000 J	1,500 J	<58000
Benzo(k)fluoranthene	<390	<1500	2,400 J	<53000	<58000
1,2,4-Trichlorobenzene	<390	170 J	<58000 J	<53000	<58000
Naphthalene	<390	510 J	<58000 J	<53000	<58000
Benzo(a)anthracene	<390	4,400 J	<58000 J	<53000	<58000
Chrysene	<390	4,700 J	<58000 J	<53000	9,000 J
4-Chloro-3-methylphenol	<390	<1500	<58000 J	<53000	<58000
2-Methylnaphthalene	<390	1,900	<58000 J	<53000	<58000
Pentachlorophenol	<1900	<7100	<280,000 J	<260,000	<280,000
Phenanthrene	<390	3,200	4,400 J	2,400 J	<58000
Anthracene	<390	600 J	<58000 J	<53000	1,700 J
Di-n-octyl phthalate	<390	<1500	<58000 J	<53000	<58000
Fluoranthene	<390	10,000	9,000 J	3,600 J	13,000 J
Pyrene	<390	4,600 J	6,500 J	3,400 J	14,000 J
Dimethyl phthalate	<390	<1500	<58000 J	<53000	<58000
Acenaphthylene	<390	160 J	<58000 J	<53000	<58000
Fluorene	<390	510 J	<58000 J	<53000	<58000
Butylbenzylphthalate	<390	<1500	<58000 J	<53000	<58000
Total Semivolatile Organic Compounds	--	65,800	36,100	10,900	37,700

All results in micrograms per kilogram (ug/kg).

- B Detected in Reagent blank.
- J Estimated value.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 6. Concentrations of Semivolatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-16	B-16
Sample Depth (ft):	5-7	7-11
Sample Date:	10/10/88	10/10/88
	S	N
Parameter (ug/kg)		
N-Nitrosodiphonylamine	<51000	<400
1,2-Dichlorobenzene	<51000	<400
Diethylphthalate	<51000	22 J
Di-n-butylphalate	<51000	48 J
Phenol	<51000	<400
Hexachlorobenzene	<51000	<400
bis(2-Chloroethyl)ether	<51000	<400
2-Chlorophenol	<51000	<400
2,4-Dinitrotoluene	<51000	<400
1,4-Dichlorobenzene	<51000	<400
Benzo(g,h,i)perylene	<51000	<400
Benzo(a)pyrene	<51000	<400
Indeno(1,2,3-cd)pyrene	<51000	<400
4-Methylphenol	<51000	<400
N-nitroso-di-n-propylamine	<51000	<400
Acenaphthene	<51000	<400
bis(2-Ethylhexyl)phthalate	<51000	<520
4-Nitrophenol	<250,000	<1900
Isophorone	<51000	<400
Dibenzofuran	<51000	<400
2,4-Dimethylphenol	<51000	<400
Benzoic acid	<250,000	<1900
Benzo(b)fluoranthene	<51000	<400
Benzo(k)fluoranthene	<51000	<400
1,2,4-Trichlorobenzene	<51000	<400
Naphthalene	<51000	<400
Benzo(a)anthracene	<51000	<400
Chrysene	<51000	<400
4-Chloro-3-methylphenol	<51000	<400
2-Methylnaphthalene	<51000	<400
Pentachlorophenol	<250,000	<1900
Phenanthrene	3,000 J	<400
Anthracene	<51000	<400
Di-n-octyl phthalate	<51000	<400
Fluoranthene	6,100 J	15 J
Pyrene	5,400 J	<400
Dimethyl phthalate	<51000	<400
Acenaphthylene	<51000	<400
Fluorene	<51000	<400
Butylbenzylphthalate	<51000	<400
Total Semivolatile Organic Compounds	14,500	85

All results in micrograms per kilogram (ug/kg).

- B Detected in Reagent blank.
- J Estimated value.
- S Sediment.
- N Native soil.
- • Designates dominant component of composite sample.

Table 7. Concentrations of Pesticides/PCBs Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-1	B-1	B-2	B-2	B-3	B-3
Sample Type:	S/N*	N	S	S/N*	S/N*	N
Sample Depth:	0-4	4-7	0-4	5-7	0-2	2-4
Sample Date:	9/27/88	9/27/88	9/27/88	9/27/88	9/28/88	9/28/88
Parameter (ppm)						
Pesticides						
alpha Chlordane	<0.140	<0.09	<1	<0.099	<1.1	<0.093
gamma Chlordane	<0.140	<0.09	<1	<0.099	<1.1	<0.093
Total Pesticides	--	--	--	--	--	--
PCBs						
Aroclor 1248	1.9 J	0.24 J	<1	<0.099	12 J	0.120 J
Aroclor 1254	1.4 J	0.13 J	4 J	0.13 J	8 J	0.087 J
Total PCBs	3.3	0.37	4	0.13	20	0.207

All results reported in parts per million (ppm).

-- Not detected.
J Estimated value.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.

Table 7. Concentrations of Pesticides/PCBs Detected in Soil Samples Collected from the Old Recharge Basin September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-4	B-4	B-5	B-6	B-6	B-7
Sample Type:	S	S	S*/N	S	N	S/N*
Sample Depth:	0-2	2-6	2-4	0-2	2-4	0-2
Sample Date:	9/28/88	9/28/88	9/28/88	9/29/88	9/29/88	9/29/88
Parameter (ppm)						
Pesticides						
alpha Chlordane	<0.570	<2.9	<0.590	0.72 J	<0.097	<0.48
gamma Chlordane	<0.570	<2.9	<0.590	0.75 J	<0.097	<0.48
Total Pesticides	--	--	--	1.47	--	--
PCBs						
Aroclor 1248	7.0	38 J	2.3	6.5 J	<0.097	<0.48
Aroclor 1254	4.9	27 J	2.3	5.7 J	<0.19	0.73 J
Total PCBs	11.9	65	4.6	12.2	--	0.73

All results reported in micrograms per kilogram (ppm).

-- Not detected.
J Estimated value.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.

Table 7. Concentrations of Pesticides/PCBs Detected in Soil Samples Collected from the Old Recharge Basin September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-8	B-8	B-9	B-9	B-10	B-10
Sample Type:	S	N	S	N	S	N
Sample Depth:	0-2	2-4	0-4	4-6	0-4	4-6
Sample Date:	9/29/88	9/29/88	10/4/88	10/4/88	10/5/88	10/5/88
Parameter (ppm)						
Pesticides						
alpha Chlordane	4.3 J	0.092 J	<1.6	<0.094	<6.7 J	<0.48
gamma Chlordane	5.4 J	0.11 J	<1.6	<0.094	<6.7 J	<0.48
Total Pesticides	9.7	0.202	--	--	--	--
PCBs						
Aroclor 1248	<6.5	<0.094	3.6	0.9	39 J	39
Aroclor 1254	<13	0.24 J	2.7	0.54	25 J	25
Total PCBs	--	0.24	6.3	1.44	64	64

All results reported in micrograms per kilogram (ppm).

-- Not detected.
J Estimated value.
S Sediment.
N Native soil.
• Designates dominant component of composite sample.

Table 7. Concentrations of Pesticides/PCBs Detected in Soil Samples Collected from the Old Recharge Basin September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-11	B-11	B-12	B-12	B-12	B-13
Sample Type:	S	N	S	S	N	S
Sample Depth:	0-4	4-6	0-5	5-7	7-9	0-5
Sample Date:	10/5/88	10/5/88	10/6/88	10/6/88	10/6/88	10/6/88
Parameter (ppm)						
Pesticides						
alpha Chlordane	<1.9	<0.49	<2.2 J	<6.2 J	<0.54	<3 J
gamma Chlordane	<1.9	<0.49	<2.2 J	<6.2 J	<0.54	<3 J
Total Pesticides	--	--	--	--	--	--
PCBs						
Aroclor 1248	<1.9	2.5	19 J	<6.2 J	0.86	33 J
Aroclor 1254	<3.9	1.7	<4.5 J	10 J	0.63	19 J
Total PCBs	--	4.2	19	10	1.49	52

All results reported in micrograms per kilogram (ppm).

-- Not detected.
J Estimated value.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.

Table 7. Concentrations of Pesticides/PCBs Detected in Soil Samples Collected from the Old Recharge Basin September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-13	B-13	B-14	B-14	B-14	B-15
Sample Type:	S	N	S	S	S/N*	S
Sample Depth:	5-9	9-11	0-8	8-13	13-19	0-7
Sample Date:	10/6/88	10/6/88	10/7/88	10/7/99	10/7/88	10/10/88
Parameter (ppm)						
Pesticides						
alpha Chlordane	<0.61	<0.44	<3.6 J	<0.52	<0.094	<1.8
gamma Chlordane	<0.61	<0.44	<3.6 J	<0.52	<0.094	<1.8
Total Pesticides	--	--	--	--	--	--
PCBs						
Aroclor 1248	15	2.0	39 J	5.7	<0.094	40 J
Aroclor 1254	13	1.8	25 J	5.1	1.5	<3.5
Total PCBs	28	3.8	64	10.8	1.5	40

All results reported in micrograms per kilogram (ppm).

-- Not detected.
J Estimated value.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.

Table 7. Concentrations of Pesticides/PCBs Detected in Soil Samples Collected from the Old Recharge Basin September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-15	B-15	B-16	B-16	B-16	
Sample Type:	S	N	S	S	N	
Sample Depth:	7-10	10-17	0-5	5-7	7-11	
Sample Date:	10/10/88	10/10/88	10/10/88	10/10/88	10/10/88	
Parameter (ppm)						
Pesticides						
alpha Chlordane	<3.8	<3.5	<3.8	<3.4	<0.096	
gamma Chlordane	<3.8	<3.5	<3.8	<3.4	<0.096	
Total Pesticides	--	--	--	--	--	--
PCBs						
Aroclor 1248	21	<3.5	51	88	<0.096	
Aroclor 1254	12	9.2	22	51	0.086 J	
Total PCBs	33	9.2	73	139	0.086	--

All results reported in micrograms per kilogram (ppm).

-- Not detected.
J Estimated value.
S Sediment.
N Native soil.
• Designates dominant component of composite sample.

Table 8. Concentrations of Total Metals and Cyanide Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-1	B-1	B-2	B-2	B-3	B-3
Sample Type:	S/N*	N	S	S/N*	S/N*	N
Sample Depth (ft):	0-4	4-7	0-4	5-7	0-2	2-4
Sample Date:	9/27	9/27	9/27	9/27	9/28	9/28
Parameter (mg/kg)						
Aluminum	21570 D	536 D	7,290 D	2,830 D	5,440 D	533 D
Antimony	<19.5	<5.4	<17.4	<5.6	<6.2	<4.9
Arsenic	9.1	<0.55	2.0 J	3.0	4.3	<0.6
Barium	110	8.9 J	58.2	13.8J	39 J	<8.1
Beryllium	1.43 QJ	<0.13	0.320 J	<0.13	0.220 JD	<0.12
Cadmium	36.1 QJ	0.80 JQ	54.9 QJ	1.2 Q	15.3 QJ	<0.39
Calcium	1,560 J	51.3 J	1,010 J	222	586 J	48.2 J
Chromium	1,320	44.1	1,700	97.8	502	28.8
Cobalt	13.8 JD	<1.1	5.7 JD	108 JD	4.9 JD	<0.98
Copper	95.5	<2.4	89.3	6.0	31.3	<2.6
Iron	18,560 D	1,370 D	6,380 D	3,600 D	6,120 D	908 D
Lead	128 D	2.1 D	22.4 D	2.7 D	23.2 D	2.6 D
Magnesium	2,330	87.9	839	475 J	671 J	91.7 J
Manganese	473 QDJ	12.2 QDJ	131 QDJ	44.4 QDJ	148 QDJ	12.0 QDJ
Mercury	1.7	<0.08	<0.11	<0.10	<0.17	<0.08
Nickel	25.1 D	<2.4	15.3 D	<2.5	8.1 JD	<2.2
Potassium	1,100 J	106 J	382 J	349 J	323 J	87.4 J
Selenium	<0.35	0.32 QJ	0.43 JWQ	0.25 JWQ	<0.3 JWQ	0.323 QJ
Silver	51.1 D	0.64 JD	41.2 D	0.54 JD	20.1 D	<0.39
Sodium	<279	<186	<250	<193	215	<169
Thallium	<0.61	<0.33	<0.54	<0.41	<0.44	<0.36
Vanadium	33.2 D	<0.87	17.1 D	4.3 J	10.55 D	1.2 JD
Zinc	672 D	11.6 D	521 D	34.9 D	217 D	7.2 D
Cyanide	16.2	<0.72	<0.79	<0.69	2.3	<0.63

All results in milligrams per kilogram (mg/kg).

- J Estimated value.
- Q Spiked sample recovery not within control limits.
- W Post-digest spike recovery not within control limits.
- D Duplicate analysis not within control limits.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 8. Concentrations of Total Metals and Cyanide Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-4	B-4	B-5	B-6	B-6
Sample Type:	S	S	S*/N	S	N
Sample Depth (ft):	0-2	2-6	2-4	0-2	2-4
Sample Date:	9/28	9/28	9/28	9/29	9/29
Parameter (mg/kg)					
Aluminum	12,890 D	15,400 D	5,500 D	20,700 D	420 D
Antimony	<7.4	<6.9	<5.8	<7.8	<5.8
Arsenic	7.5	8.5	4.1	10.0	<0.51
Barium	60.1	69.2	45.3 J	136	<9.5
Beryllium	0.79 JD	1.1 JD	0.14 JD	1.5 JD	<0.14
Cadmium	2.8 QJ	5.9 QJ	15.8 QJ	11.1 QJ	<0.46
Calcium	6,270	5,200	1,210	2,400	53.2 J
Chromium	125	322	377	664	124
Cobalt	7.2 JD	7.5 JD	4.6 J	17.4 D	<1.2
Copper	34.4	55.5	43.5	62.1	<3.0
Iron	15,200 D	17,200 D	7,240 D	20,400 D	661 D
Lead	135 D	145 D	96.7 D	85.9 D	0.90 JD
Magnesium	2,580	2,400	783 J	3,060	69.9 J
Manganese	290 QDJ	233 QDJ	214 QDJ	559 QDJ	9.2 QDJ
Mercury	0.26	0.36	<0.10	<0.18	<0.10
Nickel	9.2 JD	13.4 D	10.2 D	20.3 D	2.5 D
Potassium	559 J	512 J	337 J	1,430 J	80.5 J
Selenium	<0.35	<0.35	<0.28	<0.38	<0.24
Silver	2.3 J	8.6 D	43.4 D	46.2 D	<0.46
Sodium	<255	<237	201	<270	<199
Thallium	<0.53	<0.51	<0.38	<0.58	<0.30
Vanadium	25.6 D	39.3 D	14.5 D	35.2 D	1.1 JD
Zinc	144 D	260 D	288 D	461 D	3.7 JD
Cyanide	<0.78	<0.85	2.3	4.1	<0.62

All results in milligrams per kilogram (mg/kg).

- J Estimated value.
- Q Spiked sample recovery not within control limits.
- W Post-digest spike recovery not within control limits.
- D Duplicate analysis not within control limits.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 8. Concentrations of Total Metals and Cyanide Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-7	B-8	B-8	B-9	B-9
Sample Type:	S/N*	S	N	S	N
Sample Depth (ft):	0-2	0-2	2-4	0-4	4-6
Sample Date:	9/29	9/29	9/29	10/4	10/4
Parameter (mg/kg)					
Aluminum	1,310 D	16,600 D	1,030 D	44,700 D	972 D
Antimony	<5.8	<7.8	<5.3	<24.9	<5.6
Arsenic	1.0 J	13.3	<0.60	20.1 QJ	<1.1
Barium	<9.5	139	<8.6	461	13.5
Beryllium	<0.14	0.98 JD	<0.13	3.3 J	<0.14
Cadmium	2.8 QJ	55.9 QJ	1.3 JQ	180 QDJ	1.3 QDJ
Calcium	1,620	4,090	112 J	9,530 D	110 JD
Chromium	299	1,260	63.8	7,250 QDJ	65.3 QDJ
Cobalt	1.2 D	12.2 D	<1.0	29.6 J	<11
Copper	16.1	81.7	3.9 J	556 D	4.1 JD
Iron	1,420 D	17,200 D	922 D	42,900 D	1,490 D
Lead	18.1 D	208 D	9.3 D	864	4.9
Magnesium	968 J	2,390	111 J	3,460 JD	100 JD
Manganese	25.6 QDJ	324 QDJ	18.0 QDJ	1,520 QDJ	21.7 QDJ
Mercury	<0.11	0.95	0.46	6.4	<0.10
Nickel	<2.6	18.6 D	<2.3	58.6 D	<2.5
Potassium	134	822 J	127 J	1,300 J	<65.3
Selenium	<0.23	0.35 JWQ	<0.22	<1.1	<0.27
Silver	2.4 D	60.7 D	1.2 JD	357 D	0.50 JD
Sodium	<199	307 J	<182	<857	<194
Thallium	<0.36	<0.62	<0.36	<1.9	<0.55
Vanadium	4.1 JD	32.4 D	<0.84	96.5	2.0 J
Zinc	46.4 D	478 D	30.1 D	7,470 QDJ	32.8 QDJ
Cyanide	1.4	<1.0	<0.59	24.8	0.62

All results in milligrams per kilogram (mg/kg).

- J Estimated value.
- Q Spiked sample recovery not within control limits.
- W Post-digest spike recovery not within control limits.
- D Duplicate analysis not within control limits.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

ıble 8. Concentrations of Total Metals and Cyanide Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-10	B-10	B-11	B-11	B-12
Sample Type:	S	N	S	N	S
Sample Depth (ft):	0-4	4-6	0-4	4-6	0-5
Sample Date:	10/5	10/5	10/5	10/5	10/6
Parameter (mg/kg)					
Aluminum	34,700 D	1,080 D	35,900 D	3,710 D	13,600 D
Antimony	<30.2	<5.9	<11.1	<5.6	9.6 J
Arsenic	15.9 QJ	<1.2	34.4 SQJ	1.4 JQ	<1.9
Barium	297	8.7 JD	174	21.7 J	22.0 JD
Beryllium	4.1 J	<0.14	1.3 J	0.17 J	<0.21
Cadmium	267 QDJ	3.0 QDJ	2.6 QDJ	3.6 QDJ	57.7 QDJ
Calcium	13,900 D	263 JD	1,520 JD	443 JD	499 JD
Chromium	11,400 QDJ	169 QDJ	26.7 QDJ	185 QDJ	6,280 QDJ
Cobalt	29.5 J	1.4 J	12.8 J	2.0 J	5.3 J
Copper	779 D	9.0 D	78.5 D	16.8 D	1,010 D
Iron	47,600 D	1,940 D	22,800 D	3,710 D	2,320 D
Lead	740 QDJ	15.3	34.4 S	19.8	108 QDJ
Magnesium	5,500 JD	154 JD	1,600 JD	330 JD	1,330 JD
Manganese	1,730 QDJ	38.2 QDJ	432 QDJ	72.1 QDJ	124 QDJ
Mercury	5.4	<0.09	0.25	0.22	<0.16
Nickel	90.2 D	3.7 JD	15.6 JD	3.3 JD	13.0 JD
Potassium	894 J	95.1 J	867 J	205 J	<100
Selenium	<1.5	<0.28	1.4 JWQ	0.26 JQ	<0.45
Silver	360 D	5.4 D	<0.89	4.7 D	2.0 JD
Sodium	<1040	<203	481 J	<192	<298
Thallium	<2.8	<0.53	<1.1	<0.54	<0.77
Vanadium	142	3.3 J	33.0	7.9 J	17.4
Zinc	3,840 QDJ	66.6 QDJ	149 QDJ	85.9 QDJ	2,370 QDJ
Cyanide	116	1.7	3.2	3.6	10.2

All results in milligrams per kilogram (mg/kg).

- J Estimated value.
- Q Spiked sample recovery not within control limits.
- W Post-digest spike recovery not within control limits.
- D Duplicate analysis not within control limits.
- S Sediment.
- N Native soil.
- • Designates dominant component of composite sample.

Table 8. Concentrations of Total Metals and Cyanide Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-12	B-12	B-13	B-13	B-13
Sample Type:	S	N	S	S	N
Sample Depth (ft):	5-7	7-9	0-5	5-9	9-11
Sample Date:	10/6	10/6	10/6	10/6	10/6
Parameter (mg/kg)					
Aluminum	21,400 D	3,210 D	19,900 D	12,000 D	3,240 D
Antimony	<20.5	<7.8	<13.3	<9.4	<5.2
Arsenic	12.7 QJ	2.8 J	10.4 QJ	4.2 QJ	1.5 JWQ
Barium	316	24.3 JD	125	91.5	31.6 JD
Beryllium	<0.49	<0.19	0.70 J	0.89 J	<0.13
Cadmium	252 QDJ	5.6 QDJ	57.6 QDJ	45.9 QDJ	9.4 QDJ
Calcium	103,000 D	9,960 D	18,000 D	18,900 D	12,600 D
Chromium	6,740 D	248 QDJ	8,010 QDJ	4,420 QDJ	630 QDJ
Cobalt	27.3 J	2.4 J	18.2 J	10.5 J	3.1 J
Copper	217 D	16.4 D	666 D	294 D	38.0 D
Iron	49,700 D	4,880 D	42,400 D	26,000 D	7,930 D
Lead	374 QDJ	73.4 QDJ	289 QDJ	212 QDJ	37.3
Magnesium	9,940 D	895 JD	5,270 D	3,450 D	2,820 D
Manganese	1,290 QDJ	85.8 QDJ	894 QDJ	500 QDJ	156 QDJ
Mercury	5.2	0.48	1.4	1.1	0.23
Nickel	42.5 D	5.4 JD	39.1 D	25.6 D	6.1 JD
Potassium	578 J	327 J	475 J	312 J	191 J
Selenium	<0.86	<0.38	<0.64	<0.42	<0.22
Silver	139 D	5.0 D	106 D	62.1 D	10.9 D
Sodium	<707	<268	<458	<322	<180
Thallium	<2.0	<0.85	<0.96	<0.43	<0.38
Vanadium	84.8	8.2 J	63.1 J	34.5	11.0
Zinc	2,500 QDJ	97.1 QDJ	2,680 QDJ	1,400 QDJ	209 QDJ
Cyanide	41.6	9.2	17.4	14.2	4.4

All results in milligrams per kilogram (mg/kg).

- J Estimated value.
- Q Spiked sample recovery not within control limits.
- W Post-digest spike recovery not within control limits.
- D Duplicate analysis not within control limits.
- S Sediment.
- N Native soil.
- • Designates dominant component of composite sample.

ıble 8. Concentrations of Total Metals and Cyanide Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-14	B-14	B-14	B-15	B-15
Sample Type:	S	S	S/N*	S	S
Sample Depth (ft):	0-8	8-13	13-19	0-7	7-10
Sample Date:	10/7	10/7	10/7	10/10	10/10
Parameter (mg/kg)					
Aluminum	24,600 D	10,400 D	476 D	30,300	29,300
Antimony	<14.8	<8.1	<4.9	15.6 J	14.4 J
Arsenic	7.0 SQJ	6.7 QJ	<0.55	9.9 QJ	11.3 QJ
Barium	93.8 JD	123	<8.1	168	<23.2
Beryllium	0.95 JQD	<0.20	<0.12	3.3	5.9
Cadmium	50.2 QDJ	63.8 QDJ	<0.46	59.5	63.9
Calcium	6,360 D	18,400 D	165 JD	30,600	24,700
Chromium	4,880 QDJ	2,370 QDJ	16.7 QDJ	9,250	8,550
Cobalt	13.5 J	10.3 J	<0.99	21.4 J	18.7 J
Copper	494 D	95.3 D	<2.6	1,130	1,040
Iron	22,900 D	25,000 D	1,430 D	43,600	39,400
ıd	257 QDJ	234 QDJ	1.6	368	358
Magnesium	4,150 D	3,220 D	91.4 JD	8,860	8,110
Manganese	384 QDJ	658 QDJ	10.9 QDJ	1,220	978
Mercury	0.71	0.54	<0.10	1.2	0.78
Nickel	41.3 D	23.6 D	<2.2	53.8	55.9
Potassium	697 J	569 J	<57.4	714 J	550 J
Selenium	0.70 J	<0.36	0.75 JQ	<0.75	0.99 JQ
Silver	24.5 D	86.5 D	<0.40	149 D	78.3 D
Sodium	<509	505 J	<170	859 J	812 J
Thallium	<0.90	<0.56	<0.33	<1.6	<1.3
Vanadium	85.1	32.3	1.2 J	57.1	60.0
Zinc	1,400 QDJ	968 QDJ	6.5 QDJ	4,240	3,820
Cyanide	30.0	14.7	<0.65	84.0	44.0

All results in milligrams per kilogram (mg/kg).

- J Estimated value.
- Q Spiked sample recovery not within control limits.
- W Post-digest spike recovery not within control limits.
- D Duplicate analysis not within control limits.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 8. Concentrations of Total Metals and Cyanide Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-15	B-16	B-16	B-16
Sample Type:	N	S	S	N
Sample Depth (ft):	10-17	0-5	5-7	7-11
Sample Date:	10/10	10/10	10/10	10/10
Parameter (mg/kg)				
Aluminum	25,500	34,600	26,700	659
Antimony	13.8 J	<16.4	<12.3	<5.7
Arsenic	13.3 QJ	13.4 QJ	12.1 QJ	<0.60
Barium	420	198	151	<9.4
Beryllium	<0.31	4.6	6.4	<0.14
Cadmium	85.5	66.0	56.4	<0.46
Calcium	24,400	18,800	14,300	123 J
Chromium	3,840	8,010	5,440	8.5
Cobalt	22.4 J	22.8 J	15.4 J	<1.1
Copper	333	970	865	<3.0
Iron	48,500	46,600	30,400	1,450
Lead	686	422	348	<4.8
Magnesium	7,640	7,030	5,530	110 J
Manganese	982	959	625	26.5
Mercury	2.3	1.2	0.66	<0.08
Nickel	47.2	57.7	45.5	<2.5
Potassium	1200 J	754 J	525 J	120 J
Selenium	1.9 JQW	1.4 JQW	0.57 SQJ	<0.24
Silver	115 D	79.8 D	52.9 D	<0.46
Sodium	1210 J	605 J	442 J	<197
Thallium	<1.5	<1.6	<1.1	<0.56
Vanadium	65.8	94.2	74.1	2.2 J
Zinc	1,800	3,650	3,040	8.0
Cyanide	9.5	45.2	53.6	<0.65

All results in milligrams per kilogram (mg/kg).

- J Estimated value.
- Q Spiked sample recovery not within control limits.
- W Post-digest spike recovery not within control limits.
- D Duplicate analysis not within control limits.
- S Sediment.
- N Native soil.
- • Designates dominant component of composite sample.

Table 9. Results of EP Toxicity Testing of Soil Samples Collected from the Old Recharge Basin in September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Parameter (mg/L):				Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
				5.0a	100.0a	1.0a	5.0a	5.0a	0.2a	1.0a	5.0a
Sample Designation	Sample Type	Sample Depth (feet)	Sample Date								
B-1	N	4-7	9/27/88	<1.0	<0.20	0.05	0.01	<0.20	<0.002	<0.5	<0.01
B-2	S	5-7	9/27/88	<1.0	<0.20	0.02	<0.01	<0.20	<0.002	<0.5	<0.01
B-3	S	2-4	9/28/88	<1.0	<0.20	0.02	0.01	<0.20	<0.002	<0.5	<0.01
B-4	S	2-6	9/28/88	<1.0	0.36	0.04	0.02	<0.20	<0.002	<0.5	<0.01
B-5	S/N	2-4	9/28/88	<1.0	<0.20	0.32	<0.01	<0.20	<0.002	<0.5	<0.01
B-6	S	2-4	9/29/88	<1.0	<0.20	<0.01	<0.01	<0.20	<0.002	<0.5	<0.01
B-7	S/N	0-2	9/29/88	<1.0	<0.20	0.02	<0.01	<0.20	<0.002	<0.5	<0.01
B-8	N	2-4	9/29/88	<1.0	<0.20	<0.01	<0.01	<0.20	<0.002	<0.5	<0.01
B-9	N	4-6	10/4/88	<1.0	<0.20	0.02	0.02	<0.20	<0.002	<0.5	<0.01
B-10	N	4-6	10/5/88	<1.0	<0.20	0.01	<0.01	<0.20	<0.002	<0.5	<0.01
B-11	N	4-6	10/5/88	<1.0	<0.20	0.01	<0.01	<0.20	<0.002	<0.5	<0.01
B-12	N	7-9	10/6/88	<1.0	0.38	0.06	0.05	<0.20	<0.002	<0.5	<0.01
B-13	N	9-11	10/6/88	<1.0	0.21	0.04	<0.01	<0.20	<0.002	<0.5	<0.01
B-14	S/N	13-19	10/7/88	<1.0	<0.20	<0.01	<0.01	<0.20	<0.002	<0.5	<0.01
B-15	S/N	10-17	10/10/88	<1.0	0.37	<0.01	0.03	<0.20	<0.002	<0.5	<0.01
B-16	S/N	7-11	10/10/88	<1.0	<0.20	<0.01	<0.01	<0.20	<0.002	<0.5	<0.01

All results in milligrams per liter (mg/L).

a Minimum concentration (mg/L) required for declaring a material hazardous.

S Sediment.

N Native soil.

* Designates dominant component of composite sample.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 9

VALIDATED DATA SUMMARY
SURFACE WATER ANALYTICAL RESULTS FOR TCL VOLATILE ORGANIC COMPOUNDS

Sample Location:	Surf. Water	Groundwater	SW1	SW1	SW1	SW2	SW2	SW3	SW3	SW4	SW4	SW5	SW5	SW6	SW6	
Sample Designation:	Standards	Standards	FRC-SW1-01	FRC-SW1-01	FRC-SW1-01	FRC-SW2-01	FRC-SW2-01	FRC-SW3-01	FRC-SW3-01	FRC-SW4-01	FRC-SW4-01	FRC-SW5-01	FRC-SW5-01	FRC-SW6-01	FRC-SW6-01	FRC-TB-120792
	(1)	(1)	SUR	SUR-DUP	MID	SUR	MID	SUR	MID	SUR	MID	SUR	MID	SUR	MID	
Sample Date:			12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92
Parameter: (Concentrations in ug/l																
Dichlorodifluoromethane	5	5	0.04JC	1.00UC	0.04JC	1.00U	1.00U	1.00U	1.00U	0.06JC	0.03JC	1.00U	0.01JC	0.02JC	0.17J	0.04JC
Chloromethane	5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UJC	1.00UC	1.00UC	1.00UC
Vinyl Chloride	0.3	2	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
Bromomethane	5	5	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC
Chloroethane	5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
Trichlorofloromethane	5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	0.08JC	1.00UC	0.4J	1.00UC
Methylene Chloride	5	5	1.00UC	0.20JC	0.2JC	1.00UC	1.00U	1.00UC	0.30J	0.3JC	.2JC	1.00U	0.22JC	0.2JC	1.00UC	0.6JC
1,1-Dichloroethene	0.7	5	0.2JC	0.20JC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
trans-1,2-Dichloroethene	5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
1,1-Dichloroethane	5	5	0.3JC	0.3JC	0.4JC	0.3J	1.00U	0.3J	0.20J	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
1,2-Dichloropropane	5	5	1.00UC	1.00UC	0.07JC	1.00U	1.00U	1.00U	1.00U	1.00UC	.07JC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
cis-1,2-Dichloroethene	5	5	0.3JC	0.3JC	0.3JC	0.2J	0.2J	0.2J	0.30J	1.1C	1.00UC	0.8J	0.74JC	1C	1.5J	1.00UC
Bromochloromethane	5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
Chloroform	7	7	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	0.2JC
1,1,1-Trichloroethane	5	5	1.8C	2.0C	2.9C	1.5J	1.4J	1.6J	1.3J	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
1,1-Dichloropropene	5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
Carbon Tetrachloride	0.4	5	0.26JC	0.31JC	0.38JC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
Benzene	0.7	0.7	1.00UC	0.08JC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	0.09JC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
1,2-Dichloroethane	0.8	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	0.40JC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
Trichloroethene	5	5	0.3JC	0.4JC	0.6JC	0.2J	0.2J	1.00U	0.20J	0.6JC	0.8JC	0.3J	0.30JC	0.4JC	0.91J	1.00UC
1,2-Dichloropropane	0.5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
Dibromomethane	5	5	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
Bromodichloromethane	50	50	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	5.06J	1.00UC
cis-1,3-Dichloropropene	5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
Toluene	5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	0.11JC	1.00UC	1.00UC	0.16JC
trans-1,3-Dichloropropene	5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
1,1,2-Trichloroethane	0.2	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
Tetrachloroethene	0.7	5	0.2JC	0.2JC	0.4JC	0.2J	0.2J	0.2J	0.20J	1.0C	0.9JC	0.80J	0.61JC	0.9JC	2.0J	1.00UC
1,3-Dichloropropane	5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	0.4JC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC

U - Compound was analyzed for but not detected

J - The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.

C - Laboratory calibration requirements are not met.

(1) - 6 NYCRR 703 Groundwater and Surface Water Standards.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 9

VALIDATED DATA SUMMARY
SURFACE WATER ANALYTICAL RESULTS FOR TCL VOLATILE ORGANIC COMPOUNDS

Sample Location:	Surf. Water	Groundwater	SW1	SW1	SW1	SW2	SW2	SW3	SW3	SW4	SW4	SW5	SW5	SW6	SW6	
Sample Designation:	Standards	Standards	FRC-SW1-01	FRC-SW1-01	FRC-SW1-01	FRC-SW2-01	FRC-SW2-01	FRC-SW3-01	FRC-SW3-01	FRC-SW4-01	FRC-SW4-01	FRC-SW5-01	FRC-SW5-01	FRC-SW6-01	FRC-SW6-01	FRC-TB-120792
	(1)	(1)	SUR	SUR-DUP	MID	SUR	MID	SUR	MID	SUR	MID	SUR	MID	SUR	MID	
Sample Date:			12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92
Parameter: (Concentrations in ug/l																
Dibromochloromethane	50	50	0.5JC	0.68JC	0.89JC	1.00U	1.00U	1.00U	1.00U	2.59JC	2.08JC	1.00U	1.65JC	2.49JC	1.00UC	1.00UC
1,2-Dibromoethane	5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
Chlorobenzene	20	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
1,1,1,2-Tetrachloroethane	5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
Ethylbenzene	5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	0.06JC	0.08JC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
meta and/or para-Xylene	tot 5	tot 5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
ortho-Xylene	tot 5	tot 5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
Styrene	50	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
Bromoform	50	50	1.00UC	1.00UC	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	0.63J	1.00UC
Isopropylbenzene	5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
Bromobenzene	5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
1,1,2,2-Tetrachloroethane	5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
1,2,3-Trichloropropane	5	5	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
Propylbenzene	5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
2-Chlorotoluene	5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	0.06JC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
4-Chlorotoluene	5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
1,3,5-Trimethylbenzene	5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	0.08JC	0.08JC	0.06J	0.06JC	1.00UC	1.00UC	1.00UC
tert-Butylbenzene	5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
1,2,4-Trimethylbenzene	5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	0.09JC	1.00U	0.06JC	1.00UC	1.00UC	1.00UC
sec-Butylbenzene	5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
1,3-Dichlorobenzene	20	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	0.2JC	0.21JC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
p-Isopropyltoluene	5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
1,4-Dichlorobenzene	30	4.7	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	0.20JC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
1,2-Dichlorobenzene	30	4.7	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	0.36JC	0.31JC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
Butylbenzene	5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.00UC	1.00UC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
1,2-Dibromo-3-Chloropropane	0.2	5	0.85JC	1.63JC	3.07JC	1.00UC	1.00UC	1.00UC	1.00UC	3.75JC	3.55JC	1.00U	0.89JC	1.50JC	1.00UC	0.17JC
1,2,4-Trichlorobenzene	5	5	1.00UC	1.00UC	0.2JC	1.00U	1.00U	1.00U	1.00U	1.7C	1.0JC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
Hexachlorobutadiene	0.5	5	1.00UC	0.08JC	1.00UC	1.00U	1.00U	1.00U	1.00U	1.1C	1.0JC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
Naphthalene	10	10	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	0.9JC	0.8JC	1.00U	1.00UC	1.00UC	1.00UC	1.00UC
1,2,3-Trichlorobezene	5	5	1.00UC	1.00UC	1.00UC	1.00U	1.00U	1.00U	1.00U	2.2C	1.6C	1.00U	1.00UC	1.00UC	1.00UC	1.00UC

U - Compound was analyzed for but not detected
J - The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.
C - Laboratory calibration requirements are not met.
(1) - 6 NYCRR 703 Groundwater and Surface Water Standards.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 9

VALIDATED DATA SUMMARY
SURFACE WATER ANALYTICAL RESULTS FOR TCL VOLATILE ORGANIC COMPOUNDS

Sample Location:	Surf. Water	Groundwater	SW1	SW1	SW2	SW2	SW3	SW3	SW4	SW4	SW5	SW5	SW6	SW6	SW6
Sample Designation:	Standards	Standards	FRC-SW1-02	FRC-SW1-02	FRC-SW2-02	FRC-SW2-02	FRC-SW3-02	FRC-SW3-02	FRC-SW4-02	FRC-SW4-02	FRC-SW5-02	FRC-SW5-02	FRC-SW6-02	FRC-SW6-02	FRC-SW6-02
	(1)	(1)	SUR	MID	SUR	MID	SUR	MID	SUR	MID	SUR	MID	SUR	SUR-DUP	MID
Sample Date:			3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93
Parameter: (Concentrations in ug/l															
Chloromethane	5	5	0.28JC	0.16JC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	0.2J	1.00UC	1.00U	0.1JC	1.00UC	1.00UC
Vinyl Chloride	0.3	2	0.10JC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00U	1.00UC	1.00U	0.1JC	1.00UC	1.00UC
Bromomethane	5	5	1.00UC	0.17JC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	0.2J	1.00UC	1.00U	0.1JC	1.00UC	1.00UC
Chloroethane	5	5	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00U	1.00UC	1.00U	1.00UC	1.00UC	1.00UC
Acetone	50	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	5	5	0.18JC	0.14JC	1.00UC	0.2JBC	1.00UC	1.00UC	0.2JBC	1.00UC	0.3JBC	1.00UC	1.00UC	0.29JC	1.00UC
1,1-Dichloroethene	0.7	5	0.4JC	0.4JC	1.00UC	0.3JC	1.00UC	0.3JC	1.00UC	1.00J	0.1JC	1.00U	1.00UC	0.13JC	0.18JC
trans-1,2-Dichloroethene	5	5	0.09UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC
1,1-Dichloroethane	5	5	0.2JC	0.13JC	1.00UC	0.08UC	1.00UC	1.00UC	1.00UC	0.2U	1.00UC	1.00U	0.1JC	1.00UC	0.2JC
Carbon Disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	5	5	0.4JC	0.37JC	1.00UC	0.3JC	0.3JC	0.4JC	0.7JC	1	0.6JC	0.9J	0.6JC	0.8JC	0.7JC
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	7	7	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00U	1.00UC	1.00U	1.00UC	1.00UC	1.00UC
1,1,1-Trichloroethane	5	5	1C	2C	0.6JC	1	0.6JC	2C	0.4U	0.8J	0.4JC	0.6J	0.2JC	0.3JC	0.4JC
Vinyl Acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	0.4	5	0.16JC	0.27JC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00U	1.00UC	1.00U	1.00UC	1.00UC	1.00UC
Benzene	0.7	0.7	0.1JC	0.10JC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	0.1J	1.00UC	0.1J	0.1JC	0.2JC	0.2JC
1,2-Dichloroethane	0.8	5	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00U	1.00UC	1.00U	1.00UC	1.00UC	1.00UC
Trichloroethene	5	5	0.4JC	0.3JC	1.00UC	0.30JC	0.3JC	0.3JC	0.6JC	0.7J	0.5JC	0.5J	0.5JC	0.6JC	0.6JC
1,2-Dichloropropane	5	5	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00U	1.00UC	1.00U	1.00UC	1.00UC	1.00UC
4-Methyl-2-pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	50	50	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00U	1.00UC	1.00U	1.00UC	1.00UC	1.00UC
cis-1,3-Dichloropropene	5	5	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00U	1.00UC	1.00U	1.00UC	1.00UC	1.00UC
Toluene	5	5	0.2JBC	0.1JBC	1.00UC	0.1JBC	1.00UC	1.00UC	0.1JBC	0.1JB	0.1JBC	1.00U	1.00UC	1.00UC	1.00UC
trans-1,3-Dichloropropene	5	5	1.00UC	0.12JC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00U	1.00UC	1.00U	1.00UC	1.00UC	1.00UC
1,1,2-Trichloroethane	0.2	5	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00U	1.00UC	1.00U	1.00UC	1.00UC	1.00UC
Tetrachloroethene	0.7	5	0.7JC	0.6JC	0.6JC	0.5JC	0.6JC	0.7JC	2C	2	2C	1	2C	2C	2.12JC
2-Hexanone	50	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	5	5	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	2.45JC	1.00UC	1.00U	1.00UC	1.00U	1.00UC	1.00UC	7.76JC
Chlorobenzene	20	5	0.11JC	0.17JC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00U	1.00UC	1.00U	1.00UC	1.00UC	1.00UC
Ethyilbenzene	5	5	0.1JBC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00U	1.00UC	1.00U	1.00UC	1.00UC	1.00UC
meta and/or para-Xylene	tot 5	tot 5	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00U	1.00UC	1.00U	1.00UC	1.00UC	1.00UC
ortho-Xylene	tot 5	tot 5	0.12JC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00U	1.00UC	1.00U	1.00UC	1.00UC	1.00UC
Styrene	5	50	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00U	1.00UC	1.00U	1.00UC	1.00UC	1.00UC
Bromoform	50	50	1.00UC	0.16JC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00U	1.00UC	0.1J	1.00UC	1.00UC	1.00UC
1,1,2,2-Tetrachloroethane	5	5	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00UC	1.00U	1.00UC	1.00U	1.00UC	1.00UC	1.00UC

U - Compound was analyzed for but not detected
J - The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.
B - The analyte is found in the blanks as well as the sample.
C - Laboratory calibration requirements are not met.
NA - Not available
(1) - 6 NYCRR 703 Groundwater and Surface Water Standards.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 9

VALIDATED DATA SUMMARY
SURFACE WATER ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS

Sample Location:	SW1	SW1	SW1	SW2	SW2	SW3	SW3	SW4	SW4	SW5	SW5	SW6	SW6	
Sample Designation:	FRC-SW1-01	FRC-SW1-01	FRC-SW1-01	FRC-SW2-01	FRC-SW2-01	FRC-SW3-01	FRC-SW3-01	FRC-SW4-01	FRC-SW4-01	FRC-SW5-01	FRC-SW5-01	FRC-SW6-01	FRC-SW6-01	FRC-TB-120792
	SUR	SUR-DUP	MID	SUR	MID	SUR	MID	SUR	MID	SUR	MID	SUR	MID	
Sample Date:	12/7/92	12/7/92	12/10/92	12/7/92	12/7/92	12/7/92	12/10/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92
Tentatively Identified Compounds (TICs) (Concentrations in ug /l)														
total unknowns	1J	ND	2J	ND	ND	ND	ND	5J	ND	ND	3J	ND	2J	ND
total unknown siloxanes	ND	2J	2J	ND	ND	ND	ND	1J	3J	3J	1J	1J	3J	1J
total unknown branched alkanes	ND	1J	1J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
total unknown alkylbenzenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5J	ND	4J
1,1,2-trichloroflouroethane	1JN	1JN	1JN	ND	ND	ND	ND	ND	1JN	ND	ND	ND	2JN	ND
unknown trichlorobenzene isomer	ND	ND	ND	ND	ND	ND	ND	1J	ND	ND	ND	ND	ND	ND

Sample Location:	SW1	SW1	SW2	SW3	SW3	SW-4	SW4	SW5	SW5	SW6	SW6	SW6		
Sample Designation:	FRC-SW1-02	FRC-SW1-02	FRC-SW2-02	FRC-SW3-02	FRC-SW3-02	FRC-SW4-02	FRC-SW4-02	FRC-SW5-02	FRC-SW5-02	FRC-SW6-02	FRC-SW6-02	FRC-SW6-02	FRC-RB-1	FRC-RB-01
	SUR	MID	MID	SUR	MID	MID	SUR	SUR	MID	SUR	SUR-DUP	MID		
Sample Date:	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	12/3/92	12/7/92
Tentatively Identified Compounds (TICs) (Concentrations in ug /l)														
total unknown siloxanes	ND	3J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5J
total unknown branched alkanes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1J	ND	ND
unknown alkene	ND	ND	ND	ND	ND	ND	1J	ND	ND	ND	ND	ND	ND	ND
total unknown alkylbenzenes	ND	ND	ND	ND	ND	ND	ND	2J	ND	ND	ND	ND	ND	3J

ND - Not detected
J - The concentration listed is an estimated value, which is less than the specified minumum detection limit but is greater than zero.
N - Compound was analyzed for but not requested as an analyte

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN R.I.
EAST FARMINGDALE, NEW YORK

TABLE 10

VALIDATED DATA SUMMARY
SURFACE WATER ANALYTICAL RESULTS FOR TCL SEMIVOLATILE ORGANIC COMPOUNDS

Sample Location:	Surf. Water	Groundwater	SW1	SW1	SW1	SW2	SW2	SW3	SW3	SW4	SW4	SW5	SW5	SW6	SW6	
Sample Designation:	Standards	Standards	FRC-SW1-01	FRC-SW1-01	FRC-SW1-01	FRC-SW2-01	FRC-SW2-01	FRC-SW3-01	FRC-SW3-01	FRC-SW4-01	FRC-SW4-01	FRC-SW5-01	FRC-SW5-01	FRC-SW6-01	FRC-SW6-01	FRC-RB-01
	(1)	(1)	SUR	SUR-DUP	MID	SUR	MID	SUR	MID	SUR	MID	SUR	MID	SUR	MID	
Sample Date:			12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92
Parameter: (Concentrations in ug/l																
Phenol			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chlorophenol)ether			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
Isophorone			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	10	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	0.9J
4-Chloroaniline			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol			26 U	26 U	28 U	26 U	26 U	25 U	26 U	26 UC	26 U	26 U	26 U	25 U	26 U	26 U
2-Chloronaphthalene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline			26 U	26 U	28 U	26 U	26 U	25 U	26 U	26 UC	26 U	26 U	26 U	25 U	26 U	26 U
Dimethylphthalate			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline			26 U	26 U	28 U	26 U	26 U	25 U	26 U	26 UC	26 U	26 U	26 U	25 U	26 U	26 U
Acenaphthene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U

U - Compound was analyzed for but not detected.

J - The concentration is an estimated value, which is less than the specified detection limit but is greater than zero.

C - Laboratory calibration requirements are not met.

(1) - 6 NYCRR 703 Groundwater and Surface Water Standards. The standard is listed only if the compound was detected.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN R.I.
EAST FARMINGDALE, NEW YORK

TABLE 10

VALIDATED DATA SUMMARY
SURFACE WATER ANALYTICAL RESULTS FOR TCL SEMIVOLATILE ORGANIC COMPOUNDS

Sample Location:	Surf. Water	Groundwater	SW1	SW1	SW1	SW2	SW2	SW3	SW3	SW4	SW4	SW5	SW5	SW6	SW6	
Sample Designation:	Standards	Standards	FRC-SW1-01	FRC-SW1-01	FRC-SW1-01	FRC-SW2-01	FRC-SW2-01	FRC-SW3-01	FRC-SW3-01	FRC-SW4-01	FRC-SW4-01	FRC-SW5-01	FRC-SW5-01	FRC-SW6-01	FRC-SW6-01	FRC-RB-01
	(1)	(1)	SUR	SUR-DUP	MID	SUR	MID	SUR	MID	SUR	MID	SUR	MID	SUR	MID	
Sample Date:			12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92
Parameter: (Concentrations in ug/l)																
2,4-Dinitrophenol			26 U	26 U	28 U	26 U	26 U	25 U	26 U	26 UC	26 U	26 U	26 U	25 U	26 U	26 U
4-Nitrophenol			26 U	26 U	28 U	26 U	26 U	25 U	26 U	26 UC	26 U	26 U	26 U	25 U	26 U	26 U
Dibenzofuran			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	50	50	10 U	10 U	0.2J	0.2J	0.3J	0.2J	0.2J	0.2JB	11 U	0.2J	0.2J	10 U	10 U	10 U
4-Chlorophenyl-phenylether			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
Flourene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline			26 U	26 U	28 U	26 U	26 U	25 U	26 U	26 UC	26 U	26 U	26 U	25 U	26 U	26 U
4,6-Dinitro-2-methylphenol			26 U	26 U	28 U	26 U	26 U	25 U	26 U	26 UC	26 U	26 U	26 U	25 U	26 U	26 U
N-Nitrosodiphenylamine			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol			26 U	26 U	28 U	26 U	26 U	25 U	26 U	26 UC	26 U	26 U	26 U	25 U	26 U	26 U
Phenanthrene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
Anthracene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
Carbazole			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	50	50	0.2JB	10 U	2JB	0.2JB	0.4JB	0.2JB	0.2JB	0.2J	0.2JB	0.2JB	10 U	10 U	10 U	10 U
Fluoranthene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
Pyrene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
Chrysene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	4	50	0.5JB	1JB	0.7JB	0.6JB	4JB	0.6JB	0.6JB	1JB	0.6JB	0.7JB	2JB	1J	0.9J	2J
Di-n-octylphthalate	50	50	10 U	10 U	11 U	10 U	0.4J	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene			10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 UC	11 U	10 U	10 U	10 U	10 U	10 U

U - Compound was analyzed for but not detected.

J - The concentration is an estimated value, which is less than the specified detection limit but is greater than zero.

C - Laboratory calibration requirements are not met.

B - The analyte is is found in the blanks as well as the sample.

(1) - 6 NYCRR 703 Groundwater and Surface Water Standards. The standard is listed only if the compound was detected.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN R.I.
EAST FARMINGDALE, NEW YORK

TABLE 10

VALIDATED DATA SUMMARY
SURFACE WATER ANALYTICAL RESULTS FOR TCL SEMIVOLATILE ORGANIC COMPOUNDS

Sample Location:	Surf. Water	Groundwater	SW1	SW1	SW2	SW2	SW3	SW3	SW4	SW4	SW5	SW5	SW6	SW6	SW6
Sample Designation:	Standards	Standards	FRC-SW1-02	FRC-SW1-02	FRC-SW2-02	FRC-SW2-02	FRC-SW3-02	FRC-SW3-02	FRC-SW4-02	FRC-SW4-02	FRC-SW5-02	FRC-SW5-02	FRC-SW6-02	FRC-SW6-02	FRC-SW6-02
	(1)	(1)	SUR	MID	SUR	MID	SUR	MID	SUR	MID	SUR	MID	SUR	SUR-DUP	MID
Sample Date:			3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93
Parameter: (Concentrations in ug/l)															
Phenol			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
bis(2-Chloroethyl)ether			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
2-Chlorophenol	NA	NA	10 U	11 U	0.3J	11 U	10 U	11 U	0.3J	11 U	10 U	11 U	0.3J	10 U	11 U
1,3-Dichlorobenzene			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
1,4-Dichlorobenzene			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
1,2-Dichlorobenzene			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
2-Methylphenol			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
N-Nitroso-di-n-propylamine			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
Hexachloroethane			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
Nitrobenzene			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
Isophorone			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
2-Nitrophenol			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
2,4-Dimethylphenol			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
bis(2-Chloroethoxy)methane			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
2,4-Dichlorophenol			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
1,2,4-Trichlorobenzene			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
Naphthalene	10	10	10 U	11 U	10 U	11 U	10 U	11 U	0.1J	11 U	10 U	11 U	10 U	10 U	11 U
4-Chloroaniline			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
Hexachlorobutadiene			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
4-Chloro-3-methylphenol			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
2-Methylnaphthalene			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
Hexachlorocyclopentadiene			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
2,4,6-Trichlorophenol			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
2,4,5-Trichlorophenol			26 U	28 U	26 U	28 U	25 U	27 U	26 U	28 U	26 U	28 U	26 U	26 U	27 U
2-Chloronaphthalene			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
2-Nitroaniline			26 U	28 U	26 U	28 U	25 U	27 U	26 U	28 U	26 U	28 U	26 U	26 U	27 U
Dimethylphthalate			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
Acenaphthylene			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
2,6-Dinitrotoluene			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
3-Nitroaniline			26 U	28 U	26 U	28 U	25 U	27 U	26 U	28 U	26 U	28 U	26 U	26 U	27 U
Acenaphthene			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U

U - Compound was analyzed for but not detected.
J - The concentration is an estimated value, which is less than the specified detection limit but is greater than zero.
C - Laboratory calibration requirements are not met.
(1) - 6 NYCRR 703 Groundwater and Surface Water Standards. The standard is listed only if the compound was detected.
NA - Not Applicable

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN R.I.
EAST FARMINGDALE, NEW YORK

TABLE 10

VALIDATED DATA SUMMARY
SURFACE WATER ANALYTICAL RESULTS FOR TCL SEMIVOLATILE ORGANIC COMPOUNDS

Sample Location:	Surf. Water	Groundwater	SW1	SW1	SW2	SW2	SW3	SW3	SW4	SW4	SW5	SW5	SW6	SW6	SW6
Sample Designation:	Standards	Standards	FRC-SW1-02	FRC-SW1-02	FRC-SW2-02	FRC-SW2-02	FRC-SW3-02	FRC-SW3-02	FRC-SW4-02	FRC-SW4-02	FRC-SW5-02	FRC-SW5-02	FRC-SW6-02	FRC-SW6-02	FRC-SW6-02
	(1)	(1)	SUR	MID	SUR	MID	SUR	MID	SUR	MID	SUR	MID	SUR	SUR-DUP	MID
Sample Date:			3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93
Parameter: (Concentrations in ug/l															
2,4-Dinitrophenol			26 U	28 U	26 U	28 U	25 U	27 U	26 U	28 U	26 U	28 U	26 U	26 U	27 U
4-Nitrophenol			26 U	28 U	26 U	28 U	25 U	27 U	26 U	28 U	26 U	28 U	26 U	26 U	27 U
Dibenzofuran			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
2,4-Dinitrotoluene			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
Diethylphthalate	50	50	0.1JB	0.2JB	1JB	0.2JB	0.2JB	0.2JB	1JB	1JB	1JB	0.3JB	1JB	10 U	0.2JB
4-Chlorophenyl-phenylether			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
Fluorene			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
4-Nitroaniline			26 U	28 U	26 U	28 U	25 U	27 U	26 U	28 U	26 U	28 U	26 U	26 U	27 U
4,6-Dinitro-2-methylphenol			26 U	28 U	26 U	28 U	25 U	27 U	26 U	28 U	26 U	28 U	26 U	26 U	27 U
N-Nitrosodiphenylamine(1)			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
4-Bromophenyl-phenylether			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
Hexachlorobenzene			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
Pentachlorophenol			26 U	28 U	26 U	28 U	25 U	27 U	26 U	11 U	26 U	28 U	26 U	26 U	27 U
Phenanthrene			10 U	11 U	0.1J	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
Anthracene			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
Carbazole			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
Di-n-butylphthalate	50	50	0.3JB	0.3JB	0.4JB	0.3JB	0.3JB	0.2JB	0.3JB	0.3JB	0.3JB	0.3JB	0.3JB	0.3JB	0.4JB
Fluoranthene			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
Pyrene	50	50	10 U	11 U	0.1J	11 U	10 U	11 U	0.1J	11 U	10 U	11 U	10 U	10 U	11 U
Butylbenzylphthalate	50	50	10 U	11 U	10 U	11 U	10 U	11 U	0.2J	0.3J	0.2J	11 U	10 U	0.2J	0.2J
3,3'-Dichlorobenzidine			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
Benzo(a)anthracene			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
Chrysene			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
bis(2-Ethylhexyl)phthalate	50	50	0.9JB	0.7JB	0.9JB	1JB	1JB	0.4JB	0.9JB	1JB	1JB	2JB	1JB	0.8JB	1JB
Di-n-octylphthalate	50	50	10 U	0.8J	10 U	11 U	10 U	11 U	10 U	11 U	0.2J	11 U	0.2J	10 U	11 U
Benzo(b)fluoranthene			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
Benzo(k)fluoranthene			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
Benzo(a)pyrene			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
Indeno(1,2,3-cd)pyrene			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
Dibenzo(a,h)anthracene			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U
Benzo(g,h,i)perylene			10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	11 U	10 U	10 U	11 U

U - Compound was analyzed for but not detected.

J - The concentration is an estimated value, which is less than the specified detection limit but is greater than zero.

C - Laboratory calibration requirements are not met.

B - The analyte is is found in the blanks as well as the sample.

(1) - 6 NYCRR 703 Groundwater Standards. The standard is listed only if the compound was detected.

** - 6 NYCRR 703 Guidance Value.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN R.I.
EAST FARMINGDALE, NEW YORK

TABLE 10

VALIDATED DATA SUMMARY
SURFACE WATER ANALYTICAL RESULTS FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample Location:	SW1	SW1	SW1	SW2	SW2	SW3	SW3	SW4	SW4	SW5	SW5	SW6	SW6	
Sample Designation:	FRC-SW1-01	FRC-SW1-01	FRC-SW1-01	FRC-SW2-01	FRC-SW2-01	FRC-SW3-01	FRC-SW3-01	FRC-SW4-01	FRC-SW4-01	FRC-SW5-01	FRC-SW5-01	FRC-SW6-01	FRC-SW6-01	FRC-RB-01
	SUR	SUR-DUP	MID	SUR	MID	SUR	MID	SUR	MID	SUR	MID	SUR	MID	
Sample Date:	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92
Tentatively Identified Compounds (TICs) (Concentrations in ug/l)														
Total unknown	79J	ND	ND	ND	ND	ND	16J	ND	ND	ND	12J	ND	ND	7J
Unknown phthalate	ND	ND	2J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexanoic acid, 6-amino	ND	ND	ND	ND	3JN	ND	ND	ND	3JN	ND	3J	ND	ND	ND
Unknown siloxane	ND	ND	ND	ND	ND	ND	ND	2J	ND	ND	ND	ND	ND	ND
Total unknown alkane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9J	ND	ND	ND
Ethanol, 2-butoxy-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5JN
Total unknown amide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6J
Unknown C8H8O3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3J

Sample Location:	SW1	SW1	SW2	SW2	SW3	SW3	SW4	SW4	SW5	SW5	SW6	SW6	SW6
Sample Designation:	FRC-SW1-02	FRC-SW1-02	FRC-SW2-02	FRC-SW2-02	FRC-SW3-02	FRC-SW3-02	FRC-SW4-02	FRC-SW4-02	FRC-SW5-02	FRC-SW5-02	FRC-SW6-02	FRC-SW6-02	FRC-SW6-02
	SUR	MID	SUR	MID	SUR	MID	SUR	MID	SUR	MID	SUR	SUR-DUP	MID
Sample Date:	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93
Tentatively Identified Compounds (TICs) (Concentrations in ug/l)													
Total unknown	97J	7J	ND	11J	67J	ND	15J	2J	80J	121J	13J	7J	ND
Total unknown alkane	12J	ND	3J	ND	6J	ND	ND	ND	13J	9J	3J	6J	4J
Total unknown amide	ND	ND	9J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclopentasiloxane, decamethyl	ND	ND	ND	ND	ND	ND	ND	3JN	ND	ND	ND	ND	ND

J - Indicates that the compound was analyzed for and determined to be present in the sample. The concentration listed is an estimated value.
N - Indicates that the compound was analyzed for but not requested as an analyte. Value will not be listed on a tabular result sheet.
ND - Not Detected

FAIRCHILD INDUSTRIES INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 11

VALIDATED DATA SUMMARY
SURFACE WATER ANALYTICAL WATER RESULTS FOR TCL PESTICIDES AND PCBs

Sample Location:	Surf. Water	Groundwater	SW1	SW1	SW1	SW2	SW2	SW3	SW3	SW4	SW4	SW5	SW5	SW6	SW6	
Sample Designation:	Standards	Standards	FRC-SW1-01	FRC-SW1-01	FRC-SW1-01	FRC-SW2-01	FRC-SW2-01	FRC-SW3-01	FRC-SW3-01	FRC-SW4-01	FRC-SW4-01	FRC-SW5-01	FRC-SW5-01	FRC-SW6-01	FRC-SW6-01	FRC-RB-01
	(1)	(1)	SUR	SUR-DUP	MID	SUR	MID	SUR	MID	SUR	MID	SUR	MID	SUR	MID	
Sample Date:			12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92
Parameter: (Concentration in ug/l)																
alpha-BHC			0.052 U	0.052 U	0.052 U	0.052 U	0.052 UC	0.052 UC	0.052 UC	0.052 U	0.052 UC	0.052 UC	0.052 U	0.052 U	0.050 U	0.052 U
beta-BHC			0.052 U	0.052 U	0.052 U	0.052 U	0.052 UC	0.052 UC	0.052 UC	0.052 U	0.052 UC	0.052 UC	0.052 U	0.052 U	0.050 U	0.052 U
delta-BHC			0.052 U	0.052 U	0.052 U	0.052 U	0.052 UC	0.052 UC	0.052 UC	0.052 U	0.052 UC	0.052 UC	0.052 U	0.052 U	0.050 U	0.052 U
gamma-BHC			0.052 U	0.052 U	0.052 U	0.052 U	0.052 UC	0.052 UC	0.052 UC	0.052 U	0.052 UC	0.052 UC	0.052 U	0.052 U	0.050 U	0.052 U
Heptachlor			0.052 U	0.052 U	0.052 U	0.052 U	0.052 UC	0.052 UC	0.052 UC	0.052 U	0.052 UC	0.052 UC	0.052 U	0.052 U	0.050 U	0.052 U
Aldrin			0.052 U	0.052 U	0.052 U	0.052 U	0.052 UC	0.052 UC	0.052 UC	0.052 U	0.052 UC	0.052 UC	0.052 U	0.052 U	0.050 U	0.052 U
Heptachlor Epoxide			0.052 U	0.052 U	0.052 U	0.052 U	0.052 UC	0.052 UC	0.052 UC	0.052 U	0.052 UC	0.052 UC	0.052 U	0.052 U	0.050 U	0.052 U
Endosulfin I			0.052 U	0.052 U	0.052 U	0.052 U	0.052 UC	0.052 UC	0.052 UC	0.052 U	0.052 UC	0.052 UC	0.052 U	0.052 U	0.050 U	0.052 U
Dieldrin			0.10 U	0.10 U	0.10 U	0.10 U	0.10 UC	0.10 UC	0.10 UC	0.10 U	0.10 UC	0.10 UC	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE			0.10 U	0.10 U	0.10 U	0.10 U	0.10 UC	0.10 UC	0.10 UC	0.10 U	0.10 UC	0.10 UC	0.10 U	0.10 U	0.10 U	0.10 U
Endrin			0.10 U	0.10 U	0.10 U	0.10 U	0.10 UC	0.10 UC	0.10 UC	0.10 U	0.10 UC	0.10 UC	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan II			0.10 U	0.10 U	0.10 U	0.10 U	0.10 UC	0.10 UC	0.10 UC	0.10 U	0.10 UC	0.10 UC	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDD			0.10 U	0.10 U	0.10 U	0.10 U	0.10 UC	0.10 UC	0.10 UC	0.10 U	0.10 UC	0.10 UC	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan Sulfate			0.10 U	0.10 U	0.10 U	0.10 U	0.10 UC	0.10 UC	0.10 UC	0.10 U	0.10 UC	0.10 UC	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT			0.10 U	0.10 U	0.10 U	0.10 U	0.10 UC	0.10 UC	0.10 UC	0.10 U	0.10 UC	0.10 UC	0.10 U	0.10 U	0.10 U	0.10 U
Methoxychlor			0.52 U	0.52 U	0.52 U	0.52 U	0.52 UC	0.52 UC	0.52 UC	0.52 U	0.52 UC	0.52 U	0.52 U	0.52 U	0.50 U	0.52 U
Endrin-Ketone			0.10 U	0.10 U	0.10 U	0.10 U	0.10 UC	0.10 UC	0.10 UC	0.10 U	0.10 UC	0.10 UC	0.10 U	0.10 U	0.10 U	0.10 U
Endrin Aldehyde			0.10 U	0.10 U	0.10 U	0.10 U	0.10 UC	0.10 UC	0.10 UC	0.10 U	0.10 UC	0.10 UC	0.10 U	0.10 U	0.10 U	0.10 U
alpha-Chlordane			0.052 U	0.052 U	0.052 U	0.052 U	0.052 UC	0.052 UC	0.052 UC	0.052 U	0.052 UC	0.052 UC	0.052 U	0.052 U	0.050 U	0.052 U
gamma-Chlordane			0.052 U	0.052 U	0.052 U	0.052 U	0.052 UC	0.052 UC	0.052 UC	0.052 U	0.052 UC	0.052 UC	0.052 U	0.052 U	0.050 U	0.052 U
Toxaphene			5.2 U	5.2 U	5.2 U	5.2 U	5.2 UC	5.2 UC	5.2 UC	5.2 U	5.2 UC	5.2 UC	5.2 U	5.2 U	5.0 U	5.2 U
Aroclor-1016			1.0 U	1.0 U	1.0 U	1.0 U	1.0 UC	1.0 UC	1.0 UC	1.0 U	1.0 UC	1.0 UC	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1221			2.1 U	2.1 U	2.1 U	2.1 U	2.1 UC	2.1 UC	2.1 UC	2.1 U	2.1 UC	2.1 UC	2.1 U	2.1 U	2.0 U	2.1 U
Aroclor-1232			1.0 U	1.0 U	1.0 U	1.0 U	1.0 UC	1.0 UC	1.0 UC	1.0 U	1.0 UC	1.0 UC	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1242			1.0 U	1.0 U	1.0 U	1.0 U	1.0 UC	1.0 UC	1.0 UC	1.0 U	1.0 UC	1.0 UC	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1248			1.0 U	1.0 U	1.0 U	1.0 U	1.0 UC	1.0 UC	1.0 UC	1.0 U	1.0 UC	1.0 UC	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1254			1.0 U	1.0 U	1.0 U	1.0 U	1.0 UC	1.0 UC	1.0 UC	1.0 U	1.0 UC	1.0 UC	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1260			1.0 U	1.0 U	1.0 U	1.0 U	1.0 UC	1.0 UC	1.0 UC	1.0 U	1.0 UC	1.0 UC	1.0 U	1.0 U	1.0 U	1.0 U

U - Compound was analyzed for but not detected.

C - Laboratory calibration requirements are not met.

(1) - 6 NYCRR 703 Groundwater and Surface Water Standards. The standard is listed only if the compound was detected.

FAIRCHILD INDUSTRIES INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 11

VALIDATED DATA SUMMARY
SURFACE WATER ANALYTICAL WATER RESULTS FOR TCL PESTICIDES AND PCBs

Sample Location:	Surf. Water	Groundwater	SW1	SW1	SW2	SW2	SW3	SW3	SW4	SW4	SW5	SW5	SW6	SW6	SW6
Sample Designation:	Standards	Standards	FRC-SW1-02	FRC-SW1-02	FRC-SW2-02	FRC-SW2-02	FRC-SW3-02	FRC-SW3-02	FRC-SW4-02	FRC-SW4-02	FRC-SW5-02	FRC-SW5-02	FRCSW6-02	FRC-SW6-02	FRC-SW6-02
	(1)	(1)	SUR	MID	SUR	MID	SUR	MID	SUR	MID	SUR	MID	SUR	SUR-DUP	MID
Sample Date:			3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93
Parameter: (Concentrations in ug/l)															
alpha-BHC			0.053 UC	0.056 U	0.053 U	0.056 U	0.053 U	0.056 UC	0.050 U	0.053 UC	0.051 U	0.056 U	0.050 U	0.051 U	0.056 U
beta-BHC			0.053 UC	0.056 U	0.053 U	0.056 U	0.053 U	0.056 UC	0.050 U	0.053 UC	0.051 U	0.056 U	0.050 U	0.051 U	0.056 U
delta-BHC			0.053 UC	0.056 U	0.053 U	0.056 U	0.053 U	0.056 UC	0.050 U	0.053 UC	0.051 U	0.056 U	0.050 U	0.051 U	0.056 U
gamma-BHC			0.053 UC	0.056 U	0.053 U	0.056 U	0.053 U	0.056 UC	0.050 U	0.053 UC	0.051 U	0.056 U	0.050 U	0.051 U	0.056 U
Heptachlor			0.053 UC	0.056 U	0.053 U	0.056 U	0.053 U	0.056 UC	0.050 U	0.053 UC	0.051 U	0.056 U	0.050 U	0.051 U	0.056 U
Aldrin			0.053 UC	0.056 U	0.053 U	0.056 U	0.053 U	0.056 UC	0.050 U	0.053 UC	0.051 U	0.056 U	0.050 U	0.051 U	0.056 U
Heptachlor Epoxide			0.053 UC	0.056 U	0.053 U	0.056 U	0.053 U	0.056 UC	0.050 U	0.053 UC	0.051 U	0.056 U	0.050 U	0.051 U	0.056 U
Endosulfan I			0.053 UC	0.056 U	0.053 U	0.056 U	0.053 U	0.056 UC	0.050 U	0.053 UC	0.051 U	0.056 U	0.050 U	0.051 U	0.056 U
Dieldrin			0.10 UC	0.11 U	0.10 U	0.11 U	0.10 U	0.11 UC	0.10 U	0.10 UC	0.10 U	0.11 U	0.10 U	0.10 U	0.11 U
4,4'-DDD			0.10 UC	0.11 U	0.10 U	0.11 U	0.10 U	0.11 UC	0.10 U	0.10 UC	0.10 U	0.11 U	0.10 U	0.10 U	0.11 U
Endrin			0.10 UC	0.11 U	0.10 U	0.11 U	0.10 U	0.11 UC	0.10 U	0.10 UC	0.10 U	0.11 U	0.10 U	0.10 U	0.11 U
Endosulfan II			0.10 UC	0.11 U	0.10 U	0.11 U	0.10 U	0.11 UC	0.10 U	0.10 UC	0.10 U	0.11 U	0.10 U	0.10 U	0.11 U
4,4'-DDT			0.10 UC	0.11 U	0.10 U	0.11 U	0.10 U	0.11 UC	0.10 U	0.10 UC	0.10 U	0.11 U	0.10 U	0.10 U	0.11 U
Methoxychlor			0.53 UC	0.56 U	0.53 U	0.56 U	0.53 U	0.56 UC	0.50 U	0.53 UC	0.51 U	0.56 U	0.50 U	0.51 U	0.56 U
Endrin-Keytone			0.10 UC	0.11 U	0.10 U	0.11 U	0.10 U	0.11 UC	0.10 U	0.10 UC	0.10 U	0.11 U	0.10 U	0.10 U	0.11 U
Endrin Aldehyde			0.10 UC	0.11 U	0.10 U	0.11 U	0.10 U	0.11 UC	0.10 U	0.10 UC	0.10 U	0.11 U	0.10 U	0.10 U	0.11 U
alpha-Chlordane			0.053 UC	0.056 U	0.053 U	0.056 U	0.053 U	0.056 UC	0.050 U	0.053 UC	0.051 U	0.056 U	0.050 U	0.051 U	0.056 U
gamma-Chlordane			0.053 UC	0.056 U	0.053 U	0.056 U	0.053 U	0.056 UC	0.050 U	0.053 UC	0.051 U	0.056 U	0.050 U	0.051 U	0.056 U
Toxaphene			5.3 UC	5.6 U	5.3 U	5.6 U	5.3 U	5.6 UC	5.0 U	5.3 UC	5.1 U	5.6 U	5.0 U	5.1 U	5.6 U
Aroclor-1016			1.0 UC	1.1 U	1.0 U	1.1 U	1.0 U	1.1 UC	1.0 U	1.0 UC	1.0 U	1.1 U	1.0 U	1.0 U	1.1 U
Aroclor-1221			2.1 UC	2.2 U	2.1 U	2.2 U	2.1 U	2.2 UC	2.1 U	2.1 U	2.1 U	2.2 U	2.1 U	2.1 U	2.2 U
Aroclor-1232			1.0 UC	1.1 U	1.0 U	1.1 U	1.0 U	1.1 UC	1.0 U	1.0 UC	1.0 U	1.1 U	1.0 U	1.0 U	1.1 U
Aroclor-1242			1.0 UC	1.1 U	1.0 U	1.1 U	1.0 U	1.1 UC	1.0 U	1.0 UC	1.0 U	1.1 U	1.0 U	1.0 U	1.1 U
Aroclor-1248			1.0 UC	1.1 U	1.0 U	1.1 U	1.0 U	1.1 UC	1.0 U	1.0 UC	1.0 U	1.1 U	1.0 U	1.0 U	1.1 U
Aroclor-1254			1.0 UC	1.1 U	1.0 U	1.1 U	1.0 U	1.1 UC	1.0 U	1.0 UC	1.0 U	1.1 U	1.0 U	1.0 U	1.1 U
Aroclor-1260			1.0 UC	1.1 U	1.0 U	1.1 U	1.0 U	1.1 UC	1.0 U	1.0 UC	1.0 U	1.1 U	1.0 U	1.0 U	1.1 U

U - Compound was analyzed for but not detected.
C - Laboratory calibration requirements are not met.
(1) - 6 NYCRR 703 Groundwater and Surface Water Standards. The standard is listed only if the compound was detected.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 12

VALIDATED DATA SUMMARY
SURFACE WATER ANALYTICAL RESULTS FOR TOTAL TAL METALS AND CYANIDE

Sample Location:	Surf. Water	Groundwater	SW1	SW1	SW1	SW1	SW2	SW2	SW3	SW3	SW3	SW4	SW4	SW5	SW5	SW6	SW6	
Sample Designation:	Standards	Standard	FRC-SW1-01	FRC-SW1-01	FRC-SW1-01	FRC-SW1-01	FRC-SW2-01	FRC-SW2-01	FRC-SW3-01	FRC-SW3-01	FRC-SW3-01	FRC-SW4-01	FRC-SW4-01	FRC-SW5-01	FRC-SW5-01	FRC-SW6-01	FRC-SW6-01	FRC-RB-01
	(1)	(1)	SUR	SUR-DUP	MID	MID	SUR	MID	SUR	MID	MID	SUR	MID	SUR	MID	SUR	MID	
Sample Date:			12/7/92	12/7/92	12/7/92	12/10/92	12/7/92	12/7/92	12/7/92	12/7/92	12/10/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92
Parameter: (Concentrations in ug/l)																		
Aluminum	100	NA	26B	22.0U	NR	22.0U	23.0B	22.0U	20.8U	NR	22.0U	22.0U	32.6B	32.1B	41.0B	22.0U	22.0U	22.0U
Antimony	3	3**	21.0U	21.0U	NR	21.0U	21.0U	21.0U	21.0U	NR	33.8B	21.0U	21.0U	21.0U	21.0U	23.5B	21.4B	21.0U
Arsenic		25	2.0U	2.0U	NR	2.0U	2.0U	2.0U	2.0U	NR	2.0U	2.0U	2.0U	2.0 U	2.0 U	2.0U	2.0U	2.0U
Barium	1000	1000	40.4B	40.4B	NR	38.7B	39.9B	40.4B	39.9B	NR	36.2B	45.4B	46.8B	44.5B	46.8B	47.6B	48.6B	6.0U
Beryllium		3**	1.0U	1.0U	NR	1.0U	1.0U	1.0U	1.0U	NR	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Cadmium		10	2.0U	2.0U	NR	2.0U	2.0U	2.0U	2.0U	NR	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
Calcium	NA	NA	23,930	23,911	NR	24,209	23,941	24,203	23,848	NR	18,414	24,842	24,781	24,596	25,082	26,263	27,396	104B
Chromium	50	50	3.0U	3.0U	NR	3.0U	3.0U	3.0U	3.0U	NR	3.0U	3.0U	3.0U	5.1B	9.6B	11.4	12.5	3.0U
Cobalt	5	NA	3.0U	3.0U	NR	3.0U	3.0U	3.0U	3.0U	NR	11.1B	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U
Copper	200	200	3.0U	3.0U	NR	3.0U	3.0U	3.0U	3.0U	NR	3.0U	3.0U	7.0B	3.0U	3.0U	4.3B	4.3B	8.8B
Iron	300	300	178	193	NR	111*	204	193	245	NR	2,955*	912	895	904	909	857*	884*	82.0U*
Lead	50	25	2.0UC	2.5BJ	NR	2.0U	2.0UJ	2.0U	2.0UC	NR	2.0U	2.0UC	2.0UC	2.0UC	2.0UJ	2.0U	2.0U	2.0U
Magnesium	35000	35000**	4,195B	4,183B	NR	4,196B	4,165B	4,190B	4,123B	NR	3,123B	4,124B	4,130B	4,078B	4,162B	4,325B	4,522B	42.0B
Manganese	300	300	391	380	NR	347.1	389	399	384	NR	1,947.7	516	519	509	524	517.0	540.8	1.0U
Mercury		2	0.20U	0.20U	NR	0.20U	0.20U	0.20U	0.20U	NR	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U
Nickel		NA	21.0U	21.0U	NR	21.0U	21.0U	21.0U	21.0U	NR	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U
Potassium	NA	NA	4,013B	3,505B	NR	4,344B	3,842B	3,570B	3,991B	NR	2,866B	3,676B	3,405B	3,532B	3,438B	4,218B	4,310B	626U
Selenium		10	2.0U	2.0U	NR	2.0U	2.0U	2.0U	2.0U	NR	2.0U	2.0U	2.0U	2.0U	2.0U	2.0UW	2.0UW	2.0U
Silver		50	3.0U	3.0U	NR	10.0UJ	3.0U	3.0U	3.0U	NR	10.0UC	3.0U	3.0U	3.0U	3.0U	10.0UC	10.0UC	10.0UC
Sodium	NA	20000	13,629	13,616	NR	13,234	13,549	13,600	13,465	NR	21,991	13,145	13,109	12,924	13,090	13,315	13,800	111B
Thallium		4**	2.0U	2.0U	NR	2.0U	2.0U	2.0U	2.0U	NR	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
Vanadium		NA	6.0U	6.0U	NR	6.0U	6.0U	6.0U	6.0U	NR	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U
Zinc	100	300	19.7B	17.6B	NR	23.8	20.2	26.9	18.7B	NR	19.3B	14.7B	17.0B	15.8B	19.0B	13.7B	15.8B	13.9B
Cyanide	100	100	10.0U	11.4	11.2	NR	13.2	10.0U	11.5	10.2	NR	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U

NR - Not Reported
B - Analyte results are between IDL and contract required detection limit.
U - Compound was analyzed for but not detected.
W - Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance.
* - Duplicate analysis not within control limit
(1) - 6 NYCRR 703 Groundwater and Surface Water Standards. The standard is listed only if the compound
NA - Not Aailable.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 12

VALIDATED DATA SUMMARY
SURFACE WATER ANALYTICAL RESULTS FOR TOTAL TAL METALS AND CYANIDE

Sample Location:	Surf. Water	Groundwater	SW1	SW1	SW2	SW2	SW3	SW3	SW4	SW4	SW5	SW5	SW6	SW6	SW6
Sample Designation:	Standards	Standard	FRC-SW1-02	FRC-SW1-02	FRC-SW2-02	FRC-SW2-02	FRC-SW3-02	FRC-SW3-02	FRC-SW4-02	FRC-SW4-02	FRC-SW5-02	FRC-SW5-02	FRC-SW6-02	FRC-SW6-02	FRC-SW6-02
	(1)	(1)	SUR	MID	SUR	MID	SUR	MID	SUR	MID	SUR	MID	SUR	SUR-DUP	MID
Sample Date:			3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93
Parameter: (Concentrations in ug/l)															
Aluminum	100	NA	23.5B	24.0B	182B	22.0U	35.9B	22.0U	22.0U	22.8B	44.9B	22.0U	22.0U	22.0U	22.0U
Antimony	3	3**	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U
Arsenic		25	1.0U	1.0U	1.0U	1.0UW	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0UW
Barium	1000	1000	34.8B	35.9B	42.0B	35.5B	35.9B	35.9B	40.4B	42.0B	43.6B	43.1B	40.9B	42.1B	43.2B
Beryllium		3**	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Cadmium		10	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
Calcium	NA	NA	24,939	25,363	25,779	25,301	25,137	25,611	27,005	27,842	27,998	27,828	27,061	27,481	28,044
Chromium	50	50	3.0U	3.0U	6.2B	3.0U	3.0U	3.0U	3.0U	5.7B	6.6B	3.0U	3.4B	3.0U	3.0U
Cobalt	5	NA	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.2B	3.0U	3.0U	3.0U	3.0U
Copper	200	200	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U
Iron	300	300	88.0B	95.0B	357	181	156	98.2B	347	393	383	383	288	291	335
Lead	50	25	1.0U	1.0U	3.8	1.4B	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0B	1.0U
Magnesium	35000	35000**	4,360B	4,406B	4,551B	4,368	4,357B	4,443B	4,479B	4,630B	4,635B	4,618B	4,503B	4,594B	4,686B
Manganese	300	300	299.8	320.4	306.2	289.9	299.2	304.2	557.6	576.9	583.4	583.1	562.7	575.8	588.4
Mercury		2	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U
Nickel		NA	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U
Potassium	NA	NA	4,416B	4,423B	4,042B	4,142B	46,152B	4,492B	3,936B	3,989B	3,743B	3,810B	4,115B	4,416B	4,341B
Selenium		10	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
Silver		50	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U
Sodium	NA	20000	13,388	13,485	13,559	13,347	13,331	13,483	13,132	13,492	13,462	17,196	12,993	13,251	13,602
Thallium		4**	2.0UN	2.0UN	2.0UW	2.0UW	2.0UN	2.0UN	2.0UW	2.0UW	2.0UW	2.0UW	2.0UW	2.0UN	2.0UN
Vanadium		NA	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U
Zinc	100	300	7.5B	6.6B	15.8B	7.4B	6.8B	6.7B	15.8B	19.2B	15.4B	17.6B	13.2B	17.5B	12.6B
Cyanide	100	100	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U

NR - Not Reported
B - Analyte results are between IDL and contract required detection limit.
U - Compound was analyzed for but not detected.
W - Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance.
N - Spiked sample recovery not within control limits
* - Duplicate analysis not within control limit
(1) - 6 NYCRR 703 Groundwater and Surface Water Standards. The standard is listed only if the compound was detected
NA - Not Available.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 13

VALIDATED DATA SUMMARY
SURFACE WATER ANALYTICAL RESULTS FOR DISSOLVED TAL METALS

Sample Location:	Surf. Water	Groundwater	SW1	SW1	SW1	SW1	SW2	SW2	SW3	SW3	SW3	SW4	SW4	SW5	SW5	SW6	SW6	
Sample Designation:	Standards	Standard	FRC-SW1-01	FRC-SW1-01	FRC-SW1-01	FRC-SW1-01	FRC-SW2-01	FRC-SW2-01	FRC-SW3-01	FRC-SW3-01	FRC-SW3-01	FRC-SW4-01	FRC-SW4-01	FRC-SW5-01	FRC-SW5-01	FRC-SW6-01	FRC-SW6-01	FRC-RB-01
	(1)	(1)	SUR	SUR-DUP	MID	MID	SUR	MID	SUR	MID	MID	SUR	MID	SUR	MID	SUR	MID	
Sample Date:			12/7/92	12/7/92	12/7/92	12/10/92	12/7/92	12/7/92	12/7/92	12/7/92	12/10/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92
Parameter: (Concentrations in ug/l																		
Aluminum	100	NA	22.0U	22.0U	NR	22.0U	22.0U	22.0U	22.0U	NR	43.4B	22.0U	22.0U	22.0U	22.0U	22.0U	22.0U	22.0U
Antimony	3	3	21.0U	21.0U	NR	21.0U	21.0U	21.0U	21.0U	NR	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	123	21.0U
Arsenic	50	25	2.0U	2.0U	NR	2.0U	2.0U	2.0U	2.0U	NR	2.0U	2.0U	2.0U	2.0U	2.0U	2.0UW	2.0U	2.0U
Barium	1000	1000	41.5B	33.6B	NR	39.8B	40.2B	42.7B	40.2	NR	40.7B	42.7B	45.2B	49.0B	43.2B	42.0B	42.5B	6.0U
Beryllium	3	3	1.0U	1.0U	NR	1.0U	1.0U	1.0U	1.0U	NR	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Cadmium	10	10	2.0U	2.0U	NR	2.0U	2.0U	2.0U	2.0U	NR	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
Calcium	NA	NA	26,995	22,463	NR	29,466	27,084	28,059	26,004	NR	27,082	24,990	25,660	28,171	25,533	24,175	24,256	101B
Chromium	50	50	3.0U	3.0U	NR	3.0U	3.0U	3.0U	3.0U	NR	3.0U	3.8B	3.0U	3.4B	3.0U	3.0U	3.0U	3.0U
Cobalt	5	NA	3.0U	3.0U	NR	3.0U	3.0U	3.0U	3.0U	NR	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U
Copper	200	200	3.0U	3.0U	NR	3.0U	3.0U	3.0U	3.0U	NR	4.2B	3.0U	3.0U	3.0U	3.0U	17.0B	10.9B	3.8B
Iron	300	300	82.0U	82.0U	NR	82.0U	42.9U	82.0U	82.0U	NR	82.0U	147	259	82.0U	82.0U	82.0U	82.0U	82.0U
Lead	50	25	2.0U	2.0U	NR	2.0U	2.0U	2.0U	2.0U	NR	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
Magnesium	35000	35000	5,245	4,621B	NR	5,290	5,460	5,501	5,139	NR	5,386	4,847B	4,972B	5,327	4,936B	3,993B	3,995B	29.4B
Manganese	300	300	414	330	NR	405	410	429	394	NR	413	485	507	557	503	474.4	478	2.0B
Mercury	2	2	0.20U	0.20U	NR	0.20U	0.20U	0.20U	0.20U	NR	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U
Nickel	NA	NA	21.0U	21.0U	NR	21.0U	21.0U	21.0U	21.0U	NR	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U
Potassium	NA	NA	6,592	6,168	NR	6,213	7,414	6,892	5,933	NR	6,907	5,913	6,641	6,479	6,169	3,608B	3,391B	626U
Selenium	10	10	2.0U	2.0U	NR	2.0U	2.0U	2.0U	2.0U	NR	2.0U	2.0U	2.0UW	2.0U	2.0U	2.0UN	2.0UN	2.0UN
Silver	50	50	3.0U	3.0U	NR	3.0U	3.0U	3.0U	3.0U	NR	3.0U	3.0U	3.0U	3.0U	3.0U	10.0UC	10.0UC	10.0UC
Sodium	NA	20000	14,627	12,283	NR	14,343	14,461	15,181	14,111	NR	14,637	12,521	12,922	14,460	12,930	12,403	12,429	241B
Thallium	4	4	2.0U	2.0U	NR	2.0U	2.0U	2.0U	2.0U	NR	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
Vanadium	14	NA	6.0U	6.0U	NR	6.0U	6.0U	6.0U	6.0U	NR	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U
Zinc	100	300	12.9B	18.9B	NR	15.3B	12.9B	16.7B	11.4B	NR	28.8	12.5	11.9B	14.1B	15.3B	24.8	21.8	8.5B

NR - Not Reported
U - Compound was analyzed for but not detected.
B - Analyte results are between IDL and contract required detection limit.
W - Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance.
N - The spiked sample recovery is not within control limits.
NA - Not Applicable
(1) - 6 NYCRR 703 Groundwater and Surface Water Standards.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 13

VALIDATED DATA SUMMARY
SURFACE WATER ANALYTICAL RESULTS FOR DISSOLVED TAL METALS

Sample Location:	Surf. Water	Groundwater	SW1	SW1	SW2	SW2	SW3	SW3	SW4	SW4	SW5	SW5	SW6	SW6	SW6
Sample Designation:	Standards	Standard	FRC-SW1-02	FRC-SW1-02	FRC-SW2-02	FRC-SW2-02	FRC-SW3-02	FRC-SW3-02	FRC-SW4-02	FRC-SW4-02	FRC-SW5-02	FRC-SW5-02	FRC-SW6-02	FRC-SW6-02	FRC-SW6-02
	(1)	(1)	SUR	MID	SUR	MID	SUR	MID	SUR	MID	SUR	MID	SUR	SUR-DUP	MID
Sample Date:			3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93
Parameter: (Concentrations in ug/l															
Aluminum	100	NA	22.1B	22.0U	22.0U	23.7B	28.9B	22.3B	22.0U	22.0U	22.0U	22.0U	22.0U	22.0U	22.0U
Antimony	3	3	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U
Arsenic	50	25	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Barium	1000	1000	35.9B	35.3B	34.8B	35.9B	35.3B	36.5B	43.6B	44.1B	41.0B	43.0B	41.0B	42.6B	38.7B
Beryllium	3	3	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Cadmium	10	10	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
Calcium	NA	NA	25,157	25,512	24,818	26,018	24,751	25,253	29,203	28,696	28,024	28,782	28,421	27,760	27,196
Chromium	50	50	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	4.8U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U
Cobalt	5	NA	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U
Copper	200	200	9.7B	3.0U	3.0U	3.0U	5.3B	4.3B	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U
Iron	300	300	77.7U	82.0U	82.0U	82.0U	82.0U	102	82.0U	82.0U	82.0U	82.0U	82.0U	82.0U	82.0U
Lead	50	25	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Magnesium	35000	35000	4,407B	4,434B	4,252B	4,480B	4,293B	4,390B	4,802B	4,747B	4,622B	4,749B	4,688B	4,631B	4,545B
Manganese	300	300	301	317	289	303	292	300	596	584	575	592	580	577	564
Mercury	2	2	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U
Nickel	NA	NA	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U
Potassium	NA	NA	4,286B	4,217B	3,840B	4,070B	4,348B	4,560B	4,115B	4,154B	4,249B	3,911B	3,015B	3,991B	4,355B
Selenium	10	10	2.0UW	2.0UW	2.0U	2.0U	2.0U	2.0UW	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
Silver	50	50	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U
Sodium	NA	20000	13,495	13,530	13,329	13,697	13,198	13,999	13,999	13,708	13,484	13,852	13,688	13,605	13,074
Thallium	4	4	2.0UNW	2.0UNW	2.0UW	2.0U	2.0UNW	2.0UNW	2.0UW	2.0UW	2.0UW	2.0UW	2.0UW	2.0UN	2.0UNW
Vanadium	14	NA	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U
Zinc	100	300	15.1B	14.9B	15.4B	9.5B	12.4B	12.9B	14.3B	13.0B	17.1B	15.4B	12.2B	20.2	11.9B

U - Compound was analyzed for but not detected.
B - Analyte results are between IDL and contract required detection limit.
W - Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance.
N - The spiked sample recovery is not within control limits.
NA - Not Applicable
(1) - 6 NYCRR 703 Groundwater and Surface Water Standards.

FAIRCHILD INDUSTRIES INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 14

DATA SUMMARY
SURFACE WATER ANALYTICAL RESULTS FOR AKALINITY, NITRATE, PHOSPHORUS AND SULFATE

Sample Location:	Groundwater	SW1	SW1	SW1	SW2	SW2	SW3	SW3
Sample Designation:	Standard	FRC-SW1-01	FRC-SW1-01	FRC-SW1-01	FRC-SW2-01	FRC-SW2-01	FRC-SW3-01	FRC-SW3-01
	(1)	SUR	SUR-DUP	MID	SUR	MID	SUR	MID
Sample Date:		12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92
Parameter: (Concentration in mg/l)								
Alkalinity, as CaCO3	NA	69.1	67.7	67.3	68.3	68.1	69.3	69.3
Nitrate/Nitrite-Nitrogen	10	0.87	0.91	0.923	0.84	1.04	0.94	0.91
Phosphorus	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Sulfate	250	26.8	28.4	24.7	25.9	28	25.1	26.8

Sample Location:	Groundwater	SW4	SW5	SW5	SW6	SW6		
Sample Designation:	Standard	FRC-SW4-01	FRC-SW5-01	FRC-SW5-01	FRC-SW6-01	FRC-SW6-01	FRC-RB-01	FRC-RB-1
	(1)	MID	SUR	MID	SUR	MID		
Sample Date:		12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	12/7/92	
Parameter: (Concentration in mg/l)								
Alkalinity, as CaCO3	NA	75	77.2	75.6	75.2	74.4	2	1.00U
Nitrate/Nitrite-Nitrogen	10	0.154	0.16	0.22	0.17	0.19	0.10 U	0.10 U
Phosphorus	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.83
Sulfate	250	31.3	26.3	30.5	24.3	23	10.0U	0.10 U

U - See Appendix for definition

FAIRCHILD INDUSTRIES INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 14

DATA SUMMARY
SURFACE WATER ANALYTICAL RESULTS FOR AKALINITY, NITRATE, PHOSPHORUS AND SULFATE

Sample Location:	Groundwater	SW1	SW1	SW2	SW2	SW3	SW3
Sample Designation:	Standard	FRC-SW1-02	FRC-SW1-02	FRC-SW2-02	FRC-SW2-02	FRC-SW3-02	FRC-SW3-02
	(1)	SUR	MID	SUR	MID	SUR	MID
Sample Date:		3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93
Parameter: (Concentration in mg/l)							
Alkalinity, as CaCO3	NA	61.2	62.6	61	63.2	61.2	62.2
Nitrate/Nitrite-Nitrogen	10	1.08	1.07	1.01	1.15	1.1	1.04
Phosphorus	NA	0.10 U	0.10 U	0.100U	0.100U	0.10 U	0.38
Sulfate	250	33.3	29.6	32.9	30.9	29.6	29.2

Sample Location:	Groundwater	SW4	SW5	SW5	SW6	SW6	SW6
Sample Designation:	Standard	FRC-SW4-02	FRC-SW5-02	FRC-SW5-02	FRC-SW6-02	FRC-SW6-02	FRC-SW6-02
	(1)	MID	SUR	MID	SUR	SUR-DUP	MID
Sample Date:		3/2/93	3/2/93	3/2/93	3/2/93	3/2/93	3/2/93
Parameter: (Concentration in mg/l)							
Alkalinity, as CaCO3	NA	67.3	66.9	66.9	64.5	64.7	64.4
Nitrate/Nitrite-Nitrogen	10	0.59	0.57	0.88	0.56	0.6	0.57
Phosphorus	NA	0.100U	0.100U	0.100U	0.100U	0.10 U	0.10 U
Sulfate	250	37.9	40.7	37.9	38.3	40.3	39.9

U - See Appendix for definition

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 15

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS

Sample Location:	Groundwater	1S	1D	2S	2D	2XD	3S	3D	4S	4D	5S	5D
Sample Designation:	Standard	FRC-1S-01	FRC-1D-01	FRC-2S-01	FRC-2D-01	FRC-2XD-01	FRC-3S-01	FRC-3D-01	FRC-4S-01	FRC-4D-01	FRC-5S-01	FRC-5D-01
	(1)											
Sample Date:		12/3/92	12/3/92	12/3/92	12/3/92	12/2/92	12/2/92	12/2/92	12/2/92	12/2/92	12/2/92	12/2/92
Parameter: (Concentrations in ug/l)												
Chloromethane	5	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	10 UC
Bromomethane	5	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	10 UC
Vinyl Chloride	2	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	10 UC
Chloroethane	5	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	10 UC
Methylene Chloride	5	10 U	10 U	10 U	10 U	4JB	10 U	10 U	10 U	10 U	4JB	2JB
Acetone	50	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	10 UC
Carbon Disulfide	50	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	10 UC
1,1-Dichloroethene	5	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	10 UC
1,1-Dichloroethane	5	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	5J	10 UC	3J
1,2-Dichloroethene	10	10 U	10 U	10 U	10 U	2J	10 U	10 U	10 U	10 U	10 UC	10 UC
Chloroform	7	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	10 UC
1,2-Dichloroethane	5	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	10 UC
2-Butanone	50	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	10 UC
1,1,1-Trichloroethane	5	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	14
Carbon Tetrachloride	5	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	10 UC
Bromodichloromethane	50	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	10 UC
1,2-Dichloropropane	5	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	10 UC
cis-1,3-Dichloropropene	5	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	10 UC
Trichloroethene	5	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	10 UC
Dibromochloromethane	50	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	10 UC
1,1,2-Trichloroethane	50	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	10 UC
Benzene	0.7	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	10 UC
trans-1,3-Dichloropropene	5	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	10 UC
Bromoform	50	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	10 UC
4-Methyl-2-pentanone	5	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	10 UC
2-Hexanone	5	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	10 UC
Tetrachloroethene	5	10 U	10 U	10 U	10 U	2J	10 U	10 U	10 U	10 U	10 UC	10 UC
1,1,2,2-Tetrachloroethane	5	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	10 UC
Toluene	5	10 U	10 U	10 U	10 U	1J	10 U	10 U	10 U	10 U	10 UC	10 UC
Chlorobenzene	5	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	10 UC
Ethylbenzene	5	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	10 UC
Styrene	50	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	10 U	10 UC	10 UC
Xylenes (total)	15	10 U	10 U	10 U	10 U	10 UC	10 U	10 U	10 U	1J	10 UC	10 UC

U - Compound was analyzed for but not detected

J - The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.

B - The analyte is found in the blanks as well as the sample.

C - Laboratory calibration requirements are not met.

(1) - 6 NYCRR 703 Groundwater Standards

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 15

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS

Sample Location:	Groundwater	6S	6D	6D	7S	7D	8S	8I	9S	9I	10S	10I
Sample Designation:	Standard	FRC-6S-01	FRC-6D-01	FRC-6D-01	FRC-7S-01	FRC-7D-01	FRC-8S-01	FRC-8I-01	FRC-9S-01	FRC-9I-01	FRC-10S-01	FRC-10I-01
Sample Date:	(1)	12/10/92	12/10/92	DUP 12/10/92	12/3/92	12/3/92	12/3/92	12/3/92	12/2/92	12/2/92	12/3/92	12/3/92
Parameter: (Concentration in ug/l)												
Chloromethane	5	40 UC	50 UC	50 UC	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	5	40 UC	50 UC	50 UC	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	2	40 UC	50 UC	50 UC	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	5	40 UC	50 UC	50 UC	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	40 UC	50 UC	50 UC	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50	40 UC	50 UC	50 UC	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	50	40 UC	50 UC	50 UC	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	5	37J	48J	52 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	5	40 UC	12J	11J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethene	10	40 UC	28J	29J	10 U	10 U	6J	10 U	10 U	10 U	10 U	3J
Chloroform	7	40 UC	50 UC	50 UC	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	5	40 UC	50 UC	50 UC	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone	50	40 UC	50 UC	50 UC	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	5	550	548	585	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Tetrachloride	5	40 UC	50 UC	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	50	40 UC	50 UC	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	5	40 UC	50 UC	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	5	40 UC	50 UC	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	27J	25J	29 J	28	28	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	50	40 UC	50 UC	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	50	40 UC	50 UC	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	0.7	40 UC	50 UC	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	5	40 UC	50 UC	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	50	40 UC	50 UC	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	5	40 UC	50 UC	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	5	40 UC	50 UC	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	40 UC	10J	14J	10 U	3J	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	5	40 UC	50 UC	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	5	40 UC	50 UC	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	5	40 UC	50 UC	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	5	40 UC	50 UC	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	50	40 UC	50 UC	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes (total)	15	40 UC	50 UC	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

U - Compound was analyzed for but not detected

J - The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.

C - Laboratory calibration requirements are not met.

(1) - 6 NYCRR 703 Groundwater Standards

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 15

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS

Sample Location:	Groundwater	10D	11D	11S	11I	11D	MW12S		
Sample Designation:	Standard	FRC-10D-01	FRC-10D-01	FRC-11S-01	FRC-11I-01	FRC-11D-01	FRC-MW12S-0	FRC-TB-01	FRC-TB-921204
	(1)		DUP						
Sample Date:		12/3/92	12/3/92	12/4/92	12/4/92	12/4/92	12/7/92	---	---
Parameter: (Concentrations in ug/l)									
Chloromethane	5	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
Bromomethane	5	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
Vinyl Chloride	2	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
Chloroethane	5	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
Methylene Chloride	5	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
Acetone	50	15 J	10 UC	10 U	21 J	10 U	10 UC	10 U	10 U
Carbon Disulfide	50	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
1,1-Dichloroethene	5	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
1,1-Dichloroethane	5	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
1,2-Dichloroethene	10	11	13C	10 U	10 U	10 U	4JC	10 U	10 U
Chloroform	7	10 U	10 UC	10 U	10 U	10 U	10 UC	2J	10 U
1,2-Dichloroethane	5	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
2-Butanone	50	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
1,1,1-Trichloroethane	5	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
Carbon Tetrachloride	5	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
Bromodichloromethane	50	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
1,2-Dichloropropane	5	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
cis-1,3-Dichloropropene	5	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
Trichloroethene	5	8J	8JC	10 U	10 U	10 U	10 UC	10 U	10 U
Dibromochloromethane	50	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
1,1,2-Trichloroethane	50	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
Benzene	0.7	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
trans-1,3-Dichloropropene	5	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
Bromoform	50	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
4-Methyl-2-pentanone	5	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
2-Hexanone	5	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
Tetrachloroethene	5	19	20C	10 U	10 U	10 U	10 UC	10 U	10 U
1,1,2,2-Tetrachloroethane	5	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
Toluene	5	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
Chlorobenzene	5	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
Ethylbenzene	5	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
Styrene	50	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U
Xylenes (total)	15	10 U	10 UC	10 U	10 U	10 U	10 UC	10 U	10 U

U - Compound was analyzed for but not detected

J - The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.

C - Laboratory calibration requirements are not met.

(1) - 6 NYCRR 703 Groundwater Standards

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 15

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS

Sample Location:	Groundwater	1S	1D	2S	2S	2D	2XD	3S	3D	4S	4D
Sample Designation:	Standard	FRC-1S-02	FRC-1D-02	FRC-2S-02	FRC-2S-02 DUP	FRC-2D-02	FRC-2XD-02	FRC-3S-02	FRC-3D-02	FRC-4S-02	FRC-4D-02
	(1)										
Sample Date:		3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	2/26/93	2/25/93	2/26/93	2/26/93	2/26/93
Parameter: (Concentrations in ug/l)											
Chloromethane	5	1.00 U	0.31JC	0.14J	1.00 UC	0.5 JC	1.00 UC	0.22 JC	15.15 C	1.00 UC	10 U
Vinyl Chloride	2	1.00 U	1.00 UC	0.3J	0.6JC	2C	0.7J	1.00 UC	1.00 U	1.00 UC	10 U
Bromomethane	5	1.00 U	1.00 UC	1.00 U	1.00 UC	1.00 UC	1.00 UC	1.00 UC	1.00 UC	1.00 UC	10 U
Chloroethane	5	1.00 U	1.00 UC	1.00 U	1.00 UC	1.00 UC	1.00 UC	1.00 UC	1.00 UC	1.00 UC	10 U
Acetone	50	NA	NA	NA	NA	NA	NA	NA	5B	NA	10 U
Methylene Chloride	5	1.00 U	1.00 UC	1.00 U	1.00 UC	1.00 UC	1.00 UC	1.00 UC	1.00 U	1.00 UC	10 U
1,1-Dichloroethene	5	0.2J	0.5JC	1.00 U	1.00 UC	1.00 UC	0.2J	1.00 UC	1.00 U	1.00 UC	10 U
trans-1,2-Dichloroethene	5	U	1.00 UC	0.1J	1.00 UC	1.00 UC	1.00 UC	1.00 UC	1.00 U	1.00 UC	10 U
1,1-Dichloroethane	5	0.2J	0.5 J	1	1	2C	0.9 JC	1.00 UC	1	0.2J	4J
Carbon Disulfide	50	NA	NA	NA	NA	NA	NA	NA	1.00 U	NA	10 U
cis-1,2-Dichloroethene	5	1.00 U	1.00 UC	0.3J	1.00 UC	0.3JC	0.2 J	1.00 UC	1.00 U	1.00 U	10 U
2-Butanone	50	NA	NA	NA	NA	NA	NA	NA	1.00 U	NA	10 U
Chloroform	7	1.00 U	1.00 UC	1.00 U	1.00 UC	1.00 UC	1.00 UC	1.00 UC	1.00 UC	1.00 UC	10 U
1,1,1-Trichloroethane	5	1.00 U	0.07JC	1.00 U	1.00 UC	1.00 UC	0.1J	1.00 UC	1.00 U	0.6 JC	10 U
Vinyl Acetate	5	NA	NA	NA	NA	NA	NA	NA	1.00 U	NA	10 U
Carbon Tetrachloride	5	1.00 U	1.00 UC	1.00 U	1.00 UC	1.00 UC	1.00 UC	1.00 UC	1.00 U	1.00 UC	10 U
Benzene	0.7	0.8J	2	0.2J	0.1JC	1.00 UC	0.2J	1.00 UC	0.4 J	1.00 UC	10 U
1,2-Dichloroethane	5	1.00 U	1.00 UC	1.00 U	1.00 UC	1.00 UC	0.5J	1.00 UC	1.00 U	1.00 UC	10 U
Trichloroethene	5	0.3J	0.2JC	1.00 U	1.00 UC	1.00 UC	1.20 JC	0.3 JC	0.4 J	0.4J	10 U
1,2-Dichloropropane	5	1.00 U	1.00 UC	1.00 U	1.00 UC	1.00 UC	1.00 UC	1.00 UC	1.00 U	1.00 UC	10 U
4-Methyl-2-pentanone	5	NA	NA	NA	NA	NA	NA	NA	1.00 U	NA	10 U
Bromodichloromethane	50	1.00 U	1.00 UC	1.00 U	1.00 UC	1.00 UC	1.00 UC	1.00 UC	1.00 U	1.00 UC	10 U
cis-1,3-Dichloropropene	5	1.00 U	1.00 UC	1.00 U	1.00 UC	1.00 UC	1.00 UC	1.00 UC	1.00 U	1.00 UC	10 U
Toluene	5	1.00 U	1.00 UC	0.2JB	1.00 UC	1.00 UC	0.2 JC	1.00 UC	1.00 U	1.00 UC	10 U
trans-1,3-Dichloropropene	5	1.00 U	1.00 UC	1.00 U	1.00 UC	1.00 UC	1.00 UC	1.00 UC	1.00 U	1.00 UC	10 U
1,1,2-Trichloroethane	50	1.00 U	1.00 UC	1.00 U	1.00 UC	1.00 UC	1.00 UC	1.00 UC	1.00 U	1.00 UC	10 U
Tetrachloroethene	5	0.6J	1.00 UC	0.1J	1.00 UC	1.00 UC	2	1.00 UC	1.00 U	0.2J	10 U
2-Hexanone	5	NA	NA	NA	NA	NA	NA	NA	1.00 U	NA	10 U
Dibromochloromethane	50	NA	1.00 UC	1.00 U	1.00 UC	1.00 UC	5.26 JC	1.00 UC	1.00 U	1.00 UC	10 U
Chlorobenzene	5	1.00 U	1.00 UC	0.5J	1.00 UC	1.00 UC	0.15 JC	1.00 UC	0.2 J	1.00 UC	10 U
Ethylbenzene	5	0.04J	0.11JC	1.00 U	1.00 UC	1.00 UC	1.00 UC	1.00 UC	1.00 U	1.00 UC	10 U
meta and/or para-Xylene	15	1.00 U	1.00 UC	1.00 U	1.00 UC	1.00 UC	1.00 UC	1.00 UC	1.00 U	1.00 UC	10 U
ortho-Xylene	15	1.00 U	1.00 UC	1.00 U	1.00 UC	1.00 UC	1.00 UC	1.00 UC	1.00 U	1.00 UC	10 U
Styrene	50	1.00 U	1.00 UC	1.00 U	1.00 UC	1.00 UC	0.2 JC	1.00 UC	1.00 U	1.00 UC	10 U
Bromoform	50	1.00 U	1.00 UC	0.18 J	1.00 UC	1.00 UC	0.75 JC	1.00 UC	1.00 UC	1.00 UC	10 U
1,1,2,2-Tetrachloroethane	5	1.00 U	1.00 UC	1.00 U	1.00 UC	1.00 UC	1.00 UC	1.00 UC	1.00 U	1.00 UC	10 U

U - Compound was analyzed for but not detected
J - The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.
B - The analyte is found in the blanks as well as the sample.
C - Laboratory calibration requirements are not met.
NA - Not available
(1) - 6 NYCRR 703 Groundwater Standards

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 15

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS

Sample Location:	Groundwater	5S	5D	6S	6D	7S	7D	8S	8I	9S	9I
Sample Designation:	Standard	FRC-5S-02	FRC-5D-02	FRC-6S-02	FRC-6D-02	FRC-7S-02	FRC-7D-02	FRC-8S-02	FRC-8I-02	FRC-9S-02	FRC-9I-02
Sample Date:	(1)	3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	2/26/93	2/26/93	2/26/93	2/26/93
Parameter: (Concentrations in ug/l)											
Chloromethane	5	1.00 UC	10 U	1.00 UC	50 U	10 U	10 U	10 U	0.47 JC	1.00 UC	1.00 UC
Vinyl Chloride	2	1.00 UC	10 U	1.00 UC	50 U	10 U	10 U	10 U	0.2J	1.00 UC	1.00 UC
Bromomethane	5	1.00 UC	10 U	1.00 UC	50 U	10 U	10 U	10 U	1.00 UC	1.00 UC	1.00 UC
Chloroethane	5	1.00 UC	10 U	1.00 UC	50 U	10 U	10 U	10 U	1.00 UC	1.00 UC	1.00 UC
Acetone	50	NA	10 U	1.00 UC	50 U	10 U	8J	10 U	1.00 UC	1.00 UC	1.00 UC
Methylene Chloride	5	1.00 UC	10 U	16JB	50 U	10 U	10 U	10 U	1.00 UC	1.00 UC	1.00 UC
1,1-Dichloroethene	5	1.00 UC	10 U	12JC	70	10 U	10 U	10 U	1.00 UC	1.00 UC	1.00 UC
trans-1,2-Dichloroethene	5	1.00 UC	10 U	1.00 UC	NA	NA	NA	10 U	NA	1.00 UC	1.00 UC
1,1-Dichloroethane	5	0.7JC	10 U	3JC	10J	10 U	10 U	10 U	0.9J	0.1J	0.8J
Carbon Disulfide	50	NA	10 U	1JC	50 U	10 U	10 U	10 U	1.00 UC	1.00 UC	0.06J
cis-1,2-Dichloroethene	5	1.00 UC	10 U	4JC	NA	NA	NA	10 U	1	1.00 UC	1.00 UC
2-Butanone	50	NA	10 U	1.00 UC	50 U	10 U	10 U	10 U	1.00 UC	1.00 UC	1.00 UC
Chloroform	7	1.00 UC	10 U	1.00 UC	50 U	10 U	10 U	10 U	1.00 UC	0.08JB	0.08JB
1,1,1-Trichloroethane	5	0.3JC	10 U	131C	662	10 U	10 U	10 U	1.00 UC	1.00 UC	0.1J
Vinyl Acetate	5	NA	NA	1.00 UC	NA	NA	NA	10 U	NA	NA	1.00 UC
Carbon Tetrachloride	5	1.00 UC	10 U	1.00 UC	50 U	10 U	10 U	10 U	1.00 UC	1.00 UC	1.00 UC
Benzene	0.7	0.09JC	10 U	1.00 UC	50 U	10 U	10 U	10 U	0.4J	0.06J	0.2J
1,2-Dichloroethane	5	1.00 UC	10 U	1.00 UC	50 U	10 U	10 U	10 U	0.37 JC	1.00 UC	1.00 UC
Trichloroethene	5	0.3JC	10 U	9JC	32J	22	38	10 U	0.4J	1	0.2J
1,2-Dichloropropane	5	1.00 UC	10 U	1.00 UC	50 U	10 U	10 U	10 U	1.00 UC	1.00 UC	1.00 UC
4-Methyl-2-pentanone	5	NA	NA	1.00 UC	50 U	10 U	10 U	10 U	1.00 UC	1.00 UC	1.00 UC
Bromodichloromethane	50	1.00 UC	10 U	1.00 UC	50 U	10 U	10 U	10 U	1.00 UC	1.00 UC	1.00 UC
cis-1,3-Dichloropropene	5	1.00 UC	10 U	1.00 UC	50 U	10 U	10 U	10 U	1.00 UC	1.00 UC	1.00 UC
Toluene	5	0.2JC	10 U	3JBC	50 U	10 U	10 U	10 U	0.2J	1.00 UC	0.3J
trans-1,3-Dichloropropene	5	1.00 UC	10 U	1.00 UC	50 U	10 U	10 U	10 U	1.00 UC	1.00 UC	1.00 UC
1,1,2-Trichloroethane	50	1.00 UC	10 U	1.00 UC	50 U	10 U	10 U	10 U	1.00 UC	1.00 UC	1.00 UC
Tetrachloroethene	5	0.6JC	10 U	6JC	14J	10 U	10 U	10 U	0.4J	0.6J	1.00 UC
2-Hexanone	5	NA	10 U	1.00 UC	50 U	10 U	10 U	10 U	1.00 UC	1.00 UC	1.00 UC
Dibromochloromethane	50	1.00 UC	10 U	1.00 UC	50 U	10 U	10 U	10 U	1.00 UC	1.00 UC	1.00 UC
Chlorobenzene	5	1.00 UC	10 U	1.00 UC	50 U	10 U	10 U	10 U	1.00 UC	1.00 UC	1.00 UC
Ethylbenzene	5	0.09JC	10 U	1.8JBC	50 U	10 U	10 U	10 U	1.00 UC	1.00 UC	0.1JB
meta and/or para-Xylene	15	1.00 UC	10 U	2JBC	NA	NA	NA	10 U	NA	NA	0.3J
ortho-Xylene	15	1.00 UC	10 U	1.00 UC	NA	NA	NA	10 U	NA	NA	0.2J
Styrene	50	1.00 UC	10 U	1.00 UC	50 U	10 U	10 U	10 U	1.00 UC	1.00 UC	1.00 UC
Bromoform	50	1.00 UC	10 U	0.95 UC	50 U	10 U	10 U	10 U	1.00 UC	1.00 UC	1.00 UC
1,1,2,2-Tetrachloroethane	5	1.00 UC	10 U	1.00 UC	50 U	10 U	10 U	10 U	1.00 UC	1.00 UC	1.00 UC

U - Compound was analyzed for but not detected
J - The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.
B - The analyte is found in the blanks as well as the sample.
C - Laboratory calibration requirements are not met.
NA - Not available
(1) - 6 NYCRR 703 Groundwater Standards

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 15

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS

Sample Location:	Groundwater	10S	10I	10D	11S	11I	11I	11D	MW12S
Sample Designation:	Standard (1)	FRC-10S-02	FRC-10I-02	FRC-10D-02	FRC-11S-02	FRC-11I-02	FRC-11I-02	FRC-11D-02	FRC-MW12S-02
Sample Date:		2/26/93	2/26/93	2/26/93	2/24/93	2/24/93	2/24/93	2/24/93	3/1/93
Parameter: (Concentrations in ug/l)									
Chloromethane	5	1.00 UC	1.00 UC	10 U	1.00 U	1.00 U	1.00 U	0.22 J	0.4 JC
Vinyl Chloride	2	1.00 UC	3	10 U	1.00 U	1.00 U	1.00 U	1.00 U	0.9 JC
Bromomethane	5	1.00 UC	1.00 UC	10 U	1.00 UC	1.00 UC	1.00 UC	1.00 U	0.1 JC
Chloroethane	5	1.00 UC	1.00 UC	10 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UC
Acetone	50	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	5	1.00 UC	1.00 UC	10 U	1.00 U	1.00 U	1.00 U	1.00 U	0.2JB
1,1-Dichloroethene	5	1.00 UC	0.3J	10 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
trans-1,2-Dichloroethene	5	0.3J	1	15 (TOTAL)	1.00 U	1.00 U	1.00 U	1.00 U	0.3JC
1,1-Dichloroethane	5	0.7J	2	10 U	0.08J	0.3J	0.4J	0.3J	0.4JC
Carbon Disulfide	50	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	5	0.3J	12	10 U	1.00 U	1.00 U	1.00 U	2	1.4
2-Butanone	50	NA	NA	10 U	NA	NA	NA	NA	NA
Chloroform	7	1.00 UC	1.00 UC	10 U	0.2 JB	0.3JB	0.4JB	0.3JB	1.00 UC
1,1,1-Trichloroethane	5	1.00 UC	0.2J	10 U	0.15 JB	0.2J	0.2J	0.4J	1.00 UC
Vinyl Acetate	5	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	1.00 UC	1.00 UC	10 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UC
Benzene	0.7	0.06J	0.2J	10 U	1.00 U	1.00 U	1.00 U	1.00 U	0.7JC
1,2-Dichloroethane	5	1.00 UC	1.00 UC	10 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UC
Trichloroethene	5	0.2J	5	7J	1.00 U	1.00 U	1.00 U	2	0.1JC
1,2-Dichloropropane	5	1.00 UC	1.00 UC	10 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
4-Methyl-2-pentanone	5	NA	NA	10 U	NA	NA	NA	NA	NA
Bromodichloromethane	50	1.00 UC	1.00 UC	10 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UC
cis-1,3-Dichloropropene	5	1.00 UC	1.00 UC	10 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UC
Toluene	5	1.00 UC	0.2J	10 U	1.00 U	1.00 U	1.00 U	1.00 U	0.1JB
trans-1,3-Dichloropropene	5	1.00 UC	1.00 UC	10 U	1.00 U	1.00 U	1.00 U	0.12 J	1.00 UC
1,1,2-Trichloroethane	50	1.00 UC	1.00 UC	10 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UC
Tetrachloroethene	5	1.00 UC	4	17	0.2J	1.00 U	1.00 U	1.00 U	1.00 UC
2-Hexanone	5	NA	NA	10 U	NA	NA	NA	NA	NA
Dibromochloromethane	50	2.77 JC	9.05 JC	10 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UC
Chlorobenzene	5	1.00 UC	1.00 UC	10 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UC
Ethylbenzene	5	1.00 UC	0.05JB	10 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UC
meta and/or para-Xylene	15	1.00 UC	0.2J	10 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UC
ortho-Xylene	15	1.00 UC	1.00 UC	10 U	1.00 U	1.00 U	1.00 U	1.00 U	0.4JC
Styrene	50	1.00 UC	1.00 UC	10 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UC
Bromoform	50	1.00 UC	1.00 UC	10 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UC
1,1,2,2-Tetrachlorethane	5	1.00 UC	1.00 UC	10 U	1.00 U	1.00 U	1.00 U	1.00 U	0.7 C

U - Compound was analyzed for but not detected

J - The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.

B - The analyte is found in the blanks as well as the sample.

C - Laboratory calibration requirements are not met.

NA - Not available

(1) - 6 NYCRR 703 Groundwater Standards

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 15

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS

Sample Designation:	Groundwater	FRC-930224	TB-02
Sample Date:	Standard	2/24/93	2/26/93
Parameter: (Concentrations in ug/l)	(1)		
Chloromethane	5	10 U	10 U
Vinyl Chloride	2	10 U	10 U
Bromomethane	5	10 U	10 U
Chloroethane	5	10 U	10 U
Acetone	50	10 U	15B
Methylene Chloride	5	0.2JB	0.4JB
1,1-Dichloroethene	5	10 U	10 U
trans-1,2-Dichloroethene	5	10 U	10 U
1,1-Dichloroethane	5	10 U	10 U
Carbon Disulfide	50	10 U	10 U
cis-1,2-Dichloroethene	5	10 U	10 U
2-Butanone	50	10 U	10 U
Chloroform	7	2B	1
1,1,1-Trichloroethane	5	10 U	10 U
Vinyl Acetate	5	10 U	10 U
Carbon Tetrachloride	5	10 U	10 U
Benzene	0.7	10 U	10 U
1,2-Dichloroethane	5	10 U	10 U
Trichloroethene	5	10 U	10 U
1,2-Dichloropropane	5	10 U	10 U
4-Methyl-2-pentanone	5	10 U	10 U
Bromodichloromethane	50	10 U	0.4J
cis-1,3-Dichloropropene	5	10 U	10 U
Toluene	5	0.1J	0.2JB
trans-1,3-Dichloropropene	5	10 U	10 U
1,1,2-Trichloroethane	50	10 U	10 U
Tetrachloroethene	5	10 U	10 U
2-Hexanone	5	10 U	10 U
Dibromochloromethane	50	10 U	10 U
Chlorobenzene	5	10 U	10 U
Ethylbenzene	5	10 U	10 U
meta and/or para-Xylene	15	10 U	10 U
ortho-Xylene	15	10 U	10 U
Styrene	50	10 U	10 U
Bromoform	50	10 U	10 U
1,1,2,2-Tetrachlorethane	5	10 U	10 U

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B - The analyte is found in the blanks as well as the sample.
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NA - Not available
(1) - 6 NYCRR 703 Groundwater Standards

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 15

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS

Sample Location:	1S	1D	2D	2XD	3D	4S	4D	5S	5D	6S
Sample Designation:	FRC-1S-01	FRC-1D-01	FRC-2D-01	FRC-2XD-01	FRC-3D-01	FRC-4S-01	FRC-4D-01	FRC-5S-01	FRC-5D-01	FRC-6S-01
Sample Date:	12/3/92	12/3/92	12/3/92	12/2/92	12/2/92	12/2/92	12/2/92	12/2/92	12/2/92	12/10/92
Tentatively Identified Compounds (TICs) (Concentrations in ug /l)										
total unknowns	14J	5J	ND	ND	11J	ND	ND	ND	ND	ND
total unknown siloxanes	8J	14J	21J	18J	9J	ND	ND	49J	69J	47J
total unknown alkanes	9J	62J	ND	ND	ND	ND	ND	ND	ND	ND
total unknown branched alkanes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
unknown cycloalkane	ND	11J	ND	ND	ND	ND	ND	ND	ND	ND
butane, 2-methoxy-2-methyl	ND	ND	ND	ND	56JN	ND	ND	ND	ND	ND
cyclotetrasiloxane, octamethyl	ND	ND	ND	18JN	ND	ND	ND	68JN	62JN	ND
cyclotrisiloxane, hexamethyl	ND	ND	ND	ND	ND	ND	ND	35JN	ND	ND

Sample Location:	6D	6D	7S	7D	8I	9S	9I	10S	10I	10D
Sample Designation:	FRC-6D-01	FRC-6D-01 DUP	FRC-7S-01	FRC-7D-01	FRC-8I-01	FRC-9S-01	FRC-9I-01	FRC-10S-01	FRC-10I-01	FRC-10D-01
Sample Date:	12/10/92	12/10/92	12/3/92	12/3/92	12/3/92	12/2/92	12/2/92	12/3/92	12/3/92	12/3/92
Tentatively Identified Compounds (TICs) (Concentrations in ug /l)										
total unknown siloxanes	ND	ND	24J	ND	ND	ND	ND	8J	ND	ND

Sample Location:	10D	11S	11I	MW12S		
Sample Designation:	FRC-10D-01 DUP	FRC-11S-01	FRC-11I-01	FRC-MW12S-01	FRC-TB-01	FRC-TB-921204
Sample Date:	12/3/92	12/4/92	12/4/92	12/7/92	---	---
Tentatively Identified Compounds (TICs) (Concentrations in ug /l)						
total unknowns	35J	ND	ND	ND	ND	ND
total unknown siloxanes	10J	ND	ND	10J	ND	ND

ND - Not detected
J - The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.
N - Compound was analyzed for but not requested as an analyte

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 15

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS

Sample Location:	1S	1D	2S	2S	2XD	3S	3D	4S	4D	5S
Sample Designation:	FRC-1S-02	FRC-1D-02	FRC-2S-02	FRC-2S-02 DUP	FRC-2XD-02	FRC-3S-02	FRC-3D-02	FRC-4S-02	FRC-4D-02	FRC-5S-02
Sample Date:	3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	2/25/93	2/26/93	2/26/93	2/26/93	3/1/93
Tentatively Identified Compounds (TICs) (concentrations in ug /l)										
total unknowns	4J	4J	ND	ND	ND	ND	34J	ND	ND	ND
total unknown siloxanes	ND	ND	ND	ND	ND	ND	ND	ND	10D	1J
total unknown alkanes	ND	ND	ND	ND	ND	ND	8J	ND	ND	ND
total unknown branched alkanes	39J	26J	ND	ND	ND	ND	ND	ND	ND	ND
unknown cycloalkane	ND	4J	ND	ND	ND	ND	ND	ND	ND	ND
unknown branched cycloalkane	ND	3J	ND	ND	ND	ND	ND	ND	ND	ND
unknown alkene	ND	ND	ND	ND	ND	ND	52J	ND	ND	ND
unknown branched alkene	2J	ND	ND	ND	ND	ND	4J	ND	ND	ND
total unknown cycloalkenes	8J	ND	ND	ND	ND	ND	ND	ND	ND	ND
total unknown alkylbenzenes	ND	4J	ND	ND	ND	ND	ND	ND	ND	ND
cyclotrisiloxane, hexamethyl	ND	ND	ND	ND	ND	ND	2JN	ND	ND	ND
unknown alchohol	ND	ND	ND	ND	ND	ND	4J	ND	ND	ND
unknown aromatic	3J	ND	ND	ND	ND	ND	ND	ND	ND	ND

Sample Location:	5D	6S	6D	7S	7D	8S	8I	9S	9I	10S
Sample Designation:	FRC-5D-02	FRC-6S-02	FRC-6D-02	FRC-7S-02	FRC-7D-02	FRC-8S-02	FRC-8I-02	FRC-9S-02	FRC-9I-02	FRC-10S-02
Sample Date:	3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	2/26/93	2/26/93	2/26/93	2/26/93	2/26/93
Tentatively Identified Compounds (TICs) (Concentrations in ug /l)										
total unknowns	1J	ND	ND	ND	ND	ND	1J	ND	ND	ND
total unknown siloxanes	ND	ND	ND	ND	ND	ND	2J	ND	ND	ND
unknown alkene	ND	ND	ND	ND	ND	ND	1J	ND	ND	ND

Sample Location:	10I	10D	11S	11I	11I	11D	MW12S		
Sample Designation:	FRC-10I-02	FRC-10D-02	FRC-11S-02	FRC-11I-02	FRC-11I-02-D DUP	FRC-11D-02	FRC-MW12S-02	FRC-TB-02	FRC-930224
Sample Date:	2/26/93	2/26/93	2/24/93	2/24/93	2/24/93	2/24/93	3/1/93	---	---
Tentatively Identified Compounds (TICs) (Concentrations in ug /l)									
total unknowns	ND	ND	ND	ND	ND	1J	ND	ND	ND
total unknown siloxanes	ND	ND	ND	2J	1J	ND	ND	ND	ND
total unknown alkylbenzenes	ND	ND	ND	ND	ND	ND	4J	ND	ND
total unknown carboxylic acids	ND	ND	ND	ND	ND	ND	ND	110J	ND

ND - Not detected
J - The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.
N - Compound was analyzed for but not requested as an analyte

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 16

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample Location:	Groundwater	1S	1D	2S	2D	2XD	3S	3D	4S	4D
Sample Designation:	Standards (1)	FRC-1S-01	FRC-1D-01	FRC-2S-01	FRC-2D-01	FRC-2XD-01	FRC-3S-01	FRC-3D-01	FRC-4S-01	FRC-4D-01
Sample Date:		12/3/92	12/3/92	12/3/92	12/3/92	12/2/92	12/2/92	12/2/92	12/2/92	12/2/92
Parameter: (Concentrations in ug/l										
Phenol		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
bis(2-Chlorophenol)ether		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
2-Chlorophenol		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
1,3-Dichlorobenzene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
1,4-Dichlorobenzene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
1,2-Dichlorobenzene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
2-Methylphenol		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
2,2'-oxybis(1-Chloropropane)		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
4-Methylphenol		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
N-Nitroso-di-n-propylamine		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
Hexachloroethane		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
Nitrobenzene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
Isophorone		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
2-Nitrophenol		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
2,4-Dimethylphenol		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
bis(2-Chloroethoxy)methane		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
2,4-Dichlorophenol		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
1,2,4-Trichlorobenzene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
Naphthalene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
4-Chloroaniline		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
Hexachlorobutadiene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
4-Chloro-3-methylphenol		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
2-Methylnaphthalene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
Hexachlorocyclopentadiene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
2,4,6-Trichlorophenol		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
2,4,5-Trichlorophenol		27 U	25 U	26 U	26 U	26 U	26 U	25 U	26 UC	25 U
2-Chloronaphthalene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
2-Nitroaniline		27 U	25 U	26 U	26 U	26 U	26 U	25 U	26 UC	25 U
Dimethylphthalate		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
Acenaphthylene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
2,6-Dinitrotoluene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
3-Nitroaniline		27 U	25 U	26 U	26 U	26 U	26 U	25 U	26 UC	25 U
Acenaphthene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U

U - Compound was analyzed for but not detected

J - The concentration listed is an estimated value, which is less than the specified detection limit but is greater than zero

C - Laboratory calibration requirements are not met.

(1) - 6 NYCRR 703 Groundwater Standards. The standard is listed only if the compound was detected.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 16

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample Location:	Groundwater	1S	1D	2S	2D	2XD	3S	3D	4S	4D
Sample Designation:	Standards	FRC-1S-01	FRC-1D-01	FRC-2S-01	FRC-2D-01	FRC-2XD-01	FRC-3S-01	FRC-3D-01	FRC-4S-01	FRC-4D-01
	(1)									
Sample Date:		12/3/92	12/3/92	12/3/92	12/3/92	12/2/92	12/2/92	12/2/92	12/2/92	12/2/92
Parameter: (Concentrations in ug/l										
2,4-Dinitrophenol		27 U	25 U	26 U	26 U	26 U	26 U	25 U	26 UC	25 U
4-Nitrophenol		27 U	25 U	26 U	26 U	26 U	26 U	25 U	26 UC	25 U
Dibenzofuran		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
2,4-Dinitrotoluene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
Diethylphthalate	50*	0.2JB	0.5JB	0.3JB	0.2JB	0.3JB	0.3JB	0.4JB	0.3JB	0.3JB
4-Chlorophenyl-phenylether		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
Flourene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
4-Nitroaniline		27 U	25 U	26 U	26 U	26 U	26 U	26 U	26 UC	25 U
4,6-Dinitro-2-methylphenol		27 U	25 U	26 U	26 U	26 U	26 U	26 U	26 UC	25 U
N-Nitrosodiphenylamine		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
4-Bromophenyl-phenylether		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
Hexachlorobenzene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
Pentachlorophenol		27 U	25 U	26 U	26 U	26 U	26 U	26 U	26 UC	25 U
Phenanthrene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
Anthracene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
Carbazole		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
Di-n-butylphthalate	NA	11 U	0.6JB	0.2JB	0.2JB	1JB	0.5JB	0.4JB	0.4JB	0.5JB
Fluoranthene	50*	11 U	10 U	0.2J	10 U	10 U	10 U	10 U	10 UC	10 U
Pyrene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
Butylbenzylphthalate	50*	11 U	0.2J	0.3J	10 U	0.2J	10 U	10 U	10 UC	10 U
3,3'-Dichlorobenzidine		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
Benzo(a)anthracene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
Chrysene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
bis(2-Ethylhexyl)phthalate	50	0.7JB	1JB	1JB	2JB	3JB	0.4JB	0.5JB	0.6JB	2JB
Di-n-octylphthalate		11 U	10 U	10 U	2JB	0.2J	10 U	10 U	10 UC	10 U
Benzo(b)fluoranthene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
Benzo(k)fluoranthene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
Benzo(a)pyrene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
Indeno(1,2,3-cd)pyrene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
Dibenzo(a,h)anthracene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U
Benzo(g,h,i)perylene		11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UC	10 U

U - Compound was analyzed for but not detected

J - The concentration listed is an estimated value, which is less than the specified detection limit but is greater than zero.

C - Laboratory calibration requirements are not met.

B - The analyte is found in the blanks as well as the sample

NA - Not Applicable

(1) - 6 NYCRR 703 Groundwater Standards. The standard is listed only if the compound was detected.

* - 6 NYCRR 703 Groundwater Guidance Values.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 16

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample Location:	Groundwater	5D	6S	6D	6D	7S	7D	8S	8I	9S
Sample Designation:	Standards	FRC-5D-01	FRC-6S-01	FRC-6D-01	FRC-6D-01 DUP	FRC-7S-01	FRC-7D-01	FRC-8S-01	FRC-8I-01	FRC-9S-01
Sample Date:	(1)	12/2/92	12/3/92	12/10/92	12/10/92	12/3/92	12/3/92	12/2/92	12/2/92	12/3/92
Parameter: (Concentrations in ug/l										
Phenol		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chlorophenol)ether		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	11 U	10 U	10 U	0.2J	10 U	10 U	10 U
2-Methylphenol		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	50*	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		25 U	26 U	28 U	26 U	26 U	26 U	26 U	26 U	26 U
2-Chloronaphthalene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		25 U	26 U	28 U	26 U	26 U	26 U	26 U	26 U	26 U
Dimethylphthalate		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		25 U	26 U	28 U	26 U	26 U	26 U	26 U	26 U	26 U
Acenaphthene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U

U - Compound was analyzed for but not detected

J - The concentration listed is an estimated value, which is less than the specified detection limit but is greater than zero.

C - Laboratory calibration requirements are not met.

(1) - 6 NYCRR 703 Groundwater Standards. The standard is listed only if the compound was detected.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 16

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample Location:	Groundwater	5D	6S	6D	6D	7S	7D	8S	8I	9S
Sample Designation:	Standards	FRC-5D-01	FRC-6S-01	FRC-6D-01	FRC-6D-01 DUP	FRC-7S-01	FRC-7D-01	FRC-8S-01	FRC-8I-01	FRC-9S-01
	(1)									
Sample Date:		12/2/92	12/3/92	12/10/91	12/10/92	12/3/92	12/3/92	12/2/92	12/2/92	12/3/92
Parameter: (Concentrations in ug/l										
2,4-Dinitrophenol		26 U	26 U	28 U	26 U	26 U	26 U	26 U	26 U	26 U
4-Nitrophenol		26 U	26 U	28 U	26 U	26 U	26 U	26 U	26 U	26 U
Dibenzofuran		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	50*	0.2JB	0.4JB	11 U	10 U	0.2JB	0.7JB	0.5JB	0.5JB	0.2JB
4-Chlorophenyl-phenylether		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Flourene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		26 U	26 U	28 U	26 U	26 U	26 U	26 U	26 U	26 U
4,6-Dinitro-2-methylphenol		26 U	26 U	28 U	26 U	26 U	26 U	26 U	26 U	26 U
N-Nitrosodiphenylamine		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol		26 U	26 U	28 U	26 U	26 U	26 U	26 U	26 U	26 U
Phenanthrene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	NA	0.6JB	0.4JB	1J	1J	10 U	1JB	0.8JB	0.7JB	0.2JB
Fluoranthene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	50*	0.2J	10 U	11 U	10 U	10 U	10 U	0.2J	10 U	10 U
3,3'-Dichlorobenzidine		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	50	2JB	1JB	1J	3J	0.8JB	2JB	0.5JB	2JB	0.8JB
Di-n-octylphthalate	50*	10 U	10 U	0.1J	10 U	10 U	10 U	10 U	0.1J	10 U
Benzo(b)fluoranthene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U

U - Compound was analyzed for but not detected
J - The concentration listed is an estimated value, which is less than the specified detection limit but is greater than zero.
C - Laboratory calibration requirements are not met.
B - The analyte is found in the blanks as well as the sample
NA - Not Applicable
(1) - 6 NYCRR 703 Groundwater Standards. The standard is listed only if the compound was detected.
* - 6 NYCRR 703 Groundwater Guidance Values

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 16

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample Location:	Groundwater	10S	10I	10D	10D	11S	11I	11D	MW12S	
Sample Designation:	Standards	FRC-10S-01	FRC-10I-01	FRC-10D-01	FRC-10D-01 DUP	FRC-11S-01	FRC-11I-01	FRC-11D-01	FRC-MW12S-01	FRC-RB-01
	(1)									
Sample Date:		12/3/92	12/3/92	12/3/92	12/3/92	12/4/92	12/4/92	12/3/92	12/7/92	12/7/92
Parameter: (Concentrations in ug/l										
Phenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chlorophenol)ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.3J	10 U
N-Nitroso-di-n-propylamine		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	4J	0.9J
4-Chloroaniline		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5J	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		26 U	26 U	26 U	26 U	26 U	26 U	26 U	25 U	25 U
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		26 U	26 U	26 U	26 U	26 U	26 U	26 U	25 U	25 U
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.3J	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		26 U	26 U	26 U	26 U	26 U	26 U	26 U	25 U	25 U
Acenaphthene	20	10 U	10 U	10 U	10 U	10 U	10 U	10 U	7J	10 U

U - Compound was analyzed for but not detected

J - The concentration listed is an estimated value, which is less than the specified detection limit but is greater than zero.

C - Laboratory calibration requirements are not met.

NA - Not Applicable

(1) - 6 NYCRR 703 Groundwater Standards. The standard is listed only if the compound was detected.

* - 6 NYCRR 703 Groundwater Guidance Values.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 16

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample Location:	Groundwater	1S	1D	2S	2S	2D	2XD	3S	3D	4S
Sample Designation:	Standards (1)	FRC-1S-02	FRC-1D-02	FRC-2S-02 DUP	FRC-2S-02	FRC-2D-02	FRC-2XD-02	FRC-3S-02	FRC-3D-02	FRC-4S-02
Sample Date:		3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	2/25/93	2/26/93	2/26/93
Parameter: (Concentrations in ug/l										
Phenol		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		26 U	26 U	26 U	28 U	26 U	25 U	26 U	26 U	26 U
2-Chloronaphthalene		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		26 U	26 U	26 U	28 U	26 U	25 U	26 U	26 U	26 U
Dimethylphthalate		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		26 U	26 U	26 U	28 U	26 U	25 U	26 U	26 U	26 U
Acenaphthene		10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U

U - Compound was analyzed for but not detected

(1) - 6 NYCRR 703 Groundwater Standards. The standard is listed only if the compound was detected.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 16

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample Location:	Groundwater	10S	10I	10D	10D	11S	11I	11D	MW12S	
Sample Designation:	Standards	FRC-10S-01	FRC-10I-01	FRC-10D-01	FRC-10D-01-DUP	FRC-11S-01	FRC-11I-01	FRC-11D-01	FRC-MW12S-01	FRC-RB-01
	(1)									
Sample Date:		12/3/92	12/3/92	12/3/92	12/3/92	12/4/92	12/4/92	12/3/92	12/7/92	12/7/92
Parameter: (Concentrations in ug/l)										
2,4-Dinitrophenol		26 U	26 U	26 U	26 U	26 U	26 U	26 U	25 U	25 U
4-Nitrophenol		26 U	26 U	26 U	26 U	26 U	26 U	26 U	25 U	25 U
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	10 U	10 U	3 J	10 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	50*	0.4JB	0.3JB	0.3JB	0.5JB	0.1JB	0.5JB	0.3JB	10 U	10 U
4-Chlorophenyl-phenylether		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Flourene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	6J	10 U
4-Nitroaniline		26 U	26 U	26 U	26 U	26 U	26 U	26 U	25 U	25 U
4,6-Dinitro-2-methylphenol		26 U	26 U	26 U	26 U	26 U	26 U	26 U	25 U	25 U
N-Nitrosodiphenylamine		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol		26 U	26 U	26 U	26 U	26 U	26 U	26 U	25 U	25 U
Phenanthrene	50*	10 U	10 U	10 U	0.1J	10 U	10 U	10 U	3J	10 U
Anthracene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.5J	10 U
Carbazole	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1J	10 U
Di-n-butylphthalate	50	0.5JB	0.3JB	0.3JB	0.4JB	0.3JB	0.5JB	0.4JB	0.4JB	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1J	10 U
Pyrene	50*	10 U	10 U	10 U	0.1J	10 U	10 U	10 U	0.9J	10 U
Butylbenzylphthalate	50*	10 U	0.3J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.6J	10 U
bis(2-Ethylhexyl)phthalate	50	1JB	3JB	1JB	3JB	1JB	1JB	0.8JB	2JB	2J
Di-n-octylphthalate	50*	10 U	2J	1J	2J	10 U	1JB	0.4JB	10 U	10 U
Benzo(b)fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.5J	10 U
Benzo(k)fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.6J	10 U
Benzo(a)pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.6J	10 U
Indeno(1,2,3-cd)pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.2J	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.6J	10 U

U - Compound was analyzed for but not detected

J - The concentration listed is an estimated value, which is less than the specified detection limit but is greater than zero.

C - Laboratory calibration requirements are not met.

B - The analyte is found in the blanks as well as the sample

NA - Not Applicable

(1) - 6 NYCRR 703 Groundwater Standards. The standard is listed only if the compound was detected

* - 6 NYCRR 703 Groundwater Guidance Values.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 16

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample Location:	Groundwater	1S	1D	2S	2S	2D	2XD	3S	3D	4S
Sample Designation:	Standards	FRC-1S-02	FRC-1D-02	FRC-2S-02	FRC-2S-02	FRC-2D-02	FRC-2XD-02	FRC-3S-02	FRC-3D-02	FRC-4S-02
	(1)				DUP					
Sample Date:		3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	2/25/93	2/26/93	2/26/93
Parameter: (Concentrations in ug/l										
2,4-Dinitrophenol		10 U	26 U	28 U	26 U	26 U	25 U	26 U	10 U	26 U
4-Nitrophenol		26 U	26 U	28 U	26 U	26 U	25 U	26 U	10 U	26 U
Dibenzofuran		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	50*	10 U	10 U	11 U	10 U	10 U	0.2J	10 U	10 U	10 U
4-Chlorophenyl-phenylether		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		26 U	26 U	28 U	26 U	26 U	25 U	26 U	10 U	26 U
4,6-Dinitro-2-methylphenol		26 U	26 U	28 U	26 U	26 U	25 U	26 U	10 U	26 U
N-Nitrosodiphenylamine(1)		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol		26 U	26 U	28 U	26 U	26 U	25 U	26 U	10 U	26 U
Phenanthrene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	NA	0.4JB	0.4JB	0.4JB	10 U	10 U	0.5JB	0.5JB	0.6JB	0.6JB
Fluoranthene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	50*	0.2JB	0.2JB	0.1JB	0.4JB	10 U	10 U	10 U	10 U	0.3J
3,3'-Dichlorobenzidine		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	50	0.5JB	0.8JB	1.2JB	0.8JB	0.7JB	0.2JB	0.6JB	0.7JB	0.8JB
Di-n-octylphthalate	50*	0.2J	10 U	11 U	10 U	10 U	10 U	10 U	10 U	0.4J
Benzo(b)fluoranthene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U

U - Compound was analyzed for but not detected

J - The concentration listed is an estimated value, which is less than the specified detection limit but is greater than zero.

B - The analyte is found in the blanks as well as the sample

NA - Not Applicable

(1) - 6 NYCRR 703 Groundwater Standards. The standard is listed only if the compound was detected.

* - 6 NYCRR 703 Groundwater Guidance Values.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 16

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample Location:	Groundwater	5S	5D	6S	6D	7S	7D	8S	8I	9S
Sample Designation:	Standards	FRC-5S-02	FRC-5D-02	FRC-6S-02	FRC-6D-02	FRC-7S-02	FRC-7D-02	FRC-8S-02	FRC-8I-02	FRC-9S-02
	(1)									
Sample Date:		3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	2/26/93	2/26/93	2/26/93
Parameter: (Concentrations in ug/l										
Phenol		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	5	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	11 U	10 U	10 U	0.2J	10 U	10 U	10 U
2-Methylphenol		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	50*	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		26 U	26 U	28 U	26 U	26 U	26 U	26 U	26 U	26 U
2-Chloronaphthalene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		26 U	26 U	28 U	26 U	26 U	26 U	26 U	26 U	26 U
Dimethylphthalate		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		26 U	26 U	28 U	26 U	26 U	26 U	26 U	26 U	26 U
Acenaphthene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U

U - Compound was analyzed for but not detected

J - The concentration listed is an estimated value, which is less than the specified detection limit but is greater than zero.

(1) - 6 NYCRR 703 Groundwater Standards. The standard is listed only if the compound was detected.

* - 6 NYCRR 703 Groundwater Guidance Values.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 16

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample Location:	Groundwater	5S	5D	6S	6D	7S	7D	8S	8I	9S
Sample Designation:	Standards	FRC-5S-02	FRC-5D-02	FRC-6S-02	FRC-6D-02	FRC-7S-02	FRC-7D-02	FRC-8S-02	FRC-8I-02	FRC-9S-02
	(1)									
Sample Date:		3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	2/26/93	2/26/93	2/26/93
Parameter: (Concentrations in ug/l)										
2,4-Dinitrophenol		26 U	26 U	28 U	26 U	26 U	26 U	10 U	10 U	10 U
4-Nitrophenol		26 U	26 U	28 U	26 U	26 U	26 U	10 U	10 U	10 U
Dibenzofuran		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	50*	10 U	0.6J	11 U	10 U	0.6J	2J	0.3J	0.3J	10 U
4-Chlorophenyl-phenylether		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		26 U	26 U	28 U	26 U	26 U	26 U	10 U	10 U	10 U
4,6-Dinitro-2-methylphenol		26 U	26 U	28 U	26 U	26 U	26 U	10 U	10 U	10 U
N-Nitrosodiphenylamine(1)		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	1	26 U	26 U	28 U	26 U	26 U	26 U	10 U	10 U	10 U
Phenanthrene	50*	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	NA	0.6JB	0.6JB	11 U	10 U	0.6JB	0.3JB	0.5JB	0.5JB	0.4JB
Fluoranthene	50*	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	50*	10 U	10 U	11 U	10 U	0.4JB	0.2JB	10 U	10 U	0.1J
3,3'-Dichlorobenzidine		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	50	0.7JB	2JB	0.6JB	0.3JB	0.8JB	1JB	0.3JB	1JB	0.5JB
Di-n-octylphthalate	NA	10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U

U - Compound was analyzed for but not detected

J - The concentration listed is an estimated value, which is less than the specified detection limit but is greater than zero.

B - The analyte is found in the blanks as well as the sample

NA - Not Applicable

(1) - 6 NYCRR 703 Groundwater Standards. The standard is listed only if the compound was detected.

* - 6 NYCRR 703 Groundwater Guidance Values.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 16

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample Location:	Groundwater	10S	10I	10D	11S	11I	11I	11D	MW-12S
Sample Designation:	Standards	FRC-10S-02	FRC-10I-02	FRC-10D-02	FRC-11S-02	FRC-11I-02	FRC-11I-02 DUP	FRC-11D-02	FRC-MW12S-02
	(1)								
Sample Date:		2/26/93	2/26/93	2/26/93	2/24/93	2/24/93	2/24/93	2/24/93	3/1/93
Parameter: (Concentrations in ug/l									
Phenol		10 U	10 UC	10 U	11 U	11 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether		10 U	10 UC	10 U	11 U	11 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 UC	10 U	11 U	11 U	10 U	10 U	10 U
1,3-Dichlorobenzene		10 U	10 UC	10 U	11 U	11 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 UC	10 U	11 U	11 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 UC	10 U	11 U	11 U	10 U	10 U	10 U
2-Methylphenol		10 U	10 UC	10 U	11 U	11 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 UC	10 U	11 U	11 U	10 U	10 U	10 U
Hexachloroethane		10 U	10 UC	10 U	11 U	11 U	10 U	10 U	10 U
Nitrobenzene		10 U	10 UC	10 U	11 U	11 U	10 U	10 U	10 U
Isophorone		10 U	10 UC	10 U	11 U	11 U	10 U	10 U	10 U
2-Nitrophenol		10 U	10 UC	10 U	11 U	11 U	10 U	10 U	10 U
2,4-Dimethylphenol		10 U	10 UC	10 U	11 U	11 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10 U	10 UC	10 U	11 U	11 U	10 U	10 U	10 U
2,4-Dichlorophenol		10 U	10 UC	10 U	11 U	11 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene		10 U	10 UC	10 U	11 U	11 U	10 U	10 U	10 U
Naphthalene	10	10 U	10 UC	10 U	11 U	11 U	10 U	10 U	2J
4-Chloroaniline		10 U	10 UC	10 U	11 U	11 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 UC	10 U	11 U	11 U	10 U	10 U	10 U
4-Chloro-3-methylphenol		10 U	10 UC	10 U	11 U	11 U	10 U	10 U	10 U
2-Methylnaphthalene	NA	10 U	10 UC	10 U	11 U	11 U	10 U	10 U	4J
Hexachlorocyclopentadiene		10 U	10 UC	10 U	11 U	11 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		10 U	10 UC	10 U	11 U	11 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		26 U	26 UC	26 U	28 U	28 U	26 U	26 U	26 U
2-Chloronaphthalene		10 U	10 UC	10 U	11 U	11 U	10 U	10 U	10 U
2-Nitroaniline		26 U	26 UC	26 U	28 U	28 U	26 U	26 U	26 U
Dimethylphthalate		10 U	10 UC	10 U	11 U	11 U	10 U	10 U	10 U
Acenaphthylene	NA	10 U	10 UC	10 U	11 U	11 U	10 U	10 U	0.2J
2,6-Dinitrotoluene		10 U	10 UC	10 U	11 U	11 U	10 U	10 U	10 U
3-Nitroaniline		26 U	26 UC	26 U	28 U	28 U	26 U	26 U	26 U
Acenaphthene	20	10 U	10 UC	10 U	11 U	11 U	10 U	10 U	5J

U - Compound was analyzed for but not detected

J - The concentration listed is an estimated value, which is less than the specified detection limit but is greater than zero.

C - Laboratory calibration requirements are not met.

NA - Not Applicable

(1) - 6 NYCRR 703 Groundwater Standards. The standard is listed only if the compound was detected.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 16

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample Location:	Groundwater	10S	10I	10D	11S	11I	11I	11D	MW-12S
Sample Designation:	Standards	FRC-10S-02	FRC-10I-02	FRC-10D-02	FRC-11S-02	FRC-11I-02	FRC-11I-02 DUP	FRC-11D-02	FRC-MW12S-02 O2
	(1)								
Sample Date:		2/26/93	2/26/93	2/26/93	2/24/93	2/24/93	2/24/93	2/24/93	3/1/93
Parameter: (Concentrations in ug/l									
4-Nitrophenol		26 U	26 UC	26 U	28 U	28 U	26 U	26 U	26 U
Dibenzofuran		10 U	10 U	10 U	11 U	11 U	10 U	10 U	2J
2,4-Dinitrotoluene		10 U	10 U	10 U	11 U	11 U	10 U	10 U	10 U
Diethylphthalate	50*	10 U	0.2J	0.3J	11 U	0.4J	10 U	0.6J	2J
4-Chlorophenyl-phenylether		10 U	10 U	10 U	11 U	11 U	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U	11 U	11 U	10 U	10 U	4J
4-Nitroaniline		26 U	26 U	26 U	28 U	28 U	26 U	26 U	26 U
4,6-Dinitro-2-methylphenol		26 U	26 U	26 U	28 U	28 U	26 U	26 U	26 U
N-Nitrosodiphenylamine	50*	10 U	10 U	10 U	11 U	11 U	10 U	10 U	0.3J
4-Bromophenyl-phenylether		10 U	10 U	10 U	11 U	11 U	10 U	10 U	10 U
Hexachlorobenzene		10 U	10 U	10 U	11 U	11 U	10 U	10 U	10 U
Pentachlorophenol		26 U	26 U	26 U	28 U	28 U	26 U	26 U	26 U
Phenanthrene	50*	10 U	10 U	10 U	11 U	11 U	10 U	10 U	2J
Anthracene		10 U	10 U	10 U	11 U	11 U	10 U	10 U	0.3J
Carbazole		10 U	10 U	10 U	11 U	11 U	10 U	10 U	0.7J
Di-n-butylphthalate	NA	0.6JB	0.7JB	0.7JB	0.6JB	0.6JB	1JB	0.7JB	0.4JB
Fluoranthene	50*	10 U	10 U	10 U	11 U	11 U	10 U	0.4J	0.9J
Pyrene	50*	10 U	10 U	10 U	11 U	11 U	10 U	10 U	0.7J
Butylbenzylphthalate	50*	10 U	0.4J	0.5J	11 U	0.4J	0.4J	0.6J	10 U
3,3'-Dichlorobenzidine		10 U	10 U	10 U	11 U	11 U	10 U	10 U	10 U
Benzo(a)anthracene		10 U	10 U	10 U	11 U	11 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	0.2J	10 U	11 U	11 U	10 U	10 U	0.4J
bis(2-Ethylhexyl)phthalate	50	0.7JB	1JB	3JB	3 JB	2JB	3JB	5JB	0.6JB
Di-n-octylphthalate	50*	10 U	0.4J	0.4J	11 U	11 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.002*	10 U	0.4J	10 U	11 U	11 U	10 U	10 U	0.3J
Benzo(k)fluoranthene	0.002*	10 U	0.3J	10 U	11 U	11 U	10 U	10 U	0.3J
Benzo(a)pyrene	ND	10 U	0.4J	10 U	11 U	11 U	10 U	10 U	0.3J
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	11 U	11 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	11 U	11 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	11 U	11 U	10 U	10 U	10 U

U - Compound was analyzed for but not detected
J - The concentration listed is an estimated value, which is less than the specified detection limit but is greater than zero.
C - Laboratory calibration requirements are not met.
B - The analyte is found in the blanks as well as the sample
NA - Not Applicable
ND - Not Detected
(1) - 6 NYCRR 703 Groundwater Standards. The standard is listed only if the compound was detected.
* - 6 NYCRR 703 Groundwater Guidance Values.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 16

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample Location:	1S	1D	2S	2D	2XD	3S	3D	4S	4D	5S
Sample Designation:	FRC-1S-01	FRC-1D-01	FRC-2S-01	FRC-2D-01	FRC-2XD-01	FRC-3S-01	FRC-3D-01	FRC-4S-01	FRC-4D-01	FRC-5S-01
Sample Date:	12/3/92	12/3/92	12/3/92	12/3/92	12/2/92	12/2/92	12/2/92	12/2/92	12/2/92	12/2/92
Tentatively Identified Compounds (TICs): (Concentrations in ug/l)										
Total unknown	3J	9J	ND	ND	9J	ND	ND	ND	120J	8J
Hexanoic acid, 6-amino	ND	ND	ND	ND	45JN	35JN	100JN	41JN	ND	ND
Unknown acid	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Unknown C8H18)3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Unknown phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene sulfonamide, 2-methyl	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total unknown alkane	ND	4J	9J	ND	47J	ND	8J	ND	ND	20J
Unknown amide	ND	5J	ND	ND	ND	ND	ND	ND	2J	ND
Phenol, 4,4-butylidenebis[2-(1,1-	ND	ND	ND	ND	ND	ND	ND	ND	ND	7JN
Hexanedioic acid, dioctyl ester	ND	ND	3JN	4JN	ND	ND	ND	ND	ND	ND
Ethanol, 2-butoxy, phosphate	ND	ND	ND	2JN	ND	ND	ND	ND	ND	ND
Unknown C11H14	ND	2J	ND	ND	ND	ND	ND	ND	ND	ND

Sample Location:	5D	6S	6D	6D	7S	7D	8S	8I	9S	9I
Sample Designation:	FRC-5D-01	FRC-6S-01	FRC-6D-01	FRC-6D-01 DUP	FRC-7S-01	FRC-7D-01	FRC-8S-01	FRC-8I-01	FRC-9S-01	FRC-9I-01
Sample Date:	12/2/92	12/3/92	12/10/92	12/10/92	12/3/92	12/3/92	12/2/92	12/2/92	12/3/92	12/3/92
Tentatively Identified Compounds (TICs): (Concentrations in ug/l)										
Total unknown	15J	3J	ND	ND	ND	6J	2J	21J	ND	268J
Hexanoic acid, 6-amino	78JN	ND	ND	ND	ND	ND	38JN	42JN	15JN	19JN
Total unknown acid	ND	ND	ND	ND	ND	ND	ND	8J	ND	6J
Unknown C8H18)3	ND	ND	ND	ND	ND	ND	ND	ND	ND	6J
Unknown phthalate	ND	ND	ND	ND	ND	ND	ND	3J	ND	12J
Benzene sulfonamide, 2-methyl	ND	ND	ND	ND	ND	ND	ND	ND	ND	12JN
Total unknown alkane	29J	ND	ND	ND	ND	36J	ND	19J	ND	3J
Unknown alcohol	ND	ND	ND	ND	ND	ND	3J	ND	ND	ND
3-penten-2-one, 4-methyl	ND	ND	ND	ND	ND	ND	3JN	ND	ND	ND
Unknown amide	3J	ND	ND	ND	ND	6J	ND	ND	ND	ND
Phenol, 4,4-butylidenebis[2-(1,1-	2JN	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexanedioic acid, dioctyl ester	ND	ND	ND	ND	2JN	ND	ND	ND	ND	ND

ND - Not Detected
J - The concentration listed is an estimated value, which is less than the specified detection limit but is greater than zero.
N - Indicates that the compound was analyzed for but not requested as an analyte. Value will no be listed on a tabular result sheet.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 16

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample Location:	10S	10I	10D	10D	11S	11I	11D	MW12S		
Sample Designation:	FRC-10S-01	FRC-10I-01	FRC-10D-01	FRC-10D-01 DUP	FRC-11S-01	FRC-11I-01	FRC-11D-01	FRC-MW12S-01	FRC-RB-01	FRC-RB-1
Sample Date:	12/3/92	12/3/92	12/3/92	12/3/92	12/4/92	12/4/92	12/3/92	12/7/92	12/7/92	12/3/92
Tentatively Identified Compounds (TICs): (Concentrations in ug/l)										
Ethanol, 2-butoxy-	ND	ND	ND	ND	ND	ND	ND	ND	5JN	ND
Total unknown	ND	6J	22J	57J	ND	ND	9J	12J	7J	46J
Unknown amide	ND	ND	ND	ND	ND	ND	ND	ND	6J	ND
Unknown C8H8O3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexanoic acid, 6-amino-	16JN	110JN	180JN	3JN	24JN	140JN	ND	ND	ND	ND
Total unknown phthalate	ND	28J	15J	45J	ND	15J	ND	ND	ND	ND
Unknown acid ester	ND	10J	ND	ND	ND	ND	ND	ND	ND	ND
Total unknown alkane	ND	ND	11J	26J	ND	34J	ND	ND	ND	ND
Total unknown acid	ND	ND	ND	72J	ND	ND	ND	ND	ND	ND
Unknown C11H10	ND	ND	ND	ND	ND	ND	ND	7J	ND	ND
Phenol, 4,4-butylidenebi[2-(1,1	ND	ND	ND	ND	ND	ND	ND	4JN	ND	ND
Total unknown dimethyl naphthalene	ND	ND	ND	ND	ND	ND	ND	6J	ND	ND
Unknown C10H14O	ND	ND	ND	ND	ND	ND	ND	3J	ND	ND
Unknown C18H18	ND	ND	ND	ND	ND	ND	ND	3J	ND	ND

Sample Location:	1S	1D	2S	2S	2D	2XD	3S	3D	4S	4D
Sample Designation:	FRC-1S-02	FRC-1D-02	FRC-2S-02	FRC-2S-02 DUP	FRC-2D-02	FRC-2XD-02	FRC-3S-02	FRC-3D-02	FRC-4S-02	FRC-4D-02
Sample Date:	3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	2/25/93	2/26/93	2/26/93	2/26/93
Tentatively Identified Compounds (TICs): (Concentrations in ug/l)										
Total unknown	ND	ND	ND	ND	ND	ND	3J	10J	3J	70J
Total unknown alkane	ND	19J	ND	ND	19J	ND	ND	14J	ND	3J
Caprolactam	ND	ND	ND	ND	ND	2JN	ND	ND	ND	ND
Ethanol,2-butoxy, phosphate	ND	ND	ND	3JN	ND	ND	ND	ND	ND	ND
Hexanoic acid 6-amino-	ND	ND	ND	ND	ND	ND	14JN	ND	21JN	4JN
Unknown C7H5NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,5-cyclohexadiene-1,4-dione	ND	ND	ND	ND	ND	ND	ND	ND	ND	3JN

ND - Not Detected

J - The concentration listed is an estimated value, which is less than the specified detection limit but is greater than zero.

N - Indicates that the compound was analyzed for but not requested as an analyte. Value will no be listed on a tabular result sheet.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 16

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample Location:	5S	5D	6S	6D	7S	7D	8S	8I	9S	9I
Sample Designation:	FRC-5S-02	FRC-5D-02	FRC-6S-02	FRC-6D-02	FRC-7S-02	FRC-7D-02	FRC-8S-02	FRC-8I-02	FRC-9S-02	FRC-9I-02
Sample Date:	3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	2/26/93	2/26/93	2/26/93	2/26/93
Tentatively Identified Compounds (TICs): (Concentrations in ug/l)										
Total unknown	63J	9J	2J	5J	14J	15J	ND	85J	ND	37J
Total unknown alkane	6J	30J	6J	4J	ND	50J	ND	ND	ND	ND
Hexanoic acid 6-amino-	ND	7JN	ND	ND	ND	ND	ND	ND	ND	ND
Unknown C7H5NS	ND	3J	ND	ND	ND	ND	ND	ND	ND	2J
Benzene sulfonamide, 4-m	ND	ND	ND	ND	ND	ND	ND	ND	ND	12JN
Benzene sulfonamide, 2-methyl	ND	ND	ND	ND	ND	ND	ND	ND	ND	7JN

Sample Location:	10S	10I	10D	11S	11I	11I	11D	MW-12S
Sample Designation:	FRC-10S-02	FRC-10I-02	FRC-10D-02	FRC-11S-02	FRC-11I-02	FRC-11I-02 DUP	FRC-11D-02	FRC-MW12S-02
Sample Date:	2/26/93	2/26/93	2/26/93	2/24/93	2/24/93	2/24/93	2/24/93	3/1/93
Tentatively Identified Compounds (TICs): (Concentrations in ug/l)								
Total unknown	8J	120J	54J	ND	5J	3J	12J	13J
Total unknown alkane	ND	ND	15J	ND	40J	32J	12J	5J
Unknown C11H10	ND	ND	ND	ND	ND	ND	ND	4J
Unknown dimethyl naphthalene	ND	ND	ND	ND	ND	ND	ND	2J
Phenol, 4-(1,1-dimethylethyl)-	ND	ND	ND	ND	ND	ND	ND	2JN
Caprolactam	ND	ND	ND	ND	ND	ND	3JN	ND
Phosphoric acid, triphenyl	ND	ND	ND	ND	ND	ND	3JN	ND
Unknown acid	ND	ND	ND	ND	3J	ND	ND	ND
Unknown C7H5NS	ND	ND	ND	ND	3J	ND	ND	ND
Benzothiozole, 2,2'-dithio	ND	ND	2JN	ND	7JN	ND	ND	ND
Hexanoic acid, 6-Amino	48JN	ND	220JN	ND	ND	ND	ND	ND
2-Fluoro-4-nitrophenol	3JN	ND	ND	ND	ND	ND	ND	ND

ND - Not Detected
J - The concentration listed is an estimated value, which is less than the specified detection limit but is greater than zero.
N - Indicates that the compound was analyzed for but not requested as an analyte. Value will no be listed on a tabular result sheet.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 17

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR PESTICIDES AND PCBs

Sample Location:	Groundwater	1S	1D	2S	2D	2XD	3S	3D	4S	4D	5S
Sample Designation:	Standards (1)	FRC-1S-01	FRC-1D-01	FRC-2S-01	FRC-2D-01	FRC-2XD-01	FRC-3S-01	FRC-3D-01	FRC-4S-01	FRC-4D-01	FRC-5S-01
Sample Date:		12/3/92	12/3/92	12/3/92	12/3/92	12/2/92	12/2/92	12/2/92	12/2/92	12/2/92	12/2/92
Parameter: (Concentrations in ug/l)											
alpha-BHC		0.052 U	0.052 U	0.053 U	0.056 U	0.050 U	0.051 U	0.052 U	0.051 U	0.051 U	0.051 U
beta-BHC		0.052 U	0.052 U	0.053 U	0.056 U	0.050 U	0.051 U	0.052 U	0.051 U	0.051 U	0.051 U
delta-BHC		0.052 U	0.052 U	0.053 U	0.056 U	0.050 U	0.051 U	0.052 U	0.051 U	0.051 U	0.051 U
gamma-BHC		0.052 U	0.052 U	0.053 U	0.056 U	0.050 U	0.051 U	0.052 U	0.051 U	0.051 U	0.051 U
Heptachlor		0.052 U	0.052 U	0.053 U	0.056 U	0.050 U	0.051 U	0.052 U	0.051 U	0.051 U	0.051 U
Aldrin		0.052 U	0.052 U	0.053 U	0.056 U	0.050 U	0.051 U	0.052 U	0.051 U	0.051 U	0.051 U
Heptachlor Epoxide		0.052 U	0.052 U	0.053 U	0.056 U	0.050 U	0.051 U	0.052 U	0.051 U	0.051 U	0.051 U
Endosulfin I		0.052 U	0.052 U	0.053 U	0.056 U	0.050 U	0.051 U	0.052 U	0.051 U	0.051 U	0.051 U
Dieldrin	ND	0.10 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.0071 JP	0.10 U
4,4'-DDE		0.10 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin		0.10 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan II		0.10 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDD		0.10 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan Sulfate		0.10 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT		0.10 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Methoxychlor		0.52 U	0.52 U	0.53 U	0.56 U	0.53 U	0.51 U	0.52 U	0.51 U	0.51 U	0.51 U
Endrin-Ketone		0.10 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin Aldehyde		0.10 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
alpha-Chlordane		0.052 U	0.052 U	0.053 U	0.056 U	0.050 U	0.051 U	0.052 U	0.051 U	0.051 U	0.051 U
gamma-Chlordane		0.052 U	0.052 U	0.053 U	0.056 U	0.050 U	0.051 U	0.052 U	0.051 U	0.051 U	0.051 U
Toxaphene		5.2 U	5.2 U	5.3 U	5.6 U	5.0 U	5.1 U	5.2 U	5.1 U	5.1 U	5.1 U
Aroclor-1016		1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1221		2.1 U	2.1 U	2.1 U	2.2 U	2.0 U	2.0 U	2.1 U	2.0 U	2.0 U	2.0 U
Aroclor-1232		1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1242		1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1248		1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1254		1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1260		1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

U - The compound was analyzed for but not detected
J - The concentration listed is an estimated value, which is less than the specified detection limit but is greater than zero.
P - There was a greater than 25 percent difference for detected concentrations between the two GC columns.
ND - Not Detected
(1) - 6 NYCRR 703 Groundwater Standards.The standard is only listed if the compound was detected.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 17

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR PESTICIDES AND PCBs

Sample Location:	Groundwater	5D	6S	6D	6D	7S	7D	8S	8I	9S	9I
Sample Designation:	Standards	FRC-5D-01	FRC-6S-01	FRC-6D-01	FRC-6D-01	FRC-7S-01	FRC-7D-01	FRC-8S-01	FRC-8I-01	FRC-9S-01	FRC-9I-01
	(1)				DUP						
Sample Date:		12/2/92	12/3/92	12/10/92	12/10/92	12/3/92	12/3/92	12/2/92	12/2/92	12/3/92	12/3/92
Parameter: (Concentrations in ug/l)											
alpha-BHC		0.051 U	0.05U	0.056 U	0.054 U	0.053 U	0.052 U	0.051 U	0.051 U	0.051 U	0.052 U
beta-BHC		0.051 U	0.05U	0.056 U	0.054 U	0.053 U	0.052 U	0.051 U	0.051 U	0.051 U	0.052 U
delta-BHC		0.051 U	0.05U	0.056 U	0.054 U	0.053 U	0.052 U	0.051 U	0.051 U	0.051 U	0.052 U
gamma-BHC		0.051 U	0.05U	0.056 U	0.054 U	0.053 U	0.052 U	0.051 U	0.051 U	0.051 U	0.052 U
Heptachlor		0.051 U	0.05U	0.056 U	0.054 U	0.053 U	0.052 U	0.051 U	0.051 U	0.051 U	0.052 U
Aldrin		0.051 U	0.05U	0.056 U	0.054 U	0.053 U	0.052 U	0.051 U	0.051 U	0.051 U	0.052 U
Heptachlor Epoxide		0.051 U	0.05U	0.056 U	0.054 U	0.053 U	0.052 U	0.051 U	0.051 U	0.051 U	0.052 U
Endosulfin I		0.051 U	0.05U	0.056 U	0.054 U	0.053 U	0.052 U	0.051 U	0.051 U	0.051 U	0.052 U
Dieldrin	ND	0.10 U	0.10 U	0.0067JP	0.0096JP	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE		0.10 U	0.10 U	0.11 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin		0.10 U	0.10 U	0.11 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan II		0.10 U	0.10 U	0.11 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDD		0.10 U	0.10 U	0.11 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan Sulfate		0.10 U	0.10 U	0.11 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT		0.10 U	0.10 U	0.11 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Methoxychlor		0.51 U	0.51U	0.56 U	0.54 U	0.53 U	0.52 U	0.51 U	0.51 U	0.51 U	0.52 U
Endrin-Ketone		0.10 U	0.10 U	0.11 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin Aldehyde		0.10 U	0.10 U	0.11 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
alpha-Chlordane	0.1	0.013JP	0.05U	0.013JP	0.016J	0.012JP	0.052 U	0.051 U	0.051 U	0.051 U	0.052 U
gamma-Chlordane	0.1	0.025J	0.05U	0.016JP	0.017J	0.017JP	0.052 U	0.051 U	0.051 U	0.051 U	0.052 U
Toxaphene		5.1 U	5.1U	5.6 U	5.4 U	5.3 U	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Aroclor-1016		1.0 U	1.0 U	1.1 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1221		2.0 U	2.0 U	2.2 U	2.2 U	2.1 U	2.1 U	2.0 U	2.0 U	2.0 U	2.1 U
Aroclor-1232		1.0 U	1.0 U	1.1 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1242		1.0 U	1.0 U	1.1 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1248		1.0 U	1.0 U	1.1 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1254	0.1	1.0 U	0.12JP	1.1 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1260		1.0 U	1.0 U	1.1 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

U - The compound was analyzed for but not detected
J - The concentration listed is an estimated value, which is less than the specified detection limit but is greater than zero.
P - There was a greater than 25 percent difference for detected concentrations between the two GC columns.
ND - Not Detected
(1) - 6 NYCRR 703 Groundwater Standards.The standard is only listed if the compound was detected.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 17

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR PESTICIDES AND PCBs

Sample Location:	Groundwater	10S	10I	10D	10D	11S	11I	11D	12S		
Sample Designation:	Standards	FRC-10S-01	FRC-10I-01	FRC-10D-01	FRC-10D-01 DUP	FRC-11S-01	FRC-11I-01	FRC-11D-01	FRC-MW12S-01	FRC-RB-1	FRC-RB-01
	(1)										
Sample Date:		12/3/92	12/3/92	12/3/92	12/3/92	12/4/92	12/4/92	12/3/92	12/3/92	12/3/92	12/07/92
Parameter: (Concentrations in ug/l)											
alpha-BHC		0.051 U	0.053 U	0.052 U	0.053 U	0.062 U	0.051 U	0.056U	0.051U	0.062 U	0.05U
beta-BHC	ND	0.051 U	0.053 U	0.052 U	0.053 U	0.062 U	0.051 U	0.056U	0.031JP	0.062 U	0.05U
delta-BHC		0.051 U	0.053 U	0.052 U	0.053 U	0.062 U	0.051 U	0.056U	0.051U	0.062 U	0.05U
gamma-BHC		0.051 U	0.053 U	0.052 U	0.053 U	0.062 U	0.051 U	0.056U	0.051U	0.062 U	0.05U
Heptachlor		0.051 U	0.053 U	0.052 U	0.053 U	0.062 U	0.051 U	0.056U	0.051U	0.062 U	0.05U
Aldrin		0.051 U	0.053 U	0.052 U	0.053 U	0.062 U	0.051 U	0.056U	0.051U	0.062 U	0.05U
Heptachlor Epoxide		0.051 U	0.053 U	0.052 U	0.053 U	0.062 U	0.051 U	0.056U	0.051U	0.062 U	0.05U
Endosulfin I		0.051 U	0.053 U	0.052 U	0.053 U	0.062 U	0.051 U	0.056U	0.051U	0.062 U	0.05U
Dieldrin	ND	0.10 U	0.10 U	0.10 U	0.11 U	0.12 U	0.10 U	0.11 U	0.012JP	0.12 U	0.10 U
4,4'-DDE		0.10 U	0.10 U	0.10 U	0.11 U	0.12 U	0.10 U	0.11 U	0.10 U	0.12 U	0.10 U
Endrin		0.10 U	0.10 U	0.10 U	0.11 U	0.12 U	0.10 U	0.11 U	0.10 U	0.12 U	0.10 U
Endosulfan II		0.10 U	0.10 U	0.10 U	0.11 U	0.12 U	0.10 U	0.11 U	0.10 U	0.12 U	0.10 U
4,4'-DDD	ND	0.10 U	0.10 U	0.10 U	0.11 U	0.12 U	0.10 U	0.11 U	0.093JP	0.12 U	0.10 U
Endosulfan Sulfate		0.10 U	0.10 U	0.10 U	0.11 U	0.12 U	0.10 U	0.11 U	0.10 U	0.12 U	0.10 U
4,4'-DDT		0.10 U	0.10 U	0.10 U	0.11 U	0.12 U	0.10 U	0.11 U	0.10 U	0.12 U	0.10 U
Methoxychlor		0.51 U	0.53 U	0.52 U	0.53 U	0.62 U	0.51 U	0.56 U	0.51U	0.62 U	0.51U
Endrin-Ketone		0.10 U	0.10 U	0.10 U	0.11 U	0.12 U	0.10 U	0.11 U	0.10 U	0.12 U	0.10 U
Endrin Aldehyde		0.10 U	0.10 U	0.10 U	0.11 U	0.12 U	0.10 U	0.11 U	0.10 U	0.12 U	0.10 U
alpha-Chlordane	0.1	0.051 U	0.053 U	0.052 U	0.053 U	0.062 U	0.051 U	0.056U	1.2J	0.062 U	0.05U
gamma-Chlordane	0.1	0.051 U	0.053 U	0.052 U	0.053 U	0.062 U	0.051 U	0.056U	0.89JP	0.062 U	0.05U
Toxaphene		5.1 U	5.3 U	5.2 U	5.3 U	6.2 U	5.1 U	5.6 U	5.1U	6.2 U	5.1U
Aroclor-1016		1.0 U	1.0 U	1.0 U	1.1 U	1.2 U	1.0 U	1.1 U	1.0 U	1.2 U	1.0 U
Aroclor-1221		2.0 U	2.1 U	2.1 U	2.1 U	2.5 U	2.0 U	2.2 U	2.0 U	2.5 U	2.0 U
Aroclor-1232		1.0 U	1.0 U	1.0 U	1.1 U	1.2 U	1.0 U	1.1 U	1.0 U	1.2 U	1.0 U
Aroclor-1242		1.0 U	1.0 U	1.0 U	1.1 U	1.2 U	1.0 U	1.1 U	1.0 U	1.2 U	1.0 U
Aroclor-1248		1.0 U	1.0 U	1.0 U	1.1 U	1.2 U	1.0 U	1.1 U	1.0 U	1.2 U	1.0 U
Aroclor-1254	0.1	1.0 U	1.0 U	1.0 U	1.1 U	1.2 U	1.0 U	1.1 U	0.92JP	1.2 U	1.0 U
Aroclor-1260		1.0 U	1.0 U	1.0 U	1.1 U	1.2 U	1.0 U	1.1 U	1.0 U	1.2 U	1.0 U

U - The compound was analyzed for but not detected
J - The concentration listed is an estimated value, which is less than the specified detection limit but is greater than zero.
P - There was a greater than 25 percent difference for detected concentrations between the two GC columns.
ND - Not Detected
(1) - 6 NYCRR 703 Groundwater Standards.The standard is only listed if the compound was detected.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 17

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR PESTICIDES AND PCBs

Sample Location:	Groundwater	1S	1D	2S	2S	2D	2XD	3S	3D	4S	4D
Sample Designation:	Standards	FRC-1S-02	FRC-1D-02	FRC-2S-02	FRC-2S-02	FRC-2D-02	FRC-2XD-02	FRC-3S-02	FRC-3D-02	FRC-4S-02	FRC-4D-02
	(1)				DUP						
Sample Date:		3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	2/25/93	2/26/93	2/26/93	2/26/93
Parameter: (Concentrations in ug/l)											
alpha-BHC		0.053 U	0.053 U	0.053 U	0.051 U	0.051 UC	0.05U	0.052 U	0.052 U	0.054 U	0.053 U
beta-BHC		0.053 U	0.053 U	0.053 U	0.051 U	0.051 UC	0.05U	0.052 UC	0.052 U	0.054 U	0.053 U
delta-BHC		0.053 U	0.053 U	0.053 U	0.051 U	0.051 UC	0.05U	0.052 UC	0.052 U	0.054 U	0.053 U
gamma-BHC		0.053 U	0.053 U	0.053 U	0.051 U	0.051 UC	0.05U	0.052 UC	0.052 U	0.054 U	0.053 U
Heptachlor		0.053 U	0.053 U	0.053 U	0.051 U	0.051 UC	0.05U	0.052 UC	0.052 U	0.054 U	0.053 U
Aldrin		0.053 U	0.053 U	0.053 U	0.051 U	0.051 UC	0.05U	0.052 UC	0.052 U	0.054 U	0.053 U
Heptachlor Epoxide		0.053 U	0.053 U	0.053 U	0.051 U	0.051 UC	0.05U	0.052 UC	0.052 U	0.054 U	0.053 U
Endosulfan I		0.053 U	0.053 U	0.053 U	0.051 U	0.051 UC	0.05U	0.052 UC	0.052 U	0.054 U	0.053 U
Dieldrin		0.10 U	0.10 U	0.10 U	0.10 U	0.10 UC	0.10 U	0.10 UC	0.10 U	0.10 U	0.10 U
4,4'-DDD		0.10 U	0.10 U	0.10 U	0.10 U	0.10 UC	0.10 U	0.10 UC	0.10 U	0.10 U	0.10 U
Endrin		0.10 U	0.10 U	0.10 U	0.10 U	0.10 UC	0.10 U	0.10 UC	0.10 U	0.10 U	0.10 U
Endosulfan II		0.10 U	0.10 U	0.10 U	0.10 U	0.10 UC	0.10 U	0.10 UC	0.10 U	0.10 U	0.10 U
4,4'-DDT		0.10 U	0.10 U	0.10 U	0.10 U	0.10 UC	0.10 U	0.10 UC	0.10 U	0.10 U	0.10 U
Methoxychlor		0.53 U	0.53 U	0.53 U	0.51 U	0.51 U	0.10 U	0.52 UC	0.52 U	0.51 U	0.53 U
Endrin-Ketone		0.10 U	0.10 U	0.10 U	0.10 U	0.10 UC	0.10 U	0.10 UC	0.10 U	0.10 U	0.10 U
Endrin Aldehyde		0.10 U	0.10 U	0.10 U	0.10 U	0.10 UC	0.51U	0.10 UC	0.10 U	0.10 U	0.10 U
alpha-Chlordane		0.053 U	0.053 U	0.053 U	0.051 U	0.051 U	0.010 U	0.052 UC	0.052 U	0.051 U	0.053 U
gamma-Chlordane		0.053 U	0.053 U	0.053 U	0.051 U	0.051 U	0.010 U	0.052 UC	0.052 U	0.051 U	0.053 U
Toxaphene		5.3 U	5.3 U	5.3 U	5.1 U	5.1 UC	0.05U	5.2 UC	5.2 U	5.1 U	5.3 U
Aroclor-1016		1.0 U	1.0 U	1.0 U	1.0 U	1.0 UC	0.05U	1.0 UC	1.0 U	1.0 U	1.0 U
Aroclor-1221		2.1 U	2.1 U	2.1 U	2.0 U	2.0 UC	5.1U	2.1 UC	2.1 U	2.0 U	2.1 U
Aroclor-1232		1.0 U	1.0 U	1.0 U	1.0 U	1.0 UC	1.0 U	1.0 UC	1.0 U	1.0 U	1.0 U
Aroclor-1242		1.0 U	1.0 U	1.0 U	1.0 U	1.0 UC	2.0 U	1.0 UC	1.0 U	1.0 U	1.0 U
Aroclor-1248		1.0 U	1.0 U	1.0 U	1.0 U	1.0 UC	1.0 U	1.0 UC	1.0 U	1.0 U	1.0 U
Aroclor-1254		1.0 U	1.0 U	1.0 U	1.0 U	1.0 UC	1.0 U	1.0 UC	1.0 U	1.0 U	1.0 U
Aroclor-1260		1.0 U	1.0 U	1.0 U	1.0 U	1.0 UC	1.0 U	1.0 UC	1.0 U	1.0 U	1.0 U

U - The compound was analyzed for but not detected
C - The laboratory calibration requirements were no
ND - Not Detected
(1) - 6 NYCRR 703 Groundwater Standards.The standard is only listed if the compound was detected.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 17

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR PESTICIDES AND PCBs

Sample Location:	Groundwater	5S	5D	6S	6D	7S	7D	8S	8I	9S	9I
Sample Designation:	Standards	FRC-5S-02	FRC-5D-02	FRC-6S-02	FRC-6D-02	FRC-7S-02	FRC-7D-02	FRC-8S-02	FRC-8I-02	FRC-9S-02	FRC-9I-02
	(1)										
Sample Date:		3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	2/26/93	2/26/93	2/26/93	2/26/93
Parameter: (Concentrations in ug/l)											
alpha-BHC		0.051 U	0.051 UC	0.051 U	0.053 U	0.053 U	0.053 UC	0.052 U	0.051 U	0.052 UC	0.052 U
beta-BHC		0.051 U	0.051 UC	0.051 U	0.053 U	0.053 U	0.053 UC	0.052 U	0.051 U	0.052 UC	0.052 U
delta-BHC		0.051 U	0.051 UC	0.051 U	0.053 U	0.053 U	0.053 UC	0.052 U	0.051 U	0.052 UC	0.052 U
gamma-BHC		0.051 U	0.051 UC	0.051 U	0.053 U	0.053 U	0.053 UC	0.052 U	0.051 U	0.052 UC	0.052 U
Heptachlor		0.051 U	0.051 UC	0.051 U	0.053 U	0.053 U	0.053 UC	0.052 U	0.051 U	0.052 UC	0.052 U
Aldrin		0.051 U	0.051 UC	0.051 U	0.053 U	0.053 U	0.053 UC	0.052 U	0.051 U	0.052 UC	0.052 U
Heptachlor Epoxide		0.051 U	0.051 UC	0.051 U	0.053 U	0.053 U	0.053 UC	0.052 U	0.051 U	0.052 UC	0.052 U
Endosulfan I		0.051 U	0.051 UC	0.051 U	0.053 U	0.053 U	0.053 UC	0.052 U	0.051 U	0.052 UC	0.052 U
Dieldrin		0.10 U	0.10 UC	0.10 U	0.10 U	0.10 U	0.10 UC	0.10 U	0.10 U	0.10 UC	0.10 U
4,4'-DDD		0.10 U	0.10 UC	0.10 U	0.10 U	0.10 U	0.10 UC	0.10 U	0.10 U	0.10 UC	0.10 U
Endrin		0.10 U	0.10 UC	0.10 U	0.10 U	0.10 U	0.10 UC	0.10 U	0.10 U	0.10 UC	0.10 U
Endosulfan II		0.10 U	0.10 UC	0.10 U	0.10 U	0.10 U	0.10 UC	0.10 U	0.10 U	0.10 UC	0.10 U
4,4'-DDT		0.10 U	0.10 UC	0.10 U	0.10 U	0.10 U	0.10 UC	0.10 U	0.10 U	0.10 UC	0.10 U
Methoxychlor		0.51 U	0.51 UC	0.51 U	0.53 U	0.53 U	0.53 U	0.52 U	0.51 U	0.52 UC	0.52 U
Endrin-Ketone		0.10 U	0.10 UC	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 UC	0.10 U
Endrin Aldehyde		0.10 U	0.10 UC	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 UC	0.10 U
alpha-Chlordane	0.1	0.051 U	0.051 UC	0.051 U	0.014J	0.053 U	0.053 UC	0.052 U	0.051 U	0.052 UC	0.052 U
gamma-Chlordane	0.1	0.051 U	0.0099JP	0.051 U	0.014J	0.053 U	0.053 UC	0.052 U	0.051 U	0.052 UC	0.052 U
Toxaphene		5.1 U	5.1 UC	5.1 U	5.3 U	5.3 U	5.3 UC	5.2 U	5.1 U	5.2 UC	5.2 U
Aroclor-1016	0.1	1.0 U	1.0 UC	1.0 U	1.0 U	1.0 U	1.0 UC	1.0 U	1.0 U	1.0 UJ	1.0 U
Aroclor-1221		2.0 U	2.0 UC	2.0 U	2.1 U	2.1 U	2.1 UC	2.1 U	2.0 U	2.1 UC	2.1 U
Aroclor-1232	0.1	1.0 U	1.0 UC	1.0 U	1.0 U	1.0 U	1.0 UC	1.0 U	1.0 U	1.0 UJ	1.0 U
Aroclor-1242		1.0 U	1.0 UC	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UC	1.0 U	1.0 UC	1.0 U
Aroclor-1248		1.0 U	1.0 UC	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UC	1.0 U	1.0 UC	1.0 U
Aroclor-1254		1.0 U	1.0 UC	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UC	1.0 U	1.0 UC	1.0 U
Aroclor-1260		1.0 U	1.0 UC	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UC	1.0 U	1.0 UC	1.0 U

U - The compound was analyzed for but not detected
C - The laboratory calibration requirements were not met.
J - The concentration listed is an estimated value, which is less than the specified detection limit but is greater than zero.
P - There was a greater than 25 percent difference for detected concentrations between the two GC columns.
ND - Not Detected
(1) - 6 NYCRR 703 Groundwater Standards.The standard is only listed if the compound was detected.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 17

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR PESTICIDES AND PCBs

Sample Location:	Groundwater	10S	10I	10D	11S	11I	11I	11D	MW12
Sample Designation:	Standards	FRC-10S-02	FRC-10I-02	FRC-10D-02	FRC-11S-02	FRC-11I-02	FRC-11I-02	FRC-11D-02	FRC-MW12-02
	(1)						DUP		
Sample Date:		2/26/93	2/26/93	2/26/93	2/24/93	2/24/93	2/24/93	2/24/93	3/1/93
Paramete (Concentrations in ug/l)									
alpha-BHC		0.053 U	0.052 U	0.050 UC	0.051 UC	0.051 UC	0.051 UC	0.051 UC	0.053 UC
beta-BHC		0.053 U	0.052 U	0.050 UC	0.051 UC	0.051 UC	0.051 UC	0.051 UC	0.053 UC
delta-BHC		0.053 U	0.052 U	0.050 UC	0.051 UC	0.051 UC	0.051 UC	0.051 UC	0.053 UC
gamma-BHC		0.053 U	0.052 U	0.050 UC	0.051 UC	0.051 UC	0.051 UC	0.051 UC	0.053 UC
Heptachlor		0.053 U	0.052 U	0.050 UC	0.051 UC	0.051 UC	0.051 UC	0.051 UC	0.053 UC
Aldrin		0.053 U	0.052 U	0.050 UC	0.051 UC	0.051 UC	0.051 UC	0.051 UC	0.053 UC
Heptachlor Epoxide		0.053 U	0.052 U	0.050 UC	0.051 UC	0.051 UC	0.051 UC	0.051 UC	0.053 UC
Endosulfan I		0.053 U	0.052 U	0.050 UC	0.051 UC	0.051 UC	0.051 UC	0.051 UC	0.053 UC
Dieldrin		0.10 U	0.10 U	0.10 UC	0.10 UC	0.10 UC	0.10 UC	0.10 UC	0.10 UC
4,4'-DDD	ND	0.10 U	0.10 U	0.10 UC	0.10 UC	0.10 UC	0.10 UC	0.10 UC	0.042JP
Endrin		0.10 U	0.10 U	0.10 UC	0.10 UC	0.10 UC	0.10 UC	0.10 UC	0.10 UC
Endosulfan II		0.10 U	0.10 U	0.10 UC	0.10 UC	0.10 UC	0.10 UC	0.10 UC	0.10 UC
4,4'-DDT		0.10 U	0.10 U	0.10 UC	0.10 UC	0.10 UC	0.10 UC	0.10 UC	0.10 UC
Methoxychlor		0.51 U	0.52 U	0.50 UC	0.51 UC	0.51 UC	0.51 UC	0.51 UC	0.53 U
Endrin-Keytone		0.10 U	0.10 U	0.10 UC	0.10 UC	0.10 UC	0.10 UC	0.10 UC	0.10 UC
Endrin Aldehyde		0.10 U	0.10 U	0.10 UC	0.10 UC	0.10 UC	0.10 UC	0.10 UC	0.10 UC
alpha-Chlordane	0.1	0.053 U	0.052 U	0.050 UC	0.051 UC	0.051 UC	0.051 UC	0.051 UC	0.48JP
gamma-Chlordane	0.1	0.053 U	0.052 U	0.050 UC	0.051 UC	0.051 UC	0.051 UC	0.051 UC	0.41J
Toxaphene		5.1 U	5.1 U	5.0 UC	5.1 UC	5.1 UJ	5.1 UJ	5.1 UJ	5.3 UC
Aroclor-1016		1.0 U	1.0 U	1.0 UC	1.0 UC	1.0 UC	1.0 UC	1.0 UC	1.0 UC
Aroclor-1221		2.0 U	2.0 U	2.0 UC	2.0 UC	2.0 UC	2.0 UC	2.0 UC	2.1 UC
Aroclor-1232		1.0 U	1.0 U	1.0 UC	1.0 UC	1.0 UC	1.0 UC	1.0 UC	1.0 UC
Aroclor-1242		1.0 U	1.0 U	1.0 UC	1.0 UC	1.0 UC	1.0 UC	1.0 UC	1.0 UC
Aroclor-1248		1.0 U	1.0 U	1.0 UC	1.0 UC	1.0 UC	1.0 UC	1.0 UC	1.0 UC
Aroclor-1254	0.1	1.0 U	1.0 U	1.0 UC	1.0 UC	1.0 UC	1.0 UC	1.0 UC	1.7JP
Aroclor-1260		1.0 U	1.0 U	1.0 UC	1.0 UC	1.0 UC	1.0 UC	1.0 UC	1.0 UC

U - The compound was analyzed for but not detected
C - The laboratory calibration requirements were not met.
J - The concentration listed is an estimated value, which is less than the specified detection limit but is greater than zero.
P - There was a greater than 25 percent difference for detected concentrations between the two GC columns.
ND - Not Detected
(1) - 6 NYCRR 703 Groundwater Standards.The standard is only listed if the compound was detected.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 18

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR TOTAL METALS AND CYANIDE

Sample Location:	Groundwater	1S	1D	2S	2D	2XD	3S	3D	4S	4D	5S
Sample Designation:	Standard	FRC-1S-01	FRC-1D-01	FRC-2S-01	FRC-2D-01	FRC-2XD-01	FRC-3S-01	FRC-3D-01	FRC-4S-01	FRC-4D-01	FRC-5S-01
	(1)										
Sample Date:		12/3/92	12/3/92	12/3/92	12/3/92	12/2/92	12/2/92	12/2/92	12/2/92	12/2/92	12/2/92
Parameter: (Concentrations in ug/l)											
Aluminum	NA	781	147B	627	619	651	2,053	180B	666	22.0U	260
Antimony	3**	18.0U	18.0U	18.0U	18.5B	18.0U	31.7B	18.0U	18.0U	21.0U	18.0U
Arsenic	25	2.0U	9.7B	50.5S	6.1BW	2.0U	9.1B	8.9B	2.0U	2.0U	5.2B
Barium	1000	50.7B	62.8B	265	89.9B	14.5B	33.7B	58.4B	32.2B	35.8B	49.3B
Beryllium	3**	1.0U	5.0UJ	6.9J	1.0U	1.0UJ	5.0UJ	5.0UJ	1.0UJ	1.0U	1.0U
Cadmium	10	2.0U	2.0U	2.0U	2.0U	2.0U	1.8U	2.0U	4.4B	2.0U	2.0U
Calcium	NA	26,831	26,551	89,397	76,067	23,009	12,739	25,068	12,815	18,800	36,507
Chromium	50	3.0U	3.0U	3.0U	3.0U	18.1	3.7B	3.0U	3.0U	3.0U	3.0U
Cobalt	NA	5.7B	24.9B	3.0U	4.7B	3.0U	7.8B	11.6B	3.0U	9.7B	8.4B
Copper	200	3.3B	2.0U	5.8B	2.0U	26.4	15.0B	8.3B	6.8B	8.1B	10.2B
Iron	300	2,862	25,067	55,973	9,583	796	15,263	23,886	1,039	2,180	9,180
Lead	25	2.9B	2.6B	10.3	7.4	7.3	11.9	1.5B	5.0	2.0U	2.7B
Magnesium	35000**	4,116B	4,918B	9,566	7,936	1,729B	4,462B	4,321B	3,148B	3,210B	4,821B
Manganese	300	1,203	1,165	1,240	2,377	465	479	2,481	1,016	1,940	5,582
Mercury	2	0.21U	0.20U	0.20U	0.21U	0.20U	0.21U	0.20U	0.20U	0.20U	0.20U
Nickel	NA	8.0U	8.0U	8.0U	8.0U	8.0U	8.0U	8.0U	8.0U	21.0U	8.0U
Potassium	NA	2,778B	4,375B	6,467	4,270B	6,560	1,389B	2,874B	1,611B	4,260B	3,555B
Selenium	10	1.0UW	1.0UW	1.2BW	1.0U	1.0UW	1.0UW	1.0U	1.0U	2.0UW	1.0U
Silver	50	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U
Sodium	20000	40,462	49,134	72,408	26,879	19,229	5,594	33,601	6,022	24,500	69,404
Thallium	4**	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0UW	1.3B	2.0U	1.0UW
Vanadium	NA	4.0U	4.0U	39.7B	4.0U	4.0U	12.8B	4.0U	4.0U	6.0U	4.1B
Zinc	300	9.1B	10.7B	44.7	22.0	216	33.1	23.8	35.7	31.9	28.5
Cyanide	100	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	NR	10.0U

U - Compound was analyzed for but not detected

B - Analyte results are between IDL and contract required detection limit.

S - The reported value was determined by the method of standard additions.

W - Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance.

(1) - 6 NYCRR 703 Groundwater Standards.

NA - Not Applicable

** - 6 NYCRR 703 Guidance Values

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 18

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR TOTAL METALS AND CYANIDE

Sample Location:	Groundwater	5D	6S	6D	6D	7S	7D	8S	8I	9S	9I
Sample Designation:	Standard	FRC-5D-01	FRC-6S-01	FRC-6D-01	FRC-6D-01	FRC-7S-01	FRC-7D-01	FRC-8S-01	FRC-8I-01	FRC-9S-01	FRC-9I-01
	(1)				DUP						
Sample Date:		12/2/92	12/3/92	12/10/92	12/10/92	12/3/92	12/3/92	12/2/92	12/2/92	12/3/92	12/3/92
Parameter: (Concentrations in ug/l)											
Aluminum	NA	194B	5,402	89.2B	86.1B	2,230	114B	6,392	342	6,468	210
Antimony	3**	18.9B	21.0U	21.0U	21.0U	18.0U	18.0U	18.0U	18.0	21.0U	21.0U
Arsenic	25	2.0U	3.6B	2.0U	2.0U	2.0U	2.0U	22.2	2.0U	4.4B	2.0U
Barium	1000	24.2B	101B	21.7B	21.2B	45.8B	55.2B	98.5B	17.3B	55.6B	23.4B
Beryllium	3**	1.0UJ	5.0U	1.0U	1.0U	1.0UJ	1.0U	5.0UJ	1.0UJ	5.0U	1.0U
Cadmium	10	2.0U	3.7B	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
Calcium	NA	9,781	12,810	13,810	13,779	21,327	18,505	42,058	23,321	6,790	29,065
Chromium	50	3.0U	60.1	3.0U	3.8B	3.0U	3.0U	20.3	16.3	20.4	37.9
Cobalt	NA	3.0U	7.2B	3.0U	3.0U	3.0U	3.0U	4.8B	3.0U	5.7B	3.0U
Copper	200	4.4B	28.7	3.0U	3.0U	5.4B	6.8B	12.9B	15.1B	21.4B	27.4
Iron	300	590	7,984	147	82.0U	3,725	294	30,284	1,886	12,047	564
Lead	25	5.5	8.5	2.0U	2.0U	6.7	3.1	10.5	3.7	7.8W	3.8
Magnesium	35000**	1,848B	3,068B	2,990B	2,992B	3,376B	2,940B	5,611	1,252B	2,409B	347B
Manganese	300	594	383	1,204.1	1,200.5	137	1,607	577	473	98.4	31.8
Mercury	2	0.21U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U
Nickel	NA	8.0U	21.0U	21.0U	21.0U	8.0U	8.0U	8.0U	8.0U	21.0U	21.0U
Potassium	NA	1,796B	2,534B	1,748B	1,662B	3,144B	2,750B	3,966B	7,225	1,440B	37,370
Selenium	10	1.0UW	2.0U	2.0UW	2.0U	1.0UW	1.0UW	1.0U	1.0UW	2.0U	2.0UW
Silver	50	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U
Sodium	20000	11,338	15,878	18,108	18,067	13,009	21,413	25,516	22,242	5,045	41,025
Thallium	4**	1.0U	2.0UW	2.0U	2.0U	1.0U	1.0U	1.0U	1.0UW	2.0U	2.0UW
Vanadium	NA	4.0U	6.4B	6.0U	6.0U	4.0U	4.0U	7.7B	7.5B	8.9B	12.0B
Zinc	300	22.8	60.8	23.5	13.7B	22.7	14.0B	37.6	84.5	93.5	78.2
Cyanide	100	10.0U	10.0U	10.0U	10.0	10.0U	10.0U	10.0U	10	10.0U	10.0U

U - Compound was analyzed for but not detected

B - Analyte results are between IDL and contract required detection limit.

* - Duplicate analysis not within control limit.

W - Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance.

(1) - 6 NYCRR 703 Groundwater Standards. The standard is only listed if the compound was detected.

NA - Not Applicable

** - 6 NYCRR 703 Guidance Values

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 18

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR TOTAL METALS AND CYANIDE

Sample Location:	Groundwater	10S	10I	10D	10D	11S	11I	11D	MW12S		
Sample Designation:	Standard	FRC-10S-01	FRC-10I-01	FRC-10D-01	FRC-10D-01	FRC-11S-01	FRC-11I-01	FRC-11D-01	FRC-MW12S-01	FRC-RB-1	FRC-RB-01
	(1)				DUP						
Sample Date:		12/3/92	12/3/92	12/3/92	12/3/92	12/4/92	12/4/92	12/3/92	12/4/92	12/3/92	12/7/92
Parameter: (Concentrations in ug/l)											
Aluminum	NA	16,791	321	1,093	1,517	13,145	891	429	26,640	13.0U	22.0U
Antimony	3**	21.0U	21.0U	21.0U	21.0U	18.0U	18.0U	18.0U	21.0	18.0U	21.0U
Arsenic	25	8.8B	2.0U	2.0U	2.0U	9.7B	2.0U	2.0U	7.4	2.0U	2.0U
Barium	1000	168B	27.9B	44.4B	50.3B	119.1B	16.1B	27.8B	217	1.0U	6.0U
Beryllium	3**	5.0U	1.0U	1.0U	1.0U	5.0UJ	1.0U	1.0UJ	5.5	1.0UJ	1.0U
Cadmium	10	2.0U	3.3B	2.0U	2.0U	2.0U	2.0U	2.0U	3.9	2.0U	2.0U
Calcium	NA	46,199	19,752	16,145	21,509	23,692	24,924	16,776	58,802	58.7B	104B
Chromium	50	239	9.6B	6.1B	13.1	14.6	3.7B	3.2B	136.8	3.0U	3.0U
Cobalt	NA	16.8B	5.9B	6.0B	3.0U	4.0B	3.0U	3.9B	12.4	3.0U	3.0U
Copper	200	50.8	19.8B	17.1B	19.7B	66.8	15.1B	10.0B	145	4.4B	8.8B
Iron	300	26,602	1,760	2,810	4,136	22,757	1,004	607	39,468	76.0U	82.0U
Lead	25	27.0	3.1J	6.5WJ	11.3J	19.6	7.3	3.4	331	1.0U	2.0U
Magnesium	35000**	8,149	3,626B	2,773B	3,243B	4,917B	3,675B	2,706B	27,600	26.0U	42.0B
Manganese	300	2,203	5,832	49.4	71.3	577	58	372	437	1.1U	1.0U
Mercury	2	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.67	0.20U	0.20U
Nickel	NA	37.0B	21.0U	21.0U	21.0U	14.9B	8.0U	10.0B	21.0	8.0U	21.0U
Potassium	NA	9,392	3,498B	35,603	35,170	3,918B	10,267	8,360	11,474	567U	626U
Selenium	10	2.0UW	2.0U	2.0UW	2.0UW	1.1BW	1.0UW	1.0UW	2.0	1.0U	2.0U
Silver	50	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0	3.0U	3.0U
Sodium	20000	61,096	17,223	32,567	32,230	10,924	21,440	23,426	24,289	131B	111B
Thallium	4**	2.0UW	2.0U	2.0UW	2.0UW	1.0U	1.0U	1.0UW	2.0U	1.0U	2.0U
Vanadium	NA	32.1B	6.0U	6.0U	6.0U	25.7B	4.0U	4.0U	62.2	4.0U	6.0U
Zinc	300	106	44.3	76.4	117.6	145	82.4	43.2	673	7.0U	13.9B
Cyanide	100	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U

U - Compound was analyzed for but not detected

B - Analyte results are between IDL and contract required detection limit.

W - Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance.

(1) - 6 NYCRR 703 Groundwater Standards. The standard is only listed if the compound was detected.

NA - Not Applicable

** - 6 NYCRR 703 Guidance Values

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 18

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR TOTAL METALS AND CYANIDE

Sample Location:	Groundwater	1S	1D	2S	2S	2D	2XD	3S	3D	4S	4D
Sample Designation:	Standard	FRC-1S-02	FRC-1D-02	FRC-2S-02	FRC-2S-02	FRC-2D-02	FRC-2XD-02	FRC-3S-02	FRC-3D-02	FRC-4S-02	FRC-4D-02
	(1)				DUP						
Sample Date:		3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	2/25/93	2/26/93	2/26/93	2/26/93
Parameter: (Concentrations in ug/l)											
Aluminum	NA	430	76.9B	140B	218	476	22.0U	1,993	59.8B	298	66.9B
Antimony	3**	21.0U	21.0U	21.0U	21.0U	24.0B	21.0U	21.0U	21.0U	21.0U	21.0U
Arsenic	25	2.1BW	9.5B	11.1	11.4	6.3B	2.6B	4.3B	6.7B	1.0U	3.4U
Barium	1000	52.7B	41.4B	104B	110B	83.2B	49.6B	29.0B	41.4B	27.1B	43.6B
Beryllium	3**	1.0U	5.0U	1.0U	1.0U	1.0U	1.0U	1.0U	4.0U	1.0U	1.0U
Cadmium	10	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
Calcium	NA	25,814	21,682	76,104	72,180	76,676	66,527	14,811	19,240	12,649	18,241
Chromium	50	3.0U	3.0U	3.0U	3.0U	4.1B	3.0U	4.1B	3.0U	3.0U	3.0U
Cobalt	NA	4.3BN	23.8B	4.7B	3.7B	6.3B	3.0UN	5.3BN	9.1BN	3.0UN	10.7BN
Copper	200	3.0U	17.4B	3.5B	12.6B	8.1B	7.0U	4.0U	4.6U	3.0U	3.0U
Iron	300	2,114	19,104	10,406	13,973	8,898	127	8,761	17,339	491	6,846
Lead	25	2.9B	2.3BWJ	2.6BJ	4.2W	8.3J	1.0UW	6.7	1.0UW	1.9B	1.8B
Magnesium	35000**	4,494B	3,971B	8,428	8,066	8,132	9,880	5,710	3,098B	3,215B	3,150B
Manganese	300	817	859	986	928.6	2,326	3,056	312	1,999	223	1,786
Mercury	2	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U
Nickel	NA	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U
Potassium	NA	2,573B	3,477B	4,757B	4,517B	4,338B	7,151	1,528B	2,709B	1,468B	3,192B
Selenium	10	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0UW	2.0UW
Silver	50	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U
Sodium	20000	51,991	36,266	37,941	37,492	23,692	34,946	4,881B	23,337	7,236	24,949
Thallium	4**	2.0UW	2.0UW	2.0UW	2.0UW	2.0UW	2.0UW	2.0U	2.0UW	2.0UW	2.0UW
Vanadium	NA	9.2B	6.0U	6.0U	6.0U	6.0U	6.0U	15.0B	6.0U	6.0U	6.0U
Zinc	300	8.4B	22.1	5.8B	11.7B	20.3	4.0U	16.9B	13.1B	14.8B	13.9B
Cyanide	100	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U

U - Compound was analyzed for but not detected

B - Analyte results are between IDL and contract required detection limit.

W - Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance.

N - The spiked sample recovery is not within control limits.

(1) - 6 NYCRR 703 Groundwater Standards. The standard is only listed if the compound was detected.

NA - Not Applicable

** - 6 NYCRR 703 Guidance Values

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 18

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR TOTAL METALS AND CYANIDE

Sample Location:	Groundwater	5S	5D	6S	6D	7S	7D	8S	8I	9S	9I
Sample Designation:	Standards	FRC-5S-02	FRC-5D-02	FRC-6S-02	FRC-6D-02	FRC-7S-02	FRC-7D-02	FRC-8S-02	FRC-8I-02	FRC-9S-02	FRC-9I-02
	(1)										
Sample Date:		3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	2/26/93	2/26/93	2/26/93	2/26/93
Parameter: (Concentrations in ug/l)											
Aluminum	NA	164B	793.7B	2,695	87.2B	1,935	161B	3,466	175B	3,902	243
Antimony	3**	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U
Arsenic	25	3.4B	1.0UW	1.6B	1.0U	1.2B	1.0B	44.7	3.1B	8.1B	1.0U
Barium	1000	42.3B	26.4B	82.8B	21.5B	40.8B	55.4B	192B	26.0B	53.9B	23.4B
Beryllium	3**	1.0B	1.0U	1.0U	1.0U	1.0U	1.0U	11.1U	1.0U	2.0U	1.0U
Cadmium	10	2.0B	2.0U	3.5B	2.0U	6.5	2.0U	2.0U	2.0U	2.0U	2.0U
Calcium	NA	32,019	10,094	12,319	12,445	20,246	18,235	51,062	45,887	11,449	13,626
Chromium	50	3.3B	3.0U	35.9	4.8B	11.9	3.4B	18.0	3.8B	18.8	23.5
Cobalt	NA	9.5B	3.2B	5.3B	3.2B	4.8B	4.0B	3.4BN	8.3BN	4.9BN	3.0UN
Copper	200	6.7B	15.1B	6.8B	3.0U	29.3	3.0U	3.3B	7.2B	9.4B	35.5
Iron	300	6,129	178	4,066	82.0U	3,832	402	61,055	5,169	7,071	1,149
Lead	25	1.3B	2.9B	5.6	1.0U	8.9	2.3B	8.3	4.0	9.8	7.7
Magnesium	35000**	4,554B	2,014B	2,682B	2,688B	3,190B	2,874B	7,844	5,300	3,102B	1,090B
Manganese	300	4,461.9	532.7	206.8	1,025.2	149.6	1,235.2	397	2,292	58.2	106
Mercury	2	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U
Nickel	NA	21.0U	21.0U	21.0U	21.0U	50.7	21.0U	21.0U	21.0U	21.0U	21.0U
Potassium	NA	4,102B	1,755B	2,772B	1,995B	3,284B	2,912B	4,816B	4,360B	1,956B	41,794
Selenium	10	2.0U	2.0UW	2.0UW	2.0UW	2.0UW	2.0UW	2.0U	2.0U	2.0U	2.0UW
Silver	50	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U
Sodium	20000	57,275	10,902	15,940	18,725	10,641	20,675	75,254	26,562	21,553	47,704
Thallium	4**	2.0U	2.0U	2.0UW	2.0UW	2.0U	2.0UW	2.0UW	2.0U	2.0U	2.0UW
Vanadium	NA	6.0U	6.0U	6.3B	6.0U	6.2B	6.0U	13.4B	6.0U	9.6B	14.8B
Zinc	300	13.5B	23.6	27.8	4.0U	121	12.2B	33.0	80.0	112	47.6
Cyanide	100	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U

U - Compound was analyzed for but not detected
B - Analyte results are between IDL and contract required detection limit
W - Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance.
N - The spiked sample recovery is not within control limits.
(1) - 6 NYCRR 703 Groundwater Standards. The standard is only listed if the compound was detected.
NA - Not Applicable
** - 6 NYCRR 703 Guidance Values

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 18

VALIDATED DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR TOTAL METALS AND CYANIDE

Sample Location:	Groundwater	10S	10I	10D	11S	11I	11I	11D	MW12S
Sample Designation:	Standard	FRC-10S-02	FRC-10I-02	FRC-10D-02	FRC-11S-02	FRC-11I-02	FRC-11I-02 DUP	FRC-11D-02	FRC-MW12S-02
	(1)								
Sample Date:		2/26/93	2/26/93	2/26/93	2/24/93	2/24/93	2/24/93	2/24/93	3/1/93
Parameter: (Concentrations in ug/l)									
Aluminum	NA	10,571	147B	1,273	7,080	469	476	639	27,783
Antimony	3**	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	23.0B
Arsenic	25	5.1B	1.0U	1.0U	4.2B	1.0U	1.0U	1.0U	7.0B
Barium	1000	101B	48.6B	57.7B	61.9B	11.3B	12.2B	51.8B	245
Beryllium	3**	4.5U	1.0U	1.0U	2.0U	1.0U	1.0U	1.0U	9.9B
Cadmium	10	2.0U	2.0U	3.3B	2.0U	2.0U	2.0U	2.0U	2.0U
Calcium	NA	47,603	25,700	41,174	17,584	20,487	21,163	12,715	70,658
Chromium	50	204	8.9B	35.2	17.9	4.5B	5.3B	10.6	132
Cobalt	NA	9.0BN	6.4BN	3.0UN	3.0UN	3.0UN	3.0UN	3.4BN	13.7B
Copper	200	29.8	23.8B	90.1	39.6	3.4B	6.9B	24.8B	158
Iron	300	16,422	3,842	2,809	11,715	598	646	1,730	42,864
Lead	25	20.2	4.9	37.4	17.0	3.8	4.3	13.4	338
Magnesium	35000**	7,211	2,452B	5,430	3,363B	3,896B	3,953B	3,316B	36,139
Manganese	300	1,716	2,633	83	235	43	44.3	436	522.7
Mercury	2	0.20	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.6
Nickel	NA	30.1B	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U
Potassium	NA	7,516	39,502	13,270	4,019B	5,197	5,697	4,128B	11,910
Selenium	10	2.0UW	2.0UW	2.0U	2.0UW	2.0UW	2.0UW	2.0UW	2.0U
Silver	50	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U
Sodium	20000	39,898	86,975	48,611	9,590	17,776	17,980	57,455	25,425
Thallium	4**	2.0UW	2.0UW	2.0UW	2.0UW	2.0UW	2.0UW	2.0UW	2.0UW
Vanadium	NA	20.0B	6.0	7.4B	22.4B	6.0U	6.0U	6.0U	64.3
Zinc	300	65.6	18.2B	150	160	62.3	67.6	798.1	693
Cyanide	100	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U

U - Compound was analyzed for but not detected

B - Analyte results are between IDL and contract required detection limit.

W - Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance.

N - The spiked sample recovery is not within control limits.

(1) - 6 NYCRR 703 Groundwater Standards. The standard is only listed if the compound was detected.

NA - Not Applicable

** - 6 NYCRR 703 Guidance Values

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 19

VALIDATED DATA SUMMARY
GROUNDWATER RESULTS FOR DISSOLVED METALS

Sample Location:	Groundwater	1S	1D	2S	2D	2XD	3S	3D	4S	4D	5S
Sample Designation:	Standard (1)	FRC-1S-01	FRC-1D-01	FRC-2S-01	FRC-2D-01	FRC-2XD-01	FRC-3S-01	FRC-3D-01	FRC-4S-01	FRC-4D-01	FRC-5S-01
Sample Date:		12/3/92	12/3/92	12/3/92	12/3/92	12/2/92	12/2/92	12/2/92	12/2/92	12/2/92	12/2/92
Parameter: (Concentrations in ug/l)											
Aluminum	NA	13.0U	19.8B	13.0U	18.3B	204	13.0U	15.7B	36.3B	22.0U	13.0U
Antimony	3**	18.0U	18.0B	26.1B	29.5B	18.0U	18.0U	25.2B	18.0U	21.0U	18.0U
Arsenic	25	2.0U	7.6BW	2.9B	6.0BW	2.0U	2.0U	7.0B	2.0U	2.0U	2.0U
Barium	1000	38.2B	45.5B	133B	82.9B	22.1B	14.2B	43.2B	22.9B	41.0B	28.3B
Beryllium	3**	1.0U	5.0UC	1.0UC	1.0UC	1.0UC	1.0UC	5.0UC	1.0UC	1.0U	1.0UC
Cadmium	10	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
Calcium	NA	25,457	23,175	88,089	75,922	33,158	13,072	21,149	12,354	25,500	31,784
Chromium	50	3.0U	3.0U	3.0U	3.0U	3.0U	3.3B	3.0U	3.0B	3.0U	3.0U
Cobalt	NA	5.2B	23.0B	3.0U	3.9B	3.0U	3.0U	10.3B	3.0U	3.0U	7.3B
Copper	200	7.8B	3.3B	2.0U	2.0U	9.8B	15.0B	12.0B	16.0B	3.0U	10.9B
Iron	300	630	18,887	5,677	7,910	76.0U	76.0U	17,735	76.0U	165	4,118
Lead	25	1.0U	1.0UW	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.0U	1.0U
Magnesium	35000**	3,788B	4,268B	9,405	7,850	3,691BJ	4,298B	3,637B	2,994B	4,410B	4,185B
Manganese	300	1,012	1,014	1,169	2,367	1,123J	2.7B	2,103	3.8B	358	4,750
Mercury	2	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U
Nickel	NA	8.0U	8.0U	8.0U	8.0U	8.0U	8.0U	8.0U	8.0U	21.0U	8.0U
Potassium	NA	2,689B	4,170B	6,687	4,316B	7,028	1,311B	3,031B	1,657B	4,620B	4,961B
Selenium	10	2.0U	2.0U	2.0U	2.0UW	2.0U	2.0U	2.0UW	2.0U	2.0UN	2.0UW
Silver	50	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U
Sodium	20000	37,496	40,671	70,132	26,262	23,626	5,685	28,044	5,833	13,800	60,943
Thallium	4**	2.0UW	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
Vanadium	NA	4.0U	4.0U	4.6B	4.0U	4.0U	4.0U	4.0U	4.0U	6.0U	4.0U
Zinc	300	11.8B	15.8B	21.8	21.4	17.4B	24.8	27.3	40.0	26.8	12.0B

U - Compound was analyzed for but not detected.
B - Analyte results are between IDL and contract required detection limit.
W - Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance.
S - Estimated due to surrogate outliers
C - Laboratory calibration requirements are not met.
(1) - 6 NYCRR 703 Groundwater Standards.
NA - Not Applicable
** - 6 NYCRR 703 Guidance Values

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 19

VALIDATED DATA SUMMARY
GROUNDWATER RESULTS FOR DISSOLVED METALS

Sample Location:	Groundwater	5D	6S	6D	6D	7S	7D	8S	8I	9S	9I
Sample Designation:	Standard	FRC-5D-01	FRC-6S-01	FRC-6D-01	FRC-6D-01	FRC-7S-01	FRC-7D-01	FRC-8S-01	FRC-8I-01	FRC-9S-01	FRC-9I-01
	(1)				DUP						
Sample Date:		12/2/92	12/3/92	12/10/92	12/10/92	12/3/92	12/3/92	12/2/92	12/2/92	12/3/92	12/3/92
Parameter: (Concentrations in ug/l)											
Aluminum	NA	13.0U	147B	88.2B	86.1B	25.2B	13.0U	13.0U	18.1B	72.3B	102B
Antimony	3**	18.0U	21.0U	21.0U	21.0U	18.0U	18.0U	18.0U	20.6B	21.0U	21.0U
Arsenic	25	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
Barium	1000	22.5B	70.1B	21.2B	21.2B	22.9B	50.1B	44.1B	19.6B	14.1B	20.7B
Beryllium	3**	1.0UC	1.0U	1.0U	1.0U	1.0UC	1.0UC	1.0UC	1.0UC	1.0U	1.0U
Cadmium	10	2.0U	3.2B	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
Calcium	NA	9,173	14,145	14,127	13,779	18,087	16,505	37,360	25,106	7,550	28,700
Chromium	50	4.8B	10.8	3.4B	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	34.2
Cobalt	NA	3.0U	3.0U	3.2B	3.0U	3.0U	3.0U	3.0U	3.8B	3.0U	3.0U
Copper	200	5.0B	14.9B	3.0U	3.0U	2.0U	2.0U	3.9B	15.3B	9.5B	10.7B
Iron	300	76.0U	82.0U	82.0U	82.0U	76.0U	76.0U	2,398	2,376	82.0U	82.0U
Lead	25	1.0U	2.0U	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U	2.0U	2.0U
Magnesium	35000**	1,717B	3,445B	3,066B	2,992B	2,573B	2,637B	4,505B	2,049BJ	2,129B	1,112B
Manganese	300	527	76.9	1,227	1,200.5	4.0B	1,474	398	1,177J	8.3B	5.4B
Mercury	2	0.20U	0.20U	0.26	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U
Nickel	NA	8.0U	21.0U	21.0U	21.0U	8.0U	8.0U	8.0U	8.0U	21.0U	21.0U
Potassium	NA	1,799B	5,321	1,845B	1,662B	2,647B	2,525B	3,481B	7,052	3,033B	39,308
Selenium	10	2.0U	2.0U	2.0UNW	2.0UNW	2.0U	2.0U	2.0U	2.0UW	2.0UW	2.0UW
Silver	50	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U
Sodium	20000	10,715	15,930	18,439	18,067	10,739	19,031	24,134	22,557	5,183	39,394
Thallium	4**	2.0U	2.0UC	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
Vanadium	NA	4.0U	6.0U	6.0U	6.0U	4.0U	4.0U	4.0U	4.0U	6.0U	6.0U
Zinc	300	19.3B	21.1	15.0B	22.8	14.7B	14.3B	16.5B	26.6	52.7	25.5

U - Compound was analyzed for but not detected.
B - Analyte results are between IDL and contract required detection limit.
W - Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance.
* - Duplicate analysis is not within control limits.
C - Laboratory calibration requirements are not met.
(1) - 6 NYCRR 703 Groundwater Standards.
NA - Not Applicable
** - 6 NYCRR 703 Guidance Values

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 19

VALIDATED DATA SUMMARY
GROUNDWATER RESULTS FOR DISSOLVED METALS

Sample Location:	Groundwater	10S	10I	10D	10D	11S	11I	11D	MW12S		
Sample Designation:	Standard	FRC-10S-01	FRC-10I-01	FRC-10D-01	FRC-10D-01 DUP	FRC-11S-01	FRC-11I-01	FRC-11D-01	FRC-MW12S-01	FRC-RB-1	FRC-RB-01
	(1)										
Sample Date:		12/3/92	12/3/92	12/3/92	12/3/92	12/4/92	12/4/92	12/3/92	12/3/92	12/3/92	12/7/92
Parameter: (Concentrations in ug/l)											
Aluminum	NA	22.0U	22.0U	46.6B	73.3B	532	28B	32.5B	22.8B	17.9B	22.0U
Antimony	3**	21.0U	21.0U	21.0U	23.6B	20.0B	18.0U	18.0U	21.0U	18.4B	21.0U
Arsenic	25	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
Barium	1000	65.6B	27.4B	26.1B	29.9B	16.9B	9.9B	25.6B	72.6B	1.0U	6.0U
Beryllium	3**	1.0U	1.0U	1.0U	1.0U	1.0UC	1.0UC	1.0UC	1.0U	1.0UC	1.0U
Cadmium	10	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
Calcium	NA	48,222	21,465	11,672	11,276	23,429	19,876	15,406	32,382	51.2B	101B
Chromium	50	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	4.0B	3.0U	3.0U	3.0U
Cobalt	NA	3.0U	5.5B	3.0U	3.0U	3.0U	3.0U	4.1B	3.0U	3.0U	3.0U
Copper	200	12.8B	10.7B	8.2B	7.0B	4.5B	2.1B	2.0U	3.0U	2.0U	3.8B
Iron	300	82.0U	506	82.0U	82.0U	932	76.0U	76.0U	276	76.0U	82.0U
Lead	25	2.0U	2.0U	2.0U	2.0U	1.2B	1.0U	1.0U	2.0U	1.0U	2.0U
Magnesium	35000**	6,956	4,681B	3,196B	3,223B	3,510B	2,898B	2,489B	14,150	26.0U	29.4B
Manganese	300	671	6,214	6.1B	3.2B	444	31.8	338.3	81.0	3.4B	2.0B
Mercury	2	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.21U	0.20U	0.20U	0.20U
Nickel	NA	21.0U	21.0U	21.0U	21.0U	8.0U	8.0U	8.0U	21.0U	8.0U	21.0U
Potassium	NA	10,647	7,251	31,313	39,554	3,230B	9,330	7,900	13,507	567U	626U
Selenium	10	2.0U	2.0U	2.0U	2.0U	2.1U	2.0U	2.0U	2.0UW	2.0U	2.0UN
Silver	50	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U
Sodium	20000	63,496	18,570	28,508	34,999	11,015	19,104	21,765	25,526	60.7B	240B
Thallium	4**	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
Vanadium	NA	6.0U	6.0U	6.0U	6.0U	4.0U	4.0U	4.0U	6.0U	4.0U	6.0U
Zinc	300	19.3B	30.5	9.4B	10.8B	52.9	40.2	47.2	9.0B	14.0B	8.4B

U - Compound was analyzed for but not detected.
B - Analyte results are between IDL and contract required detection limit
W - Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance.
N - The spiked sample recovery is not within control limits.
(1) - 6 NYCRR 703 Groundwater Standards.
NA - Not Applicable
** - 6 NYCRR 703 Guidance Values

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 19

VALIDATED DATA SUMMARY
GROUNDWATER RESULTS FOR DISSOLVED METALS

Sample Location:	Groundwater	1S	1D	2S	2S	2D	2XD	3S	3D	4S	4D
Sample Designation:	Standard	FRC-1S-02	FRC-1D-02	FRC-2S-02	FRC-2S-02	FRC-2D-02	FRC-2XD-02	FRC-3S-02	FRC-3D-02	FRC-4S-02	FRC-4D-02
	(1)				DUP						
Sample Date:		3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	2/25/93	2/26/93	2/26/93	2/26/93
Parameter: (Concentrations in ug/l)											
Aluminum	NA	22.0U	22.0U	22.0U	22.0U	22.0U	22.0U	22.0U	22.0U	22.0U	22.0U
Antimony	3**	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U
Arsenic	25	1.0U	7.9B	2.8B	2.8B	3.0B	1.0B	1.0U	7.7B	1.0U	1.8B
Barium	1000	51.9B	7.8B	81.4B	82.9B	69.1B	47.4B	15.8B	33.8B	22.1B	33.8B
Beryllium	3**	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Cadmium	10	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
Calcium	NA	27,800	21,323	75,826	74,821	78,472	63,729	14,257	18,672	12,045	16,887
Chromium	50	3.0U	3.0U	3.0U	3.0U	5.0U	3.0U	3.0U	3.0U	4.8B	3.0U
Cobalt	NA	3.7B	19.6B	3.0U	3.0U	3.7B	3.0U	3.0U	10.8B	3.0U	9.0B
Copper	200	3.0U	10.1B	3.0U	6.2B	4.7B	3.0U	3.0U	3.0U	3.0U	3.0U
Iron	300	431	13,713	3,856	4,012	2,627	82.0U	82.0U	16,083	82.0U	2,140
Lead	25	1.2B	1.0U	1.0U	1.0U	1.0U	2.5B	1.0U	1.0U	1.0U	1.0U
Magnesium	35000**	4,762B	3,926B	8,337	8,269	8,295	9,453	5,279	3,023B	3,017B	2,933B
Manganese	300	825	833	967	949	2,335	2,945	1.3B	1,953	1.4B	1,639
Mercury	2	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U
Nickel	NA	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U
Potassium	NA	3,222B	3,693B	4,955B	4,706B	3,780B	6,513	1,453B	2,554B	1,675B	2,192B
Selenium	10	2.0UW	2.0U	2.0UW	2.0U	2.0U	2.0UW	2.0UW	2.0UW	2.0U	2.0UW
Silver	50	3.0U	4.7B	3.0U	3.8B	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U
Sodium	20000	55,944	36,457	37,141	38,231	24,483	33,529	4,722B	22,765	7,106	23,436
Thallium	4**	2.0U	2.0UW	2.0UW	2.0UW	2.0UW	2.0U	2.0U	2.0U	2.0U	2.0UW
Vanadium	NA	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U
Zinc	300	8.4B	18.0B	4.0U	15.3B	4.5B	4.0U	11.1B	10.5B	9.0B	10.0B

U - Compound was analyzed for but not detected.
B - Analyte results are between IDL and contract required detection limit.
W - Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance.
N - The spiked sample recovery is not within control limits.
(1) - 6 NYCRR 703 Groundwater Standards.
NA - Not Applicable
** - 6 NYCRR 703 Guidance Values

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 19

VALIDATED DATA SUMMARY
GROUNDWATER RESULTS FOR DISSOLVED METALS

Sample Location:	Groundwater	5S	5D	6S	6D	7S	7D	8S	8I	9S	9I
Sample Designation:	Standard (1)	FRC-5S-02	FRC-5D-02	FRC-6S-02	FRC-6D-02	FRC-7S-02	FRC-7D-02	FRC-8S-02	FRC-8I-02	FRC-9S-02	FRC-9I-02
Sample Date:		3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	2/26/93	2/26/93	2/26/93	2/26/93
Parameter: (Concentrations in ug/l)											
Aluminum	NA	71.4B	22.0U	124B	117B	22.0U	22.0U	22.0U	22.0U	22.0U	22.0U
Antimony	3**	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U
Arsenic	25	1.4B	1.0UW	1.0U	1.0U	1.0U	1.0U	1.0U	1.0B	1.0U	1.0U
Barium	1000	24.0B	27.7B	66.6B	20.0B	24.6B	51.2B	94.3B	18.0B	32.0B	17.2B
Beryllium	3**	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Cadmium	10	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
Calcium	NA	29,832	10,628	12,092	12,402	19,609	18,178	49,803	47,793	12,043	8,995
Chromium	50	5.0U	3.0U	5.9B	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	18.7
Cobalt	NA	6.0B	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.9B	3.0U	3.0U
Copper	200	4.4B	19.2B	4.9B	3.0U	3.0U	3.0U	3.0U	3.0U	5.2B	4.2B
Iron	300	2,426	82.0U	82.0U	82.0U	82.0U	82.0U	1,029	689	82.0U	82.0U
Lead	25	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Magnesium	35000**	4,192B	2,074B	2,298B	2,682B	2,714B	2,785B	7,447	5,464	2,665B	621B
Manganese	300	4,062	515	51.8	51.8	4.8B	1,123	322	1,471	6.6B	9B
Mercury	2	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U
Nickel	NA	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U
Potassium	NA	3,144B	2,045B	2,632B	1,835B	2,728B	2,272B	4,707B	4,125B	1,652B	43,994
Selenium	10	2.0U	2.0UW	2.0U	2.0U	2.0U	2.0U	2.0UW	2.0UW	2.0U	10.0U
Silver	50	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U
Sodium	20000	53,191	11,567	15,923	18,609	9,934	20,713	75,708	27,904	23,560	49,953
Thallium	4**	2.0UW	2.0UW	2.0UW	2.0UW	2.0UW	2.0UW	2.0U	2.0UW	2.0U	2.0UW
Vanadium	NA	6.0U	6.0U	7.8B	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U
Zinc	300	13.1B	60.1	9.3B	18.2B	11.3B	9.1B	14.8B	39.6	81.7	4.0U

U - Compound was analyzed for but not detected.
B - Analyte results are between IDL and contract required detection limit.
W - Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance.
N - The spiked sample recovery is not within control limits.
(1) - 6 NYCRR 703 Groundwater Standards.
NA - Not Applicable
** - 6 NYCRR 703 Guidance Values

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 19

VALIDATED DATA SUMMARY
GROUNDWATER RESULTS FOR DISSOLVED METALS

Sample Location:	Groundwater	10S	10I	10D	11S	11I	11I	11D	MW12S
Sample Designation:	Standard	FRC-10S-02	FRC-10I-02	FRC-10D-02	FRC-11S-02	FRC-11I-02	FRC-11I-02	FRC-11D-02	FRC-MW12S-02
	(1)						DUP		
Sample Date:		2/26/93	2/26/93	2/26/93	2/24/93	2/24/93	2/24/93	2/24/93	3/1/93
Parameter: (Concentrations in ug/l)									
Aluminum	NA	22.0U	22.6B	40.6B	23.2B	22.0U	30.0B	35.8B	57.6B
Antimony	3**	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U
Arsenic	25	1.0U	1.0U	1.0U	1.0UW	1.0U	1.0U	1.0U	1.2B
Barium	1000	37.9B	27.5B	16.3B	6.0U	8.6B	8.6B	43.8B	82.0B
Beryllium	3**	1.0U	1.0U	1.0U	3.3B	1.0U	2.3B	5.2	1.0U
Cadmium	10	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
Calcium	NA	45,612	15,869	12,453	20,401	21,440	25,967	15,356	37,633
Chromium	50	3.0U	7.0B	5.6B	3.0U	3.0U	4.3B	3.0U	3.0U
Cobalt	NA	3.4B	3.2B	3.0U	3.0U	3.0U	3.0U	5.0B	3.0U
Copper	200	3.4B	13.6B	5.5B	3.0U	3.0U	3.4B	7.6B	3.0U
Iron	300	82.0U	82.0U	82.0U	82.0U	82.0U	82.0U	82.0U	160
Lead	25	1.0U	6.2	1.0B	1.0U	1.0U	1.5B	1.0U	1.2BW
Magnesium	35000**	5,620	1,025B	3,468B	2,684B	3,822B	3,929B	3,328B	18,599
Manganese	300	765	11	14B	184	21.4	20.0	469	130
Mercury	2	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U
Nickel	NA	21.0U	21.0U	21.0U	21.0U	21.0U	21.0U	19.2U	21.0U
Potassium	NA	6,337	40,685	12,924	3,094B	7,151	10,345	5,145	10,607
Selenium	10	2.0U	2.0UW	4.0U+	2.0U	2.0UW	2.0U	2.0U	2.0UW
Silver	50	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U
Sodium	20000	38,635	88,255	46,707	9,052	19,108	20,132	51,718	27,019
Thallium	4**	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0UW
Vanadium	NA	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U
Zinc	300	13.5B	4.0U	5.5B	62.2	32.0	27.7	69.4	5.2B

U - Compound was analyzed for but not detected.
B - Analyte results are between IDL and contract required detection limit.
W - Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance.
N - The spiked sample recovery is not within control limits.
(1) - 6 NYCRR 703 Groundwater Standards.
NA - Not Applicable
** - 6 NYCRR 703 Guidance Values

FAIRCHILD INDUSTRIES INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 20

DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR ALKALINITY, NITRATE, PHOSPHORUS AND SULFATE

Sample Location:	Groundwater	1S	1D	2S	2D	2XD	3S	3D	4S	4D	5S
Sample Designation:	Standard	FRC-1S-01	FRC-1D-01	FRC-2S-01	FRC-2D-01	FRC-2XD-01	FRC-3S-01	FRC-3D-01	FRC-4S-01	FRC-4D-01	FRC-5S-01
	(1)										
Sample Date:		12/3/92	12/3/92	12/3/92	12/3/92	12/2/92	12/2/92	12/2/92	12/2/92	12/2/92	12/2/92
Parameter: (Concentrations in mg/l)											
Alkalinity, as Calcium Carbonate	NA	59.4	77.4	204	155	79.2	31.9	77.2	22	51.7	89.1
Nitrate/Nitrite-Nitrogen	10	0.36	0.10 U	0.11	0.10 U	0.12	1.01	0.10 U	1.72	0.14	0.10 U
Phosphorus	NA	0.10 U	0.10 U	0.2	0.10 U	0.10 U	0.10 U	0.12	0.10 U	0.10 U	0.22
Sulfate	250	13.2	35.4	68.7	94.7	32.1	15.2	19.8	20.6	21.8	24.7

Sample Location:	Groundwater	5D	6S	6D	6D	7S	7D	8S	8I	9S	9I
Sample Designation:	Standard	FRC-5D-01	FRC-6S-01	FRC-6D-01	FRC-6D-01	FRC-7S-01	FRC-7D-01	FRC-8S-01	FRC-8I-01	FRC-9S-01	FRC-9I-01
	(1)				DUP						
Sample Date:		12/2/92	12/3/92	12/10/92	12/10/92	12/3/92	12/3/92	12/2/92	12/2/92	12/3/92	12/3/92
Parameter: (Concentrations in mg/l)											
Alkalinity, as Calcium Carbonate	NA	23.4	11.5	11.9	8.9	39.6	40.4	110	44.6	25.5	117
Nitrate/Nitrite-Nitrogen	10	0.17	2.52	2.8	2.79	1.39	0.64	0.52	0.10 U	0.38	0.10 U
Phosphorus	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.27	0.10 U
Sulfate	250	16.5	27.6	32.5	31.3	27.2	28	13.2	42.4	6.17	62.2

Sample Location:	Groundwater	10S	10I	10D	10D	11S	11I	11D	12S		
Sample Designation:	Standard	FRC-10S-01	FRC-10I-01	FRC-10D-01	FRC-10D-01	FRC-11S-01	FRC-11I-01	FRC-11D-01	FRC-12S-01	FRC-RB-01	FRC-RB-1
	(1)				DUP						
Sample Date:		12/3/92	12/3/92	12/3/92	12/3/92	12/4/92	12/4/92	12/3/92	12/3/92	12/7/92	12/3/92
Parameter: (Concentrations in mg/l)											
Alkalinity, as Calcium Carbonate	NA	107	60.2	84.7	85.5	52.5	59.4	35.6	200	2	<1.00
Nitrate/Nitrite-Nitrogen	10	4.14	0.10 U	0.10 U	0.10 U	1.54	0.49	2.13	0.2	0.10 U	0.10 U
Phosphorus	NA	0.2	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.12	0.10 U	0.10 U	0.83
Sulfate	250	24.7	30.5	30.5	32.1	30.9	33.3	28.4	4.12	<10.0	<10.0

U - The compound was analyzed for but not detected.
(1) - 6 NYCRR 703 Groundwater Standards. The standard is only listed if the compound was detected.
NA - Not Applicable

FAIRCHILD INDUSTRIES INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 20

DATA SUMMARY
GROUNDWATER ANALYTICAL RESULTS FOR ALKALINITY, NITRATE, PHOSPHORUS AND SULFATE

Sample Location:	Groundwater	1S	1D	2S	2S	2D	2XD	3S	3D
Sample Designation:	Standards	FRC-1S-02	FRC-1D-02	FRC-2S-02	FRC-2S-02	FRC-2D-02	FRC-2XD-02	FRC-3S-02	FRC-3D-02
	(1)			DUP					
Sample Date:		3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	2/25/93	2/26/93
Parameter: (Concentrations in mg/l)									
Alkalinity, as Calcium Carbonate	NA	65.9	52.9	129	173	159	112	35.2	64.7
Nitrate/Nitrite-Nitrogen	10	0.414	0.100U	0.100U	0.100U	0.100U	0.10 U	0.84	0.10 U
Phosphorus	NA	1.13	0.487	0.14	0.665	0.100U	0.10 U	0.33	0.10 U
Sulfate	250	14.8	23	63.8	68.3	88.1	28.8	24.7	18.9

Sample Location:	Groundwater	5S	5D	6S	6D	7S	7D	8S	8I
Sample Designation:	Standards	FRC-5S-02	FRC-5D-02	FRC-6S-02	FRC-6D-02	FRC-7S-02	FRC-7D-02	FRC-8S-02	FRC-8I-02
	(1)								
Sample Date:		3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	3/1/93	2/26/93	2/26/93
Parameter: (Concentrations in mg/l)									
Alkalinity, as Calcium Carbonate	NA	79.6	23.8	11.1	12.77	33.7	40.2	161	108
Nitrate/Nitrite-Nitrogen	10	0.100U	0.17	3.04	2.76	2.15	1.28	1.14	0.10 U
Phosphorus	NA	0.38	0.100U	0.100U	0.100U	0.100U	0.100U	0.10 U	0.10 U
Sulfate	250	26.3	16.1	24.3	26.3	30.9	23.9	26.3	61.7

Sample Location:	Groundwater	10S	10I	10D	11S	11I	11I	11D	MW-12S
Sample Designation:	Standards	FRC-10S-02	FRC-10I-02	FRC-10D-02	FRC-11S-02	FRC-11I-02	FRC-11I-02	FRC-11D-02	FRC-MW12S-0
	(1)						DUP		
Sample Date:		2/26/93	2/26/93	2/26/93	2/24/93	2/24/93	2/24/93	2/24/93	3/1/93
Parameter: (Concentrations in mg/l)									
Alkalinity, as Calcium Carbonate	NA	108	110	70.1	41.6	35.2	43.6	19.8	251
Nitrate/Nitrite-Nitrogen	10	2.32	0.10 U	0.10 U	0.96	0.66	0.65	3.33	0.100U
Phosphorus	NA	0.15	0.10 U	0.10 U	1.2	0.29	0.24	0.10 U	0.100U
Sulfate	250	33.3	28.8	31.7	22.6	43.2	42.4	22.2	10.0U

U - The compound was analyzed for but not detected.
(1) - 6 NYCRR 703 Groundwater Standards. The standard is only listed if the compound was detected.
NA - Not Applicable

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN
EAST FARMINGDALE, NEW YORK

TABLE 22

VALIDATED DATA SUMMARY
SOIL SAMPLE ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS

Sample Designation:	Recommended Soil	ORB-1	ORB-1-D	ORB-2	ORB-3	TB-1*
Sample Date:	Cleanup	10/30/92	10/30/92	10/30/92	10/30/92	---
Parameter: (Concentrations in ug/kg)	Objective (1)					
Chloromethane		12 U	10 U	14 U	11 U	10 UC
Vinyl Chloride		12 U	10 U	14 U	11 U	10 UC
Bromomethane		12 U	10 U	14 U	11 U	10 UC
Chloroethane		12 U	10 U	14 U	11 U	10 UC
Methylene Chloride	100	7JB	4JB	5JB	7JB	10 UC
Acetone	200	9JB	3JB	12JB	6JB	13
Carbon Disulfide	2,700	12 U	10 U	0.7J	11 U	10 UC
1,1-Dichloroethene		12 U	10 U	14 U	11 U	10 UC
trans-1,2-Dichloroethene		12 U	10 U (total)	10 U (total)	11 U	10 UC
1,1-Dichloroethane		12 U	10 U	14 U	11 U	10 UC
cis-1,2-Dichloroethene		12 U	NA	NA	11 U	10 UC
2-Butanone		12 U	10 U	14 U	11 U	10 UC
Chloroform		12 U	10 U	14 U	11 U	10 UC
1,1,1-Trichloroethane		12 U	10 U	14 U	11 U	10 UC
Vinyl Acetate		12 U	10 U	14 U	11 U	10 UC
Carbon Tetrachloride		12 U	10 U	14 U	11 U	10 UC
Benzene		12 U	10 U	14 U	11 U	10 UC
1,2-Dichloroethane		12 U	10 U	14 U	11 U	10 UC
Trichloroethene	700	12 U	10 U	14 U	2J	10 UC
1,2-Dichloropropane		12 U	10 U	14 U	11 U	10 UC
4-Methyl-2-pentanone		12 U	10 U	14 U	11 U	10 UC
Bromodichloromethane		12 U	10 U	14 U	11 U	10 UC
cis-1,3-Dichloropropene		12 U	10 U	14 U	11 U	10 UC
Toluene		12 U	10 U	14 U	11 U	10 UC
trans-1,3-Dichloropropene		12 U	10 U	14 U	11 U	10 UC
1,1,2-Trichloroethane		12 U	10 U	14 U	11 U	10 UC
Tetrachloroethene		12 U	10 U	14 U	11 U	10 UC
2-Hexanone		12 U	NA	NA	11 U	10 UC
Dibromochloromethane		12 U	10 U	14 U	11 U	10 UC
Chlorobenzene		12 U	10 U	14 U	11 U	10 UC
Ethylbenzene		12 U	10 U	14 U	11 U	10 UC
meta and/or para-Xylene		12 U	NA	NA	11 U	10 UC
ortho-Xylene		12 U	NA	NA	11 U	10 UC
Styrene		12 U	10 U	14 U	11 U	10 UC
Bromoform		12 U	10 U	14 U	11 U	10 UC
1,1,2,2-Tetrachloroethane		12 U	10 U	14 U	11 U	10 UC

* - TB-1 Concentrations in ug/l

U - Indicates that the compound was analyzed for but not detected

J - Indicates that the compound was analyzed for and determined to be present in the sample. The mass spectrum of the compound meets the identification criteria of the method. The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.

B - This flag is used when the analyte is found in the blanks as well as the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of this analyte

(1) - Cleanup standards for soil assume Total Organic Carbon=1%. NYSDEC TAGM November, 1992. Determination of soil cleanup objectives and cleanup level Standards given for detected compounds only.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN
EAST FARMINGDALE, NEW YORK

TABLE 22

VALIDATED DATA SUMMARY
SOIL SAMPLE ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS

Sample Designation:	ORB-1	ORB-1-D	ORB-2	ORB-3	TB-1*
Sample Date:	10/30/92	10/30/92	10/30/92	10/30/92	---
Tentatively Identified Compounds (TICs) (Concentrations in ug/kg)					
Total unknown siloxane	21J	7J	13J	10J	ND
Unknown carboxylic acid	ND	ND	ND	ND	110J
Unknown alkane	ND	ND	8J	ND	ND

* - TB-1 Concentrations in ug/l

J - Indicates that the compound was analyzed for and determined to be present in the sample. The concentration listed is an estimated value.

ND - Not Detected

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 23

VALIDATED DATA SUMMARY
SOIL SAMPLE ANALYTICAL RESULTS FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample Designation:	Recommended Soil	ORB-1	ORB-1-D	ORB-2	ORB-3
Sample Date:	Cleanup	10/30/92	10/30/92	10/30/92	10/30/92
Parameter: (Concentrations in ug/kg)	Objective (1)				
Phenol		2,000U	680U	460U	890U
bis(2-Chloroethyl)ether		2,000U	680U	460U	890U
2-Chlorophenol		2,000U	680U	460U	890U
1,3-Dichlorobenzene		2,000U	680U	460U	890U
1,4-Dichlorobenzene		2,000U	680U	460U	890U
1,2-Dichlorobenzene		2,000U	680U	460U	890U
2-Methylphenol		2,000U	680U	460U	890U
N-Nitroso-di-n-propylamine		2,000U	680U	460U	890U
Hexachloroethane		2,000U	680U	460U	890U
Nitrobenzene		2,000U	680U	460U	890U
Isophorone		2,000U	680U	460U	890U
2-Nitrophenol		2,000U	680U	460U	890U
2,4-Dimethylphenol	N/A	2,000U	680U	460U	26J
bis(2-Chloroethoxy)methane		2,000U	680U	460U	890U
2,4-Dichlorophenol		2,000U	680U	460U	890U
1,2,4-Trichlorobenzene		2,000U	680U	460U	890U
Naphthalene	13,000	343J	35J	460U	32J
4-Chloroaniline		2,000U	680U	460U	890U
Hexachlorobutadiene		2,000U	680U	460U	890U
4-Chloro-3-methylphenol		2,000U	680U	460U	890U
2-Methylnaphthalene	36,400	121J	26J	460U	42J
Hexachlorocyclopentadiene		2,000U	680U	460U	890U
2,4,6-Trichlorophenol		2,000U	680U	460U	890U
2,4,5-Trichlorophenol		4,800U	1,600U	1,100U	2,200U
2-Chloronaphthalene		2,000U	680U	460U	890U
2-Nitroaniline		4,800U	1600U	1,100U	2,200U
Dimethylphthalate		2,000U	680U	460U	890U
Acenaphthylene	41,000	56J*	71J	460U	51J
2,6-Dinitrotoluene		2,000U	680U	460U	890U
3-Nitroaniline		4,800U	1,600U	1,100U	2,200U
Acenaphthene	50,000	502J	200J	460U	144J

U - Indicates that the compound was analyzed for but not detected

J - Indicates that the compound was analyzed for and determined to be present in the sample. The mass spectrum of the compound meets the identification criteria of the method. The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.

(1) - Cleanup standards for soil assume Total Organic Carbon=1%. NYSDEC TAGM November, 1992. Determination of soil cleanup objectives and cleanup levels. Standards given for detected compounds only.

N/A - Not Available

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 23

VALIDATED DATA SUMMARY
SOIL SAMPLE ANALYTICAL RESULTS FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample Designation:	Recommended Soil	ORB-1	ORB-1-D	ORB-2	ORB-3
Sample Date:	Cleanup	10/30/92	10/30/92	10/30/92	10/30/92
Parameter: (Concentrations in ug/kg)	Objective (1)				
2,4-Dinitrophenol		4,800U	1,600U	1,100U	2,200U
4-Nitrophenol		4,800U	1,600U	1,100U	2,200U
Dibenzofuran	6,200	352J	82J	460U	97J
2,4-Dinitrotoluene		2,000U	680U	460U	890U
Diethylphthalate	7,100	2,000U	9J	460U	17J
4-Chlorophenyl-phenylether		2,000U	680U	460U	890U
Fluorene	50,000	593J	207J	460U	205J
4-Nitroaniline		4,800U	1,600U	1,100U	2,200U
4,6-Dinitro-2-methylphenol		4,800U	1,600U	1,100U	2,200U
N-Nitrosodiphenylamine(1)		2,000U	680U	460U	890U
4-Bromophenyl-phenylether		2,000U	680U	460U	890U
Hexachlorobenzene		2,000U	680U	460U	890U
Pentachlorophenol		4,800U	1,600U	1,100U	2,200U
Phenanthrene	50,000	5,675	2,651	10J	2,696
Anthracene	50,000	1,148J	535J	460U	435J
Carbazole	N/A	1,656J	725	460U	735J
Di-n-butylphthalate	8,100	129JB	65JB	38JB	102JB
Fluoranthene	50,000	9,532	5,036	12J	5,242
Pyrene	50,000	8,201	3,725	19J	2,831
Butylbenzylphthalate	50,000	34JB	28JB	7JB	139JB
3,3'-Dichlorobenzidine		2,000U	680U	460U	890U
Benzo(a)anthracene	220	4,666	2,775	460U	1,840
Chrysene	400	4,579	2,597	10J	1,873
bis(2-Ethylhexyl)phthalate	50,000	265JB	145JB	989B	464JB
Di-n-octylphthalate	50,000	2,000U	680U	8J	890U
Benzo(b)fluoranthene	1,100	3,507U	1,616	460U	2,298
Benzo(k)fluoranthene	1,100	653U	1,946	460U	1,230
Benzo(a)pyrene	61	3,579U	2,315	460U	1,545
Indeno(1,2,3-cd)pyrene	3,200	3,133U	1,073	460U	668J
Dibenzo(a,h)anthracene		2,000U	680U	460U	890U
Benzo(g,h,i)perylene	50,000	2,191U	298J	460U	549J

U - Indicates that the compound was analyzed for but not detected

J - Indicates that the compound was analyzed for and determined to be present in the sample. The mass spectrum of the compound meets the identification criteria of the method. The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.

B - This flag is used when the analyte is found in the blanks as well as the sample.

(1) - Cleanup standards for soil assume Total Organic Carbon =1%. NYSDEC TAGM November, 1992. Determination of soil cleanup objectives and cleanup levels. Standards given for detected compounds only.

FAIRCHILD INDUSTRIES INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 24

VALIDATED DATA SUMMARY
SOIL SAMPLE ANALYTICAL RESULTS FOR PCBs

Sample Designation:	Recommended Soil	ORB-1	ORB-1-D	ORB-1-D	ORB-2	ORB-3	ORB-3
Sample Date:	Cleanup	10/30/92	10/30/92	10/30/92	10/30/92	10/30/92	10/30/92
Parameter: (Concentrations in ug/kg)	Objective (1)		Diluted 10x	Diluted 100x		Diluted 10x	Diluted 100
Aroclor-1016		40 UC	340 UC	3,400 UC	46 UC	440 UC	4,400 UC
Aroclor-1221		81 UC	690 UC	6,900 UC	93 UC	900 UC	9,000 UC
Aroclor-1232		40 UC	340 UC	3,400 UC	46 UC	440 UC	4,400 UC
Aroclor-1242		40 UC	340 UC	3,400 UC	46 UC	440 UC	4,400 UC
Aroclor-1248		40 UC	340 UC	3,400 UC	46 UC	440 UC	4,400 UC
Aroclor-1254	1,000	130.0 P	4,000P	7,900 DPC	40.0 JPC	620 P	4,400 UC
Aroclor-1260		40 UC	340 UC	3,400 UC	46 UC	440 UC	4,400 UC

U - Indicates that the compound was analyzed for but not detected.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

P - Indicates that there is a greater than 25 percent difference for detected concentrations between the two GC columns.

J - Indicates that the compound was analyzed for and determined to be present in the sample. The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.

C - Laboratory calibration requirements are not met.

(1) - Cleanup standards for soil assume Total Organic Carbon=5%. NYSDEC TAGM November, 1992. Determination of soil cleanup objectives and cleanup levels. Standards given for detected compounds only.

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN RI
EAST FARMINGDALE, NEW YORK

TABLE 25

VALIDATED DATA SUMMARY
SOIL SAMPLE ANALYTICAL RESULTS FOR METALS

Sample Designation:	Recommended Soil	Eastern USA	ORB-1	ORB-1-D	ORB-2	ORB-3
Sample Date:	Cleanup	Background	10/30/92	10/30/92	10/30/92	10/30/92
Parameter: (Concentrations in mg/kg)	Objective (1)	Levels				
Aluminum	SB	33,000	1,488	1,686	36,502	4,184
Antimony	SB	2-10	4.0U	3.3U	4.3U	3.9U
Arsenic	7.5	3-12	1.1B	0.80B	9.0S	6.8S
Barium	300	15-600	13.1B	11.6B	108	20.5B
Beryllium	1.0	0.0-1.75	0.22U	0.18U	9.4	0.46B
Cadmium	1.0	0.1-1	0.65B	0.77B	0.48U	7.3
Calcium	SB	130-35,000	635B	322B	1,585	2,305
Chromium	10	1.5-40	126.1	108	35.5	907
Cobalt	30	2.5-60	0.66U	0.97B	14.8	2.8B
Copper	25	1-50	9.3 J	8.8 J	29.5	121
Iron	2,000	2,000-550,000	2,446*	3,166*	34,850*	6,811*
Lead	30	4-61	32.8*	59.0*	28.80*	289
Magnesium	SB	100-5,000	311B	439B	4,813	1,074
Manganese	SB	50-5,000	32.24	39.0	346	190
Mercury	0.1	0.001-0.2	0.11U	0.10U	0.13U	0.28
Nickel	13	0.5-25	3.3B	3.3B	24.7	17.9
Potassium	SB	8,500-43,000	125U	133B	1,926	157B
Selenium	2.0	0.1-3.9	0.22U	0.20B	0.61B	0.20U
Silver	SB	.01-5	0.86B	0.79B	0.72U	9.7
Sodium	SB	6,000-8,000	21.6B	16.9B	120B	34.2B
Thallium	SB	N/A	0.22U	0.20B	0.26B	0.20U
Vanadium	150	1-300	6.4B	4.9B	49.8	24.2
Zinc	20	9-50	49.9	35.2	134	341

U - Indicates analyte results less than instrument detection limit (IDL).
B - Indicates analyte results between IDL and contract required detection limit.
S - The reported value was determined by the method of standard additions.
* - Duplicate analysis not within control limits.
(1) - NYSDEC TAGM November, 1992. Determination of soil cleanup objectives and cleanup levels.
SB - Site Background levels.
N/A - Not Available

FAIRCHILD INDUSTRIES, INC.
OLD RECHARGE BASIN
SOIL ANALYTICAL RESULTS FOR PESTICIDES AND PCBs
SEPTEMBER 1993

TABLE 26

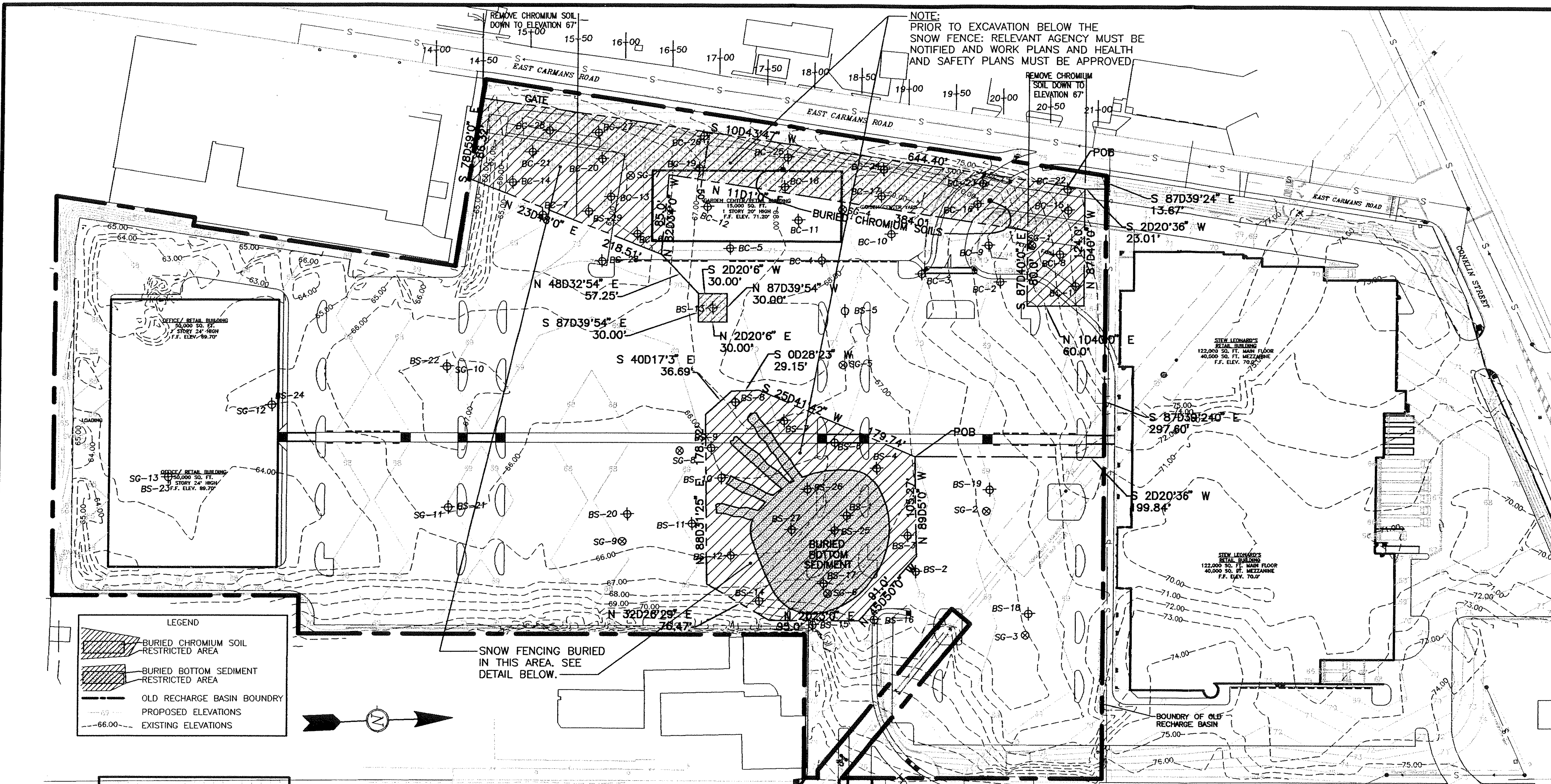
COMPOUND (All concentrations in ug/kg)	NYSDEC DRAFT CLEANUP LEVEL	ORB-4	ORB-5	ORB-6	ORB-7	ORB-8
alpha-BHC		38 U	1100 U	910 U	850 U	840 U
beta-BHC		38 U	1100 U	910 U	850 U	840 U
delta-BHC		38 U	1100 U	910 U	850 U	840 U
gamma-BHC (Lindane)	N/A	1.5 JP	1100 U	910 U	60 JP	840 U
Heptachlor		38 U	1100 U	910 U	850 U	840 U
Aldrin	41	38 U	1100 U	910 U	97 JP	840 U
Heptachlor epoxide		38 U	1100 U	910 U	850 U	840 U
Endosulfan I		38 U	1100 U	910 U	850 U	840 U
Dieldrin		76 U	2100 U	1800 U	1700 U	1700 U
4,4'-DDE	2,100	76 U	510 JP	1100 JP	720 JP	650 JP
Endrin		76 U	2100 U	1800 U	1700 U	1700 U
Endosulfan II		76 U	2100 U	1800 U	1700 U	1700 U
4,4'-DDD	2,900	76 U	210 J	1800 U	1700 U	1700 U
Endosulfan Sulfate	N/A	17 JP	2100 U	1800 U	1700 U	1700 U
4,4'-DDT	2,100	76 U	2100 U	300 JP	240 JP	270 JP
Methoxychlor		380 U	11000 U	9100 U	8500 U	8400 U
Endrin ketone	N/A	76 U	2100 U	1800 U	1700 U	420 JP
Endrin aldehyde		76 U	2100 U	1800 U	1700 U	1700 U
alpha-Chlordane		38 U	1100 U	910 U	850 U	840U
gamma-Chlordane		38 U	1100 U	910 U	850 U	840 U
Toxaphene		3800 U	110000 U	91000 U	85000 U	84000 U
Aroclor-1016		760 U	21000 U	18000 U	17000 U	17000 U
Aroclor-1221		1500 U	42000 U	36000 U	34000 U	34000 U
Aroclor-1232		760 U	21000 U	18000 U	17000 U	17000 U
Aroclor-1242		760 U	21000 U	18000 U	17000 U	17000 U
Aroclor-1248		760 U	21000 U	18000 U	17000 U	17000 U
Aroclor-1254	1,000	160 JP	21000 U	18000 U	17000 U	17000 U
Aroclor-1260		760 U	21000 U	18000 U	17000 U	17000 U

NOTES :

J = Estimated concentrations
P = Percent Difference outside control limits
U = Indicates that the compound was analyzed for but not detected.

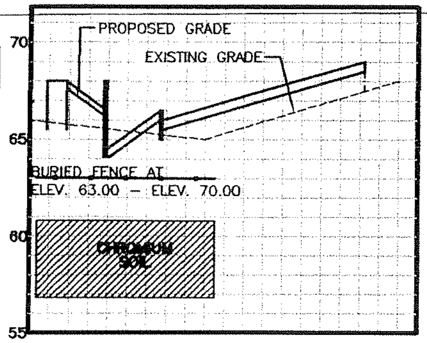
table5.wk1/6-16-94

Appendix C

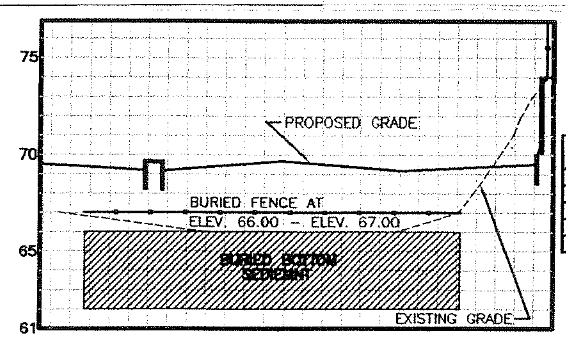


STATION	ELEVATION OF FENCE
14+50	*
15+00	*
15+50	65
16+00	65
16+50	66
17+00	66
17+50	66
18+00	66
18+50	69
19+00	69
19+50	70
20+00	67
20+50	67**
20+87	67**

* – REMOVE CHROMUIUM SOILS FOR SEWER INSTALLATION.
** – REMOVE CHROMUIUM SOILS DOWN TO ELEVATION 67.



TYPICAL SECTION – BURIED BOTTOM SEDIEMNT WASTE AREAS SNOW FENCE DETAIL



TYPICAL SECTION – BURIED BOTTOM SEDIEMNT WASTE AREAS SNOW FENCE DETAIL

STATION	ELEVATION OF FENCE
17+00	67
17+50	66
18+00	65
18+50	67
19+00	67

SOIL BORING LOG

BORING	CROMIUM DEPTH & CONCENTRATION	EXISTING ELEVATION	PROPOSED ELEVATION
BC-1	4-12' > 40 mg/kg	74.65	70.13
BC-6	4-12' > 40 mg/kg	64.77	70.91
BC-14	4-8' > 40 mg/kg	64.80	67.62
BC-16	4-12' > 40 mg/kg	69.66	70.72
BC-17	4-12' > 40 mg/kg	68.82	70.81
BC-18	8-12' > 40 mg/kg	67.42	71.70
BC-19	8-12' > 40 mg/kg	66.90	71.42
BC-20	4-12' > 40 mg/kg	64.32	70.11
BC-24	4-8' > 40 mg/kg	69.95	70.99
BC-25	4-12' > 40 mg/kg	67.59	71.50
BC-26	4-12' > 40 mg/kg	68.07	72.24
BC-27	4-8' > 40 mg/kg	64.86	70.56
BC-28	4-12' > 40 mg/kg	64.71	70.01

NOTE:
BC = BELOW CRITERIA
NA = NOT APPLICABLE
ND = NON DETECTED

SOIL BORING LOG

BORING	PCB DEPTH & CONCENTRATION	CROMIUM DEPTH & CONCENTRATION	EXISTING ELEVATION	PROPOSED ELEVATION
BS-3	0-4' 2.1 mg/kg 4-8' 1.5 mg/kg	BC	67.13	70.62
BS-4	8-12' 8.4 mg/kg	8-12' > 40 mg/kg	66.50	71.10
BS-8	8-12'	BC	67.04	70.11
BS-10	0-4'	BC	65.52	70.03
BS-12	BC	8-12' > 40 mg/kg	65.30	69.96
BS-13	4-8' 5.0 mg/kg 8-12' 4.0 mg/kg	4-8' > 40 mg/kg	67.79	70.10
BS-15	4-8'	BC	69.90	72.12
BS-25	12-16' 590 mg/kg	8-12' > 40 mg/kg	66.15	71.42
BS-27	8-12' 370 mg/kg	8-12' > 40 mg/kg	66.15	71.01

NOTE:
THE BARRIER FENCE SHALL BE PLACED AT ELEVATION 66.00 AT IDENTIFIED WASTE AREAS.
ENVIRONMENTAL DATA INTERPRETATION PREPARED BY MALCOLM PIRNIE, INC.
104 CORPORATE PARK DRIVE
WHITE PLAINS, NY 10602

CAUTION:
NO DIGGING BEYOND THIS POINT W/O NYSDEC AUTHORIZATION

10"
14"

NOTE:
SIGNS TO BE PLACED 25' O.C.

TYPICAL SIGN FOR WASTE AREAS
N.T.S.

THE PLANS AND SPECIFICATIONS SHALL NOT BE ALTERED IN ANY MANNER EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

EAST FARMINGDALE
SUFFOLK COUNTY, NEW YORK

STEW LEONARD'S @ BABYLON

EXHIBIT B
WASTE AREAS

SAVIK & MURRAY, LLP
CONSULTING ENGINEERS

DATE: 10-31-03
SCALE: 1"=100'
PROJECT NO.: 202012.04
CAD FILE: 202012.04PIRN

SHEET NO. 1 OF 1

Old Recharge Basin
East Farmingdale, New York
Bottom Sediment Investigation

Table 1
Soil Analytical Results (mg/kg): Total Chromium

Sample ID	BC-1	BC-1	BC-1	BC-2	BC-2	BC-2	BC-3	BC-3	BC-3	Eastern USA
Sample Depth	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	Background
Sample Date	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	(mg/kg)
PARAMETER - mg/kg										
Chromium as Cr	3.7	80.3	115	6.1	5.4	6.6	4.2	3.3	4.5	1.5 - 40

Sample ID	BC-4	BC-4	BC-4	BC-5	BC-5	BC-5	BC-6	BC-6	BC-6	Eastern USA
Sample Depth	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	Background
Sample Date	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	(mg/kg)
PARAMETER - mg/kg										
Chromium as Cr	4.8	4	13.4	9.5	25.2	5.8	5.7	1180	108	1.5 - 40

Sample ID	BC-7	BC-7	BC-7	BC-8	BC-8	BC-8	BC-9	BC-9	BC-9	Eastern USA
Sample Depth	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	Background
Sample Date	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	(mg/kg)
PARAMETER - mg/kg										
Chromium as Cr	3.2	5.8	4.9	2.6	8	16.4	8.3	6	4.6	1.5 - 40

Sample ID	BC-10	BC-10	BC-10	BC-11	BC-11	BC-11	BC-12	BC-12	BC-12	Eastern USA
Sample Depth	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	Background
Sample Date	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	(mg/kg)
PARAMETER - mg/kg										
Chromium as Cr	8.2	6.6	6.7	14.9	8.2	2	3.7	4.6	4.4	1.5 - 40

Old Recharge Basin
East Farmingdale, New York
Bottom Sediment Investigation

Table 1 (Cont'd)
Soil Analytical Results (mg/kg): Total Chromium

Sample ID	BC-13	BC-13	BC-13	BC-14	BC-14	BC-15	BC-15	BC-15	BC-16	Eastern USA
Sample Depth	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	Background
Sample Date	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	(mg/kg)
PARAMETER - mg/kg										
Chromium as Cr	14.5	13.6	6.2	13.5	46.3	8.2	38.2	13	12.7	1.5 - 40

Sample ID	BC-16	BC-16	BC-17	BC-17	BC-17	BC-18	BC-18	BC-18	BC-19	Eastern USA
Sample Depth	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	Background
Sample Date	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	(mg/kg)
PARAMETER - mg/kg										
Chromium as Cr	209	101	9.7	61	55.7	6.6	5.3	78.8	5.8	1.5 - 40

Sample ID	BC-19	BC-19	BC-20	BC-20	BC-20	BC-21	BC-21	BC-22	BC-22	Eastern USA
Sample Depth	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	0-4 ft	4-8 ft	Background
Sample Date	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	(mg/kg)
PARAMETER - mg/kg										
Chromium as Cr	32.9	87.9	5.8	47.4	72.2	4	16.9	37.8	3.3	1.5 - 40

Sample ID	BC-22	BC-23	BC-23	BC-23	BC-24	BC-24	BC-24	BC-25	BC-25	Eastern USA
Sample Depth	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	Background
Sample Date	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	(mg/kg)
PARAMETER - mg/kg										
Chromium as Cr	2.8	13.5	13.8	1.5	5.7	46	5.7	28.4	119	1.5 - 40

Old Recharge Basin
East Farmingdale, New York
Bottom Sediment Investigation

Table 1 (Cont'd)
Soil Analytical Results (mg/kg): Total Chromium

Sample ID	BC-25	BC-26	BC-26	BC-26	BC-27	BC-27	BC-27	BC-28	BC-28	Eastern USA
Sample Depth	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	Background
Sample Date	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	(mg/kg)
PARAMETER - mg/kg										
Chromium as Cr	1210	5.3	52.7	876	5.5	91.1	14.2	15.2	416	1.5 - 40

Sample ID	BC-28	Eastern USA
Sample Depth	8-12 ft	Background
Sample Date	6/17/2002	(mg/kg)
PARAMETER - mg/kg		
Chromium as Cr	74.6	1.5 - 40

Old Recharge Basin
East Farmingdale, New York
Bottom Sediment Investigation

Table 2
Soil Analytical Results (ug/l): TCLP Chromium

Sample ID	BC-1	BC-6	BC-6	BC-16	BC-16	BC-19	BC-25	BC-25	BC-26	BC-28	USEPA
Sample Depth	8-12 ft	4-8 ft	8-12 ft	4-8 ft	8-12 ft	8-12 ft	4-8 ft	8-12 ft	8-12 ft	4-8 ft	Groundwater
Sample Date	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/17/2002	6/18/2002	6/18/2002	6/18/2002	6/18/2002	Standards (ug/l)
PARAMETER - ug/l											
Chromium as Cr	39.4	386	366	64.5	49.6	20.9	26.1	53.2	38.4	39.4	5000

Old Recharge Basin
East Farmingdale, New York
Bottom Sediment Investigation

Table 3
Soil Analytical Results (ug/kg)
Volatile Organic Compounds: USEPA Method 8260

Sample ID	BS-2	BS-2	BS-2	BS-3	BS-3	BS-3	BS-4	BS-4	BS-5	NYSDEC
Sample Depth	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	8-12 ft	0-4 ft	Soil Cleanup
Sample Date	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	Guidelines (ug/kg)[1]
PARAMETER - ug/kg										
Chloromethane	ND[2]	ND	ND	ND	ND	ND	ND	ND	ND	*[3]
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	1900
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
Acetone	ND	ND	ND	ND	ND	ND	ND	20	ND	200
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	2700
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	300
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	300
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	300
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	800
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	600
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Trichloroethene	ND	ND	1.4	ND	ND	ND	ND	ND	ND	700
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	60
t-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	1000
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1400
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	600
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1500
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1700
Ethyl Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	5500
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
m/p-Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	1200
o-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1200

Notes:

1. TAGM 4046 guidence values are listed where applicable.
2. ND - Not Detected
3. No TAGM soil guidence value for this compound.

Old Recharge Basin
East Farmingdale, New York
Bottom Sediment Investigation

Table 3 (cont'd)
Soil Analytical Results (ug/kg)
Volatile Organic Compounds: USEPA Method 8260

Sample ID	BS-5	BS-5	BS-6	BS-6	BS-6	BS-7	BS-7	BS-7	BS-8	NYSDEC
Sample Depth	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	Soil Cleanup
Sample Date	6/20/2002	6/20/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	Guidelines (ug/kg)[1]
PARAMETER - ug/kg										
Chloromethane	ND[2]	ND	ND	ND	ND	ND	ND	ND	ND	*[3]
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	1900
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	2700
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	300
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	300
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	300
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	800
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	600
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	2	700
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	60
t-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	1000
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1400
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	600
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1500
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1700
Ethyl Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	5500
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
m/p-Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	1200
o-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1200

Notes:

1. TAGM 4046 guidence values are listed where applicable.
2. ND - Not Detected
3. No TAGM soil guidence value for this compound.

Old Recharge Basin
East Farmingdale, New York
Bottom Sediment Investigation

Table 3 (cont'd)
Soil Analytical Results (ug/kg)
Volatile Organic Compounds: USEPA Method 8260

Sample ID	BS-8	BS-8	BS-9	BS-9	BS-9	BS-10	BS-10	BS-10	BS-11	NYSDEC
Sample Depth	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	Soil Cleanup
Sample Date	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	Guidelines (ug/kg)[1]
PARAMETER - ug/kg										
Chloromethane	ND[2]	ND	ND	ND	ND	ND	ND	ND	ND	*[3]
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	1900
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	2700
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	300
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	300
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	300
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	800
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	600
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	1.8	ND	700
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	60
t-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	1000
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1400
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	600
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1500
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1700
Ethyl Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	5500
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
m/p-Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	1200
o-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1200

Notes:

1. TAGM 4046 guidence values are listed where applicable.
2. ND - Not Detected
3. No TAGM soil guidence value for this compound.

Old Recharge Basin
East Farmingdale, New York
Bottom Sediment Investigation

Table 3 (cont'd)
Soil Analytical Results (ug/kg)
Volatile Organic Compounds: USEPA Method 8260

Sample ID	BS-11	BS-11	BS-12	BS-12	BS-12	BS-13	BS-13	BS-14	BS-14	NYSDEC
Sample Depth	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	Soil Cleanup
Sample Date	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/20/2002	6/20/2002	6/19/2002	6/19/2002	Guidelines (ug/kg)[1]
PARAMETER - ug/kg										
Chloromethane	ND[2]	ND	ND	ND	ND	ND	ND	ND	ND	*[3]
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	1900
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
Acetone	ND	ND	ND	ND	ND	23	11	ND	ND	200
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	2700
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	300
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	300
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	300
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	800
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	600
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	700
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	60
t-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	1000
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1400
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	600
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1500
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1700
Ethyl Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	5500
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
m/p-Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	1200
o-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1200

Notes:

1. TAGM 4046 guidence values are listed where applicable.
2. ND - Not Detected
3. No TAGM soil guidence value for this compound.

Old Recharge Basin
East Farmingdale, New York
Bottom Sediment Investigation

Table 3 (cont'd)
Soil Analytical Results (ug/kg)
Volatile Organic Compounds: USEPA Method 8260

Sample ID	BS-14	BS-15	BS-15	BS-15	BS-16	BS-16	BS-16	BS-25	BS-27	NYSDEC
Sample Depth	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	12-16 ft	8-12 ft	Soil Cleanup
Sample Date	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	Guidelines (ug/kg)[1]
PARAMETER - ug/kg										
Chloromethane	ND[2]	ND	ND	ND	ND	ND	ND	ND	ND	*[3]
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	1900
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	2700
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	300
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	300
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	300
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	800
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	600
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	700
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	60
t-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
4-Methyl-2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	1000
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1400
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	600
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1500
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1700
Ethyl Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	5500
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
m/p-Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	1200
o-Xylene	ND	ND	ND	ND	ND	ND	ND	6	ND	1200

Notes:

1. TAGM 4046 guidence values are listed where applicable.
2. ND - Not Detected
3. No TAGM soil guidence value for this compound.

Old Recharge Basin
East Farmingdale, New York
Bottom Sediment Investigation

Table 4
Soil Analytical Results (ug/kg)
Semi-Volatile Organic Compounds: USEPA Method 8270

Sample ID	BS-2	BS-2	BS-2	BS-3	BS-3	BS-3	BS-4	BS-4	BS-5	NYSDEC
Sample Depth	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	8-12 ft	0-4 ft	Soil Cleanup
Sample Date	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	Guidelines (ug/kg)[1]
PARAMETER - ug/kg										
Phenol	ND[2]	ND	ND	ND	ND	ND	ND	ND	ND	30
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
2-Chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	800
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	7900
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1600
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	8500
2-Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
2,2-oxybis(1-Chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
3+4-Methylphenols	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
n-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	ND	4400
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	330
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	3400
Naphthalene	ND	ND	65	1300	ND	70	290	ND	ND	13000
4-Chloroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	220
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	240
2-Methylnaphthalene	ND	ND	ND	280	ND	ND	140	ND	ND	36400
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
2,4,5-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
2-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	430
Dimethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	2000
Acenaphthylene	ND	ND	ND	1600	ND	ND	300	ND	ND	41000
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1000
3-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	500
Acenaphthene	ND	46	110	620	69	160	1000	100	ND	50000
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
Dibenzofuran	ND	ND	54	1000	ND	88	470	41	ND	6200
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Diethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	7100
4-Chlorophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Fluorene	ND	ND	100	1700	70	160	830	80	ND	50000
4-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
4-Bromophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	410
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	1000
Phenanthrene	1800	420	990	11000	940	1700	5000	700	240	50000
Anthracene	ND	100	240	2200	210	370	1400	160	61	50000
Carbazole	ND	61	120	1400	100	190	780	120	ND	*
Di-n-butylphthalate	130000	ND	ND	ND	ND	ND	ND	ND	68	8100
Fluoranthene	3000	620	1600	13000	1900	2600	4100	1200	440	50000
Pyrene	7400	1000	4600	18000	3000	4800	4500	1000	900	50000
Butylbenzylphthalate	ND	ND	ND	57	ND	510	ND	ND	ND	50000
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Benzo(a)anthracene	1800	400	790	7100	1000	1200	1700	510	280	224
Chrysene	1000	200	490	6800	680	900	1600	410	130	400
Bis(2-ethylhexyl)phthalate	390	49	72	92	77	36	66	480	48	50000
Di-n-octyl phthalate	ND	ND	ND	96	110	ND	ND	ND	ND	50000
Benzo(b)fluoranthene	ND	730	2000	96000	4300	3600	4900	710	320	1100
Benzo(k)fluoranthene	ND	290	650	18000	1800	1400	2600	260	88	1100
Benzo(a)pyrene	ND	370	700	51000	930	1400	2600	360	150	61
Indeno(1,2,3-cd)pyrene	ND	ND	ND	98	ND	ND	ND	ND	ND	3200
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	14
Benzo(g,h,i)perylene	ND	ND	ND	1700	ND	ND	ND	ND	ND	50000

Notes:
1. TAGM 4046 guidence values are listed where applicable.
2. ND - Not Detected
3. No TAGM soil guidence value for this compound.

Old Recharge Basin
East Farmingdale, New York
Bottom Sediment Investigation

Table 4 (cont'd)
Soil Analytical Results (ug/kg)
Semi-Volatile Organic Compounds: USEPA Method 8270

Sample ID	BS-5	BS-5	BS-6	BS-6	BS-6	BS-7	BS-7	BS-7	BS-8	NYSDEC
Sample Depth	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	Soil Cleanup
Sample Date	6/20/2002	6/20/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	Guidelines (ug/kg)[1]
PARAMETER - ug/kg										
Phenol	ND[2]	ND	ND	ND	ND	ND	ND	ND	ND	30
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
2-Chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	800
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	7900
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1600
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	8500
2-Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
2,2-oxybis(1-Chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
3+4-Methylphenols	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
n-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	ND	4400
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	330
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	3400
Naphthalene	ND	49	ND	ND	ND	150	2100	ND	ND	13000
4-Chloroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	220
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	240
2-Methylnaphthalene	ND	53	ND	ND	ND	85	430	ND	ND	36400
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
2,4,5-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
2-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	430
Dimethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	2000
Acenaphthylene	ND	ND	ND	ND	ND	ND	210	ND	ND	41000
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1000
3-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	500
Acenaphthene	80	160	ND	97	ND	1000	3200	ND	ND	50000
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
Dibenzofuran	34	86	ND	ND	ND	460	1800	ND	ND	6200
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Diethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	7100
4-Chlorophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Fluorene	97	200	ND	83	ND	1100	3400	ND	ND	50000
4-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
4-Bromophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	410
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	1000
Phenanthrene	740	1400	370	840	320	8500	26000	110	740	50000
Anthracene	180	370	74	200	96	2500	7200	ND	ND	50000
Carbazole	73	120	39	100	ND	710	3300	ND	ND	*
Di-n-butylphthalate	ND	120	ND	ND	ND	ND	ND	ND	ND	8100
Fluoranthene	1300	1600	340	1200	500	12000	38000	130	1100	50000
Pyrene	1900	2600	500	3900	1000	9900	34000	300	1700	50000
Butylbenzylphthalate	ND	ND	ND	ND	260	ND	ND	ND	ND	50000
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Benzo(a)anthracene	710	790	210	660	290	6600	19000	64	580	224
Chrysene	520	460	120	390	220	5000	17000	ND	ND	400
Bis(2-ethylhexyl)phthalate	51	310	74	40	86	200	20000	ND	ND	50000
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	50000
Benzo(b)fluoranthene	990	1600	430	1700	340	44000	160000	ND	ND	1100
Benzo(k)fluoranthene	320	320	230	1000	200	26000	44000	ND	ND	1100	1100
Benzo(a)pyrene	580	640	120	690	190	24000	81000	ND	ND	61
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	69	ND	ND	ND	3200
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	360	850	ND	ND	14
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	280	1100	ND	ND	50000

Notes:
1. TAGM 4046 guidence values are listed where applicable.
2. ND - Not Detected
3. No TAGM soil guidence value for this compound.

Old Recharge Basin
East Farmingdale, New York
Bottom Sediment Investigation

Table 4 (cont'd)
Soil Analytical Results (ug/kg)
Semi-Volatile Organic Compounds: USEPA Method 8270

Sample ID	BS-8	BS-8	BS-9	BS-9	BS-9	BS-10	BS-10	BS-10	BS-11	NYSDEC
Sample Depth	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	Soil Cleanup
Sample Date	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	Guidelines (ug/kg)[1]
PARAMETER - ug/kg										
Phenol	ND[2]	ND	ND	ND	ND	ND	ND	ND	ND	30
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
2-Chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	800
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	7900
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1600
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	8500
2-Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
2,2-oxybis(1-Chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
3+4-Methylphenols	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
n-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	ND	4400
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	330
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	3400
Naphthalene	420	ND	ND	ND	ND	ND	340	ND	ND	13000
4-Chloroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	220
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	240
2-Methylnaphthalene	120	ND	ND	ND	ND	ND	ND	ND	ND	36400
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
2,4,5-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
2-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	430
Dimethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	2000
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	41000
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1000
3-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	500
Acenaphthene	620	ND	ND	ND	ND	110	1300	59	ND	50000
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
Dibenzofuran	340	ND	ND	ND	ND	ND	530	ND	ND	6200
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Diethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	7100
4-Chlorophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Fluorene	650	ND	ND	ND	ND	81	1200	52	ND	50000
4-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
4-Bromophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	410
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	1000
Phenanthrene	4500	ND	340	100	280	920	13000	560	57	50000
Anthracene	1100	ND	74	ND	54	190	3200	110	ND	50000
Carbazole	730	ND	52	ND	ND	130	2000	51	ND	*
Di-n-butylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	8100
Fluoranthene	6300	720	720	170	420	1700	24000	560	68	50000
Pyrene	6200	1300	2000	520	1100	3500	28000	770	190	50000
Butylbenzylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	50000
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Benzo(a)anthracene	3100	390	450	150	210	780	12000	390	47	224
Chrysene	2700	410	360	ND	100	440	12000	410	ND	400
Bis(2-ethylhexyl)phthalate	41	ND	ND	140	84	ND	ND	130	ND	50000
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	50000
Benzo(b)fluoranthene	19000	200	940	520	150	1500	84000	1300	790	1100
Benzo(k)fluoranthene	7600	300	230	700	ND	640	19000	450	670	1100
Benzo(a)pyrene	8500	110	300	ND	51	560	33000	340	ND	61
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	3200
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	14
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	50000

Notes:
1. TAGM 4046 guidence values are listed where applicable.
2. ND - Not Detected
3. No TAGM soil guidence value for this compound.

Old Recharge Basin
East Farmingdale, New York
Bottom Sediment Investigation

Table 4 (cont'd)
Soil Analytical Results (ug/kg)
Semi-Volatile Organic Compounds: USEPA Method 8270

Sample ID	BS-11	BS-11	BS-12	BS-12	BS-12	BS-13	BS-13	BS-14	BS-14	NYSDEC
Sample Depth	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	Soil Cleanup
Sample Date	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/20/2002	6/20/2002	6/19/2002	6/19/2002	Guidelines (ug/kg)[1]
PARAMETER - ug/kg										
Phenol	ND[2]	ND	ND	ND	ND	ND	ND	ND	ND	30
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
2-Chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	800
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	7900
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1600
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	8500
2-Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
2,2-oxybis(1-Chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
3+4-Methylphenols	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
n-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	ND	4400
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	330
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	3400
Naphthalene	90	250	ND	ND	ND	ND	ND	ND	5700	13000
4-Chloroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	220
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	240
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	1900	36400
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
2,4,5-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
2-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	430
Dimethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	2000
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	41000
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1000
3-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	500
Acenaphthene	230	420	93	ND	99	ND	ND	ND	9500	50000
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
Dibenzofuran	110	210	ND	ND	ND	ND	ND	ND	5300	6200
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Diethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	7100
4-Chlorophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Fluorene	200	460	80	ND	100	ND	ND	ND	9800	50000
4-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
4-Bromophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	410
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	1000
Phenanthrene	2000	4700	940	ND	1100	110	ND	2800	57000	50000
Anthracene	390	1100	210	ND	250	ND	ND	420	20000	50000
Carbazole	220	440	130	ND	110	ND	ND	180	9900	*
Di-n-butylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	8100
Fluoranthene	2400	6800	2200	ND	1700	210	35	6700	78000	50000
Pyrene	6400	10000	4000	68	3900	270	67	5300	55000	50000
Butylbenzylphthalate	ND	120	ND	ND	ND	ND	ND	ND	ND	50000
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Benzo(a)anthracene	1200	3200	1000	ND	710	93	ND	2400	36000	224
Chrysene	610	2500	620	ND	490	80	ND	2400	31000	400
Bis(2-ethylhexyl)phthalate	160	560	ND	ND	ND	220	ND	ND	ND	50000
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	50000
Benzo(b)fluoranthene	5400	17000	3100	300	760	130	ND	2400	120000	1100
Benzo(k)fluoranthene	1100	8400	1000	340	1400	ND	ND	3000	100000	1100
Benzo(a)pyrene	ND	5000	800	ND	ND	60	ND	2700	97000	61
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	930	3200
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	1600	14
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	2100	50000

Notes:
1. TAGM 4046 guidence values are listed where applicable.
2. ND - Not Detected
3. No TAGM soil guidence value for this compound.

Old Recharge Basin
East Farmingdale, New York
Bottom Sediment Investigation

Table 4 (cont'd)
Soil Analytical Results (ug/kg)
Semi-Volatile Organic Compounds: USEPA Method 8270

Sample ID	BS-14	BS-15	BS-15	BS-15	BS-16	BS-16	BS-16	BS-25	BS-27	NYSDEC
Sample Depth	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	12-16 ft	8-12 ft	Soil Cleanup
Sample Date	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	Guidelines (ug/kg)[1]
PARAMETER - ug/kg										
Phenol	ND[2]	ND	ND	ND	ND	ND	ND	ND	ND	30
bis(2-Chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
2-Chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	800
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	7900
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1600
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	8500
2-Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
2,2-oxybis(1-Chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
3+4-Methylphenols	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
n-Nitroso-di-n-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	ND	4400
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	330
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
bis(2-Chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	3400
Naphthalene	ND	ND	ND	ND	ND	520	ND	ND	ND	13000
4-Chloroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	220
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	240
2-Methylnaphthalene	ND	ND	ND	550	ND	ND	ND	ND	ND	36400
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
2,4,5-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
2-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	430
Dimethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	2000
Acenaphthylene	ND	ND	1500	ND	ND	ND	ND	ND	ND	41000
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1000
3-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	500
Acenaphthene	62	ND	ND	1000	420	2900	280	ND	ND	50000
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
Dibenzofuran	ND	ND	ND	300	ND	940	ND	ND	ND	6200
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Diethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	7100
4-Chlorophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Fluorene	59	ND	ND	1500	370	2100	340	ND	ND	50000
4-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
n-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
4-Bromophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	410
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	1000
Phenanthrene	530	1600	1300	8400	4100	60000	6100	1300	710	50000
Anthracene	100	370	370	2100	890	6200	910	ND	690	50000
Carbazole	57	ND	ND	200	450	2300	460	ND	410	*
Di-n-butylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	8100
Fluoranthene	720	3000	3500	5400	7200	69000	8900	3000	5500	50000
Pyrene	1600	3800	7600	14000	9300	67000	8400	2600	6100	50000
Butylbenzylphthalate	710	ND	ND	ND	ND	ND	ND	ND	ND	50000
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Benzo(a)anthracene	290	1500	2900	2400	3200	13000	3200	1100	2100	224
Chrysene	150	960	2300	1500	2000	12000	3100	1600	2100	400
Bis(2-ethylhexyl)phthalate	36	ND	ND	190	ND	ND	ND	8300	3100	50000
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	50000
Benzo(b)fluoranthene	1300	1600	6300	3500	6000	8000	2800	2300	5900	1100
Benzo(k)fluoranthene	200	ND	8000	ND	2200	14000	3400	1300	3700	1100
Benzo(a)pyrene	ND	860	5200	1500	3000	8900	2600	700	1300	61
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	900	ND	ND	ND	3200
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	14
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	6700	ND	ND	ND	50000

Notes:
1. TAGM 4046 guidence values are listed where applicable.
2. ND - Not Detected
3. No TAGM soil guidence value for this compound.

Old Recharge Basin
East Farmingdale, New York
Bottom Sediment Investigation

Table 5
Soil Analytical Results (ug/kg)
PCBs: USEPA Method 8082

Sample ID	BS-2	BS-2	BS-2	BS-3	BS-3	BS-3	BS-4	BS-4	BS-5	NYSDEC
Sample Depth	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	8-12 ft	0-4 ft	Soil Cleanup
Sample Date	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	Guidelines (ug/kg)[1]
PARAMETER - ug/kg										
Aroclor-1016	ND[2]	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1221	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1232	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1248	ND	ND	ND	ND	780	ND	ND	5900	ND	10,000
Aroclor-1254	ND	ND	ND	ND	530	ND	ND	2500	120	10,000
Aroclor-1260	300	ND	65	2100	270	50	23	ND	33	10,000

Sample ID	BS-5	BS-5	BS-6	BS-6	BS-6	BS-7	BS-7	BS-7	BS-8	NYSDEC
Sample Depth	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	Soil Cleanup
Sample Date	6/20/2002	6/20/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	Guidelines (ug/kg)[1]
PARAMETER - ug/kg										
Aroclor-1016	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1221	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1232	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1242	ND	ND	ND	ND	ND	ND	1600	ND	ND	10,000
Aroclor-1248	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1254	ND	120	ND	ND	ND	820	ND	ND	ND	10,000
Aroclor-1260	15	ND	ND	ND	180	ND	ND	ND	ND	10,000

Notes:
1. TAGM 4046 guidence values
2. ND - Not Detected

Old Recharge Basin
East Farmingdale, New York
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Table 5 (cont'd)
Soil Analytical Results (ug/kg)
PCBs: USEPA Method 8082

Sample ID	BS-8	BS-8	BS-9	BS-9	BS-9	BS-10	BS-10	BS-10	BS-11	NYSDEC
Sample Depth	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	Soil Cleanup
Sample Date	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	Guidelines (ug/kg)[1]
PARAMETER - ug/kg										
Aroclor-1016	ND[2]	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1221	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1232	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1248	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1254	74	ND	ND	ND	ND	ND	660	ND	110	10,000
Aroclor-1260	ND	ND	ND	38	40	140	310	120	ND	10,000

Sample ID	BS-11	BS-11	BS-12	BS-12	BS-12	BS-13	BS-13	BS-14	BS-14	NYSDEC
Sample Depth	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	Soil Cleanup
Sample Date	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/20/2002	6/20/2002	6/19/2002	6/19/2002	Guidelines (ug/kg)[1]
PARAMETER - ug/kg										
Aroclor-1016	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1221	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1232	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1248	ND	ND	ND	ND	ND	3400	2600	ND	ND	10,000
Aroclor-1254	120	ND	ND	ND	380	1600	1400	ND	ND	10,000
Aroclor-1260	110	ND	ND	260	150	ND	ND	450	58	10,000

Notes:
1. TAGM 4046 guidence values
2. ND - Not Detected

Old Recharge Basin
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Table 5 (cont'd)
Soil Analytical Results (ug/kg)
PCBs: USEPA Method 8082

Sample ID	BS-14	BS-15	BS-15	BS-15	BS-16	BS-16	BS-16	BS-18	BS-18	NYSDEC
Sample Depth	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	Soil Cleanup
Sample Date	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/18/2002	6/18/2002	Guidelines (ug/kg)[1]
PARAMETER - ug/kg										
Aroclor-1016	ND[2]	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1221	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1232	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1248	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1254	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1260	57	220	ND	340	490	92	120	ND	46	10,000

Sample ID	BS-19	BS-19	BS-19	BS-20	BS-20	BS-20	BS-21	BS-21	BS-21	NYSDEC
Sample Depth	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	Soil Cleanup
Sample Date	6/18/2002	6/18/2002	6/18/2002	6/18/2002	6/18/2002	6/18/2002	6/18/2002	6/18/2002	6/18/2002	Guidelines (ug/kg)[1]
PARAMETER - ug/kg										
Aroclor-1016	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1221	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1232	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1248	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1254	130	ND	ND	ND	280	1400	680	ND	3200	10,000
Aroclor-1260	ND	150	68	ND	ND	ND	ND	47	ND	10,000

Notes:
1. TAGM 4046 guidence values
2. ND - Not Detected

Old Recharge Basin
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Bottom Sediment Investigation

Table 5 (cont'd)
Soil Analytical Results (ug/kg)
PCBs: USEPA Method 8082

Sample ID	BS-22	BS-22	BS-22	BS-23	BS-23	BS-23	BS-24	BS-24	BS-24	NYSDEC
Sample Depth	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	Soil Cleanup
Sample Date	6/18/2002	6/18/2002	6/18/2002	6/18/2002	6/18/2002	6/18/2002	6/18/2002	6/18/2002	6/18/2002	Guidelines (ug/kg)[1]
PARAMETER - ug/kg										
Aroclor-1016	ND[2]	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1221	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1232	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Aroclor-1248	ND	ND	ND	ND	80	ND	ND	ND	ND	10,000
Aroclor-1254	ND	ND	ND	ND	ND	170	ND	160	ND	10,000
Aroclor-1260	37	22	ND	130	ND	ND	72	ND	80	10,000

Sample ID	BS-25	BS-27	BS-28	BS-29	NYSDEC
Sample Depth	12-16 ft	8-12 ft	8-12 ft	8-12 ft	Soil Cleanup
Sample Date	6/19/2002	6/19/2002	6/20/2002	6/20/2002	Guidelines (ug/kg)[1]
PARAMETER - ug/kg					
Aroclor-1016	ND	ND	ND	ND	10,000
Aroclor-1221	ND	ND	ND	ND	10,000
Aroclor-1232	ND	ND	ND	ND	10,000
Aroclor-1242	ND	ND	ND	ND	10,000
Aroclor-1248	37000	260000	ND	ND	10,000
Aroclor-1254	22000	110000	ND	ND	10,000
Aroclor-1260	ND	ND	ND	18	10,000

Notes:
1. TAGM 4046 guidence values
2. ND - Not Detected

Old Recharge Basin
East Farmingdale, New York
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Table 6
Soil Analytical Results (mg/kg)
Target Analyte List Metals: USEPA Method 6010

Sample ID	BS-2	BS-2	BS-2	BS-3	BS-3	BS-3	BS-4	BS-4	BS-5	Eastern USA
Sample Depth	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	8-12 ft	0-4 ft	Background
Sample Date	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	(mg/kg)
PARAMETER - mg/kg										
Aluminum	4970	6230	6440	8540	3650	4620	5360	8950	4810	33000
Antimony	ND[1]	ND	ND	ND	ND	0.57	ND	ND	ND	*[2]
Arsenic	3.8	4.1	3.7	6	2.4	3.4	3.7	5.6	6	3 - 12 **[3]
Barium	31.5	27.7	29.4	41.2	31.3	24.2	20.7	47.9	18.4	15 - 600
Beryllium	0.2	0.28	0.26	0.32	0.17	0.24	0.24	0.5	0.2	0 - 1.75
Cadmium	0.06	ND	0.1	ND	ND	ND	ND	8.5	ND	0.1 - 1
Calcium	10400	16000	11300	5240	4400	17800	9550	20100	4130	130 - 35000 **
Chromium	12.9	10.9	14.1	17.5	11.5	11.4	7.9	1530	9.5	1.5 - 40
Cobalt	2.7	3.6	3.6	4.1	2.1	2.8	2.7	4.7	2.5	2.5 - 60
Copper	8.7	9.6	10.5	20.3	7.2	13	7.8	106	6.3	1 - 50
Iron	7110	10200	9480	11900	5990	7540	8060	11700	8240	2000 - 550000
Lead	25.2	26.9	25.1	38.4	22.1	13.9	10.4	55.2	17	***[4]
Magnesium	1370	1350	1820	1560	789	1190	1070	1700	844	100 - 5000
Manganese	90.2	273	135	116	93.9	125	94.4	182	74	50 - 5000
Mercury	0.02	0.01	0.12	0.13	ND	0.06	0.07	0.16	0.02	0.0001 - 0.2
Nickel	5.3	4.9	5.3	6.9	3.4	4.4	4.7	9.8	3.5	0.5 - 25
Potassium	302	445	433	349	256	281	231	402	217	8500 - 43000
Selenium	ND	0.54	ND	0.57	ND	ND	ND	ND	ND	0.1 - 3.9
Silver	ND	ND	0.21	0.4	0.14	0.22	0.12	10.4	ND	*
Sodium	60.5	128	117	72.3	88.4	72.8	ND	126	ND	6000 - 8000
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Vanadium	11.6	13.2	16.1	19.4	9.2	10.8	11.5	24.5	10.1	1 - 300
Zinc	41.2	29.8	36.5	60.3	24.2	22	20.3	317	30.3	9 -50

Notes:

1. ND - Not Detected
2. No TAGM soil guidence value for this compound.
3. New York State background
4. Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4 - 61 ppm. Average levels in metropolitan or surburban areas or near highways are much higher and typically range from 200 - 500 ppm.

Old Recharge Basin
East Farmingdale, New York
Bottom Sediment Investigation

Table 6 (cont'd)
Soil Analytical Results (mg/kg)
Target Analyte List Metals: USEPA Method 6010

Sample ID	BS-5	BS-5	BS-6	BS-6	BS-6	BS-7	BS-7	BS-7	BS-8	Eastern USA
Sample Depth	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	Background
Sample Date	6/20/2002	6/20/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	(mg/kg)
PARAMETER - mg/kg										
Aluminum	2560	2810	4600	5070	7340	17200	5280	4000	4410	33000
Antimony	ND[1]	ND	ND	ND	0.95	ND	1.2	ND	8	*[2]
Arsenic	2	2.2	3.2	4	4.8	5.3	7.7	2.4	4.7	3 - 12 **[3]
Barium	13.5	14.6	23.2	16.6	25.4	31.7	178	12.4	18	15 - 600
Beryllium	0.16	0.16	0.23	0.19	0.29	0.5	0.23	0.19	0.2	0 - 1.75
Cadmium	ND	ND	ND	ND	0.23	ND	3.9	ND	0.29	0.1 - 1
Calcium	2160	3680	14600	2460	1920	2170	21900	1450	1670	130 - 35000 **
Chromium	6	15	8.1	7.2	15.7	18.8	14.6	6.2	14.5	1.5 - 40
Cobalt	2	2	2.9	2.4	3.6	6.1	4	2.4	2.6	2.5 - 60
Copper	4.5	6.4	6	7.1	9.8	8.1	26.4	5.6	16.7	1 - 50
Iron	6230	7040	7740	6770	9810	19300	9130	7610	7620	2000 - 550000
Lead	11.6	9.9	18.5	8.2	21.5	10.4	48.7	7	283	***[4]
Magnesium	480	635	987	776	1260	1900	2180	652	623	100 - 5000
Manganese	93.4	85	146	71.5	83.6	134	133	117	100	50 - 5000
Mercury	ND	ND	0.02	ND	0.1	0.04	0.21	0.03	0.05	0.0001 - 0.2
Nickel	2.3	3.5	3.5	2.6	6.3	12.1	9.6	2.4	3.6	0.5 - 25
Potassium	164	227	373	250	454	659	502	235	233	8500 - 43000
Selenium	ND	ND	ND	ND	0.52	ND	ND	ND	ND	0.1 - 3.9
Silver	ND	ND	ND	0.14	0.15	0.15	0.22	ND	0.15	*
Sodium	39.8	83.6	121	84	97.8	106	164	109	115	6000 - 8000
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Vanadium	6.3	6.9	10.4	10.6	18.1	29	29.2	8.4	15.5	1 - 300
Zinc	17.5	21.3	22.5	17.8	29.8	23.9	154	13.5	28.6	9 -50

Notes:

1. ND - Not Detected
2. No TAGM soil guidence value for this compound.
3. New York State background
4. Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4 - 61 ppm. Average levels in metropolitan or surburban areas or near highways are much higher and typically range from 200 - 500 ppm.

Old Recharge Basin
East Farmingdale, New York
Bottom Sediment Investigation

Table 6 (cont'd)
Soil Analytical Results (mg/kg)
Target Analyte List Metals: USEPA Method 6010

Sample ID	BS-8	BS-8	BS-9	BS-9	BS-9	BS-10	BS-10	BS-10	BS-11	Eastern USA
Sample Depth	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	Background
Sample Date	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	(mg/kg)
PARAMETER - mg/kg										
Aluminum	6320	10400	3360	2540	2790	6570	5480	4850	2460	33000
Antimony	ND[1]	ND	0.67	ND	ND	0.73	1.1	0.86	ND	*[2]
Arsenic	3.1	5.6	1.9	1.9	1.9	3.6	3	4.2	1.5	3 - 12 **[3]
Barium	35.5	37.5	23.3	11.9	9.9	28.5	144	19.4	10.9	15 - 600
Beryllium	0.26	0.37	0.17	0.14	0.15	0.26	0.25	0.2	0.14	0 - 1.75
Cadmium	0.7	0.44	0.46	ND	ND	ND	0.49	ND	ND	0.1 - 1
Calcium	1650	3380	17200	4660	2430	11600	24100	15100	1030	130 - 35000 **
Chromium	11.1	13.8	11.4	5.6	4.9	10.4	31.4	9.6	4.9	1.5 - 40
Cobalt	3.6	5	1.9	1.6	2.1	3.1	2.9	3.1	1.8	2.5 - 60
Copper	11.9	15.4	5.2	3.8	6.5	8.5	12	7.5	3.6	1 - 50
Iron	9730	13500	5300	4110	10600	8360	7650	6890	4930	2000 - 550000
Lead	12.3	27.7	8.4	5.7	4.4	17.9	122	13.4	3.3	***[4]
Magnesium	892	2000	1360	564	647	1360	3390	2310	556	100 - 5000
Manganese	108	166	86.6	79.7	106	118	153	88.6	93.1	50 - 5000
Mercury	0.05	0.23	0.01	0.03	0.01	0.23	0.07	0.05	0.05	0.0001 - 0.2
Nickel	12.9	7	4.2	2	3.3	4.3	4.4	4.5	1.5	0.5 - 25
Potassium	262	460	405	201	301	403	497	433	186	8500 - 43000
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1 - 3.9
Silver	ND	ND	ND	ND	0.28	0.12	0.23	ND	ND	*
Sodium	94.1	91.5	149	110	78.8	114	146	137	99.1	6000 - 8000
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Vanadium	12.5	21.1	6.9	6.1	7.1	13.8	13.4	10.3	5.6	1 - 300
Zinc	19.7	32	16.3	9.1	10.9	27.5	180	24	9.2	9 -50

Notes:

1. ND - Not Detected
2. No TAGM soil guidence value for this compound.
3. New York State background
4. Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4 - 61 ppm. Average levels in metropolitan or surburban areas or near highways are much higher and typically range from 200 - 500 ppm.

Old Recharge Basin
East Farmingdale, New York
Bottom Sediment Investigation

Table 6 (cont'd)
Soil Analytical Results (mg/kg)
Target Analyte List Metals: USEPA Method 6010

Sample ID	BS-11	BS-11	BS-12	BS-12	BS-12	BS-13	BS-13	BS-14	BS-14	Eastern USA
Sample Depth	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	Background
Sample Date	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/20/2002	6/20/2002	6/19/2002	6/19/2002	(mg/kg)
PARAMETER - mg/kg										
Aluminum	5650	3110	2770	5620	2980	3740	1780	6260	2720	33000
Antimony	ND[1]	ND	ND	ND	ND	ND	ND	ND	ND	*[2]
Arsenic	4.4	1.8	1.4	2.6	1.7	2	2.4	5	2.3	3 - 12 **[3]
Barium	67.9	26.7	24.8	19.3	21.3	18.1	7.2	59.4	28.2	15 - 600
Beryllium	0.26	0.16	0.18	0.21	0.14	0.27	0.2	0.24	0.15	0 - 1.75
Cadmium	0.08	0.1	ND	ND	0.1	4.4	ND	ND	ND	0.1 - 1
Calcium	20200	15700	9460	3080	5360	3630	1260	6280	17300	130 - 35000 **
Chromium	11.3	9.6	4.6	7.5	52.7	493	19.9	10.3	6.1	1.5 - 40
Cobalt	3.5	2.1	1.8	5.7	1.8	2.3	1.7	3.3	1.7	2.5 - 60
Copper	13.7	6	6.6	5.7	9	32.6	4.8	12.4	8.8	1 - 50
Iron	8560	4980	4140	7590	5060	6160	6970	8640	4080	2000 - 550000
Lead	32.3	9.7	20.7	7.7	23	24.8	7.4	26.5	24.6	***[4]
Magnesium	1540	1200	1000	2240	1220	701	360	3170	2350	100 - 5000
Manganese	122	90.2	127	201	76.1	139	92.1	134	87.4	50 - 5000
Mercury	0.16	0.09	0.07	0.02	0.05	0.11	0.03	0.06	0.07	0.0001 - 0.2
Nickel	4.4	2.2	1.8	3.3	3.5	4.4	2	5.1	2.2	0.5 - 25
Potassium	543	221	215	290	234	169	108	320	294	8500 - 43000
Selenium	0.41	ND	ND	ND	ND	ND	ND	0.61	ND	0.1 - 3.9
Silver	0.66	ND	ND	ND	0.6	8.6	0.34	ND	ND	*
Sodium	207	155	142	101	102	57.8	103	115	226	6000 - 8000
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	*
Vanadium	13.5	6.4	6	11.3	7	10.5	5.4	14.7	6.2	1 - 300
Zinc	67.2	20.1	32.1	16.2	27.9	114	14.2	41.9	47.2	9 -50

Notes:

1. ND - Not Detected
2. No TAGM soil guidence value for this compound.
3. New York State background
4. Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4 - 61 ppm. Average levels in metropolitan or surburban areas or near highways are much higher and typically range from 200 - 500 ppm.

Old Recharge Basin
East Farmingdale, New York
Bottom Sediment Investigation

Table 6 (cont'd)
Soil Analytical Results (mg/kg)
Target Analyte List Metals: USEPA Method 6010

Sample ID	BS-14	BS-15	BS-15	BS-15	BS-16	BS-16	BS-16	BS-25	BS-27	Eastern USA
Sample Depth	8-12 ft	0-4 ft	4-8 ft	8-12 ft	0-4 ft	4-8 ft	8-12 ft	12-16 ft	8-12 ft	Background
Sample Date	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	6/19/2002	(mg/kg)
PARAMETER - mg/kg										
Aluminum	3220	5540	5350	4510	6680	3750	5600	16300	26000	33000
Antimony	ND[1]	0.88	ND	ND	ND	ND	ND	ND	ND	*[2]
Arsenic	2.4	3.6	7	3.7	5.3	2.3	4.1	ND	7.3	3 - 12 **[3]
Barium	15.5	27.5	30.6	24.6	35	13.8	34.4	161	189	15 - 600
Beryllium	0.2	0.21	0.23	0.2	0.26	0.16	0.22	1.5	3.2	0 - 1.75
Cadmium	ND	0.09	ND	ND	ND	ND	0.13	77.6	74.9	0.1 - 1
Calcium	7830	3100	15500	27700	15700	3080	16400	17700	20100	130 - 35000 **
Chromium	8.9	12.9	7.3	12	12.6	8	13	20200	12600	1.5 - 40
Cobalt	2	2.6	2.3	2.5	3.1	2.1	2.9	27.1	21.5	2.5 - 60
Copper	5.5	13.5	13	9.9	13.4	5.9	16.2	539	1070	1 - 50
Iron	6900	7200	7460	7330	9090	5520	8000	106000	54800	2000 - 550000
Lead	10.6	24.4	51.3	27.5	65.2	12.4	44	354	429	***[4]
Magnesium	1230	1200	6170	14200	1570	831	1820	4780	6770	100 - 5000
Manganese	97	53.8	89.7	114	116	77.4	110	1200	1190	50 - 5000
Mercury	0.1	0.03	0.22	0.08	0.07	0.14	0.22	0.1	0.1	0.0001 - 0.2
Nickel	2.4	4.2	3.3	4	4.8	2.3	4.2	46.4	61.1	0.5 - 25
Potassium	291	242	226	374	313	189	322	305	502	8500 - 43000
Selenium	ND	ND	ND	0.38	0.47	ND	ND	0.71	ND	0.1 - 3.9
Silver	ND	0.17	ND	0.29	0.14	0.17	ND	201	150	*
Sodium	150	133	137	131	113	80.1	147	558	851	6000 - 8000
Thallium	ND	ND	ND	ND	ND	ND	ND	2	ND	*
Vanadium	8.5	12.9	12.3	11.3	16.7	9.2	13.4	85.4	108	1 - 300
Zinc	21.1	41.6	25.4	28.3	36.1	18.1	54.2	2670	3890	9 -50

Notes:

1. ND - Not Detected
2. No TAGM soil guidence value for this compound.
3. New York State background
4. Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4 - 61 ppm. Average levels in metropolitan or surburban areas or near highways are much higher and typically range from 200 - 500 ppm.

Old Recharge Basin
East Farmingdale, New York
Bottom Sediment Investigation

Table 7
Air Analytical Results (ug/m^3)
Volatile Organic Compounds: USEPA Method TO + 14

Sample ID	SG-1	SG-2	SG-3	SG-4	SG-5	SG-6	SG-7
Sample Depth	6 ft	6 ft	6 ft	6 ft	6 ft	6 ft	6 ft
Sample Date	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002
PARAMETER - mg/m^3							
Chloromethane	U	U	U	U	U	U	U
Bromomethane	U	U	U	U	U	U	U
Vinyl Chloride	U	U	U	U	U	U	U
Chloroethane	U	U	U	U	U	U	U
Methylene Chloride	U	U	U	U	U	U	U
1,1-Dichloroethene	U	U	U	U	U	U	U
1,1-Dichloroethane	U	0.179	U	U	U	U	U
trans-1,2-Dichloroethene	U	U	U	U	U	U	U
cis-1,2-Dichloroethene	U	0.044	U	0.013	U	U	U
Chloroform	U	U	U	U	U	U	U
1,2-Dichloroethane	U	U	U	U	U	U	U
1,1,1-Trichloroethane	U	0.021	U	U	U	U	U
Carbon Tetrachloride	U	U	U	U	U	U	U
Bromodichloromethane	U	U	U	U	U	U	U
1,2-Dichloropropane	U	U	U	U	U	U	U
Trichloroethene	0.223	0.239	0.058	0.009	0.075	U	0.027
Trichloroflouromethane	U	0.543	0.466	U	0.057	0.006	U
Benzene	U	0.006	0.005	U	U	0.007	U
cis-1,3-Dichloropropene	U	U	U	U	U	U	U
Dibromochloromethane	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	U	U	U	U	U	U	U
1,1,2-Trichloroethane	U	0.041	U	U	U	U	U
Tetrachloroethene	16.869	0.024	0.107	0.008	0.025	0.003	0.264
Toluene	U	U	0.007	U	U	U	U
Chlorobenzene	U	U	U	U	U	U	U
Ethylbenzene	U	U	U	U	U	U	U
o-Xylene	U	0.012	0.004	U	U	U	U
m+pXylene	U	0.007	U	U	U	U	U
Styrene	U	U	U	U	U	U	U
1,2-Dichlorobenzene	U	U	U	U	U	U	U
1,3-Dichlorobenzene	U	U	U	U	U	U	U
1,4-Dichlorobenzene	U	U	U	U	U	U	U
Methyl Tert-butyl Ether	U	U	U	U	U	U	U
Tert-butyl Alcohol	U	U	U	U	U	U	U
Isopropylbenzene	U	U	U	U	U	U	U
1,2,4-Trimethylbenzene	U	0.013	0.007	U	0.005	0.009	0.007
1,3,5-Trimethylbenzene	U	U	U	U	U	U	U
2-Chlorotoluene	U	U	U	U	U	U	U
4-Chlorotoluene	U	U	U	U	U	U	U
Dichlorodifluoromethane	U	U	U	U	U	U	U

Notes:
U - Undetected

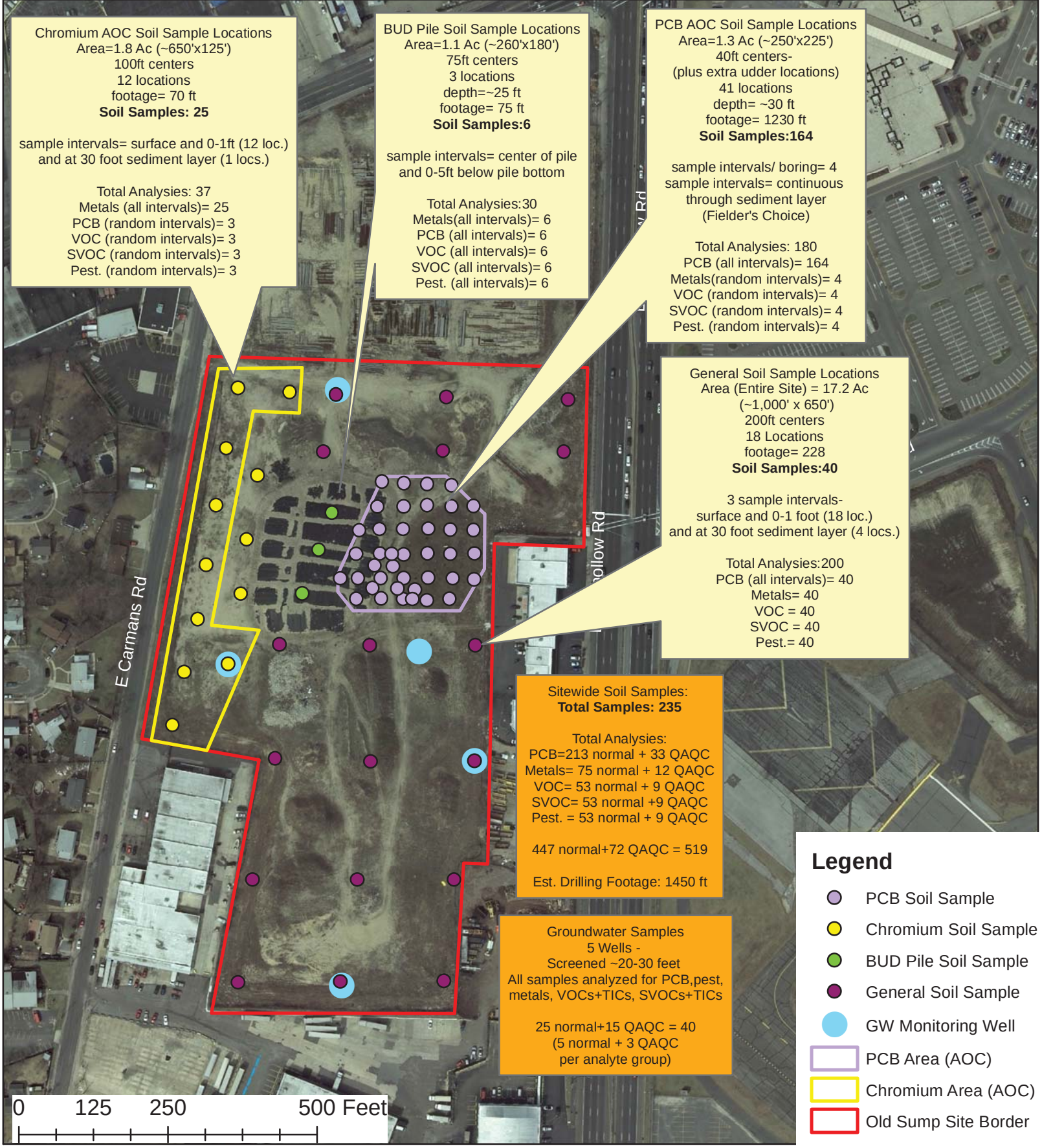
Old Recharge Basin
East Farmingdale, New York
Bottom Sediment Investigation

Table 7 (cont'd)
Air Analytical Results (ug/m^3)
Volatile Organic Compounds: USEPA Method TO + 14

Sample ID	SG-8	SG-9	SG-10	SG-11	SG-12	SG-13
Sample Depth	6 ft	6 ft	6 ft	6 ft	6 ft	6 ft
Sample Date	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002	6/20/2002
PARAMETER - ug/m^3						
Chloromethane	U	U	U	U	U	U
Bromomethane	U	U	U	U	U	U
Vinyl Chloride	U	U	U	U	U	U
Chloroethane	U	U	U	U	U	U
Methylene Chloride	U	U	U	U	U	U
1,1-Dichloroethene	U	U	U	U	U	U
1,1-Dichloroethane	U	U	U	U	U	U
trans-1,2-Dichloroethene	U	U	U	U	U	U
cis-1,2-Dichloroethene	U	U	U	U	0.004	U
Chloroform	U	U	U	U	U	U
1,2-Dichloroethane	U	U	U	U	U	U
1,1,1-Trichloroethane	U	U	U	U	U	U
Carbon Tetrachloride	U	U	U	U	U	U
Bromodichloromethane	U	U	U	U	U	U
1,2-Dichloropropane	U	U	U	U	U	U
Trichloroethene	0.016	0.071	0.012	U	0.004	0.005
Trichloroflouromethane	0.013	0.004	U	U	U	U
Benzene	0.005	U	U	U	0.006	U
cis-1,3-Dichloropropene	U	U	U	U	U	U
Dibromochloromethane	U	U	U	U	U	U
trans-1,3-Dichloropropene	U	U	U	U	U	U
1,1,2-Trichloroethane	U	U	U	U	U	U
Tetrachloroethene	0.01	0.034	0.008	U	0.004	0.03
Toluene	U	U	U	U	0.005	U
Chlorobenzene	U	U	U	U	U	U
Ethylbenzene	U	U	U	U	U	U
o-Xylene	U	U	U	U	U	U
m+pXylene	U	U	U	U	U	U
Styrene	U	U	U	U	U	U
1,2-Dichlorobenzene	U	U	U	U	U	U
1,3-Dichlorobenzene	U	U	U	U	U	U
1,4-Dichlorobenzene	U	U	U	U	U	U
Methyl Tert-butyl Ether	U	U	U	U	U	U
Tert-butyl Alcohol	U	U	U	U	U	U
Isopropylbenzene	U	U	U	U	U	U
1,2,4-Trimethylbenzene	0.005	0.005	0.005	0.005	0.005	0.004
1,3,5-Trimethylbenzene	U	U	U	U	U	U
2-Chlorotoluene	U	U	U	U	U	U
4-Chlorotoluene	U	U	U	U	U	U
Dichlorodifluoromethane	U	U	U	U	U	U

Notes:
U - Undetected

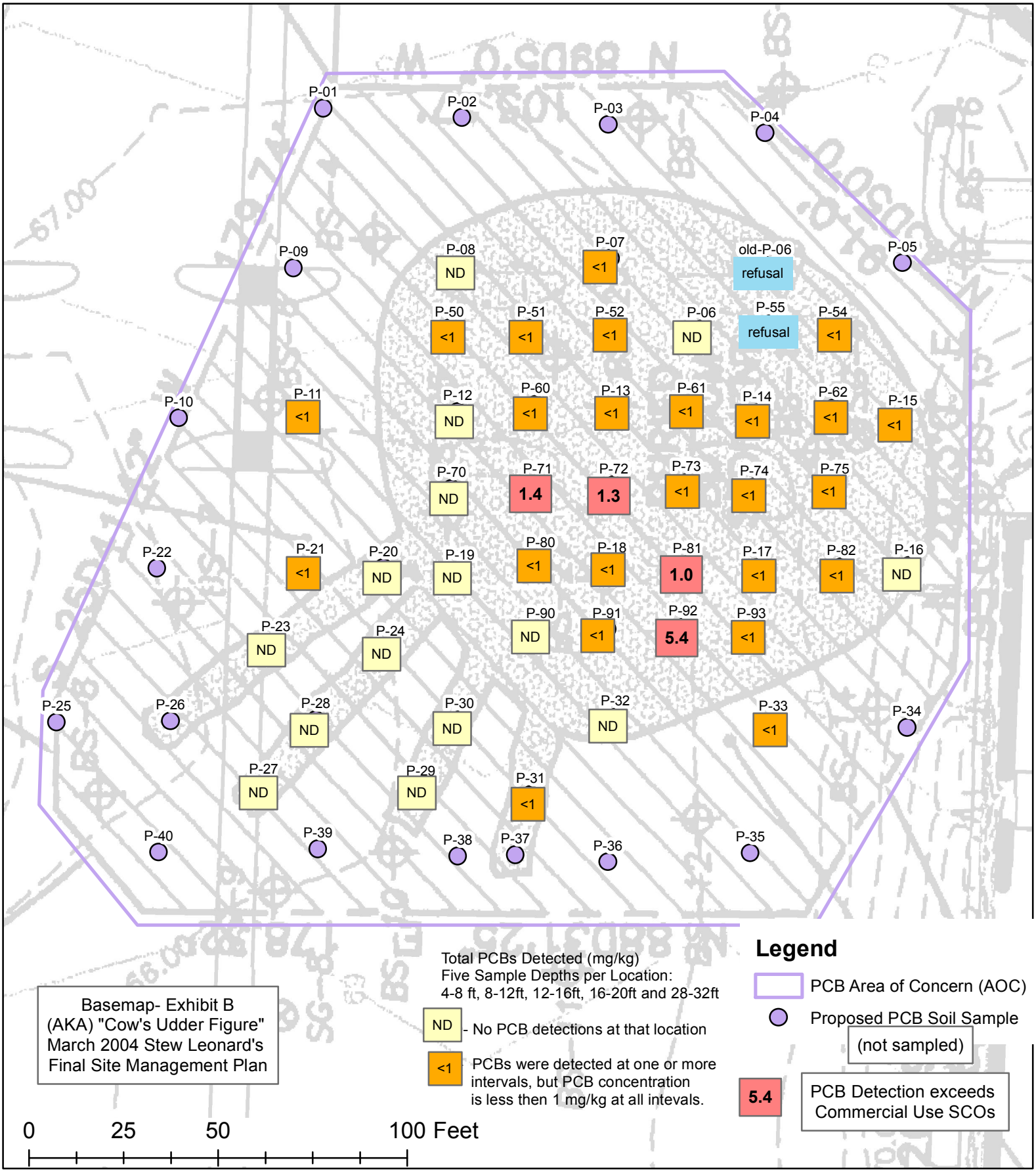
Appendix D



Fairchild Old Sump Site (class 2) Site No. 152004
Broad Hollow Rd (Rt 110) E. Farmingdale, NY 11530
Town of Babylon, Suffolk County, New York

Figure 1: Remedial
Investigation Proposed
Sampling Locations June 2014

Created by: RKC
5/13/14

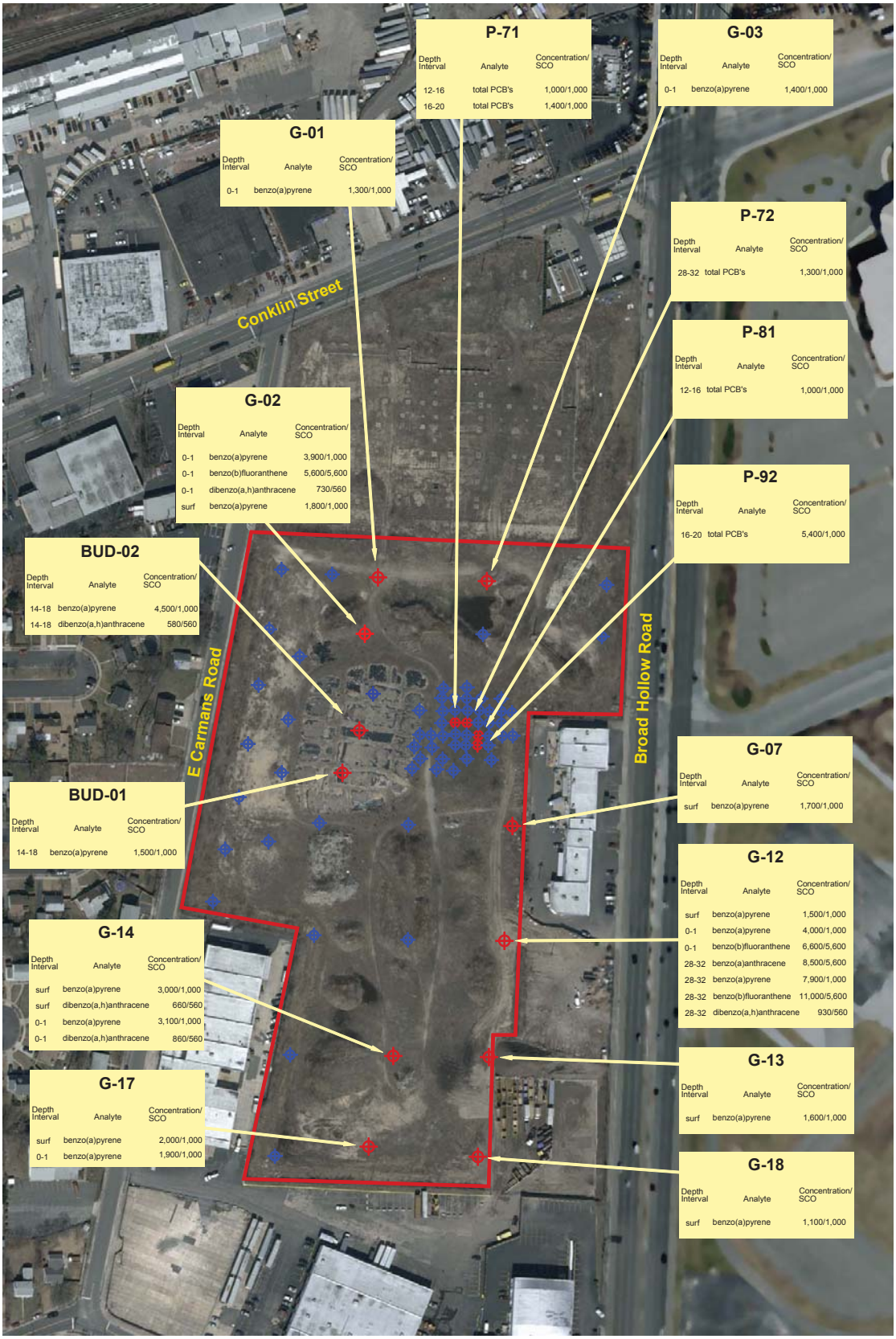


Fairchild Old Sump Site (class 2) Site No. 152004
Broad Hollow Rd (Rt 110) E. Farmingdale, NY 11530
Town of Babylon, Suffolk County, New York

Remedial Investigation
Sample Results
PCB Area of Concern
June/July 2014

Figure 2

Created by: RKC
10/2/14



- Soil Sampling Location w/ Commercial SCO Exceedance
- Soil Sampling Location

All concentrations reported in ug/Kg
Depth intervals provided in feet below grade surface
All analyses by Test America, Inc.

0 175
SCALE IN FEET

225 Atlantic Avenue
Patchogue, New York 11772
Tel (631) 447-6400
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www.Enviro-Asmnt.com
ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Figure 3

Commercial SCO Exceedances

June-July 2014 Remedial Investigation

6 NYCRR 375-6.8 Commercial Use Soil Cleanup Objectives

Fairchild Republic Aircraft; Old Sump
Broad Hollow Road
East Farmingdale, NY
Site No.152004

0 175
SCALE IN FEET

Legend

MW-1 - Well ID Labels

- Surveyed Well Locations

225 Atlantic Avenue
Patchogue, New York 11772
Tel (631) 447-6400
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Figure 4
Site Map

Fairchild Republic Aircraft; Old Sump
Broad Hollow Road
East Farmingdale, NY
Site No.152004

Fairchild Republic Aircraft; Old Sump
Route 110 (Broad Hollow Road)
East Farmingdale, NY
Site No. 152004

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Well Coordinates & Groundwater Elevations

Well	Easting, Northing	Riser Elevation (ft AMSL)	7/10/2014		7/11/2014		7/28/2014		7/31/2014	
			DTW[1]	GWEL[2]	DTW	GWEL	DTW	GWEL	DTW	GWEL
MW-1	1143552.1 207188.2	66.94	16.13	50.81	-	-	16.53	50.41	16.94	50.00
MW-1A	1143534.1 207194.4	64.29	13.12	51.17	-	-	16.64	47.65	14.11	50.18
MW-2	1143785.1 207534.9	71.19	20.16	51.03	-	-	18.23	52.96	20.56	50.63
MW-3	1143698.8 207727.7	67.21	-	-	16.42	50.79	17.04	50.17	-	-
MW-4[3]	1143382.8 207700.5	67.55	-	-	16.18	51.37	16.87	50.68	-	-
BAW-06C (30)	1143623.3 208207.1	74.41	-	-	-	-	16.71	57.7	-	-
Flow Bearing (degrees from North):			125.4		-		214.9		132.3	
Gradient (ft/ft):			0.01971		-		0.00871		0.01030	

All readings taken from the top of riser
Easting and Northing coordinates are Long Island State Plane NAD 83 (ft)
[1] - depth to water (ft)
[2] - groundwater elevation (ft AMSL)
[3] - MW-4 was found destroyed prior to surveying activities. Riser elevation was calculated using a measurement of grade to top of riser collected 7/28/14.

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2014 Remedial Investigation - Well Development
EAR Field Screening

Location	Screen Depth (ft BGS)	Date Collected	Depth to Water (ft)	Cumulative Total Purged (gallons)	Dissolved Oxygen *mg/L*	pH -	Temperature *°C*	ORP (Oxidation Reduction Potential) *mV*	Conductivity *us/cm*	Turbidity *NTU*
MW-1	40-50	7/10/2014	16.13	3.5	3.47	5.57	15.34	164.8	0.275	9.03
			-	7.0	3.24	5.94	15.36	144.5	0.274	3.49
			-	10.5	3.19	5.86	15.34	151.2	0.274	3.14
MW-1A	-	7/10/2014	13.12	4	0.90	6.65	16.03	-36.6	0.340	33.00
			-	11.5	0.93	6.62	15.97	-43.8	0.337	14.80
			-	18	0.93	6.66	15.99	-47.0	0.335	13.60
			-	25	0.88	6.65	15.92	-46.7	0.334	9.62
			-	32	0.85	6.62	16.03	-44.4	0.334	8.04
			-	38	0.88	6.65	15.95	-45.3	0.333	5.91
			-	45	0.87	6.65	16.07	-46.1	0.334	7.85
			-	52	0.86	6.62	16.01	-43.2	0.332	5.74
			-	58	0.00	6.66	16.18	-45.1	0.333	6.21
MW-2	19-29	7/10/2014	20.16	1	1.03	6.73	15.02	-49.8	0.792	>range
			-	4	1.01	6.57	14.93	-41.2	0.790	784.00
		7/11/2014	20.22	2	2.38	6.44	14.28	-29.0	0.784	1,246.00
			-	7	1.94	6.56	14.12	-33.7	0.781	43.00
			-	13	2.22	6.60	14.08	-35.3	0.775	50.00
			-	18	2.41	6.60	14.19	-39.2	0.772	44.10
			-	22	2.56	6.72	14.79	-40.1	0.773	27.90
			-	27	2.41	6.67	14.62	-36.9	0.772	25.30
			-	32	2.12	6.64	14.39	-37.3	0.768	29.70
			-	39	2.19	6.66	14.40	-40.1	0.770	37.90
MW-3	20-30	7/11/2014	16.42	4	1.75	6.53	13.85	48.5	0.324	42.20
			-	12	1.30	6.48	14.07	54.5	0.323	14.00
			-	16	1.38	6.57	14.13	47.8	0.333	4.35
MW-4	22-32	7/11/2014	16.18	3	1.80	6.70	16.30	2.7	0.309	1,244.00
			-	8	2.05	6.55	15.87	23.5	0.303	78.00
			-	13	2.01	6.36	15.53	37.0	0.300	77.60
			-	19	2.01	6.51	15.44	27.2	0.298	57.90
			-	23	2.01	6.43	15.52	34.9	0.297	42.00
			-	25	2.03	6.32	15.66	56.7	0.296	38.00

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8082A

Location	Depth (ft BGS)	Date Collected	Time Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Polychlorinated biphenyls (total)
P-06	4-8	6/27/2014	1:12 PM	<73	<73	<73	<73	<73	<73	<73	<73	<73	<73
	8-12	6/27/2014	1:19 PM	<71	<71	<71	<71	<71	<71	<71	<71	<71	<71
	12-16	6/27/2014	1:26 PM	<73	<73	<73	<73	<73	<73	<73	<73	<73	<73
	16-20	6/27/2014	1:32 PM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
	28-32	6/27/2014	2:08 PM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
P-07	4-8	6/24/2014	11:43 AM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
	8-12	6/25/2014	7:16 AM	<74	<74	<74	<74	230	<74	98	<74	<74	320
	12-16	6/25/2014	7:25 AM	<74	<74	<74	<74	<74	<74	130	<74	<74	130
	16-20	6/25/2014	7:38 AM	<77	<77	<77	<77	<77	<77	75 J	<77	<77	75 J
	28-32	6/25/2014	8:20 AM	<74	<74	<74	<74	340	<74	420	<74	<74	730
P-08	4-8	6/24/2014	9:21 AM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
	8-12	6/24/2014	9:25 AM	<110	<110	<110	<110	<110	<110	<110	<110	<110	<110
	12-16	6/24/2014	9:32 AM	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
	16-20	6/24/2014	9:39 AM	<73	<73	<73	<73	<73	<73	<73	<73	<73	<73
	28-32	6/24/2014	10:13 AM	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75
P-11	4-8	6/23/2014	9:45 AM	<73	<73	<73	<73	<73	<73	<73	<73	<73	<73
	8-12	6/23/2014	9:51 AM	<73	<73	<73	<73	<73	<73	<73	<73	<73	<73
	12-16	6/23/2014	9:55 AM	<73	<73	<73	<73	<73	<73	<73	<73	<73	<73
	16-20	6/23/2014	10:02 AM	<80	<80	<80	<80	660	<80	<80	<80	<80	660
	28-32	6/23/2014	10:34 AM	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75
P-12	4-8	6/27/2014	9:45 AM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
	8-12	6/27/2014	9:56 AM	<72	<72	<72	<72	<72	<72	38 J	<72	<72	38 J
	12-16	6/27/2014	10:00 AM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
	16-20	6/27/2014	10:06 AM	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75
	28-32	6/27/2014	10:32 AM	<73	<73	<73	<73	<73	<73	<73	<73	<73	<73
P-13	4-8	6/27/2014	10:52 AM	<79	<79	<79	<79	250	<79	280	<79	<79	520
	8-12	6/27/2014	10:56 AM	<82	<82	<82	<82	84	<82	<82	<82	<82	84
	12-16	6/27/2014	11:02 AM	<94	<94	<94	<94	150	<94	<94	<94	<94	150
	28-32	6/27/2014	11:38 AM	<75	<75	<75	<75	180	<75	<75	<75	<75	180
P-14	4-8	6/25/2014	10:16 AM	<71	<71	<71	<71	<71	<71	230	<71	<71	230
	8-12	6/25/2014	10:22 AM	<72	<72	<72	<72	<72	<72	160	<72	<72	160
	12-16	6/25/2014	10:30 AM	<77	<77	<77	<77	<77	<77	<77	<77	<77	<77
	16-20	6/25/2014	10:38 AM	<81	<81	<81	<81	360	<81	<81	<81	<81	360
	28-32	6/25/2014	11:12 AM	<83	<83	<83	<83	330	<83	<83	<83	<83	330
P-15	4-8	6/30/2014	11:56 AM	<73	<73	<73	<73	<73	<73	<73	<73	<73	<73
	8-12	6/30/2014	12:01 PM	<71	<71	<71	<71	<71	<71	<71	<71	<71	<71
	12-16	6/30/2014	12:07 PM	<72	<72	<72	<72	<72	<72	82	<72	<72	82
	16-20	6/30/2014	12:16 PM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
	28-32	6/30/2014	12:55 PM	<85	<85	<85	<85	490	<85	<85	<85	<85	490
P-16	4-8	6/30/2014	10:29 AM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
	8-12	6/30/2014	10:35 AM	<71	<71	<71	<71	<71	<71	<71	<71	<71	<71
	12-16	6/30/2014	10:41 AM	<71	<71	<71	<71	<71	<71	<71	<71	<71	<71
	16-20	6/30/2014	10:48 AM	<85	<85	<85	<85	<85	<85	<85	<85	<85	<85
	28-32	6/30/2014	11:17 AM	<82	<82	<82	<82	<82	<82	<82	<82	<82	<82
P-17	4-8	6/25/2014	12:04 PM	<69	<69	<69	<69	<69	<69	300	<69	<69	300
	8-12	6/25/2014	12:07 PM	<69	<69	<69	<69	<69	<69	130	<69	<69	130
	12-16	6/25/2014	12:12 PM	<69	<69	<69	<69	<69	<69	430	<69	<69	430
	16-20	6/25/2014	12:19 PM	<72	<72	<72	<72	<72	<72	81	<72	<72	81
	28-32	6/25/2014	12:46 PM	<75	<75	<75	<75	480	<75	<75	<75	<75	480
P-18	4-8	6/30/2014	7:33 AM	<73	<73	<73	<73	<73	<73	<73	<73	<73	<73
	8-12	6/30/2014	7:37 AM	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
	12-16	6/30/2014	7:43 AM	<73	<73	<73	<73	<73	<73	46 J	<73	<73	46 J
	16-20	6/30/2014	7:50 AM	<110	<110	<110	<110	940	<110	<110	<110	<110	940
	28-32	6/30/2014	8:20 AM	<79	<79	<79	<79	<79	<79	<79	<79	<79	<79
P-19	4-8	6/30/2014	8:56 AM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
	8-12	6/30/2014	9:01 AM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
	12-16	6/30/2014	9:07 AM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
	16-20	6/30/2014	9:14 AM	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
	28-32	6/30/2014	9:48 AM	<76	<76	<76	<76	<76	<76	<76	<76	<76	<76
P-20	4-8	6/27/2014	8:39 AM	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
	8-12	6/27/2014	8:43 AM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
	12-16	6/27/2014	8:49 AM	<71	<71	<71	<71	<71	<71	<71	<71	<71	<71
	16-20	6/27/2014	8:55 AM	<73	<73	<73	<73	<73	<73	<73	<73	<73	<73
	28-32	6/27/2014	9:25 AM	<76	<76	<76	<76	<76	<76	<76	<76	<76	<76
P-21	4-8	6/23/2014	7:57 AM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
	8-12	6/23/2014	8:03 AM	<75	<75	<75	<75	210	<75	<75	<75	<75	210
	12-16	6/23/2014	8:10 AM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
	16-20	6/23/2014	8:17 AM	<73	<73	<73	<73	85	<73	<73	<73	<73	85
	28-32	6/23/2014	8:50 AM	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75
P-23	4-8	6/20/2014	9:50 AM	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75
	8-12	6/20/2014	9:54 AM	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
	12-16	6/20/2014	10:00 AM	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
	16-20	6/20/2014	10:09 AM	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
	28-32	6/20/2014	10:38 AM	<76	<76	<76	<76	<76	<76	<76	<76	<76	<76
P-24	4-8	6/23/2014	11:26 AM	<73	<73	<73	<73	<73	<73	<73	<73	<73	<73
	8-12	6/23/2014	11:30 AM	<76	<76	<76	<76	<76	<76	<76	<76	<76	<76
	12-16	6/23/2014	11:40 AM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
	16-20	6/24/2014	8:05 AM	<73	<73	<73	<73	<73	<73	<73	<73	<73	<73
	28-32	6/24/2014	8:44 AM	<82	<82	<82	<82	<82	<82	<82	<82	<82	<82

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8082A

Location	Depth (ft BGS)	Date Collected	Time Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Polychlorinated biphenyls (total)
P-27	4-8	6/20/2014	7:50 AM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
	8-12	6/20/2014	7:55 AM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
	12-16	6/20/2014	8:01 AM	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75
	16-20	6/20/2014	8:09 AM	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
	28-32	6/20/2014	10:38 AM	<79	<79	<79	<79	<79	<79	<79	<79	<79	<79
P-28	4-8	6/19/2014	11:21 AM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
	8-12	6/19/2014	11:28 AM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
	12-16	6/19/2014	11:35 AM	<73	<73	<73	<73	<73	<73	<73	<73	<73	<73
	16-20	6/19/2014	11:45 AM	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
	28-32	6/19/2014	12:15 PM	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75
P-29	4-8	6/19/2014	9:33 AM	<73	<73	<73	<73	<73	<73	<73	<73	<73	<73
	8-12	6/19/2014	9:40 AM	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
	12-16	6/19/2014	9:49 AM	<73	<73	<73	<73	<73	<73	<73	<73	<73	<73
	16-20	6/19/2014	9:52 AM	<77	<77	<77	<77	<77	<77	<77	<77	<77	<77
	28-32	6/19/2014	10:33 AM	<79	<79	<79	<79	<79	<79	<79	<79	<79	<79
P-30	4-8	6/26/2014	12:59 PM	<73	<73	<73	<73	<73	<73	<73	<73	<73	<73
	8-12	6/26/2014	1:04 PM	<73	<73	<73	<73	<73	<73	<73	<73	<73	<73
	12-16	6/26/2014	1:09 PM	<71	<71	<71	<71	<71	<71	<71	<71	<71	<71
	16-20	6/26/2014	1:15 PM	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
	28-32	6/26/2014	1:45 PM	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
P-31	4-8	6/19/2014	7:39 AM	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
	8-12	6/19/2014	7:45 AM	<74	<74	<74	<74	87	<74	<74	<74	<74	87
	12-16	6/19/2014	7:51 AM	<71	<71	<71	<71	76	<71	<71	<71	<71	76
	28-32	6/19/2014	8:39 AM	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75
P-32	4-8	6/26/2014	11:26 AM	<71	<71	<71	<71	<71	<71	<71	<71	<71	<71
	8-12	6/26/2014	11:30 AM	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
	12-16	6/26/2014	11:37 AM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
	16-20	6/26/2014	11:44 AM	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75
	28-32	6/26/2014	12:14 PM	<78	<78	<78	<78	<78	<78	<78	<78	<78	<78
P-33	4-8	6/25/2014	1:13 PM	<72	<72	<72	<72	<72	<72	65 J	<72	<72	65 J
	8-12	6/25/2014	1:16 PM	<71	<71	<71	<71	<71	<71	130	<71	<71	130
	12-16	6/25/2014	1:21 PM	<78	<78	<78	<78	100	<78	<78	<78	<78	100
	16-20	6/25/2014	1:30 PM	<74	<74	<74	<74	<74	<74	130	<74	<74	130
	28-32	6/25/2014	2:10 PM	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80
P-50	4-8	7/1/2014	8:34 AM	<82	<82	<82	<82	330	<82	<82	<82	<82	330
	8-12	7/1/2014	8:39 AM	<88	<88	<88	<88	550	<88	<88	<88	<88	550
	12-16	7/1/2014	8:43 AM	<75	<75	<75	<75	280	<75	<75	<75	<75	280
	16-20	7/1/2014	8:52 AM	<73	<73	<73	<73	64 J	<73	<73	<73	<73	64 J
	28-32	7/1/2014	9:22 AM	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75
P-51	4-8	7/1/2014	10:00 AM	<70	<70	<70	<70	<70	<70	47 J	<70	<70	47 J
	8-12	7/1/2014	10:07 AM	<71	<71	<71	<71	<71	<71	<71	<71	<71	<71
	12-16	7/1/2014	10:12 AM	<72	<72	<72	<72	<72	<72	54 J	<72	<72	54 J
	16-20	7/1/2014	10:21 AM	<71	<71	<71	<71	<71	<71	45 J	<71	<71	45 J
	28-32	7/1/2014	10:51 AM	<80	<80	<80	<80	210	<80	<80	<80	<80	210
P-52	4-8	7/1/2014	11:26 AM	<73	<73	<73	<73	<73	<73	75	<73	<73	75
	8-12	7/1/2014	11:29 AM	<71	<71	<71	<71	<71	<71	53 J	<71	<71	53 J
	12-16	7/1/2014	11:35 AM	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
	16-20	7/1/2014	11:41 AM	<79	<79	<79	<79	520	<79	<79	<79	<79	520
	28-32	7/1/2014	12:07 PM	<73	<73	<73	<73	82	<73	<73	<73	<73	82
P-54	4-8	7/1/2014	11:39 AM	<71	<71	<71	<71	<71	<71	66 J	<71	<71	66 J
	8-12	7/1/2014	1:45 PM	<72	<72	<72	<72	<72	<72	55 J	<72	<72	55 J
	12-16	7/1/2014	1:51 PM	<71	<71	<71	<71	<71	<71	49 J	<71	<71	49 J
	16-20	7/1/2014	1:57 PM	<73	<73	<73	<73	<73	<73	48 J	<73	<73	48 J
	28-32	7/1/2014	2:26 PM	<73	<73	<73	<73	270	<73	<73	<73	<73	270
P-60	4-8	7/3/2014	7:25 AM	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
	8-12	7/3/2014	7:29 AM	<73	<73	<73	<73	<73	91	<73	<73	<73	91
	12-16	7/3/2014	7:35 AM	<91	<91	<91	<91	<91	<91	<91	<91	<91	<91
	16-20	7/3/2014	7:42 AM	<77	<77	<77	<77	160	<77	<77	<77	<77	160
	28-32	7/3/2014	8:08 AM	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75
P-61	4-8	7/3/2014	8:44 AM	<71	<71	<71	<71	<71	<71	69 J	<71	<71	69 J
	8-12	7/3/2014	8:52 AM	<73	<73	<73	<73	<73	<73	49 J	<73	<73	49 J
	12-16	7/3/2014	8:59 AM	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75
	16-20	7/3/2014	9:07 AM	<73	<73	<73	<73	<73	<73	<73	<73	<73	<73
	28-32	7/3/2014	9:49 AM	<75	<75	<75	<75	100	<75	<75	<75	<75	100
P-62	4-8	7/3/2014	10:32 AM	<71	<71	<71	<71	<71	<71	59 J	<71	<71	59 J
	8-12	7/3/2014	10:36 AM	<73	<73	<73	<73	<73	<73	<73	<73	<73	<73
	12-16	7/3/2014	10:40 AM	<73	<73	<73	<73	<73	<73	93	<73	<73	93
	16-20	7/3/2014	10:45 AM	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
	28-32	7/3/2014	11:12 AM	<86	<86	<86	<86	<86	<86	<86	<86	<86	<86
P-70	4-8	7/3/2014	11:52 AM	<71	<71	<71	<71	<71	<71	<71	<71	<71	<71
	8-12	7/3/2014	11:56 AM	<69	<69	<69	<69	<69	<69	<69	<69	<69	<69
	12-16	7/3/2014	11:59 AM	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
	16-20	7/3/2014	12:04 PM	<71	<71	<71	<71	<71	<71	<71	<71	<71	<71
	28-32	7/3/2014	12:28 PM	<77	<77	<77	<77	<77	<77	<77	<77	<77	<77
P-71	4-8	7/7/2014	7:27 AM	<77	<77	<77	<77	<77	<77	200	<77	<77	200
	8-12	7/7/2014	7:31 AM	<74	<74	<74	<74	<74	<74	960	<74	<74	960
	12-16	7/7/2014	7:36 AM	<75	<75	<75	<75	<75	<75	1,000	<75	<75	1,000
	16-20	7/7/2014	7:40 AM	<150	<150	<150	<150	1,400	<150	<150	<150	<150	1,400
	28-32	7/7/2014	8:11 AM	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75

Fairchild Republic Aircraft; Old Sump
Route 110 (Broad Hollow Road)
East Farmingdale, NY
Site No. 152004

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8082A

Location	Depth (ft BGS)	Date Collected	Time Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Polychlorinated biphenyls (total)
P-72	4-8	7/7/2014	8:46 AM	<77	<77	<77	<77	<77	<77	120	<77	<77	120
	8-12	7/7/2014	8:49 AM	<73	<73	<73	<73	<73	<73	310	<73	<73	310
	12-16	7/7/2014	8:53 AM	<80	<80	<80	<80	<80	<80	210	<80	<80	210
	16-20	7/7/2014	8:59 AM	<81	<81	<81	<81	<81	<81	230	<81	<81	230
	28-32	7/7/2014	9:30 AM	<88	<88	<88	<88	1,300	<88	<88	<88	<88	1,300
P-73	4-8	7/7/2014	10:05 AM	<73	<73	<73	<73	<73	<73	950	<73	<73	950
	8-12	7/7/2014	10:09 AM	<75	<75	<75	<75	<75	<75	360	<75	<75	360
	12-16	7/7/2014	10:14 AM	<78	<78	<78	<78	560	<78	<78	<78	<78	560
	16-20	7/7/2014	10:20 AM	<78	<78	<78	<78	<78	<78	190	<78	<78	190
	28-32	7/7/2014	10:51 AM	<97	<97	<97	<97	880	<97	<97	<97	<97	880
P-74	4-8	7/7/2014	11:34 AM	<70	<70	<70	<70	<70	<70	150	<70	<70	150
	8-12	7/7/2014	11:38 AM	<75	<75	<75	<75	130	<75	130	<75	<75	260
	12-16	7/7/2014	11:44 AM	<70	<70	<70	<70	<70	<70	87	<70	<70	87
	16-20	7/7/2014	11:50 AM	<73	<73	<73	<73	340	<73	<73	<73	<73	340
	28-32	7/7/2014	12:20 PM	<100	<100	<100	<100	400	<100	<100	<100	<100	400
P-75	4-8	7/7/2014	12:55 PM	<73	<73	<73	<73	<73	<73	66 J	<73	<73	66 J
	8-12	7/7/2014	1:01 PM	<74	<74	<74	<74	<74	<74	41 J	<74	<74	41 J
	12-16	7/7/2014	1:06 PM	<73	<73	<73	<73	<73	<73	67 J	<73	<73	67 J
	16-20	7/7/2014	1:13 PM	<75	<75	<75	<75	<75	<75	48 J	<75	<75	48 J
	28-32	7/7/2014	1:43 PM	<73	<73	<73	<73	<73	<73	<73	<73	<73	<73
P-80	4-8	7/8/2014	8:46 AM	<72	<72	<72	<72	<72	<72	950	<72	<72	950
	8-12	7/8/2014	8:50 AM	<70	<70	<70	<70	<70	740	<70	<70	<70	740
	12-16	7/8/2014	8:56 AM	<72	<72	<72	<72	<72	420	<72	<72	<72	420
	16-20	7/8/2014	9:03 AM	<72	<72	<72	<72	<72	230	<72	<72	<72	230
	28-32	7/8/2014	9:35 AM	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
P-81	4-8	7/8/2014	10:13 AM	<68	<68	<68	<68	<68	<68	480	<68	<68	480
	8-12	7/8/2014	10:17 AM	<71	<71	<71	<71	<71	<71	380	<71	<71	380
	12-16	7/8/2014	10:21 AM	<77	<77	<77	<77	<77	<77	1,000	<77	<77	1,000
	16-20	7/8/2014	10:28 AM	<79	<79	<79	<79	850	<79	130	<79	<79	980
	28-32	7/8/2014	10:57 AM	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80
P-82	4-8	7/8/2014	11:49 AM	<73	<73	<73	<73	<73	<73	<73	<73	<73	<73
	8-12	7/8/2014	11:54 AM	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
	12-16	7/8/2014	12:01 PM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
	16-20	7/8/2014	12:07 PM	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
	28-32	7/8/2014	12:40 PM	<95	<95	<95	<95	570	<95	<95	<95	<95	570
P-90	4-8	7/8/2014	1:13 PM	<71	<71	<71	<71	<71	<71	<71	<71	<71	<71
	8-12	7/8/2014	1:18 PM	<71	<71	<71	<71	<71	<71	<71	<71	<71	<71
	12-16	7/8/2014	1:28 PM	<69	<69	<69	<69	<69	<69	<69	<69	<69	<69
	16-20	7/9/2014	7:27 AM	<73	<73	<73	<73	<73	<73	<73	<73	<73	<73
	28-32	7/9/2014	8:01 AM	<76	<76	<76	<76	<76	<76	<76	<76	<76	<76
P-91	4-8	7/9/2014	8:18 AM	<72	<72	<72	<72	<72	<72	57 J	<72	<72	57 J
	8-12	7/9/2014	8:22 AM	<72	<72	<72	<72	<72	770	<72	<72	<72	770
	12-16	7/9/2014	8:28 AM	<71	<71	<71	<71	<71	<71	<71	<71	<71	<71
	16-20	7/9/2014	8:32 AM	<76	<76	<76	<76	<76	<76	<76	<76	<76	<76
	28-32	7/9/2014	9:02 AM	<76	<76	<76	<76	<76	<76	<76	<76	<76	<76
P-92	4-8	7/9/2014	9:44 AM	<71	<71	<71	<71	<71	<71	100	<71	<71	100
	8-12	7/9/2014	9:49 AM	<74	<74	<74	<74	<74	790	<74	<74	<74	790
	12-16	7/9/2014	9:54 AM	<73	<73	<73	<73	<73	<73	110	<73	<73	110
	16-20	7/9/2014	10:01 AM	<570	<570	<570	<570	5,400	<570	<570	<570	<570	5,400
	28-32	7/9/2014	10:32 AM	<84	<84	<84	<84	<84	<84	<84	<84	<84	<84
P-93	4-8	7/9/2014	11:16 AM	<69	<69	<69	<69	<69	<69	250	<69	<69	250
	8-12	7/9/2014	11:21 AM	<71	<71	<71	<71	<71	88	<71	<71	<71	88
	12-16	7/9/2014	11:26 AM	<72	<72	<72	<72	<72	120	<72	<72	<72	120
	16-20	7/9/2014	11:32 AM	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
	28-32	7/9/2014	12:03 PM	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
Soil Cleanup Objectives[a]	Commercial			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1,000
	Unrestricted			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	100

Notes:
n/a - not applicable / not analyzed
J - Indicates an estimated value below laboratory reporting limits
[a] - 6 NYCRR 375-6.8 (a, b)
- value exceeds 6 NYCRR 375-6.8 (a,b) unrestricted use SCO
- value exceeds both 6 NYCRR 375-6.8 (a,b) commercial and unrestricted use SCO's

Fairchild Republic Aircraft; Old Sump
Route 110 (Broad Hollow Road)
East Farmingdale, NY
Site No. 152004

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8260C

Location	P-06	P-08	P-27	P-33	Soil Cleanup Objectives[a]	
Depth (ft BGS)	28-32	28-32	28-32	28-32	Commercial	Unrestricted
Date Collected	6/27/2014	6/24/2014	6/20/2014	6/25/2014		
Time Collected	2:08 PM	10:13 AM	10:38 AM	2:10 PM		
1,1 Dichloroethane	<1	<0.97	<1.1	<1.1	240,000	270
1,1 Dichloroethene	<1	<0.97	<1.1	<1.1	500,000	330
1,1,1 Trichloroethane	<1	<0.97	<1.1	<1.1	500,000	680
1,1,2 Trichloroethane	<1	<0.97	<1.1	<1.1	n/a	n/a
1,1,2,2 Tetrachloroethane	<1	<0.97	<1.1	<1.1	n/a	n/a
1,2 Dibromoethane	<1	<0.97	<1.1	<1.1	n/a	n/a
1,2 Dichlorobenzene	<1	<0.97	<1.1	<1.1	500,000	1,100
1,2 Dichloroethane	<1	<0.97	<1.1	<1.1	30,000	20
1,2 Dichloropropane	<1	<0.97	<1.1	<1.1	n/a	n/a
1,2,3 Trichlorobenzene	<1	<0.97	<1.1	<1.1	n/a	n/a
1,2,4 Trichlorobenzene	<1	<0.97	<1.1	<1.1	n/a	n/a
1,3 Dichlorobenzene	<1	<0.97	<1.1	<1.1	280,000	2,400
1,4 Dichlorobenzene	<1	<0.97	<1.1	<1.1	130,000	1,800
1,4-Dioxane	<20	<19	<21	<22	130,000	100
2-Hexanone	<5.1	<4.9	<5.3	<5.4	n/a	n/a
4-Methyl-2-Pentanone	<5.1	<4.9	<5.3	<5.4	n/a	n/a
Acetone	34	41	12	19	500,000	50
Benzene	<1	<0.97	<1.1	<1.1	44,000	60
Bromochloromethane	<1	<0.97	<1.1	<1.1	n/a	n/a
Bromodichloromethane	<1	<0.97	<1.1	<1.1	n/a	n/a
Bromoform	<1	<0.97	<1.1	<1.1	n/a	n/a
Bromomethane	<1	<0.97	<1.1	<1.1	n/a	n/a
c 1,3 Dichloropropene	<1	<0.97	<1.1	<1.1	n/a	n/a
Carbon Disulfide	0.28 J	1.6	0.2 J	0.49 J	n/a	n/a
Carbon Tetrachloride	<1	<0.97	<1.1	<1.1	22,000	760
Chlorobenzene	<1	<0.97	<1.1	<1.1	500,000	1,100
Chloroethane	<1	<0.97	<1.1	<1.1	n/a	n/a
Chloroform	<1	<0.97	<1.1	<1.1	350,000	370
Chloromethane	<1	<0.97	<1.1	<1.1	n/a	n/a
cis-1,2-Dichloroethene	<1	<0.97	<1.1	<1.1	500,000	250
Cyclohexane	<1	<0.97	<1.1	<1.1	n/a	n/a
Cyclohexane, methyl-	<1	0.84 J	<1.1	<1.1	n/a	n/a
Dibromochloromethane	<1	<0.97	<1.1	<1.1	n/a	n/a
Dibromochloropropane	<1	<0.97	<1.1	<1.1	n/a	n/a
Dichlorodifluoromethane	<1	<0.97	<1.1	<1.1	n/a	n/a
Ethylbenzene	<1	<0.97	<1.1	<1.1	390,000	1,000
Freon 113	<1	<0.97	<1.1	<1.1	n/a	n/a
Isopropylbenzene	<1	<0.97	<1.1	<1.1	n/a	n/a
m + p Xylene	<1	<0.97	<1.1	<1.1	n/a	n/a
Methyl acetate	<5.1	<4.9	<5.3	<5.4	n/a	n/a
Methyl Ethyl Ketone	4.1 J	5	<5.3	2.2 J	500,000	120
Methylene Chloride	<1	1.3	0.89 BJ	<1.1	500,000	50
o-Xylene	<1	<0.97	<1.1	<1.1	n/a	n/a
Styrene	<1	<0.97	<1.1	<1.1	n/a	n/a

Fairchild Republic Aircraft; Old Sump
Route 110 (Broad Hollow Road)
East Farmingdale, NY
Site No. 152004

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8260C

Location	P-06	P-08	P-27	P-33	Soil Cleanup Objectives[a]	
Depth (ft BGS)	28-32	28-32	28-32	28-32	Commercial	Unrestricted
Date Collected	6/27/2014	6/24/2014	6/20/2014	6/25/2014		
Time Collected	2:08 PM	10:13 AM	10:38 AM	2:10 PM		
t 1,3 Dichloropropene	<1	<0.97	<1.1	<1.1	n/a	n/a
t butylmethylether	<1	<0.97	<1.1	<1.1	500,000	930
Tetrachloroethene	<1	<0.97	0.71 J	<1.1	150,000	1,300
Toluene	<1	0.22 J	<1.1	0.16 J	500,000	700
trans-1,2-Dichloroethene	<1	<0.97	<1.1	<1.1	500,000	190
Trichloroethylene	0.4 J	<0.97	0.14 J	<1.1	200,000	470
Trichlorofluoromethane	<1	<0.97	<1.1	<1.1	n/a	n/a
Vinyl Chloride	<1	<0.97	<1.1	<1.1	13,000	20
1-Methylcyclodecene (TIC)	n/a	9.4 JN !	n/a	n/a	n/a	n/a
2,6-Dimethyl nonane (TIC)	n/a	11 JN !	n/a	n/a	n/a	n/a
3,6-Dimethyl octane (TIC)	n/a	9.9 JN !	n/a	n/a	n/a	n/a
7-Methyltridecane (TIC)	n/a	6.7 JN !	n/a	n/a	n/a	n/a
Butyl cyclohexane (TIC)	n/a	7.7 JN !	n/a	n/a	n/a	n/a
Cyclohexane, pentyl- (TIC)	n/a	12 JN !	n/a	n/a	n/a	n/a
Decahydro-2-Methyl Naphthalene (TIC)	n/a	9.2 JN !	n/a	n/a	n/a	n/a
trans-Decahydro-naphthalene (TIC)	n/a	8.3 JN !	n/a	n/a	n/a	n/a
Unknown volatile organic with 2nd highest conc. (TIC)	n/a	7.1 J !	n/a	n/a	n/a	n/a
Unknown volatile organic with highest conc. (TIC)	n/a	8.2 J !	n/a	n/a	n/a	n/a
Calculated						
Total VOC's	38.78	139.46	13.94	21.85	n/a	n/a
Total BTEX	<5	0.22	<5.5	0.16	n/a	n/a
Total Xylenes	<2	<1.94	<2.2	<2.2	500,000	260

Notes:
n/a - not applicable / not analyzed
B - Analyte was detected in associated lab blank
J - Indicates an estimated value below laboratory reporting limits
N - Indicates the presumptive evidence of a compound
! - Indicates parameter/value was reported as a Tentatively Identified Compound (TIC)
[a] - 6 NYCRR 375-6.8 (a, b)

Fairchild Republic Aircraft; Old Sump
Route 110 (Broad Hollow Road)
East Farmingdale, NY
Site No. 152004

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8270D

Location	P-06	P-08	P-27	P-33	Soil Cleanup Objectives[a]	
Depth (ft BGS)	28-32	28-32	28-32	28-32	Commercial	Unrestricted
Date Collected	6/27/2014	6/24/2014	6/20/2014	6/25/2014		
Time Collected	2:08 PM	10:13 AM	10:38 AM	2:10 PM		
1,1-Biphenyl	<360	<740	<390	<390	n/a	n/a
1,2,4,5-Tetrachlorobenzene	<360	<740	<390	<390	n/a	n/a
2,3,4,6-Tetrachlorophenol	<360	<740	<390	<390	n/a	n/a
2,4,5-Trichlorophenol	<360	<740	<390	<390	n/a	n/a
2,4,6-Trichlorophenol	<360	<740	<390	<390	n/a	n/a
2,4-Dichlorophenol	<360	<740	<390	<390	n/a	n/a
2,4-Dimethylphenol	<360	<740	<390	<390	n/a	n/a
2,4-Dinitrophenol	<720	<1500	<790	<800	n/a	n/a
2,4-Dinitrotoluene	<72	<150	<79	<80	n/a	n/a
2,6-Dinitrotoluene	<72	<150	<79	<80	n/a	n/a
2-Chloronaphthalene	<360	<740	<390	<390	n/a	n/a
2-Chlorophenol	<360	<740	<390	<390	n/a	n/a
2-Methyl-4,6-dinitrophenol	<720	<1500	<790	<800	n/a	n/a
2-Methylnaphthalene	<360	<740	<390	<390	n/a	n/a
2-Nitroaniline	<360	<740	<390	<390	n/a	n/a
2-Nitrophenol	<360	<740	<390	<390	n/a	n/a
3,3-Dichlorobenzidine	<360	<740	<390	<390	n/a	n/a
3-Nitroaniline	<360	<740	<390	<390	n/a	n/a
4-Bromophenyl-phenylether	<360	<740	<390	<390	n/a	n/a
4-Chloro-3-methylphenol	<360	<740	<390	<390	n/a	n/a
4-Chloroaniline	<360	<740	<390	<390	n/a	n/a
4-Chlorophenyl-phenylether	<360	<740	<390	<390	n/a	n/a
4-Nitroaniline	<720	<1500	<790	<800	n/a	n/a
4-Nitrophenol	<360	<740	<390	<390	n/a	n/a
Acenaphthene	<360	<740	<390	<390	**500,000**	**20,000**
Acenaphthylene	<360	<740	<390	<390	**500,000**	**100,000**
Acetophenone	<360	<740	<390	<390	n/a	n/a
Anthracene	**67 J**	<740	<390	<390	**500,000**	**100,000**
Atrazine	<360	<740	<390	<390	n/a	n/a
Benzaldehyde	<360	<740	<390	<390	n/a	n/a
Benzo(a)anthracene	**300**	**110**	<39	<39	**5,600**	**1,000**
Benzo(a)pyrene	**260**	**93**	<39	<39	**1,000**	**1,000**
Benzo(b)fluoranthene	**420**	**150**	<39	<39	**5,600**	**1,000**
Benzo(g,h,i)perylene	**86 J**	**81 J**	<390	<390	**500,000**	**100,000**
Benzo(k)fluoranthene	**160**	<74	<39	<39	**56,000**	**800**
bis(2-Chloroethoxy)methane	<360	<740	<390	<390	n/a	n/a
bis(2-Chloroethyl)ether	<36	<74	<39	<39	n/a	n/a
bis(2-Chloroisopropyl)ether	<360	<740	<390	<390	n/a	n/a
bis(2-Ethylhexyl)phthalate	<360	<740	<390	<390	n/a	n/a
Butylbenzylphthalate	<360	<740	<390	<390	n/a	n/a
Caprolactam	<360	<740	<390	<390	n/a	n/a
Carbazole	<360	<740	<390	<390	n/a	n/a
Chrysene	**330 J**	**170 J**	<390	<390	**56,000**	**1,000**

Fairchild Republic Aircraft; Old Sump
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Site No. 152004

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8270D

Location	P-06	P-08	P-27	P-33	Soil Cleanup Objectives[a]	
Depth (ft BGS)	28-32	28-32	28-32	28-32	Commercial	Unrestricted
Date Collected	6/27/2014	6/24/2014	6/20/2014	6/25/2014		
Time Collected	2:08 PM	10:13 AM	10:38 AM	2:10 PM		
Dibenzo(a,h)anthracene	43	16 J	<39	<39	560	330
Dibenzofuran	<360	<740	<390	<390	350,000	7,000
Diethylphthalate	<360	<740	<390	<390	n/a	n/a
Dimethylphthalate	<360	<740	<390	<390	n/a	n/a
Di-n-butylphthalate	<360	<740	<390	<390	n/a	n/a
Di-n-octylphthalate	<360	<740	<390	<390	n/a	n/a
Fluoranthene	730	220 J	<390	<390	500,000	100,000
Fluorene	<360	<740	<390	<390	500,000	30,000
Hexachlorobenzene	<36	<74	<39	<39	6,000	330
Hexachlorobutadiene	<72	<150	<79	<80	n/a	n/a
Hexachlorocyclopentadiene	<360	<740	<390	<390	n/a	n/a
Hexachloroethane	<36	<74	<39	<39	n/a	n/a
Indeno(1,2,3-cd)pyrene	86	86	<39	<39	5,600	500
Isophorone	<360	<740	<390	<390	n/a	n/a
Naphthalene	<360	<740	<390	<390	500,000	12,000
Nitrobenzene	<36	<74	<39	<39	n/a	n/a
N-Nitrosodi-N-Propylamine	<36	<74	<39	<39	n/a	n/a
N-Nitrosodiphenylamine	<360	<740	<390	<390	n/a	n/a
o-cresol	<360	<740	<390	<390	500,000	330
p-cresol	<360	<740	<390	<390	500,000	330
Pentachlorophenol	<720	<1500	<790	<800	6,700	800
Phenanthrene	270 J	150 J	<390	<390	500,000	100,000
Phenol (total)	<360	<740	<390	<390	500,000	330
Pyrene	410	250 J	<390	<390	500,000	100,000
2,6,10,14-Tetramethyl pentadecane (TIC)	n/a	1200 JN !	n/a	n/a	n/a	n/a
2,6,10,14-Tetramethylhexadecane (TIC)	n/a	820 JN !	n/a	n/a	n/a	n/a
Calculated Total SVOC's	3,162	3,346	<22936	<22979	n/a	n/a

Notes:
n/a - not applicable / not analyzed
B - Analyte was detected in associated lab blank
J - Indicates an estimated value below laboratory reporting limits
N - Indicates the presumptive evidence of a compound
! - Indicates parameter/value was reported as a Tentatively Identified Compound (TIC)
[a] - 6 NYCRR 375-6.8 (a, b)

Fairchild Republic Aircraft; Old Sump
Route 110 (Broad Hollow Road)
East Farmingdale, NY
Site No. 152004

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Soil Analytical Results (mg/Kg)
TestAmerica, Inc.
Methods: SW6010C, SW7471B

Location	P-06	P-08	P-27	P-33	Soil Cleanup Objectives[a]	
Depth (ft BGS)	28-32	28-32	28-32	28-32	Commercial	Unrestricted
Date Collected	6/27/2014	6/24/2014	6/20/2014	6/25/2014		
Time Collected	2:08 PM	10:13 AM	10:38 AM	2:10 PM		
Aluminum	3,020	709	674	763	n/a	n/a
Antimony	<3.8	<4.5	<3.5	<4.1	n/a	n/a
Arsenic	1.1 J	<3.4	<2.6	<3.1	16	13
Barium	10.9 J	4.3 J	4 J	3.5 J	400	350
Beryllium	<0.38	<0.45	<0.35	<0.41	590	7.2
Cadmium	0.37 J	1.7	<0.7	<0.82	9.3	2.5
Calcium	612 J	135 J	<871	<1020	n/a	n/a
Chromium (total)	62.7	37.3	5.7	5	1,500[b]	30[b]
Cobalt	1.5 J	<11.3	<8.7	<10.2	n/a	n/a
Copper	7.1	2.1 J	<4.4	<5.1	270	50
Iron	5,430	1,310	1,840	1,720	n/a	n/a
Lead	7.7	3.8	0.75 J	<2	1,000	63
Magnesium	502 J	99.8 J	128 J	158 J	n/a	n/a
Manganese	73.1	16.6	9.2	11.9	10,000	1,600
Mercury	0.03	0.03	<0.019	<0.019	2.8	0.18
Nickel	3.1 J	<9	<7	<8.2	310	30
Potassium	173 J	41.7 J	68.9 J	81.4 J	n/a	n/a
Selenium	<3.8	<4.5	<3.5	<4.1	1,500	3.9
Silver	0.57 J	1 J	<1.7	<2	1,500	2
Sodium	<953	<1130	<871	<1020	n/a	n/a
Thallium	<3.8	<4.5	<3.5	<4.1	n/a	n/a
Vanadium	6.7 J	1.7 J	2.2 J	2.1 J	n/a	n/a
Zinc	26.6	18.2	8.1	7.8	10,000	109

Notes:
n/a - not applicable / not analyzed
J - Indicates an estimated value below laboratory reporting limits
[a] - 6 NYCRR 375-6.8 (a, b)
[b] - SCO's for trivalent chromium are presented
- value exceeds 6 NYCRR 375-6.8 (a,b) unrestricted use SCO

Fairchild Republic Aircraft; Old Sump
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Site No. 152004

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8081B

Location	P-06	P-08	P-27	P-33	Soil Cleanup Objectives[a]	
Depth (ft BGS)	28-32	28-32	28-32	28-32	Commercial	Unrestricted
Date Collected	6/27/2014	6/24/2014	6/20/2014	6/25/2014		
Time Collected	2:08 PM	10:13 AM	10:38 AM	2:10 PM		
4,4,-DDT	<7.2	<7.5	<7.9	<8	47,000	3.3
4,4-DDD	<7.2	<7.5	<7.9	<8	92,000	3.3
4,4-DDE	<7.2	<7.5	<7.9	<8	62,000	3.3
a BHC	<7.2	<7.5	<7.9	<8	3,400	20
Aldrin	<7.2	<7.5	<7.9	<8	680	5
b BHC	<7.2	<7.5	<7.9	<8	3,000	36
Chlordane	<72	<75	<79	<80	n/a	n/a
delta-BHC	<7.2	<7.5	<7.9	<8	500,000	40
Dieldrin	<7.2	<7.5	<7.9	<8	1,400	5
Endosulfan I	<7.2	<7.5	<7.9	<8	200,000	2,400
Endosulfan II	<7.2	<7.5	<7.9	<8	200,000	2,400
Endosulfan Sulfate	<7.2	<7.5	<7.9	<8	200,000	2,400
Endrin	<7.2	<7.5	<7.9	<8	89,000	14
Endrin Aldehyde	<7.2	<7.5	<7.9	<8	n/a	n/a
Endrin ketone	<7.2	<7.5	<7.9	<8	n/a	n/a
Gamma-BHC(Lindane)	<7.2	<7.5	<7.9	<8	9,200	100
Heptachlor	<7.2	<7.5	<7.9	<8	15,000	42
Heptachlor Epoxide	<7.2	<7.5	<7.9	<8	n/a	n/a
Methoxychlor	<7.2	<7.5	<7.9	<8	n/a	n/a
Toxaphene	<72	<75	<79	<80	n/a	n/a

Notes:
n/a - not applicable / not analyzed
[a] - 6 NYCRR 375-6.8 (a, b)

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8082A

Location	BUD-01		BUD-02		BUD-03		Soil Cleanup Objectives[a]	
Depth (ft BGS)	14-18	18-22	14-18	18-22	14-18	22-26	Commercial	Unrestricted
Date Collected	6/26/2014	6/26/2014	6/26/2014	6/26/2014	6/26/2014	6/26/2014		
Time Collected	8:09 AM	8:19 AM	9:13 AM	9:25 AM	9:45 AM	10:22 AM		
Aroclor 1016	<72	<69	<70	<70	<69	<71	n/a	n/a
Aroclor 1221	<72	<69	<70	<70	<69	<71	n/a	n/a
Aroclor 1232	<72	<69	<70	<70	<69	<71	n/a	n/a
Aroclor 1242	<72	<69	<70	<70	<69	<71	n/a	n/a
Aroclor 1248	<72	<69	<70	<70	<69	<71	n/a	n/a
Aroclor 1254	<72	<69	<70	<70	<69	<71	n/a	n/a
Aroclor 1260	<72	<69	<70	<70	<69	<71	n/a	n/a
Aroclor 1262	<72	<69	<70	<70	<69	<71	n/a	n/a
Aroclor 1268	<72	<69	<70	<70	<69	<71	n/a	n/a
Polychlorinated biphenyls (total)	<72	<69	<70	<70	<69	<71	**1,000**	**100**

Notes:
n/a - not applicable / not analyzed
[a] - 6 NYCRR 375-6.8 (a, b)

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8260C

Location	BUD-01		BUD-02		BUD-03		Soil Cleanup Objectives[a]	
Depth (ft BGS)	14-18	18-22	14-18	18-22	14-18	22-26	Commercial	Unrestricted
Date Collected	6/26/2014	6/26/2014	6/26/2014	6/26/2014	6/26/2014	6/26/2014		
Time Collected	8:09 AM	8:19 AM	9:13 AM	9:25 AM	9:45 AM	10:22 AM		
1,1 Dichloroethane	<1.1	<0.92	<0.98	<0.89	<0.92	<1	240,000	270
1,1 Dichloroethene	<1.1	<0.92	<0.98	<0.89	<0.92	<1	500,000	330
1,1,1 Trichloroethane	<1.1	<0.92	<0.98	<0.89	<0.92	<1	500,000	680
1,1,2 Trichloroethane	<1.1	<0.92	<0.98	<0.89	<0.92	<1	n/a	n/a
1,1,2,2 Tetrachloroethane	<1.1	<0.92	<0.98	<0.89	<0.92	<1	n/a	n/a
1,2 Dibromoethane	<1.1	<0.92	<0.98	<0.89	<0.92	<1	n/a	n/a
1,2 Dichlorobenzene	<1.1	<0.92	<0.98	<0.89	<0.92	<1	500,000	1,100
1,2 Dichloroethane	<1.1	<0.92	<0.98	<0.89	<0.92	<1	30,000	20
1,2 Dichloropropane	<1.1	<0.92	<0.98	<0.89	<0.92	<1	n/a	n/a
1,2,3 Trichlorobenzene	<1.1	<0.92	<0.98	<0.89	<0.92	<1	n/a	n/a
1,2,4 Trichlorobenzene	<1.1	<0.92	<0.98	<0.89	<0.92	<1	n/a	n/a
1,3 Dichlorobenzene	<1.1	<0.92	<0.98	<0.89	<0.92	<1	280,000	2,400
1,4 Dichlorobenzene	<1.1	<0.92	<0.98	<0.89	<0.92	<1	130,000	1,800
1,4-Dioxane	<21	<18	<20	<18	<18	<20	130,000	100
2-Hexanone	<5.3	<4.6	<4.9	<4.5	<4.6	<5	n/a	n/a
4-Methyl-2-Pentanone	<5.3	<4.6	<4.9	<4.5	<4.6	<5	n/a	n/a
Acetone	48	11	27	35	16	26	500,000	50
Benzene	1.7	<0.92	<0.98	1.1	<0.92	<1	44,000	60
Bromochloromethane	<1.1	<0.92	<0.98	<0.89	<0.92	<1	n/a	n/a
Bromodichloromethane	<1.1	<0.92	<0.98	<0.89	<0.92	<1	n/a	n/a
Bromoform	<1.1	<0.92	<0.98	<0.89	<0.92	<1	n/a	n/a
Bromomethane	<1.1	<0.92	<0.98	<0.89	<0.92	<1	n/a	n/a
c 1,3 Dichloropropene	<1.1	<0.92	<0.98	<0.89	<0.92	<1	n/a	n/a
Carbon Disulfide	5.1	<0.92	<0.98	2.9	0.5 J	0.38 J	n/a	n/a
Carbon Tetrachloride	<1.1	<0.92	<0.98	<0.89	<0.92	<1	22,000	760
Chlorobenzene	<1.1	<0.92	<0.98	<0.89	<0.92	<1	500,000	1,100
Chloroethane	<1.1	<0.92	<0.98	<0.89	<0.92	<1	n/a	n/a
Chloroform	<1.1	<0.92	<0.98	<0.89	<0.92	<1	350,000	370
Chloromethane	<1.1	<0.92	<0.98	<0.89	<0.92	<1	n/a	n/a
cis-1,2-Dichloroethene	0.26 J	<0.92	0.18 J	<0.89	<0.92	<1	500,000	250
Cyclohexane	3.5	<0.92	<0.98	2	<0.92	<1	n/a	n/a
Cyclohexane, methyl-	8.4	<0.92	0.2 J	3	0.32 J	<1	n/a	n/a
Dibromochloromethane	<1.1	<0.92	<0.98	<0.89	<0.92	<1	n/a	n/a
Dibromochloropropane	<1.1	<0.92	<0.98	<0.89	<0.92	<1	n/a	n/a
Dichlorodifluoromethane	<1.1	<0.92	<0.98	<0.89	<0.92	<1	n/a	n/a
Ethylbenzene	3.1	<0.92	<0.98	3.6	0.87 J	<1	390,000	1,000
Freon 113	<1.1	<0.92	<0.98	<0.89	<0.92	<1	n/a	n/a
Isopropylbenzene	3.8	<0.92	<0.98	2.4	0.34 J	<1	n/a	n/a
m + p Xylene	3.3	<0.92	<0.98	8.2	2.3	<1	n/a	n/a
Methyl acetate	<5.3	<4.6	<4.9	<4.5	<4.6	<5	n/a	n/a
Methyl Ethyl Ketone	8.1	0.98 J	3.5 J	5.5	1.8 J	3.7 J	500,000	120
Methylene Chloride	0.89 BJ	1.3	1.2	1.2	1.2	1.3	500,000	50
o-Xylene	1.3	<0.92	<0.98	5.1	1.5	0.29 J	n/a	n/a
Styrene	<1.1	<0.92	<0.98	<0.89	<0.92	<1	n/a	n/a
t 1,3 Dichloropropene	<1.1	<0.92	<0.98	<0.89	<0.92	<1	n/a	n/a
t butylmethylether	2.7	0.13 J	1.1	2.3	0.27 J	1.7	500,000	930
Tetrachloroethene	<1.1	<0.92	<0.98	<0.89	<0.92	<1	150,000	1,300
Toluene	0.77 J	<0.92	0.14 J	3.3	0.49 J	0.15 J	500,000	700
trans-1,2-Dichloroethene	<1.1	<0.92	0.26 J	<0.89	<0.92	<1	500,000	190
Trichloroethylene	0.18 J	<0.92	1.4	<0.89	<0.92	<1	200,000	470
Trichlorofluoromethane	<1.1	<0.92	<0.98	<0.89	<0.92	<1	n/a	n/a
Vinyl Chloride	<1.1	<0.92	<0.98	<0.89	<0.92	<1	13,000	20

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Site No. 152004

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8260C

Location	BUD-01		BUD-02		BUD-03		Soil Cleanup Objectives[a]	
Depth (ft BGS)	14-18	18-22	14-18	18-22	14-18	22-26	Commercial	Unrestricted
Date Collected	6/26/2014	6/26/2014	6/26/2014	6/26/2014	6/26/2014	6/26/2014		
Time Collected	8:09 AM	8:19 AM	9:13 AM	9:25 AM	9:45 AM	10:22 AM		
1,2,3-trimethyl-benzene (TIC)	n/a	n/a	n/a	49 JN !	10 JN !	n/a	n/a	n/a
1,2,4 Trimethylbenzene (TIC)	60 JN !	n/a	n/a	n/a	n/a	n/a	190,000	3,600
1,2,4,5 Tetramethylbenzene (TIC)	33 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1,7-dimethyl napthalene (TIC)	n/a	n/a	n/a	n/a	5.3 JN !	n/a	n/a	n/a
1-ethenyl-3-ethylbenzene (TIC)	32 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1-ethenyl-4-ethylbenzene (TIC)	n/a	n/a	n/a	17 JN !	n/a	n/a	n/a	n/a
1-methyl-3(1-meth)-benzene (TIC)	n/a	n/a	n/a	n/a	4.7 JN !	n/a	n/a	n/a
1-Methylnaphthalene (TIC)	29 JN !	n/a	9 JN !	22 JN !	4.6 JN !	n/a	n/a	n/a
2,3 dihydro-1H-Indene (TIC)	n/a	n/a	n/a	18 JN !	n/a	n/a	n/a	n/a
2,3 Dihydro-1-methyl-1H-Indene (TIC)	70 JN !	n/a	n/a	45 JN !	9.6 JN !	n/a	n/a	n/a
2-ethyl-1,3-dimethyl-Benzene (TIC)	n/a	n/a	n/a	22 JN !	n/a	n/a	n/a	n/a
2-Methylnaphthalene (TIC)	47 JN !	n/a	10 JN !	42 JN !	9.1 JN !	n/a	n/a	n/a
5-Methyl-1,2,3,4-Tetrahydronapthalene (TIC)	n/a	n/a	n/a	38 JN !	7 JN !	n/a	n/a	n/a
6-Methyl-1,2,3,4-Tetrahydronapthalene (TIC)	51 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Benzene, 1-ethyl-2,4-dimethyl- (TIC)	43 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Naphthalene (TIC)	n/a	n/a	29 JN !	17 JN !	n/a	n/a	500,000	12,000
Naphthalene, 1,2,3,4-tetrahydro- (TIC)	44 JN !	n/a	n/a	33 JN !	6.4 JN !	n/a	n/a	n/a
Unknown volatile organic with highest conc. (TIC)	30 J !	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Calculated								
Total VOC's (including TIC's)	530.1	13.41	82.98	378.6	82.29	33.52	n/a	n/a
Total BTEX	10.17	<4.6	0.14 J	21.3	5.16	0.44 J	n/a	n/a
Total Xylenes	4.6	<1.84	<1.96	13.3	3.8	0.29 J	500,000	260

Notes:
n/a - not applicable / not analyzed
B - Analyte was detected in associated lab blank
J - Indicates an estimated value below laboratory reporting limits
N - Indicates the presumptive evidence of a compound
! - Indicates parameter/value was reported as a Tentatively Identified Compound (TIC)
[a] - 6 NYCRR 375-6.8 (a, b)

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8270D

Location	BUD-01		BUD-02		BUD-03		Soil Cleanup Objectives[a]	
Depth (ft BGS)	14-18	18-22	14-18	18-22	14-18	22-26	Commercial	Unrestricted
Date Collected	6/26/2014	6/26/2014	6/26/2014	6/26/2014	6/26/2014	6/26/2014		
Time Collected	8:09 AM	8:19 AM	9:13 AM	9:25 AM	9:45 AM	10:22 AM		
1,1-Biphenyl	100 J	<340	<690	<350	<340	<350	n/a	n/a
1,2,4,5-Tetrachlorobenzene	<350	<340	<690	<350	<340	<350	n/a	n/a
2,3,4,6-Tetrachlorophenol	<350	<340	<690	<350	<340	<350	n/a	n/a
2,4,5-Trichlorophenol	<350	<340	<690	<350	<340	<350	n/a	n/a
2,4,6-Trichlorophenol	<350	<340	<690	<350	<340	<350	n/a	n/a
2,4-Dichlorophenol	<350	<340	<690	<350	<340	<350	n/a	n/a
2,4-Dimethylphenol	<350	<340	<690	<350	<340	<350	n/a	n/a
2,4-Dinitrophenol	<720	<690	<1400	<700	<690	<710	n/a	n/a
2,4-Dinitrotoluene	<72	<69	<140	<70	<69	<71	n/a	n/a
2,6-Dinitrotoluene	<72	<69	<140	<70	<69	<71	n/a	n/a
2-Chloronaphthalene	<350	<340	<690	<350	<340	<350	n/a	n/a
2-Chlorophenol	<350	<340	<690	<350	<340	<350	n/a	n/a
2-Methyl-4,6-dinitrophenol	<720	<690	<1400	<700	<690	<710	n/a	n/a
2-Methylnaphthalene	430	<340	<690	140 J	<340	<350	n/a	n/a
2-Nitroaniline	<350	<340	<690	<350	<340	<350	n/a	n/a
2-Nitrophenol	<350	<340	<690	<350	<340	<350	n/a	n/a
3,3-Dichlorobenzidine	<350	<340	<690	<350	<340	<350	n/a	n/a
3-Nitroaniline	<350	<340	<690	<350	<340	<350	n/a	n/a
P27	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Bromophenyl-phenylether	<350	<340	<690	<350	<340	<350	n/a	n/a
4-Chloro-3-methylphenol	<350	<340	<690	<350	<340	<350	n/a	n/a
4-Chloroaniline	<350	<340	<690	<350	<340	<350	n/a	n/a
4-Chlorophenyl-phenylether	<350	<340	<690	<350	<340	<350	n/a	n/a
4-Nitroaniline	<720	<690	<1400	<700	<690	<710	n/a	n/a
4-Nitrophenol	<350	<340	<690	<350	<340	<350	n/a	n/a
Acenaphthene	380	<340	270 J	61 J	<340	<350	500,000	20,000
Acenaphthylene	120 J	<340	<690	<350	<340	<350	500,000	100,000
Acetophenone	<350	<340	<690	<350	<340	<350	n/a	n/a
Anthracene	890	<340	2,400	150 J	<340	<350	500,000	100,000
Atrazine	<350	<340	<690	<350	<340	<350	n/a	n/a
Benzaldehyde	<350	<340	<690	<350	<340	<350	n/a	n/a
Benzo(a)anthracene	1,600	110	5,400	300	120	69	5,600	1,000
Benzo(a)pyrene	1,500	110	4,500	290	100	52	1,000	1,000
Benzo(b)fluoranthene	2,200	130	5,400	400	130	74	5,600	1,000
Benzo(g,h,i)perylene	420	98 J	1,500	87 J	65 J	44 J	500,000	100,000
Benzo(k)fluoranthene	890	49	2,300	170	50	29 J	56,000	800
bis(2-Chloroethoxy)methane	<350	<340	<690	<350	<340	<350	n/a	n/a
bis(2-Chloroethyl)ether	<35	<34	<69	<35	<34	<35	n/a	n/a
bis(2-Chloroisopropyl)ether	<350	<340	<690	<350	<340	<350	n/a	n/a
bis(2-Ethylhexyl)phthalate	<350	<340	<690	280 J	<340	<350	n/a	n/a
Butylbenzylphthalate	430	<340	<690	<350	<340	<350	n/a	n/a
Caprolactam	<350	<340	<690	<350	<340	<350	n/a	n/a
Carbazole	410	<340	420 J	68 J	<340	<350	n/a	n/a
Chrysene	1,600	110 J	4,900	320 J	120 J	63 J	56,000	1,000
Dibenzo(a,h)anthracene	160	39	580	36	29 J	25 J	560	330
Dibenzofuran	330 J	<340	210 J	59 J	<340	<350	350,000	7,000
Diethylphthalate	<350	<340	<690	<350	<340	<350	n/a	n/a
Dimethylphthalate	<350	<340	<690	<350	<340	<350	n/a	n/a
Di-n-butylphthalate	47 J	<340	<690	<350	<340	<350	n/a	n/a
Di-n-octylphthalate	<350	<340	<690	<350	<340	<350	n/a	n/a
Fluoranthene	4,700	160 J	12,000	670	140 J	100 J	500,000	100,000
Fluorene	700	<340	600 J	140 J	<340	<350	500,000	30,000
Hexachlorobenzene	<35	<34	<69	<35	<34	<35	6,000	330
Hexachlorobutadiene	<72	<69	<140	<70	<69	<71	n/a	n/a
Hexachlorocyclopentadiene	<350	<340	<690	<350	<340	<350	n/a	n/a
Hexachloroethane	<35	<34	<69	<35	<34	<35	n/a	n/a
Indeno(1,2,3-cd)pyrene	500	110	1,900	110	83	57	5,600	500
Isophorone	150 J	<340	<690	<350	<340	<350	n/a	n/a
Naphthalene	110 J	<340	93 J	<350	<340	<350	500,000	12,000
Nitrobenzene	<35	<34	<69	<35	<34	<35	n/a	n/a
N-Nitrosodi-N-Propylamine	<35	<34	<69	<35	<34	<35	n/a	n/a
N-Nitrosodiphenylamine	<350	<340	<690	<350	<340	<350	n/a	n/a
o-cresol	<350	<340	<690	<350	<340	<350	500,000	330

Fairchild Republic Aircraft; Old Sump
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Site No. 152004

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8270D

Location	BUD-01		BUD-02		BUD-03		Soil Cleanup Objectives[a]	
Depth (ft BGS)	14-18	18-22	14-18	18-22	14-18	22-26	Commercial	Unrestricted
Date Collected	6/26/2014	6/26/2014	6/26/2014	6/26/2014	6/26/2014	6/26/2014		
Time Collected	8:09 AM	8:19 AM	9:13 AM	9:25 AM	9:45 AM	10:22 AM		
p-cresol	<350	<340	<690	<350	<340	<350	500,000	330
Pentachlorophenol	<720	<690	<1400	<700	<690	<710	6,700	800
Phenanthrene	4,000	96 J	7,400	670	78 J	47 J	500,000	100,000
Phenol (total)	<350	<340	<690	<350	<340	<350	500,000	330
Pyrene	2,400	230 J	7,100	390	200 J	130 J	500,000	100,000
10,18-bisnorabieta-5,7,9(10),11,13-penta (TIC)	n/a	n/a	n/a	1200 JN !	n/a	n/a	n/a	n/a
11H-benzo[B]fluorine (TIC)	n/a	n/a	730 JN !	n/a	n/a	n/a	n/a	n/a
1-methylfluorene (TIC)	1400 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2,6,11-Trimethyldodecane (TIC)	n/a	n/a	n/a	1300 JN !	n/a	n/a	n/a	n/a
2,6,8-trimethyl-decane (TIC)	1900 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2,7-dimethyl napthalene (TIC)	n/a	n/a	n/a	480 JN !	n/a	n/a	n/a	n/a
3-methyl-4-(methoxycarbonyl)hexa-2,4-die (TIC)	1100 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4H-cyclopenta[def]phenanthrene (TIC)	n/a	n/a	2000 JN !	n/a	n/a	n/a	n/a	n/a
5-propyltridecane (TIC)	4600 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a
9H-fluorene, 3-methyl- (TIC)	n/a	n/a	n/a	630 JN !	n/a	n/a	n/a	n/a
Benzo[E]pyrene (TIC)	1100 JN !	n/a	1000 JN !	n/a	n/a	n/a	n/a	n/a
Dodecane (TIC)	n/a	n/a	n/a	430 JN !	n/a	n/a	n/a	n/a
Fluoranthene, 2-methyl- (TIC)	n/a	n/a	640 JN !	n/a	n/a	n/a	n/a	n/a
Heptadecane, 2,6,10,14-tetramethyl- (TIC)	1500 JN !	n/a	n/a	520 JN !	n/a	n/a	n/a	n/a
Heptadecane, 2,6-dimethyl- (TIC)	n/a	n/a	n/a	2700 JN !	n/a	n/a	n/a	n/a
Methylanthracene, 2- (TIC)	1300 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Napthalene, 1,6-dimethyl- (TIC)	1100 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Naphthalene, 2,3-dimethyl- (TIC)	1100 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a
N-hexadecane (TIC)	n/a	n/a	n/a	580 JN !	n/a	n/a	n/a	n/a
Phenanthrene, 2,5-dimethyl- (TIC)	1200 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Tridecane (TIC)	1100 JN !	n/a	n/a	770 JN !	n/a	n/a	n/a	n/a
Undecane (TIC)	2400 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Uknown semivolatile with 2nd highest conc. (TIC)	1500 J !	n/a	n/a	540 J !	n/a	n/a	n/a	n/a
Uknown semivolatile with 3rd highest conc. (TIC)	1400 J !	n/a	n/a	520 J !	n/a	n/a	n/a	n/a
Uknown semivolatile with 4th highest conc. (TIC)	1200 J !	n/a	n/a	480 J !	n/a	n/a	n/a	n/a
Uknown semivolatile with 5th highest conc. (TIC)	1200 J !	n/a	n/a	460 J !	n/a	n/a	n/a	n/a
Uknown semivolatile with 6th highest conc. (TIC)	1100 J !	n/a	n/a	450 J !	n/a	n/a	n/a	n/a
Uknown semivolatile with 7th highest conc. (TIC)	1000 J !	n/a	n/a	450 J !	n/a	n/a	n/a	n/a
Unknown semivolatile with highest conc. (TIC)	2100 J !	n/a	n/a	610 J !	340 J !	n/a	n/a	n/a
Z-2-tridecen-1-OL (TIC)	n/a	n/a	n/a	1100 JN !	n/a	n/a	n/a	n/a
Calculated Total SVOC's (including TIC's)	54,567	1,242	61,343	18,361	1,455	690	n/a	n/a

Notes:
n/a - not applicable / not analyzed
B - Analyte was detected in associated lab blank
J - Indicates an estimated value below laboratory reporting limits
N - Indicates the presumptive evidence of a compound
! - Indicates parameter/value was reported as a Tentatively Identified Compound (TIC)
[a] - 6 NYCRR 375-6.8 (a, b)
- value exceeds 6 NYCRR 375-6.8 (a,b) unrestricted use SCO
- value exceeds both 6 NYCRR 375-6.8 (a,b) commercial and unrestricted use SCO's

Fairchild Republic Aircraft; Old Sump
Route 110 (Broad Hollow Road)
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Site No. 152004

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Soil Analytical Results (mg/Kg)
TestAmerica, Inc.
Methods: SW6010C, SW7471B

Location	BUD-01		BUD-02		BUD-03		Soil Cleanup Objectives[a]	
Depth (ft BGS)	14-18	18-22	14-18	18-22	14-18	22-26	Commercial	Unrestricted
Date Collected	6/26/2014	6/26/2014	6/26/2014	6/26/2014	6/26/2014	6/26/2014		
Time Collected	8:09 AM	8:19 AM	9:13 AM	9:25 AM	9:45 AM	10:22 AM		
Aluminum	5,050	2,710	2,450	2,260	1,890	2,880	n/a	n/a
Antimony	<3.1	<3.7	<3.5	<3.1	<3.3	<2.9	n/a	n/a
Arsenic	4.3	2.1 J	1.5 J	1.1 J	0.76 J	1 J	16	13
Barium	88.3	16.2 J	15.7 J	16.4 J	9.9 J	9.8 J	400	350
Beryllium	0.21 J	<0.37	<0.35	<0.31	<0.33	<0.29	590	7.2
Cadmium	<0.63	<0.74	<0.7	<0.62	<0.66	<0.59	9.3	2.5
Calcium	27,800	608 J	5,840	2,390	4,020	890	n/a	n/a
Chromium (total)	33.3	6.8	7.1	13.4	4.9	9.2	1,500[b]	30[b]
Cobalt	2.7 J	2.6 J	1.4 J	1.5 J	1.1 J	1.7 J	n/a	n/a
Copper	33.6	5.3	4.5	6.2	3.1 J	3.2 J	270	50
Iron	10,200	15,500	6,640	4,790	4,100	6,030	n/a	n/a
Lead	78.4	5.4	14.5	10	7.5	4.3	1,000	63
Magnesium	3,360	499 J	2,340	1,090	599 J	518 J	n/a	n/a
Manganese	143	354	93.2	64.2	74	88.1	10,000	1,600
Mercury	<0.018	0.11	0.03	0.02	0.08	<0.017	2.8	0.18
Nickel	14.5	4.1 J	2.8 J	3.9 J	2.3 J	2.9 J	310	30
Potassium	570 J	184 J	175 J	217 J	187 J	186 J	n/a	n/a
Selenium	<3.1	<3.7	<3.5	<3.1	<3.3	<2.9	1,500	3.9
Silver	<1.6	<1.8	<1.8	<1.5	<1.6	<1.5	1,500	2
Sodium	142 J	<924	<880	<773	<824	<736	n/a	n/a
Thallium	<3.1	<3.7	<3.5	<3.1	<3.3	<2.9	n/a	n/a
Vanadium	45.5	7.2 J	5.7 J	8.9	4.2 J	5.7 J	n/a	n/a
Zinc	128	14.3	20.6	17.7	10.9	11.2	10,000	109

Notes:
n/a - not applicable / not analyzed
J - Indicates an estimated value below laboratory reporting limits
[a] - 6 NYCRR 375-6.8 (a, b)
[b] - SCO's for trivalent chromium are presented
- value exceeds 6 NYCRR 375-6.8 (a,b) unrestricted use SCO

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8081B

Location	BUD-01		BUD-02		BUD-03		Soil Cleanup Objectives[a]	
Depth (ft BGS)	14-18	18-22	14-18	18-22	14-18	22-26	Commercial	Unrestricted
Date Collected	6/26/2014	6/26/2014	6/26/2014	6/26/2014	6/26/2014	6/26/2014		
Time Collected	8:09 AM	8:19 AM	9:13 AM	9:25 AM	9:45 AM	10:22 AM		
4,4,-DDT	<7.2	<6.9	<7	<7	<6.9	<7.1	47,000	3.3
4,4-DDD	<7.2	<6.9	<7	<7	<6.9	<7.1	92,000	3.3
4,4-DDE	<7.2	<6.9	<7	<7	<6.9	<7.1	62,000	3.3
a BHC	<7.2	<6.9	<7	<7	<6.9	<7.1	3,400	20
Aldrin	<7.2	<6.9	<7	<7	<6.9	<7.1	680	5
b BHC	<7.2	<6.9	<7	<7	<6.9	<7.1	3,000	36
Chlordane	<72	<69	<70	<70	<69	<71	n/a	n/a
delta-BHC	<7.2	<6.9	<7	<7	<6.9	<7.1	500,000	40
Dieldrin	<7.2	<6.9	<7	<7	<6.9	<7.1	1,400	5
Endosulfan I	<7.2	<6.9	<7	<7	<6.9	<7.1	200,000	2,400
Endosulfan II	<7.2	<6.9	<7	<7	<6.9	<7.1	200,000	2,400
Endosulfan Sulfate	<7.2	<6.9	<7	<7	<6.9	<7.1	200,000	2,400
Endrin	<7.2	<6.9	<7	<7	<6.9	<7.1	89,000	14
Endrin Aldehyde	<7.2	<6.9	<7	<7	<6.9	<7.1	n/a	n/a
Endrin ketone	<7.2	<6.9	<7	<7	<6.9	<7.1	n/a	n/a
Gamma-BHC(Lindane)	<7.2	<6.9	<7	<7	<6.9	<7.1	9,200	100
Heptachlor	<7.2	<6.9	<7	<7	<6.9	<7.1	15,000	42
Heptachlor Epoxide	<7.2	<6.9	<7	<7	<6.9	<7.1	n/a	n/a
Methoxychlor	<7.2	<6.9	<7	<7	<6.9	<7.1	n/a	n/a
Toxaphene	<72	<69	<70	<70	<69	<71	n/a	n/a

Notes:
n/a - not applicable / not analyzed
[a] - 6 NYCRR 375-6.8 (a, b)

Fairchild Republic Aircraft; Old Sump
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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8082A

Location	CR-5	CR-10	CR-11	Soil Cleanup Objectives[a]	
Depth (ft BGS)	0-1	0-1	24-29	Commercial	Unrestricted
Date Collected	7/15/2014	7/15/2014	6/18/2014		
Time Collected	9:56 AM	8:35 AM	8:46 AM		
Aroclor 1016	<70	<71	<77	n/a	n/a
Aroclor 1221	<70	<71	<77	n/a	n/a
Aroclor 1232	<70	<71	<77	n/a	n/a
Aroclor 1242	<70	<71	<77	n/a	n/a
Aroclor 1248	<70	<71	<77	n/a	n/a
Aroclor 1254	<70	<71	<77	n/a	n/a
Aroclor 1260	<70	<71	<77	n/a	n/a
Aroclor 1262	<70	<71	<77	n/a	n/a
Aroclor 1268	<70	<71	<77	n/a	n/a
Polychlorinated biphenyls (total)	<70	<71	<77	**1,000**	**100**

Notes:
n/a - not applicable / not analyzed
[a] - 6 NYCRR 375-6.8 (a, b)

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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8260C

Location	CR-5	CR-10	CR-11	Soil Cleanup Objectives[a]	
Depth (ft BGS)	0-1	0-1	24-29	Commercial	Unrestricted
Date Collected	7/15/2014	7/15/2014	6/18/2014		
Time Collected	9:56 AM	8:35 AM	8:46 AM		
1,1 Dichloroethane	<1.1	<1	<1.1	240,000	270
1,1 Dichloroethene	<1.1	<1	<1.1	500,000	330
1,1,1 Trichloroethane	<1.1	<1	<1.1	500,000	680
1,1,2 Trichloroethane	<1.1	<1	<1.1	n/a	n/a
1,1,2,2 Tetrachloroethane	<1.1	<1	<1.1	n/a	n/a
1,2 Dibromoethane	<1.1	<1	<1.1	n/a	n/a
1,2 Dichlorobenzene	<1.1	<1	0.24 J	500,000	1,100
1,2 Dichloroethane	<1.1	<1	<1.1	30,000	20
1,2 Dichloropropane	<1.1	<1	<1.1	n/a	n/a
1,2,3 Trichlorobenzene	<1.1	<1	<1.1	n/a	n/a
1,2,4 Trichlorobenzene	<1.1	<1	<1.1	n/a	n/a
1,3 Dichlorobenzene	<1.1	<1	<1.1	280,000	2,400
1,4 Dichlorobenzene	<1.1	<1	<1.1	130,000	1,800
1,4-Dioxane	<22	<20	<21	130,000	100
2-Hexanone	<5.6	<5	<5.3	n/a	n/a
4-Methyl-2-Pentanone	<5.6	<5	<5.3	n/a	n/a
Acetone	15	10	68	500,000	50
Benzene	<1.1	<1	<1.1	44,000	60
Bromochloromethane	<1.1	<1	<1.1	n/a	n/a
Bromodichloromethane	<1.1	<1	<1.1	n/a	n/a
Bromoform	<1.1	<1	<1.1	n/a	n/a
Bromomethane	<1.1	<1	<1.1	n/a	n/a
c 1,3 Dichloropropene	<1.1	<1	<1.1	n/a	n/a
Carbon Disulfide	<1.1	<1	1.5	n/a	n/a
Carbon Tetrachloride	<1.1	<1	<1.1	22,000	760
Chlorobenzene	<1.1	<1	<1.1	500,000	1,100
Chloroethane	<1.1	<1	<1.1	n/a	n/a
Chloroform	<1.1	<1	<1.1	350,000	370
Chloromethane	<1.1	<1	<1.1	n/a	n/a
cis-1,2-Dichloroethene	<1.1	<1	<1.1	500,000	250
Cyclohexane	<1.1	<1	<1.1	n/a	n/a
Cyclohexane, methyl-	<1.1	<1	0.16 J	n/a	n/a
Dibromochloromethane	<1.1	<1	<1.1	n/a	n/a
Dibromochloropropane	<1.1	<1	<1.1	n/a	n/a
Dichlorodifluoromethane	<1.1	<1	<1.1	n/a	n/a
Ethylbenzene	<1.1	<1	<1.1	390,000	1,000
Freon 113	<1.1	<1	<1.1	n/a	n/a
Isopropylbenzene	<1.1	<1	<1.1	n/a	n/a
m + p Xylene	<1.1	<1	<1.1	n/a	n/a
Methyl acetate	<5.6	<5	<5.3	n/a	n/a
Methyl Ethyl Ketone	<5.6	<5	10	500,000	120
Methylene Chloride	<1.1	<1	0.65 BJ	500,000	50
o-Xylene	<1.1	<1	<1.1	n/a	n/a

Fairchild Republic Aircraft; Old Sump
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East Farmingdale, NY
Site No. 152004

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8260C

Location	CR-5	CR-10	CR-11	Soil Cleanup Objectives[a]	
Depth (ft BGS)	0-1	0-1	24-29	Commercial	Unrestricted
Date Collected	7/15/2014	7/15/2014	6/18/2014		
Time Collected	9:56 AM	8:35 AM	8:46 AM		
Styrene	<1.1	<1	<1.1	n/a	n/a
t 1,3 Dichloropropene	<1.1	<1	<1.1	n/a	n/a
t butylmethylether	<1.1	<1	<1.1	500,000	930
Tetrachloroethene	<1.1	<1	<1.1	150,000	1,300
Toluene	<1.1	<1	<1.1	500,000	700
trans-1,2-Dichloroethene	<1.1	<1	<1.1	500,000	190
Trichloroethylene	<1.1	<1	<1.1	200,000	470
Trichlorofluoromethane	<1.1	<1	<1.1	n/a	n/a
Vinyl Chloride	<1.1	<1	<1.1	13,000	20
1R-,alpha.-Pinene (TIC)	7.9 JN !	n/a	n/a	n/a	n/a
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene-, (1S)- (TIC)	6 JN !	n/a	n/a	n/a	n/a
D-Limonene (TIC)	11 JN !	n/a	n/a	n/a	n/a
Unknown volatile organic with highest conc. (TIC)	n/a	n/a	8.6 J !	n/a	n/a
Calculated					
Total VOC's (including TIC's)	39.9	10	89.15	n/a	n/a
Total BTEX	<5.5	<5	<5.5	n/a	n/a
Total Xylenes	<2.2	<2	<2.2	500,000	260

Notes:
n/a - not applicable / not analyzed
B - Analyte was detected in associated lab blank
J - Indicates an estimated value below laboratory reporting limits
N - Indicates the presumptive evidence of a compound
! - Indicates parameter/value was reported as a Tentatively Identified Compound (TIC)
[a] - 6 NYCRR 375-6.8 (a, b)
- value exceeds 6 NYCRR 375-6.8 (a,b) unrestricted use SCO

Fairchild Republic Aircraft; Old Sump
Route 110 (Broad Hollow Road)
East Farmingdale, NY
Site No. 152004

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8270D

Location	CR-5	CR-10	CR-11	Soil Cleanup Objectives[a]	
Depth (ft BGS)	0-1	0-1	24-29	Commercial	Unrestricted
Date Collected	7/15/2014	7/15/2014	6/18/2014		
Time Collected	9:56 AM	8:35 AM	8:46 AM		
1,1-Biphenyl	<350	<350	<380	n/a	n/a
1,2,4,5-Tetrachlorobenzene	<350	<350	<380	n/a	n/a
2,3,4,6-Tetrachlorophenol	<350	<350	<380	n/a	n/a
2,4,5-Trichlorophenol	<350	<350	<380	n/a	n/a
2,4,6-Trichlorophenol	<350	<350	<380	n/a	n/a
2,4-Dichlorophenol	<350	<350	<380	n/a	n/a
2,4-Dimethylphenol	<350	<350	<380	n/a	n/a
2,4-Dinitrophenol	<700	<710	<770	n/a	n/a
2,4-Dinitrotoluene	<70	<71	<77	n/a	n/a
2,6-Dinitrotoluene	<70	<71	<77	n/a	n/a
2-Chloronaphthalene	<350	<350	<380	n/a	n/a
2-Chlorophenol	<350	<350	<380	n/a	n/a
2-Methyl-4,6-dinitrophenol	<700	<710	<770	n/a	n/a
2-Methylnaphthalene	<350	<350	<380	n/a	n/a
2-Nitroaniline	<350	<350	<380	n/a	n/a
2-Nitrophenol	<350	<350	<380	n/a	n/a
3,3-Dichlorobenzidine	<350	<350	<380	n/a	n/a
3-Nitroaniline	<350	<350	<380	n/a	n/a
4-Bromophenyl-phenylether	<350	<350	<380	n/a	n/a
4-Chloro-3-methylphenol	<350	<350	<380	n/a	n/a
4-Chloroaniline	<350	<350	<380	n/a	n/a
4-Chlorophenyl-phenylether	<350	<350	<380	n/a	n/a
4-Nitroaniline	<700	<710	<770	n/a	n/a
4-Nitrophenol	<350	<350	<380	n/a	n/a
Acenaphthene	<350	<350	<380	500,000	20,000
Acenaphthylene	<350	<350	<380	500,000	100,000
Acetophenone	<350	<350	<380	n/a	n/a
Anthracene	<350	<350	71 J	500,000	100,000
Atrazine	<350	<350	<380	n/a	n/a
Benzaldehyde	<350	<350	<380	n/a	n/a
Benzo(a)anthracene	130	110	300	5,600	1,000
Benzo(a)pyrene	140	120	280	1,000	1,000
Benzo(b)fluoranthene	180	150	440	5,600	1,000
Benzo(g,h,i)perylene	140 J	61 J	98 J	500,000	100,000
Benzo(k)fluoranthene	74	66	160	56,000	800
bis(2-Chloroethoxy)methane	<350	<350	<380	n/a	n/a
bis(2-Chloroethyl)ether	<35	<35	<38	n/a	n/a
bis(2-Chloroisopropyl)ether	<350	<350	<380	n/a	n/a
bis(2-Ethylhexyl)phthalate	<350	<350	420	n/a	n/a
Butylbenzylphthalate	<350	<350	62 J	n/a	n/a
Caprolactam	<350	<350	<380	n/a	n/a
Carbazole	<350	<350	<380	n/a	n/a
Chrysene	160 J	130 J	330 J	56,000	1,000
Dibenzo(a,h)anthracene	49	40	45	560	330
Dibenzofuran	<350	<350	<380	350,000	7,000
Diethylphthalate	<350	<350	<380	n/a	n/a

Fairchild Republic Aircraft; Old Sump
Route 110 (Broad Hollow Road)
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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8270D

Location	CR-5	CR-10	CR-11	Soil Cleanup Objectives[a]	
Depth (ft BGS)	0-1	0-1	24-29	Commercial	Unrestricted
Date Collected	7/15/2014	7/15/2014	6/18/2014		
Time Collected	9:56 AM	8:35 AM	8:46 AM		
Dimethylphthalate	<350	<350	<380	n/a	n/a
Di-n-butylphthalate	<350	<350	54 J	n/a	n/a
Di-n-octylphthalate	<350	<350	<380	n/a	n/a
Fluoranthene	240 J	190 J	640	500,000	100,000
Fluorene	<350	<350	<380	500,000	30,000
Hexachlorobenzene	<35	<35	<38	6,000	330
Hexachlorobutadiene	<70	<71	<77	n/a	n/a
Hexachlorocyclopentadiene	<350	<350	<380	n/a	n/a
Hexachloroethane	<35	<35	<38	n/a	n/a
Indeno(1,2,3-cd)pyrene	170	95	130	5,600	500
Isophorone	<350	<350	<380	n/a	n/a
Naphthalene	<350	<350	<380	500,000	12,000
Nitrobenzene	<35	<35	<38	n/a	n/a
N-Nitrosodi-N-Propylamine	<35	<35	<38	n/a	n/a
N-Nitrosodiphenylamine	<350	<350	<380	n/a	n/a
o-cresol	<350	<350	<380	500,000	330
p-cresol	<350	<350	<380	500,000	330
Pentachlorophenol	<700	<710	<770	6,700	800
Phenanthrene	76 J	70 J	270 J	500,000	100,000
Phenol (total)	<350	<350	<380	500,000	330
Pyrene	170 J	140 J	360 J	500,000	100,000
17-Pentatriacontene 30.930 (TIC)	n/a	n/a	410 JN !	n/a	n/a
28-nor-17 beta (H)-hopane (TIC)	n/a	n/a	1100 JN !	n/a	n/a
Hexadecane, 1-chloro- (TIC)	n/a	n/a	410 JN !	n/a	n/a
Unknown semivolatile with 2nd highest conc. (TIC)	n/a	1200 J !	560 J !	n/a	n/a
Unknown semivolatile with 3rd highest conc. (TIC)	n/a	n/a	550 J !	n/a	n/a
Unknown semivolatile with 4th highest conc. (TIC)	n/a	n/a	470 J !	n/a	n/a
Unknown semivolatile with 5th highest conc. (TIC)	n/a	n/a	420 J !	n/a	n/a
Unknown semivolatile with highest conc. (TIC)	n/a	2900 J !	1400 J !	n/a	n/a
Calculated Total SVOC's	1,529	5,272	8,980	n/a	n/a

Notes:
n/a - not applicable / not analyzed
B - Analyte was detected in associated lab blank
J - Indicates an estimated value below laboratory reporting limits
N - Indicates the presumptive evidence of a compound
! - Indicates parameter/value was reported as a Tentatively Identified Compound (TIC)
[a] - 6 NYCRR 375-6.8 (a, b)

Fairchild Republic Aircraft; Old Sump
Route 110 (Broad Hollow Road)
East Farmingdale, NY
Site No. 152004

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Soil Analytical Results (mg/Kg)
TestAmerica, Inc.
Methods: SW6010C, SW7471B

Location	Depth (ft BGS)	Date Collected	Time Collected	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium (total)	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
CR-1	0-1	7/15/2014	11:30 AM	5,000	<4.4	3.3	42.6 J	<0.44	<0.88	6,380	12.3	2.4 J	20	8,100	45	2,100	121	0.11	6.4 J	263 J	<4.4	<2.2	<1100	<4.4	11.4	62
	surf	7/15/2014	11:29 AM	3,180	<4.3	1.9 J	18.4 J	<0.43	<0.86	3,820	18.7	1.7 J	8.4	5,770	25.6	2,200	82	0.07	4 J	191 J	<4.3	<2.1	<1070	<4.3	7.7 J	52.7
CR-2	0-1	7/15/2014	11:25 AM	2,790	<3.8	1.7 J	14 J	<0.38	<0.76	1,210	11	1.6 J	5.8	6,090	14.9	898 J	90.7	0.04	3 J	152 J	<3.8	<1.9	<953	<3.8	7.1 J	32.6
	surf	7/15/2014	11:24 AM	4,910	<4.6	4.9	68.5	<0.46	<0.91	6,010	41.9	2.3 J	23.3	16,100	71.3	1,440	152	0.11	8.4 J	353 J	<4.6	<2.3	<1140	<4.6	25.2	107
CR-3	0-1	7/15/2014	11:21 AM	4,030	<3.6	1.2 J	15 J	<0.36	<0.71	361 J	7.3	2.2 J	3.8 J	6,350	5.4	890	95.4	0.02	4.6 J	459 J	<3.6	<1.8	<888	<3.6	8.2 J	15.4
	surf	7/15/2014	11:20 AM	4,030	<3.6	1.5 J	16.1 J	<0.36	<0.72	1,010	7.7	2.1 J	5.6	7,840	8.6	691 J	101	0.01 J	4 J	244 J	<3.6	<1.8	<896	<3.6	8.2 J	27.3
CR-4	0-1	7/15/2014	10:03 AM	2,810	<3.7	<2.8	9.2 J	<0.37	<0.74	259 J	4.3	1.5 J	2.8 J	5,890	3.5	460 J	92.7	0.01 J	2.9 J	153 J	<3.7	<1.8	<920	<3.7	5.1 J	10.1
	surf	7/15/2014	10:01 AM	3,770	<3.5	2 J	27.5 J	<0.35	<0.7	552 J	10.4	2.1 J	10	7,060	26.4	727 J	98.2	0.04	4.9 J	240 J	<3.5	<1.8	<876	<3.5	8.9	42.4
CR-5	0-1	7/15/2014	9:56 AM	3,010	<3.4	1.3 J	9.8 J	<0.34	<0.69	270 J	7.3	3.5 J	3.8 J	5,800	4.7	515 J	102	0.01 J	4.4 J	149 J	<3.4	<1.7	<860	<3.4	5.6 J	12
	surf	7/15/2014	9:55 AM	2,830	<3.3	1.6 J	10.6 J	<0.33	<0.66	264 J	28	1.6 J	4.6	6,860	6.1	470 J	88.7	0.05	2.9 J	159 J	<3.3	<1.6	<821	<3.3	6.2 J	16.5
CR-6	0-1	7/15/2014	9:53 AM	4,270	<3.6	1.7 J	10.9 J	<0.36	<0.72	532 J	13.5	2.1 J	3.8 J	7,070	5	753 J	89.5	0.01 J	4.5 J	199 J	<3.6	<1.8	<897	<3.6	8 J	13.4
	surf	7/15/2014	9:52 AM	3,370	<3.5	1.9 J	27.3 J	<0.35	0.39 J	405 J	55	1.9 J	9.2	6,320	752	614 J	140	0.04	4 J	232 J	<3.5	0.8 J	<878	<3.5	7.7 J	37.9
CR-7	0-1	7/15/2014	9:49 AM	2,500	<3.6	0.85 J	7.9 J	<0.36	0.62 J	159 J	80.6	1.3 J	7.2	5,240	6	401 J	84.1	0.02	2.9 J	132 J	<3.6	1.2 J	<896	<3.6	5.1 J	27.1
	surf	7/15/2014	9:48 AM	2,940	<3.1	1.2 J	11.1 J	<0.31	<0.61	248 J	24.1	1.6 J	4.6	5,110	6.1	547 J	82.8	0.01 J	2.9 J	169 J	<3.1	<1.5	<765	<3.1	5.8 J	17.3
CR-8	0-1	7/15/2014	8:47 AM	2,700	<3.1	1 J	8.7 J	<0.31	<0.63	285 J	16.9	1.4 J	4.1	5,830	4.6	481 J	80.8	0.02	2.8 J	142 J	<3.1	<1.6	<782	<3.1	5.1 J	13.2
	surf	7/15/2014	8:46 AM	1,660	<3.1	<2.3	6.7 J	<0.31	<0.62	149 J	17.7	0.86 J	2.9 J	3,290	4	293 J	50.8	0.02	1.6 J	101 J	<3.1	<1.5	<770	<3.1	3.4 J	11.4
CR-9	0-1	7/15/2014	8:41 AM	2,050	<2.9	1.4 J	8.4 J	<0.29	<0.58	938	9.2	1.4 J	3 J	6,570	4.8	410 J	90	0.02	3 J	122 J	<2.9	<1.4	<723	<2.9	4.5 J	12
	surf	7/15/2014	8:39 AM	4,740	<3.5	2 J	40.3	<0.35	<0.71	756 J	12.5	1.8 J	6	6,840	20.3	608 J	95	0.02	4.1 J	270 J	<3.5	<1.8	<885	<3.5	9	34.9
CR-10	0-1	7/15/2014	8:35 AM	2,200	<3.8	<2.8	7.4 J	<0.38	<0.75	127 J	6.2	1.1 J	2.3 J	4,230	3.5	374 J	63.7	<0.017	2.5 J	128 J	<3.8	<1.9	<943	<3.8	4.1 J	8.7
	surf	7/15/2014	8:34 AM	2,450	<3.6	0.8 J	9.4 J	<0.36	<0.73	261 J	6.8	1.3 J	6.5	4,710	7.1	454 J	77.9	0.01 J	2.7 J	136 J	<3.6	<1.8	<911	<3.6	5.3 J	20.8
CR-11	0-1	6/18/2014	7:38 AM	2,290	<3.3	1 J	8.7 J	<0.33	<0.65	443 J	18.6	1.4 J	3.7 J	4,340	5.8	401 J	69.7	0.02 J	2.6 J	131 J	<3.3	<1.6	<815	<3.3	4.8 J	17.5
	24-29	6/18/2014	8:46 AM	5,510	<3.5	3.1	19.6 J	<0.35	3.6	778 J	205	3.8 J	12	10,100	16.5	800 J	138	0.34	6.4 J	271 J	<3.5	10.5	<874	<3.5	11	68.3
	surf	6/18/2014	7:37 AM	2,700	<3.6	1.4 J	15.4 J	<0.36	<0.72	1,350	30	1.7 J	6.2	5,340	48.3	562 J	90.5	0.02	3.2 J	223 J	<3.6	<1.8	<905	<3.6	5.7 J	30.1
CR-12	0-1	7/15/2014	8:29 AM	5,330	<3.9	2.1 J	27.6 J	<0.39	<0.78	5,280	21.3	2.4 J	10.8	8,950	18.2	3,330	159	0.04	9.2	294 J	<3.9	<2	<977	<3.9	12.1	38.2
	surf	7/15/2014	8:25 AM	5,080	<4.4	1.9 J	22.7 J	<0.44	<0.87	1,300	25.3	2.4 J	11.8	8,460	26.4	954 J	120	0.04	5.6 J	338 J	<4.4	<2.2	<1090	<4.4	11.3	72.3
Soil Cleanup Objectives[a]	Commercial			n/a	n/a	16	400	590	9.3	n/a	1,500[b]	n/a	270	n/a	1,000	n/a	10,000	2.8	310	n/a	1,500	1,500	n/a	n/a	n/a	10,000
	Unrestricted			n/a	n/a	13	350	7.2	2.5	n/a	30[b]	n/a	50	n/a	63	n/a	1,600	0.18	30	n/a	3.9	2	n/a	n/a	n/a	109

Notes:
n/a - not applicable / not analyzed
J - Indicates an estimated value below laboratory reporting limits
[a] - 6 NYCRR 375-6.8 (a, b)
[b] - SCO's for trivalent chromium are presented
- value exceeds 6 NYCRR 375-6.8 (a,b) unrestricted use SCO

Fairchild Republic Aircraft; Old Sump
Route 110 (Broad Hollow Road)
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Site No. 152004

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8081B

Location	CR-5	CR-10	CR-11	Soil Cleanup Objectives[a]	
Depth (ft BGS)	0-1	0-1	24-29	Commercial	Unrestricted
Date Collected	7/15/2014	7/15/2014	6/18/2014		
Time Collected	9:56 AM	8:35 AM	8:46 AM		
4,4,-DDT	<1.8	<1.7	<7.7	47,000	3.3
4,4-DDD	<1.8	<1.7	<7.7	92,000	3.3
4,4-DDE	<1.8	<1.7	<7.7	62,000	3.3
a BHC	<1.8	<1.7	<7.7	3,400	20
Aldrin	<1.8	<1.7	<7.7	680	5
b BHC	<3.4	<3.3	<7.7	3,000	36
Chlordane	<69	<67	<77	n/a	n/a
delta-BHC	<1.8	<1.7	<7.7	500,000	40
Dieldrin	<1.8	<1.7	<7.7	1,400	5
Endosulfan I	<1.8	<1.7	<7.7	200,000	2,400
Endosulfan II	<1.8	<1.7	<7.7	200,000	2,400
Endosulfan Sulfate	<1.8	<1.7	<7.7	200,000	2,400
Endrin	<1.8	<1.7	<7.7	89,000	14
Endrin Aldehyde	<1.8	<1.7	<7.7	n/a	n/a
Endrin ketone	<1.8	<1.7	<7.7	n/a	n/a
Gamma-BHC(Lindane)	<1.8	<1.7	<7.7	9,200	100
Heptachlor	<1.8	<1.7	<7.7	15,000	42
Heptachlor Epoxide	<1.8	<1.7	<7.7	n/a	n/a
Methoxychlor	<3.4	<3.3	<7.7	n/a	n/a
Toxaphene	<69	<67	<77	n/a	n/a

Notes:
n/a - not applicable / not analyzed
[a] - 6 NYCRR 375-6.8 (a, b)

Fairchild Republic Aircraft; Old Sump
Route 110 (Broad Hollow Road)
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ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8082A

Location	Depth (ft BGS)	Date Collected	Time Collected	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Polychlorinated biphenyls (total)
G-01	0-1	7/16/2014	10:42 AM	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75
	surf	7/16/2014	10:41 AM	<76	<76	<76	<76	<76	<76	<76	<76	<76	<76
G-02	0-1	7/16/2014	10:47 AM	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
	surf	7/16/2014	10:46 AM	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75
G-03	0-1	7/16/2014	10:52 AM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
	surf	7/16/2014	10:51 AM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
G-04	0-1	7/16/2014	10:58 AM	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
	surf	7/16/2014	10:57 AM	<78	<78	<78	<78	<78	<78	<78	<78	<78	<78
G-05	0-1	7/16/2014	12:21 PM	<73	<73	<73	<73	<73	<73	<73	<73	<73	<73
	surf	7/16/2014	12:20 PM	<78	<78	<78	<78	<78	<78	<78	<78	<78	<78
G-06	0-1	7/16/2014	12:33 PM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
	surf	7/16/2014	12:32 PM	<73	<73	<73	<73	<73	<73	<73	<73	<73	<73
G-07	0-1	7/17/2014	10:59 AM	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75
	surf	7/17/2014	10:58 AM	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
G-08	0-1	7/17/2014	10:55 AM	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
	surf	7/17/2014	10:54 AM	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75
G-09	0-1	7/17/2014	10:50 AM	<73	<73	<73	<73	<73	<73	<73	<73	<73	<73
	surf	7/17/2014	10:48 AM	<75	<75	<75	<75	<75	<75	<75	**200**	<75	**200**
G-10	0-1	7/17/2014	9:33 AM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
	surf	7/17/2014	9:32 AM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
G-11	0-1	7/17/2014	9:28 AM	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
	surf	7/17/2014	9:27 AM	<77	<77	<77	<77	<77	<77	<77	<77	<77	<77
G-12	0-1	6/17/2014	8:58 AM	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
	28-32	6/17/2014	10:29 AM	<80	<80	<80	<80	**190**	<80	<80	<80	<80	**190**
	surf	6/17/2014	8:58 AM	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
G-13	0-1	7/16/2014	9:13 AM	<81	<81	<81	<81	<81	<81	<81	<81	<81	<81
	surf	7/16/2014	9:11 AM	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
G-14	0-1	7/16/2014	9:05 AM	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
	surf	7/16/2014	9:04 AM	<78	<78	<78	<78	<78	<78	<78	<78	<78	<78
G-15	0-1	7/17/2014	9:21 AM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
	surf	7/17/2014	9:20 AM	<73	<73	<73	<73	<73	<73	<73	<73	<73	<73
G-16	0-1	7/17/2014	9:17 AM	<69	<69	<69	<69	<69	<69	<69	<69	<69	<69
	surf	7/17/2014	9:16 AM	<70	<70	<70	<70	<70	<70	<70	<70	<70	<70
G-17	0-1	6/16/2014	8:50 AM	<74	<74	<74	<74	<74	<74	<74	<74	<74	<74
	8-12	6/16/2014	9:11 AM	<79	<79	<79	<79	<79	**180**	<79	<79	<79	**180**
	surf	6/16/2014	8:45 AM	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75
G-18	0-1	7/16/2014	8:57 AM	<72	<72	<72	<72	<72	<72	<72	<72	<72	<72
	surf	7/16/2014	8:56 AM	<83	<83	<83	<83	<83	<83	<83	<83	<83	<83
Soil Cleanup Objectives[a]	Commercial			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	**1,000**
	Unrestricted			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	**100**

Notes:
n/a - not applicable / not analyzed
[a] - 6 NYCRR 375-6.8 (a, b)
- value exceeds 6 NYCRR 375-6.8 (a,b) unrestricted use SCO

TABLE 19

Fairchild Republic Aircraft; Old Sump
Route 110 (Broad Hollow Road)
East Farmingdale, NY
Site No. 152004

2014 Remedial Investigation Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8260C

Location	G-01		G-02		G-03		G-04		G-05		G-06		G-07		G-08		G-09	
Depth (ft BGS)	0-1	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	Surf
Date Collected	7/16/14	7/16/14	7/16/14	7/16/14	7/16/14	7/16/14	7/16/14	7/16/14	7/16/14	7/16/14	7/16/14	7/16/14	7/17/14	7/17/14	7/17/14	7/17/14	7/17/14	7/17/14
Time Collected	10:42 AM	10:41 AM	10:47 AM	10:46 AM	10:52 AM	10:51 AM	10:58 AM	10:57 AM	12:21 PM	12:20 PM	12:33 PM	12:32 PM	10:59 AM	10:58 AM	10:55 AM	10:54 AM	10:50 AM	10:48 AM
1,1 Dichloroethane	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
1,1 Dichloroethene	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
1,1,1 Trichloroethane	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
1,1,2 Trichloroethane	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
1,1,2,2 Tetrachloroethane	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
1,2 Dibromoethane	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
1,2 Dichlorobenzene	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
1,2 Dichloroethane	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
1,2 Dichloropropane	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
1,2,3 Trichlorobenzene	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
1,2,4 Trichlorobenzene	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
1,3 Dichlorobenzene	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
1,4 Dichlorobenzene	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
1,4-Dioxane	<21	<21	<21	<26	<23	<22	<25	<22	<21	<24	<23	<25	<24	<24	<22	<22	<22	<23
2-Hexanone	<5.2	<5.4	<5.3	<6.5	<5.8	<5.4	<6.2	<5.5	<5.2	<5.9	<5.6	<6.3	<6	<6	<5.5	<5.4	<5.4	<5.7
4-Methyl-2-Pentanone	<5.2	<5.4	<5.3	<6.5	<5.8	<5.4	<6.2	<5.5	<5.2	<5.9	<5.6	<6.3	<6	<6	<5.5	<5.4	<5.4	<5.7
Acetone	**11**	<5.4	**11**	**17**	**12**	<5.4	**15**	**10**	**11**	**14**	<5.6	<6.3	<6	<6	<5.5	<5.4	<5.4	<5.7
Benzene	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
Bromochloromethane	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
Bromodichloromethane	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
Bromoform	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
Bromomethane	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
c 1,3 Dichloropropene	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
Carbon Disulfide	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
Carbon Tetrachloride	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
Chlorobenzene	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
Chloroethane	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
Chloroform	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
Chloromethane	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
cis-1,2-Dichloroethene	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
Cyclohexane	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
Cyclohexane, methyl-	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
Dibromochloromethane	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
Dibromochloropropane	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
Dichlorodifluoromethane	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
Ethylbenzene	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
Freon 113	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
Isopropylbenzene	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
m + p Xylene	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
Methyl acetate	<5.2	<5.4	<5.3	<6.5	<5.8	<5.4	<6.2	<5.5	<5.2	<5.9	<5.6	<6.3	<6	<6	<5.5	<5.4	<5.4	<5.7
Methyl Ethyl Ketone	<5.2	<5.4	<5.3	<6.5	<5.8	<5.4	<6.2	<5.5	<5.2	<5.9	<5.6	<6.3	<6	<6	<5.5	<5.4	<5.4	<5.7
Methylene Chloride	<1	**0.69 BJ**	<1.1	**0.84 BJ**	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	**2.7**	**0.63 BJ**	**1.1**	**4.9**	**1.2**
o-Xylene	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
Styrene	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
t 1,3 Dichloropropene	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
t butylmethylether	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
Tetrachloroethene	<1	<1.1	<1.1	<1.3	**0.16 J**	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	**0.17 J**	<1.2	<1.1	<1.1	**0.37 J**	<1.1
Toluene	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
trans-1,2-Dichloroethene	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
Trichloroethylene	<1	<1.1	**0.17 J**	<1.3	<1.2	<1.1	<1.2	<1.1	**0.28 J**	<1.2	<1.1	<1.3	**0.28 J**	<1.2	<1.1	<1.1	**0.3 J**	<1.1
Trichlorofluoromethane	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
Vinyl Chloride	<1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.2	<1.1	<1	<1.2	<1.1	<1.3	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1
1,2,3,4,5-Pentameth-1,3-cyclopentadiene (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1-Eethenyl-3-ethylbenzene (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1-Hexyl-cyclohexene (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2,6,11-Trimethyldodecane (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2-Butyl-1,1,3-Trimethylcyclohexane (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2-Methylene-4,8,8-bicyclo[5.2.0]nonane (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2-Methylnaphthalene (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
5-Methyl-2-(1-methylethyl-cyclohexanone (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Alpha-pinene (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Benzene, (2-methyl-2-propenyl)- (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
beta-Pinene (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
cis,Trans,cis-1,2,3-trimethylcyclohexane (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Decahydro-2-Methyl Naphthalene (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-Limonene (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Methyl Sulfide (TIC)	n/a	n/a	n/a	n/a	**8.6 JN !**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Tridecane, 6-methyl- (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Unknown volatile organic with highest conc. (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Calculated																		
Total VOC's	**11**	**0.69**	**11.17**	**17.84**	**20.76**	<99.6	**15**	**10**	**11.28**	**14**	<101.6	<116.3	**0.45**	**2.7**	**0.63**	**1.1**	**5.57**	**1.2**
Total BTEX	<5	<5.5	<5.5	<6.5	<6	<5.5	<6	<5.5	<5	<6	<5.5	<6.5	<6	<6	<5.5	<5.5	<5.5	<5.5
Total Xylenes	<2	<2.2	<2.2	<2.6	<2.4	<2.2	<2.4	<2.2	<2	<2.4	<2.2	<2.6	<2.4	<2.4	<2.2	<2.2	<2.2	<2.2

Location	G-10		G-11		G-12			G-13		G-14		G-15		G-16		G-17			G-18		Soil Cleanup Objectives[a]	
Depth (ft BGS)	0-1	Surf	0-1	Surf	0-1	28-32	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	8-12	Surf	0-1	Surf	Commercial	Unrestricted
Date Collected	7/17/14	7/17/14	7/17/14	7/17/14	6/17/14	6/17/14	6/17/14	7/16/14	7/16/14	7/16/14	7/16/14	7/17/14	7/17/14	7/17/14	7/17/14	6/16/14	6/16/14	6/16/14	7/16/14	7/16/14		
Time Collected	9:33 AM	9:32 AM	9:28 AM	9:27 AM	8:58 AM	10:29 AM	8:58 AM	9:13 AM	9:11 AM	9:05 AM	9:04 AM	9:21 AM	9:20 AM	9:17 AM	9:16 AM	8:50 AM	9:11 AM	8:45 AM	8:57 AM	8:56 AM		
1,1 Dichloroethane	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	**240,000**	**270**
1,1 Dichloroethene	<1.1	<1.1	<1.1	<1.2	<1.1	**0.21 J**	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	**500,000**	**330**
1,1,1 Trichloroethane	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	**500,000**	**680**
1,1,2 Trichloroethane	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	n/a	n/a
1,1,2,2 Tetrachloroethane	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	n/a	n/a
1,2 Dibromoethane	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	n/a	n/a
1,2 Dichlorobenzene	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	**500,000**	**1,100**
1,2 Dichloroethane	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	**30,000**	**20**
1,2 Dichloropropane	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	n/a	n/a
1,2,3 Trichlorobenzene	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	n/a	n/a
1,2,4 Trichlorobenzene	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	n/a	n/a
1,3 Dichlorobenzene	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	**280,000**	**2,400**
1,4 Dichlorobenzene	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	**130,000**	**1,800**
1,4-Dioxane	<21	<22	<23	<25	<22	<21	<22	<26	<31	<25	<25	<21	<24	<20	<20	<22	<21	<19	<23	<24	**130,000**	**100**
2-Hexanone	<5.3	<5.6	<5.7	<6.2	<5.4	<5.1	<5.6	<6.5	<7.8	<6.2	<6.2	<5.3	<5.9	<5.1	<5.1	<5.4	<5.2	<4.8	<5.9	<5.9	n/a	n/a
4-Methyl-2-Pentanone	<5.3	<5.6	<5.7	<6.2	<5.4	<5.1	<5.6	<6.5	<7.8	<6.2	<6.2	<5.3	<5.9	<5.1	<5.1	<5.4	<5.2	<4.8	<5.9	<5.9	n/a	n/a
Acetone	<5.3	<5.6	<5.7	<6.2	<5.4	**59**	<5.6	<6.5	<7.8	<6.2	<6.2	<5.3	<5.9	<5.1	<5.1	**9.2**	**47**	<4.8	<5.9	<5.9	**500,000**	**50**
Benzene	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	**44,000**	**60**
Bromochloromethane	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	n/a	n/a
Bromodichloromethane	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	n/a	n/a
Bromoform	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	n/a	n/a
Bromomethane	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	n/a	n/a
c 1,3 Dichloropropene	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	n/a	n/a
Carbon Disulfide	<1.1	<1.1	<1.1	<1.2	<1.1	**0.65 J**	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	**0.33 J**	<0.96	<1.2	<1.2	n/a	n/a
Carbon Tetrachloride	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	**22,000**	**760**
Chlorobenzene	<1.1	**0.74 J**	<1.1	**0.31 J**	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	**0.52 J**	**0.85 J**	**0.35 J**	**0.39 J**	<1.1	<1	<0.96	<1.2	<1.2	**500,000**	**1,100**
Chloroethane	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	n/a	n/a
Chloroform	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	**350,000**	**370**
Chloromethane	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	n/a	n/a
cis-1,2-Dichloroethene	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	**0.13 J**	<0.96	<1.2	<1.2	**500,000**	**250**
Cyclohexane	<1.1	<1.1	<1.1	<1.2	<1.1	**0.72 J**	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	n/a	n/a
Cyclohexane, methyl-	<1.1	<1.1	<1.1	<1.2	<1.1	**2.2**	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	n/a	n/a
Dibromochloromethane	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	n/a	n/a
Dibromochloropropane	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	n/a	n/a
Dichlorodifluoromethane	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	n/a	n/a
Ethylbenzene	<1.1	**0.24 J**	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	**0.2 J**	**0.23 J**	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	**390,000**	**1,000**
Freon 113	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	n/a	n/a
Isopropylbenzene	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	n/a	n/a
m + p Xylene	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	n/a	n/a
Methyl acetate	<5.3	<5.6	<5.7	<6.2	<5.4	<5.1	<5.6	<6.5	<7.8	<6.2	<6.2	<5.3	<5.9	<5.1	<5.1	<5.4	<5.2	<4.8	<5.9	<5.9	n/a	n/a
Methyl Ethyl Ketone	<5.3	<5.6	<5.7	<6.2	<5.4	**14**	<5.6	<6.5	<7.8	<6.2	<6.2	<5.3	<5.9	<5.1	<5.1	<5.4	**8.1**	<4.8	<5.9	<5.9	**500,000**	**120**
Methylene Chloride	<1.1	**1.6**	**2.2**	**2.5**	<1.1	<1	<1.1	**0.96 BJ**	<1.6	**0.85 BJ**	**1 BJ**	**1.5**	**2**	**2.5**	**2**	<1.1	<1	<0.96	<1.2	<1.2	**500,000**	**50**
o-Xylene	<1.1	<1.1	<1.1	<1.2	<1.1	**0.3 J**	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	n/a	n/a
Styrene	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	n/a	n/a
t 1,3 Dichloropropene	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	n/a	n/a
t butylmethylether	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	**500,000**	**930**
Tetrachloroethene	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	**0.25 J**	<0.96	<1.2	<1.2	**150,000**	**1,300**
Toluene	<1.1	**0.29 J**	<1.1	**0.21 J**	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	**0.32 J**	**0.38 J**	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	**500,000**	**700**
trans-1,2-Dichloroethene	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	**500,000**	**190**
Trichloroethylene	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	**0.5 J**	<0.96	<1.2	<1.2	**200,000**	**470**
Trichlorofluoromethane	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	n/a	n/a
Vinyl Chloride	<1.1	<1.1	<1.1	<1.2	<1.1	<1	<1.1	<1.3	<1.6	<1.2	<1.2	<1.1	<1.2	<1	<1	<1.1	<1	<0.96	<1.2	<1.2	**13,000**	**20**
1,2,3,4,5-Pentameth-1,3-cyclopentadiene (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	**19 JN !**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1-Eethenyl-3-ethylbenzene (TIC)	n/a	n/a	n/a	n/a	n/a	**14 JN !**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1-Hexyl-cyclohexene (TIC)	n/a	n/a	n/a	n/a	n/a	**16 JN !**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2,6,11-Trimethyldodecane (TIC)	n/a	n/a	n/a	n/a	n/a	**13 JN !**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2-Butyl-1,1,3-Trimethylcyclohexane (TIC)	n/a	n/a	n/a	n/a	n/a	**17 JN !**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2-Methylene-4,8,8-bicyclo[5.2.0]nonane (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	**12 JN !**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2-Methylnaphthalene (TIC)	n/a	n/a	n/a	n/a	n/a	**13 JN !**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
5-Methyl-2-(1-methylethyl-cyclohexanone (TIC)	n/a	n/a	n/a	n/a	n/a	**15 JN !**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Alpha-pinene (TIC)	**8.6 JN !**	**88 JN !**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	**23 JN !**	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Benzene, (2-methyl-2-propenyl)- (TIC)	n/a	n/a	n/a	n/a	n/a	**12 JN !**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
beta-Pinene (TIC)	n/a	**31 JN !**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	**51 JN !**	n/a	n/a	n/a	n/a	n/a	n/a	n/a
cis,Trans,cis-1,2,3-trimethylcyclohexane (TIC)	n/a	n/a	n/a	n/a	n/a	**14 JN !**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Decahydro-2-Methyl Naphthalene (TIC)	n/a	n/a	n/a	n/a	n/a	**14 JN !**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-Limonene (TIC)	n/a	**48 JN !**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	**19 JN !**	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Methyl Sulfide (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Tridecane, 6-methyl- (TIC)	n/a	n/a	n/a	n/a	n/a	**13 JN !**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Unknown volatile organic with highest conc. (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	**7.2 J !**	n/a	**4.8 J !**	n/a	n/a	n/a	n/a
Calculated																						
Total VOC's	**8.6**	**169.87**	**2.2**	**3.02**	<99.6	**218.08**	<100.6	**0.96**	<143.6	**0.85**	**32**	**2.54**	**3.46**	**2.85**	**95.39**	**16.4**	**56.31**	**4.8**	<107.7	<108.7	n/a	n/a
Total BTEX	<5.5	**0.53**	<5.5	**0.21**	<5.5	**0.3 J**	<5.5	<6.5	<8	<6	<6	**0.52**	**0.61**	<5	<5	<5.5	<5	<4.8	<6	<6	n/a	n/a
Total Xylenes	<2.2	<2.2	<2.2	<2.4	<2.2	**0.3 J**	<2.2	<2.6	<3.2	<2.4	<2.4	<2.2	<2.4	<2	<2	<2.2	<2	<1.92	<2.4	<2.4	**500,000**	**260**

Notes:
n/a - not applicable / not analyzed
B - Analyte was detected in associated lab blank
J - Indicates an estimated value below laboratory reporting limits
N - Indicates the presumptive evidence of a compound
! - Indicates parameter/value was reported as a Tentatively Identified Compound (TIC)
[a] - 6 NYCRR 375-6.8 (a, b)
(blue shading) - value exceeds 6 NYCRR 375-6.8 (a,b) unrestricted use SCO

Fairchild Republic Aircraft; Old Sump
Route 110 (Broad Hollow Road)
East Farmingdale, NY
Site No. 152004

2014 Remedial Investigation Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8270D

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Location	G-01		G-02		G-03		G-04		G-05		G-06		G-07		G-08		G-09		G-10		G-11		G-12			G-13		G-14		G-15		G-16		G-17			G-18		Soil Cleanup Objectives*	
Depth (ft BGS)	0-1	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	28-32	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	8-12	Surf	0-1	Surf		
Date Collected	7/16/14	7/16/14	7/16/14	7/16/14	7/16/14	7/16/14	7/16/14	7/16/14	7/16/14	7/16/14	7/16/14	7/16/14	7/17/14	7/17/14	7/17/14	7/17/14	7/17/14	7/17/14	7/17/14	7/17/14	7/17/14	7/17/14	6/17/14	6/17/14	6/17/14	7/16/14	7/16/14	7/16/14	7/16/14	7/17/14	7/17/14	7/17/14	7/17/14	6/16/14	6/16/14	6/16/14	7/16/14	7/16/14		
Time Collected	10:42 AM	10:41 AM	10:47 AM	10:46 AM	10:52 AM	10:51 AM	10:58 AM	10:57 AM	12:21 PM	12:20 PM	12:33 PM	12:32 PM	10:59 AM	10:58 AM	10:55 AM	10:54 AM	10:50 AM	10:48 AM	9:33 AM	9:32 AM	9:28 AM	9:27 AM	8:58 AM	10:29 AM	8:58 AM	9:13 AM	9:11 AM	9:05 AM	9:04 AM	9:21 AM	9:20 AM	9:17 AM	9:16 AM	8:50 AM	9:11 AM	8:45 AM	8:57 AM	8:56 AM		
1,1-Biphenyl	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
1,2,4,5-Tetrachlorobenzene	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
2,3,4,6-Tetrachlorophenol	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
2,4,5-Trichlorophenol	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
2,4,6-Trichlorophenol	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
2,4-Dichlorophenol	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
2,4-Dimethylphenol	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
2,4-Dinitrophenol	<3700	<760	<740	<750	<720	<720	<740	<780	<730	<780	<720	<730	<750	<740	<740	<750	<730	<750	<720	<720	<740	<770	<700	<4000	<700	<810	<2000	<3700	<790	<720	<730	<690	<700	<740	<780	<750	<720	<830	n/a	n/a
2,4-Dinitrotoluene	<370	<76	<74	<75	<72	<72	<74	<78	<73	<78	<72	<73	<75	<74	<74	<75	<73	<75	<72	<72	<74	<77	<70	<400	<70	<81	<200	<370	<79	<72	<73	<69	<70	<74	<78	<75	<72	<83	n/a	n/a
2,6-Dinitrotoluene	<370	<76	<74	<75	<72	<72	<74	<78	<73	<78	<72	<73	<75	<74	<74	<75	<73	<75	<72	<72	<74	<77	<70	<400	<70	<81	<200	<370	<79	<72	<73	<69	<70	<74	<78	<75	<72	<83	n/a	n/a
2-Chloronaphthalene	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
2-Chlorophenol	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
2-Methyl-4,6-dinitrophenol	<3700	<760	<740	<750	<720	<720	<740	<780	<730	<780	<720	<730	<750	<740	<740	<750	<730	<750	<720	<720	<740	<770	<700	<4000	<700	<810	<2000	<3700	<790	<720	<730	<690	<700	<740	<780	<750	<720	<830	n/a	n/a
2-Methylnaphthalene	<1800	<370	70 J	49 J	69 J	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	250 J	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
2-Nitroaniline	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
2-Nitrophenol	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
3,3-Dichlorobenzidine	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
3-Nitroaniline	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
4-Bromophenyl-phenylether	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
4-Chloro-3-methylphenol	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
4-Chloroaniline	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
4-Chlorophenyl-phenylether	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
4-Nitroaniline	<3700	<760	<740	<750	<720	<720	<740	<780	<730	<780	<720	<730	<750	<740	<740	<750	<730	<750	<720	<720	<740	<770	<700	<4000	<700	<810	<2000	<3700	<790	<720	<730	<690	<700	<740	<780	<750	<720	<830	n/a	n/a
4-Nitrophenol	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
Acenaphthene	<1800	<370	280 J	100 J	90 J	<350	<370	<390	<360	<380	<360	<360	<370	96 J	<360	<370	<360	<370	<350	<350	<360	<380	100 J	2,700	<350	<400	<990	<1800	210 J	<350	<360	<340	<350	62 J	100 J	63 J	<350	<410	500,000	20,000
Acenaphthylene	<1800	<370	52 J	60 J	96 J	48 J	<370	68 J	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	110 J	250 J	46 J	<400	<990	<1800	320 J	<350	<360	<340	<350	82 J	<390	87 J	<350	<410	500,000	100,000
Acetophenone	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
Anthracene	300 J	110 J	990	300 J	570	120 J	<370	82 J	82 J	<380	<360	45 J	130 J	280 J	<360	56 J	120 J	130 J	<350	<350	85 J	56 J	610	3,800	130 J	120 J	300 J	790 J	750	<350	<360	<340	<350	260 J	170 J	250 J	77 J	150 J	500,000	100,000
Atrazine	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
Benzaldehyde	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
Benzo(a)anthracene	1,200	650	4,300	1,500	1,600	520	240	420	310	310	190	280	990	1,700	300	460	510	880	<35	<35	510	400	4,200	8,500	1,300	730	1,400	3,400	2,900	80	240	36	95	1,700	620	1,800	570	950	5,600	1,000
Benzo(a)pyrene	1,300	800	3,900	1,800	1,400	580	290	500	330	420	240	330	960	1,700	340	510	520	840	57	60	530	450	4,000	7,900	1,500	820	1,600	3,100	3,000	99	260	60	150	1,900	950	2,000	640	1,100	1,000	1,000
Benzo(b)fluoranthene	1,600	1,100	5,600	2,500	1,700	770	360	670	450	570	340	440	1,400	2,300	440	710	690	1,300	63	73	720	630	6,600	11,000	2,600	1,100	2,200	3,800	4,100	120	360	60	210	2,300	1,400	2,600	840	1,500	5,600	1,000
Benzo(g,h,i)perylene	1400 J	550	2,500	1,200	1,100	410	230 J	340 J	230 J	390	210 J	290 J	900	1,500	300 J	470	350 J	560	34 J	35 J	450	400	830	2,100	400	530	990	3,300	2,200	63 J	210 J	46 J	150 J	550	230 J	600	630	1,100	500,000	100,000
Benzo(k)fluoranthene	630	460	2,100	990	690	330	160	220	200	240	150	170	530	1,100	190	270	250	430	26 J	30 J	250	220	2,500	3,900	870	450	880	1,500	1,400	38	160	28 J	93	810	470	940	340	510	56,000	800
bis(2-Chloroethoxy)methane	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
bis(2-Chloroethyl)ether	<180	<37	<36	<37	<35	<35	<37	<39	<36	<38	<36	<36	<37	<37	<36	<37	<36	<37	<35	<35	<36	<38	<34	<200	<35	<40	<99	<180	<39	<35	<36	<34	<35	<37	<39	<37	<35	<41	n/a	n/a
bis(2-Chloroisopropyl)ether	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
bis(2-Ethylhexyl)phthalate	<1800	<370	390	170 J	<350	<350	<370	<390	<360	<380	<360	<360	7,500	2,200	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	250 J	<340	<350	<370	410	<370	<350	160 J	n/a	n/a
Butylbenzylphthalate	<1800	<370	540	190 J	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	59 J	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
Caprolactam	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
Carbazole	<1800	53 J	420	140 J	240 J	57 J	<370	<390	44 J	<380	<360	<360	79 J	150 J	<360	<370	56 J	110 J	<350	<350	49 J	<380	140 J	430 J	86 J	50 J	120 J	220 J	340 J	<350	<360	<340	<350	65 J	89 J	59 J	51 J	100 J	n/a	n/a
Chrysene	1300 J	720	4,400	1,700	1,500	620	300 J	570	340 J	380	230 J	340 J	950	1,700	330 J	490	570	950	45 J	53 J	510	440	4,200	8,100	1,400	850	1,500	3,700	3,100	95 J	280 J	49 J	150 J	1,900	840	2,300	770	1,400	56,000	1,000
Dibenzo(a,h)anthracene	370	180	730	350	320	130	69	120	72	110	60	92	260	420	98	150	120	190	<35	<35	120	120	310	930	160	170	340	860	660	40	74	33 J	52	210	150	200	180	300	560	330
Dibenzofuran	<1800	<370	140 J	<370	180 J	<350	<370	<390	<360	<380	<360	<360	<370	47 J	<360	<370	<360	<370	<350	<350	<360	<380	<340	2,500	<350	<400	<990	<1800	91 J	<350	<360	<340	<350	<370	90 J	<370	<350	<410	350,000	7,000
Diethylphthalate	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
Dimethylphthalate	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
Di-n-butylphthalate	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	93 J	<2000	62 J	<400	<990	<1800	<390	<350	<360	<340	<350	50 J	65 J	69 J	<350	<410	n/a	n/a
Di-n-octylphthalate	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
Fluoranthene	2,100	1,200	7,600	2,900	3,600	1,200	360 J	800	630	590	350 J	600	1,500	2,800	490	750	940	1,800	86 J	77 J	860	740	7,700	16,000	2,000	1,300	2,600	5,800	6,700	170 J	480	76 J	240 J	2,500	1,000	2,900	1,200	2,400	500,000	100,000
Fluorene	<1800	310 J	86 J	140 J	<350	<350	<370	<390	<360	<380	<360	<360	<370	92 J	<360	<370	<360	<370	<350	<350	<360	<380	110 J	3,700	<350	<400	<990	270 J	240 J	<350	<360	<340	<350	89 J	110 J	79 J	<350	52 J	500,000	30,000
Hexachlorobenzene	<180	<37	<36	<37	<35	<35	<37	<39	<36	<38	<36	<36	<37	<37	<36	<37	<36	<37	<35	<35	<36	<38	<34	<200	<35	<40	<99	<180	<39	<35	<36	<34	<35	<37	<39	<37	<35	<41	6,000	330
Hexachlorobutadiene	<370	<76	<74	<75	<72	<72	<74	<78	<73	<78	<72	<73	<75	<74	<74	<75	<73	<75	<72	<72	<74	<77	<70	<400	<70	<81	<200	<370	<79	<72	<73	<69	<70	<74	<78	<75	<72	<83	n/a	n/a
Hexachlorocyclopentadiene	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
Hexachloroethane	<180	<37	<36	<37	<35	<35	<37	<39	<36	<38	<36	<36	<37	<37	<36	<37	<36	<37	<35	<35	<36	<38	<34	<200	<35	<40	<99	<180	<39	<35	<36	<34	<35	<37	<39	<37	<35	<41	n/a	n/a
Indeno(1,2,3-cd)pyrene	1,400	600	2,800	1,400	1,200	490	200	390	230	400	190	310	890	1,500	330	490	420	670	52	56	480	460	1,200	2,900	520	590	1,200	3,300	2,500	84	250	63	180	660	270	750	680	1,200	5,600	500
Isophorone	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
Naphthalene	<1800	<370	78 J	<370	120 J	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	75 J	<350	<360	<340	<350	<370	<390	<370	<350	<410	500,000	12,000
Nitrobenzene	<180	<37	<36	<37	<35	<35	<37	<39	<36	<38	<36	<36	<37	<37	<36	<37	<36	<37	<35	<35	<36	<38	<34	<200	<35	<40	<99	<180	<39	<35	<36	<34	<35	<37	<39	<37	<35	<41	n/a	n/a
N-Nitrosodi-N-Propylamine	<180	<37	<36	<37	<35	<35	<37	<39	<36	<38	<36	<36	<37	<37	<36	<37	<36	<37	<35	<35	<36	<38	<34	<200	<35	<40	<99	<180	<39	<35	<36	<34	<35	<37	<39	<37	<35	<41	n/a	n/a
N-Nitrosodiphenylamine	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	n/a	n/a
o-cresol	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	500,000	330
p-cresol	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	500,000	330
Pentachlorophenol	<3700	<760	<740	<750	<720	<720	<740	<780	<730	<780	<720	<730	<750	<740	<740	<750	<730	<750	<720	<720	<740	<770	<700	<4000	<700	<810	<2000	<3700	<790	<720	<730	<690	<700	<740	<780	<750	<720	<830	6,700	800
Phenanthrene	1200 J	440	3,700	1,100	2,600	510	130 J	190 J	360	180 J	120 J	200 J	570	1,200	200 J	260 J	440	680	<350	<350	400	240 J	2,000	9,500	600	470	1,100	2,900	2,500	61 J	160 J	<340	83 J	1,100	600	1,200	440	970	500,000	100,000
Phenol (total)	<1800	<370	<360	<370	<350	<350	<370	<390	<360	<380	<360	<360	<370	<370	<360	<370	<360	<370	<350	<350	<360	<380	<340	<2000	<350	<400	<990	<1800	<390	<350	<360	<340	<350	<370	<390	<370	<350	<410	500,000	330
Pyrene	1600 J	820	5,300	1,800	2,000	700	460	560	550	510	320 J	340 J	1,300	2,300	470	650	640	1,200	76 J	74 J	770	520	3,700	7,300	1,200	1,000	1,700	5,300	3,200	110 J	340 J	52 J	170 J	2,300	570	2,600	890	1,500	500,000	100,000
n-Octadecane (TIC)	n/a	n/a	n/a	n/a	n/a	470 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	650 JN !	n/a	n/a	n/a	n/a		
.Beta.-sitosterol (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	960 JN !	n/a	n/a		
.Gamma.-sitosterol (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1500 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
1,7-Dimethylphenanthrene (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	580 JN !	n/a	n/a	n/a	n/a		
11H-Benzo[B]fluorine (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	340 JN !	1700 JN !	n/a	n/a	n/a	n/a	320 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	420 JN !		
11H-indeno[2,1-A]phenanthrene (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	620 JN !	n/a	n/a	n/a	n/a	n/a	620 JN !	n/a	n/a		
1-Methyl-anthracene (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	820 JN !	n/a	n/a	n/a	n/a		
1-Methyl-benz[A]anthracene (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	490 JN !	n/a	n/a		
2(1H)-Naphthalenone, 3,5,6,7,8,8A-hexahyd (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	480 JN !	n/a	n/a	n/a	540 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
2,6,10,15-Tetramethylheptadecane (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	420 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	480 JN !		
2-Methyl phenanthrene (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	930 JN !	n/a	n/a		
2-Methylpyrene (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	370 JN !	n/a	n/a	n/a	n/a		
2-Pentanone, 4-Methoxy-4-Methyl- (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	470 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		

Fairchild Republic Aircraft; Old Sump
Route 110 (Broad Hollow Road)
East Farmingdale, NY
Site No. 152004

2014 Remedial Investigation Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8270D

Location	G-01		G-02		G-03		G-04		G-05		G-06		G-07		G-08		G-09		G-10		G-11		G-12			G-13		G-14		G-15		G-16		G-17			G-18		Soil Cleanup Objectives*	
Depth (ft BGS)	0-1	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	28-32	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	Surf	0-1	8-12	Surf	0-1	Surf		
Date Collected	7/16/14	7/16/14	7/16/14	7/16/14	7/16/14	7/16/14	7/16/14	7/16/14	7/16/14	7/16/14	7/16/14	7/16/14	7/17/14	7/17/14	7/17/14	7/17/14	7/17/14	7/17/14	7/17/14	7/17/14	7/17/14	7/17/14	6/17/14	6/17/14	6/17/14	7/16/14	7/16/14	7/16/14	7/16/14	7/17/14	7/17/14	7/17/14	7/17/14	6/16/14	6/16/14	6/16/14	7/16/14	7/16/14	Commercial	Unrestricted
Time Collected	10:42 AM	10:41 AM	10:47 AM	10:46 AM	10:52 AM	10:51 AM	10:58 AM	10:57 AM	12:21 PM	12:20 PM	12:33 PM	12:32 PM	10:59 AM	10:58 AM	10:55 AM	10:54 AM	10:50 AM	10:48 AM	9:33 AM	9:32 AM	9:28 AM	9:27 AM	8:58 AM	10:29 AM	8:58 AM	9:13 AM	9:11 AM	9:05 AM	9:04 AM	9:21 AM	9:20 AM	9:17 AM	9:16 AM	8:50 AM	9:11 AM	8:45 AM	8:57 AM	8:56 AM		
4,4,6A,6B,8A,11,12,14B-octamethyl-1,4,4A (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	490 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4H-Cyclopenta[DEF]phenanthrene (TIC)	n/a	n/a	920 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	390 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
5-Butyl-docosane (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2800 JN !	n/a	n/a	n/a	n/a
7-Methyl-benz[A]anthracene (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	330 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
9.Beta.,13.alpha.,14anost-7-en-3-one (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1100 JN !	n/a	n/a	n/a	n/a
Anthanthrene (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	500 JN !	n/a	n/a	n/a	n/a	n/a	n/a
Benz[J]aceanthrylene, 3-methyl- (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	640 JN !	n/a	n/a	n/a	n/a	n/a
Benzanthrone (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	300 JN !	n/a	n/a	n/a	n/a	n/a	n/a
Benzo(A)fluorene (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	420 JN !	n/a	n/a	n/a	n/a
Benzo[A]fluoren-11-one (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	340 JN !	n/a	n/a	n/a	n/a
Benzo[B]naphto[2,1-D]thiophen (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	340 JN !	n/a	380 JN !	n/a	n/a	n/a	n/a
Benzo[B]triphenylene (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	540 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Benzo[E]pyrene (TIC)	n/a	n/a	960 JN !	1300 JN !	n/a	n/a	n/a	400 JN !	n/a	n/a	n/a	560 JN !	n/a	n/a	n/a	n/a	n/a	650 JN !	n/a	n/a	490 JN !	n/a	2600 JN !	4500 JN !	1200 JN !	600 JN !	1600 JN !	n/a	1200 JN !	n/a	n/a	n/a	n/a	480 JN !	1400 JN !	480 JN !	500 JN !	970 JN !	n/a	n/a
Butyl hexadecanoate (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	380 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Dibenzo(A,C)fluoren-13-one (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	630 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Fluoranthene, 2-methyl- (TIC)	n/a	n/a	410 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Heneicosane (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	460 JN !	n/a	n/a
Heptacosane (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1800 JN !	n/a	n/a	n/a	n/a	n/a	n/a
Methyl chrysene (TIC)	n/a	n/a	330 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Methyl pyrene (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	330 JN !	n/a	370 JN !	n/a	n/a	n/a	n/a
Methylanthracene, 2- (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	780 JN !	n/a	n/a	n/a	n/a	n/a	n/a
n-Docosane (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1500 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n-Hexadecane (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	960 JN !	n/a	540 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	460 JN !	n/a	n/a	n/a	n/a	n/a	n/a
n-Octacosane (TIC)	n/a	n/a	n/a	n/a	n/a	710 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	360 JN !	n/a	n/a	n/a
Nonadecane (All Tics)	n/a	n/a	n/a	n/a	n/a	420 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	480 JN !	n/a	n/a	n/a	n/a
n-Tetracosane (All Tics)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	730 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Octadecanal (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	570 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
P105 (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
P115 (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
P76 (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Perylene (TIC)	n/a	620 JN !	n/a	n/a	1200 JN !	440 JN !	n/a	n/a	n/a	n/a	n/a	n/a	1100 JN !	1200 JN !	n/a	n/a	490 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2700 JN !	n/a	n/a	n/a	n/a	n/a	2400 JN !	n/a	510 JN !	n/a	n/a
Phenanthrene, 2,5-dimethyl- (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	820 JN !	n/a	n/a	n/a	n/a
Phenol, 4-(1,1,3,3-tetramethylbutyl)- (TIC)	17000 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Picene (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	630 JN !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Triphenylene, 2-methyl- (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	330 JN !	n/a	n/a	n/a	460 JN !	n/a	n/a	n/a	n/a	n/a	n/a
Unknown SVOC with 10th Highest Conc. (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	780 J !	n/a	n/a	n/a	n/a	n/a
Unknown SVOC with 11th Highest Conc. (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	760 J !	n/a	n/a	n/a	n/a	n/a
Unknown SVOC with 12th Highest Conc. (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	750 J !	n/a	n/a	n/a	n/a	n/a
Unknown SVOC with 13th Highest Conc. (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	700 J !	n/a	n/a	n/a	n/a	n/a
Unknown SVOC with 14th Highest Conc. (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	690 J !	n/a	n/a	n/a	n/a	n/a
Unknown SVOC with 15th Highest Conc. (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	630 J !	n/a	n/a	n/a	n/a	n/a
Unknown SVOC with 16th Highest Conc. (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	570 J !	n/a	n/a	n/a	n/a	n/a
Unknown SVOC with 2nd Highest Conc. (TIC)	16000 J !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	440 J !	n/a	620 J !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	500 J !	n/a	n/a	1200 J !	n/a	n/a	n/a	910 J !	6200 J !	n/a	n/a	430 J !	n/a
Unknown SVOC with 3rd Highest Conc. (TIC)	12000 J !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	530 J !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	620 J !	n/a	n/a	n/a	760 J !	2200 J !	n/a	n/a	n/a	n/a
Unknown SVOC with 4th Highest Conc. (TIC)	12000 J !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	510 J !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	560 J !	n/a	n/a	n/a	500 J !	2000 J !	n/a	n/a	n/a	n/a
Unknown SVOC with 5th Highest Conc. (TIC)	11000 J !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	470 J !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	490 J !	n/a	n/a	n/a	480 J !	1800 J !	n/a	n/a	n/a	n/a
Unknown SVOC with 6th Highest Conc. (TIC)	9800 J !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1600 J !	n/a	n/a	n/a	n/a	n/a
Unknown SVOC with 7th Highest Conc. (TIC)	6200 J !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1300 J !	n/a	n/a	n/a	n/a	n/a
Unknown SVOC with 8th Highest Conc. (TIC)	2200 J !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	980 J !	n/a	n/a	n/a	n/a	n/a
Unknown SVOC with 9th Highest Conc. (TIC)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	800 J !	n/a	n/a	n/a	n/a	n/a
Unknown semivolatile with highest conc. (TIC)	23000 J !	n/a	300 J !	590 J !	370 J !	550 J !	330 J !	n/a	n/a	860 J !	n/a	820 J !	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	280 J !	n/a	410 J !	500 J !	n/a	n/a	2100 J !	n/a	n/a	n/a	n/a	910 J !	6300 J !	940 J !	n/a	500 J !	n/a	n/a
Calculated Total SVOC's	123,600	8,303	51,920	20,225	20,785	9,075	3,129	5,810	3,828	5,890	2,400	7,487	19,059	22,675	4,058	5,266	6,116	10,810	439	458	6,224	4,727	42,913	97,960	15,754	9,780	20,530	38,240	46,755	960	3,064	503	1,953	27,968	39,394	32,070	8,168	17,162	n/a	n/a

Notes:
n/a - not applicable / not analyzed
B - Analyte was detected in associated lab blank
J - Indicates an estimated value below laboratory reporting limits
N - Indicates the presumptive evidence of a compound
! - Indicates parameter/value was reported as a Tentatively Identified Compound (TIC)
* - 6 NYCRR 375-6.8 (a, b)

- value exceeds 6 NYCRR 375-6.8 (a,b) unrestricted use SCO
- value exceeds both 6 NYCRR 375-6.8 (a,b) commercial and unrestricted use SCO's

Fairchild Republic Aircraft; Old Sump
Route 110 (Broad Hollow Road)
East Farmingdale, NY
Site No. 152004

2014 Remedial Investigation Soil Analytical Results (mg/Kg)
TestAmerica, Inc.
Methods: SW6010C, SW7471B

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

Location	Depth (ft BGS)	Date Collected	Time Collected	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium (total)	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
G-01	0-1	7/16/2014	10:42 AM	4,180	<3.8	2.7 J	58.1	<0.38	<0.76	8,850	13.8	2 J	26.5	6,790	65.3	1,270	116	0.12	8.2	286 J	<3.8	<1.9	<952	<3.8	10.9	109
	surf	7/16/2014	10:41 AM	2,930	<4.2	2 J	30 J	<0.42	<0.84	1,590	14.4	1.7 J	12.8	15,700	32.1	768 J	141	0.07	10.8	142 J	<4.2	<2.1	<1050	<4.2	8.2 J	49.4
G-02	0-1	7/16/2014	10:47 AM	4,320	<3.9	4.4	78.4	<0.39	0.29 J	6,460	12.7	2.5 J	43.7	8,150	94.5	1,840	111	0.24	9.3	367 J	<3.9	<2	<979	<3.9	14.6	131
	surf	7/16/2014	10:46 AM	4,800	<3.9	3.7	72.1	<0.39	2.2	7,380	11.8	2.6 J	29.9	8,430	91.8	2,370	134	0.14	10	449 J	<3.9	<2	<977	<3.9	15.8	130
G-03	0-1	7/16/2014	10:52 AM	2,990	<3.8	2.4 J	25.6 J	<0.38	<0.76	1,370	8	1.9 J	8	7,090	77.2	681 J	80.9	0.05	3.9 J	141 J	<3.8	<1.9	<947	<3.8	8.5 J	51.4
	surf	7/16/2014	10:51 AM	2,160	<4.1	1.1 J	19.1 J	<0.41	<0.82	1,240	5.8	1.2 J	7.2	4,900	28.2	633 J	70.7	0.03	3.5 J	157 J	<4.1	<2.1	<1030	<4.1	5.6 J	46.1
G-04	0-1	7/16/2014	10:58 AM	2,200	<4	1 J	13.1 J	<0.4	<0.81	3,670	4.9	1.1 J	4.9 J	4,750	19.7	2,120	53.6	0.08	3 J	128 J	<4	<2	<1010	<4	5.5 J	25.4
	surf	7/16/2014	10:57 AM	4,530	<4.3	2.4 J	29.8 J	<0.43	<0.85	3,400	11.1	1.9 J	12.7	7,590	46.2	2,190	77.7	0.07	5.1 J	217 J	<4.3	<2.1	<1060	<4.3	11	65.5
G-05	0-1	7/16/2014	12:21 PM	4,990	<3.9	1.6 J	16.4 J	<0.39	<0.78	747 J	7.1	1.9 J	5.8	7,580	9.5	757 J	80.8	0.04	4.3 J	260 J	<3.9	<1.9	<971	<3.9	9.1 J	19.2
	surf	7/16/2014	12:20 PM	6,940	<4	3.1	31.8 J	<0.4	<0.79	1,160	10.6	2.5 J	11	10,600	25.1	1,010	105	0.08	6.5 J	350 J	<4	<2	<989	<4	13.5	42.2
G-06	0-1	7/16/2014	12:33 PM	3,140	<4.1	1.7 J	13.7 J	<0.41	<0.82	2,230	13.7	1.6 J	6.9	7,020	10.7	1,330	76.9	0.04	4.6 J	183 J	<4.1	<2.1	<1030	<4.1	8 J	22
	surf	7/16/2014	12:32 PM	2,810	<4.2	1.2 J	13.3 J	<0.42	<0.84	671 J	7	1.5 J	8	5,380	13	580 J	75.4	0.02	4.4 J	202 J	<4.2	<2.1	<1060	<4.2	6.1 J	29.2
G-07	0-1	7/17/2014	10:59 AM	4,900	<4	2.4 J	24.8 J	<0.4	<0.81	10,500	10.2	2.1 J	8.8	8,150	22.3	1,340	92	0.08	5.6 J	199 J	<4	<2	<1010	<4	12	32.3
	surf	7/17/2014	10:58 AM	4,360	<4	2 J	25 J	<0.4	<0.79	6,410	10.5	2 J	7.1	7,400	18.8	1,060	102	0.11	5 J	310 J	<4	<2	<990	<4	11.9	30.5
G-08	0-1	7/17/2014	10:55 AM	6,440	<4.4	3.7	26.2 J	<0.44	<0.88	1,700	15.9	2.9 J	6.9	12,300	15.2	986 J	171	0.05	5.5 J	300 J	<4.4	<2.2	<1100	<4.4	13.6	24.7
	surf	7/17/2014	10:54 AM	4,620	<4.2	2.5 J	26 J	<0.42	<0.84	2,900	9.5	2.3 J	8.1	9,320	20.5	1,110	138	0.08	5.3 J	265 J	<4.2	<2.1	<1050	<4.2	9.9 J	32
G-09	0-1	7/17/2014	10:50 AM	5,030	<3.9	2.8 J	34 J	<0.39	0.53 J	4,000	28.3	2.2 J	15.2	11,000	36	824 J	102	0.1	7.1 J	204 J	<3.9	2	<970	<3.9	17.3	51.5
	surf	7/17/2014	10:48 AM	4,310	<4.2	1.9 J	39.8 J	<0.42	<0.84	2,810	14.9	2 J	15.6	8,050	55.9	963 J	100	0.08	6.6 J	241 J	<4.2	0.43 J	<1050	<4.2	10.6	70.5
G-10	0-1	7/17/2014	9:33 AM	4,370	<3.8	1.2 J	15 J	<0.38	<0.76	133 J	7	3.9 J	4.7 J	9,960	5.6	654 J	365	0.02	5.1 J	210 J	<3.8	<1.9	<954	<3.8	8.3 J	14.7
	surf	7/17/2014	9:32 AM	3,300	<4.2	1 J	14.5 J	<0.42	<0.83	194 J	5.4	4.1 J	4.6 J	7,750	4.5	551 J	363	0.02 J	4.6 J	176 J	<4.2	<2.1	<1040	<4.2	7.1 J	14.1
G-11	0-1	7/17/2014	9:28 AM	2,730	<4.2	1.5 J	11.5 J	<0.42	<0.85	921 J	6.2	1.1 J	5.2 J	4,490	9.3	475 J	48.7	0.08	2.9 J	163 J	<4.2	<2.1	<1060	<4.2	6 J	13.8
	surf	7/17/2014	9:27 AM	3,850	<4.2	1.1 J	18.6 J	<0.42	<0.84	2,440	10.1	3.5 J	58.7	12,400	13.9	881 J	102	0.07	3.4 J	435 J	<4.2	<2.1	<1050	<4.2	7.7 J	32.4
G-12	0-1	6/17/2014	8:58 AM	5,200	<4.1	3.5	21.7 J	<0.41	<0.82	3,940	15.9	2.2 J	10.1	8,710	31.6	1,310	102	0.28	5.8 J	295 J	<4.1	<2	<1020	<4.1	15	56.8
	28-32	6/17/2014	10:29 AM	2,930	<4.2	1.4 J	15.2 J	<0.42	<0.84	3,260	10.5	1 J	5.8	3,640	20.9	1,730	26.8	0.02	2.7 J	140 J	<4.2	<2.1	<1050	<4.2	9.2 J	24.4
	surf	6/17/2014	8:58 AM	4,330	<3.7	2.9	19.3 J	<0.37	<0.74	5,140	14	2.7 J	9.5	7,890	26.7	1,980	111	0.7	5.5 J	263 J	<3.7	<1.9	<929	<3.7	13.2	64.7
G-13	0-1	7/16/2014	9:13 AM	5,350	<4.4	3.7	41.9 J	<0.44	0.38 J	4,700	16.8	2.7 J	19.3	9,220	58.5	1,190	133	0.15	7.4 J	307 J	<4.4	<2.2	<1100	<4.4	14	79.4
	surf	7/16/2014	9:11 AM	11,000	<5.9	7.2	115	<0.59	1.2	14,400	34.4	5.3 J	55.3	15,000	177	2,930	250	0.48	16.7	711 J	<5.9	0.73 J	<1460	<5.9	29.8	229
G-14	0-1	7/16/2014	9:05 AM	4,680	<4	6.3	97.5	<0.4	0.41 J	11,500	13.3	3.2 J	50.4	12,800	130	1,780	214	0.17	12.7	308 J	<4	<2	<992	<4	18.9	154
	surf	7/16/2014	9:04 AM	6,020	<4.7	4.4	114	<0.47	0.37 J	10,000	14.1	3.1 J	47.2	11,400	141	2,780	162	0.2	13.3	525 J	<4.7	<2.3	<1160	<4.7	19.3	170
G-15	0-1	7/17/2014	9:21 AM	3,790	<4	<3	10.5 J	<0.4	<0.8	206 J	7.5	2.5 J	4.2 J	5,560	5.2	551 J	101	0.03	4 J	176 J	<4	<2	<1000	<4	6.7 J	12.7
	surf	7/17/2014	9:20 AM	3,000	<4.3	0.92 J	11.2 J	<0.43	<0.86	366 J	11	1.4 J	6.4	5,280	8.9	530 J	80.6	0.03	3.7 J	154 J	<4.3	0.58 J	<1070	<4.3	5.9 J	24.2
G-16	0-1	7/17/2014	9:17 AM	1,280	<4	1.2 J	5.5 J	<0.4	<0.8	244 J	3.7	1 J	3.2 J	3,340	3.7	246 J	41.8	<0.016	2.1 J	99.8 J	<4	<2	<1000	<4	3.2 J	16.9
	surf	7/17/2014	9:16 AM	2,410	<3.9	1.1 J	10.9 J	<0.39	<0.79	288 J	5.7	1.5 J	4.8 J	5,080	7	539 J	75.6	<0.016	3.3 J	202 J	<3.9	<2	<983	<3.9	5.7 J	16.3
G-17	0-1	6/16/2014	8:50 AM	6,280	<4.2	2.6 J	25.6 J	<0.42	<0.85	2,030	15.1	4 J	8.9	10,000	20.5	1,060	147	0.05	7.1 J	402 J	<4.2	<2.1	<1060	<4.2	12.8	37.7
	8-12	6/16/2014	9:11 AM	5,960	<4.2	2.7 J	26.8 J	<0.42	1.6	1,620	765	2.2 J	31.6	6,930	78.3	735 J	78.8	0.2	7.6 J	226 J	<4.2	15.7	<1050	<4.2	13.1	62.2
	surf	6/16/2014	8:45 AM	6,230	<4.2	6.5	24.7 J	<0.42	<0.84	2,860	17.9	2.9 J	9.1	10,500	21.4	1,570	152	0.05	6.2 J	467 J	<4.2	<2.1	<1050	<4.2	14.1	43.3
G-18	0-1	7/16/2014	8:57 AM	4,480	<3.7	3.5	30.6 J	<0.37	0.36 J	2,250	38.6	2.6 J	15.7	14,700	41.9	1,200	148	0.06	19.3	263 J	<3.7	0.44 J	<921	<3.7	13.5	120
	surf	7/16/2014	8:56 AM	4,210	<4.8	2.1 J	32.8 J	<0.48	0.56 J	2,370	22.3	2.3 J	19.2	8,040	66.9	1070 J	92.4	0.1	6.6 J	273 J	<4.8	0.47 J	<1210	<4.8	12.1	181
Soil Cleanup Objectives[a]	Commercial			n/a	n/a	16	400	590	9.3	n/a	1,500[b]	n/a	270	n/a	1,000	n/a	10,000	2.8	310	n/a	1,500	1,500	n/a	n/a	n/a	10,000
	Unrestricted			n/a	n/a	13	350	7.2	2.5	n/a	30[b]	n/a	50	n/a	63	n/a	1,600	0.18	30	n/a	3.9	2	n/a	n/a	n/a	109

Notes:
n/a - not applicable / not analyzed
J - Indicates an estimated value below laboratory reporting limits
[a] - 6 NYCRR 375-6.8 (a, b)
[b] - SCO's for trivalent chromium are presented
- value exceeds 6 NYCRR 375-6.8 (a,b) unrestricted use SCO

Fairchild Republic Aircraft; Old Sump
Route 110 (Broad Hollow Road)
East Farmingdale, NY
Site No. 152004

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Soil Analytical Results (ug/Kg)
TestAmerica, Inc.
Methods: SW8081B

Location	Depth (ft BGS)	Date Collected	Time Collected	4,4,-DDT	4,4-DDD	4,4-DDE	a BHC	Aldrin	b BHC	Chlordane	delta-BHC	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde	Endrin ketone	Gamma-BHC(Lindane)	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene
G-01	0-1	7/16/2014	10:42 AM	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<75	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<75
	surf	7/16/2014	10:41 AM	<7.6	<7.6	<7.6	<7.6	<7.6	<7.6	<76	<7.6	<7.6	<7.6	<7.6	<7.6	<7.6	<7.6	<7.6	<7.6	<7.6	<7.6	<7.6	<76
G-02	0-1	7/16/2014	10:47 AM	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<74	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<74
	surf	7/16/2014	10:46 AM	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<75	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<75
G-03	0-1	7/16/2014	10:52 AM	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<72	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<72
	surf	7/16/2014	10:51 AM	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<72	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<72
G-04	0-1	7/16/2014	10:58 AM	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<74	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<74
	surf	7/16/2014	10:57 AM	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<78	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<78
G-05	0-1	7/16/2014	12:21 PM	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<73	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<73
	surf	7/16/2014	12:20 PM	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<78	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<78
G-06	0-1	7/16/2014	12:33 PM	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<72	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<72
	surf	7/16/2014	12:32 PM	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<73	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<73
G-07	0-1	7/17/2014	10:59 AM	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<75	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<75
	surf	7/17/2014	10:58 AM	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<74	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<74
G-08	0-1	7/17/2014	10:55 AM	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<74	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<74
	surf	7/17/2014	10:54 AM	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<75	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<75
G-09	0-1	7/17/2014	10:50 AM	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<73	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<73
	surf	7/17/2014	10:48 AM	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<75	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<75
G-10	0-1	7/17/2014	9:33 AM	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<72	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<72
	surf	7/17/2014	9:32 AM	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<72	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<72
G-11	0-1	7/17/2014	9:28 AM	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<74	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<74
	surf	7/17/2014	9:27 AM	<7.7	<7.7	<7.7	<7.7	<7.7	<7.7	<77	<7.7	<7.7	<7.7	<7.7	<7.7	<7.7	<7.7	<7.7	<7.7	<7.7	<7.7	<7.7	<77
G-12	0-1	6/17/2014	8:58 AM	<7	<7	<7	<7	<7	<7	<70	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<70
	28-32	6/17/2014	10:29 AM	<8	<8	<8	<8	<8	<8	<80	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<80
	surf	6/17/2014	8:58 AM	<7	<7	<7	<7	<7	<7	<70	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<70
G-13	0-1	7/16/2014	9:13 AM	<8.1	<8.1	<8.1	<8.1	<8.1	<8.1	<81	<8.1	<8.1	<8.1	<8.1	<8.1	<8.1	<8.1	<8.1	<8.1	<8.1	<8.1	<8.1	<81
	surf	7/16/2014	9:11 AM	<10	<10	<10	<10	<10	<10	<100	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<100
G-14	0-1	7/16/2014	9:05 AM	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<74	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<74
	surf	7/16/2014	9:04 AM	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<78	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<78
G-15	0-1	7/17/2014	9:21 AM	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<72	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<72
	surf	7/17/2014	9:20 AM	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<73	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<73
G-16	0-1	7/17/2014	9:17 AM	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<69	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<69
	surf	7/17/2014	9:16 AM	<7	<7	<7	<7	<7	<7	<70	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<70
G-17	0-1	6/16/2014	8:50 AM	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<74	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<74
	8-12	6/16/2014	9:11 AM	<7.9	<7.9	<7.9	<7.9	<7.9	<7.9	<79	<7.9	<7.9	<7.9	<7.9	<7.9	<7.9	<7.9	<7.9	<7.9	<7.9	<7.9	<7.9	<79
	surf	6/16/2014	8:45 AM	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<75	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<75
G-18	0-1	7/16/2014	8:57 AM	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<72	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<72
	surf	7/16/2014	8:56 AM	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	<83	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	<83

Soil Cleanup Objectives[a]	Commercial	47,000	92,000	62,000	3,400	680	3,000	n/a	500,000	1,400	200,000	200,000	200,000	89,000	n/a	n/a	9,200	15,000	n/a	n/a	n/a
	Unrestricted	3.3	3.3	3.3	20	5	36	n/a	40	5	2,400	2,400	2,400	14	n/a	n/a	100	42	n/a	n/a	n/a

Notes:
n/a - not applicable / not analyzed
[a] - 6 NYCRR 375-6.8 (a, b)

Fairchild Republic Aircraft; Old Sump
Route 110 (Broad Hollow Road)
East Farmingdale, NY
Site No. 152004

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Groundwater Analytical Results (ug/L)
TestAmerica, Inc.
Methods: SW8082A

Location	BAW-06C	MW-1	MW-1A	MW-2	MW-3	MW-4	TOGS111 ClassGA Standard[a]	TOGS111 ClassGA Guidance[a]
Depth (ft BGS)	20-30	40-50	-	19-29	20-30	22-32		
Date Collected	7/28/2014	7/28/2014	7/28/2014	7/28/2014	7/28/2014	7/28/2014		
Time Collected	1:35 PM	9:36 AM	10:25 AM	11:23 AM	12:10 PM	12:55 PM		
Aroclor 1016	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	n/a	n/a
Aroclor 1221	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	n/a	n/a
Aroclor 1232	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	n/a	n/a
Aroclor 1242	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	n/a	n/a
Aroclor 1248	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	n/a	n/a
Aroclor 1254	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	n/a	n/a
Aroclor 1260	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	n/a	n/a
Aroclor 1262	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	n/a	n/a
Aroclor 1268	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	n/a	n/a
Polychlorinated biphenyls (total)	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	**5**	n/a

[a] - TOGS 1.1.1 - Ambient Water Quality Standards & Guidance Values, Class GA (groundwater)

Fairchild Republic Aircraft; Old Sump
Route 110 (Broad Hollow Road)
East Farmingdale, NY
Site No. 152004

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Groundwater Analytical Results (ug/L)
TestAmerica, Inc.
Methods: SW8260C

Location	BAW-06C	MW-1	MW-1A	MW-2	MW-3	MW-4	TOGS111 ClassGA Standard[a]	TOGS111 ClassGA Guidance[a]
Depth (ft BGS)	20-30	40-50	-	19-29	20-30	22-32		
Date Collected	7/28/2014	7/28/2014	7/28/2014	7/28/2014	7/28/2014	7/28/2014		
Time Collected	1:35 PM	9:36 AM	10:25 AM	11:23 AM	12:10 PM	12:55 PM		
1,1 Dichloroethane	<1	<1	<1	<1	<1	<1	5	n/a
1,1 Dichloroethene	<1	<1	<1	<1	<1	<1	5	n/a
1,1,1 Trichloroethane	<1	<1	<1	<1	<1	<1	5	n/a
1,1,2 Trichloroethane	<1	<1	<1	<1	<1	<1	1	n/a
1,1,2,2 Tetrachloroethane	<1	<1	<1	<1	<1	<1	5	n/a
1,2 Dibromoethane	<1	<1	<1	<1	<1	<1	0.001	n/a
1,2 Dichlorobenzene	<1	<1	<1	<1	<1	<1	3	n/a
1,2 Dichloroethane	<1	<1	<1	<1	<1	<1	0.6	n/a
1,2 Dichloropropane	<1	<1	<1	<1	<1	<1	1	n/a
1,2,3 Trichlorobenzene	<1	<1	<1	<1	<1	<1	5	n/a
1,2,4 Trichlorobenzene	<1	<1	<1	<1	<1	<1	5	n/a
1,3 Dichlorobenzene	<1	<1	<1	<1	<1	<1	3	n/a
1,4 Dichlorobenzene	<1	<1	<1	<1	<1	<1	3	n/a
1,4-Dioxane	<50	<50	<50	<50	<50	<50	n/a	n/a
2-Hexanone	<5	<5	<5	<5	<5	<5	n/a	50
4-Methyl-2-Pentanone	<5	<5	<5	<5	<5	<5	n/a	n/a
Acetone	<5	<5	<5	<5	<5	<5	n/a	50
Benzene	<1	<1	<1	0.1 J	<1	0.17 J	1	n/a
Bromochloromethane	<1	<1	<1	<1	<1	<1	5	n/a
Bromodichloromethane	<1	<1	<1	<1	<1	<1	n/a	50
Bromoform	<1	<1	<1	<1	<1	<1	n/a	50
Bromomethane	<1	<1	<1	<1	<1	<1	5	n/a
c 1,3 Dichloropropene	<1	<1	<1	<1	<1	<1	n/a	n/a
Carbon Disulfide	<1	<1	<1	<1	<1	<1	n/a	60
Carbon Tetrachloride	<1	<1	<1	<1	<1	<1	5	n/a
Chlorobenzene	<1	<1	<1	0.32 J	<1	<1	5	n/a
Chloroethane	<1	<1	<1	<1	<1	<1	5	n/a
Chloroform	<1	0.17 J	<1	<1	<1	0.16 J	7	n/a
Chloromethane	<1	<1	<1	<1	<1	<1	5	n/a
cis-1,2-Dichloroethene	<1	<1	1	<1	0.62 J	0.53 J	5	n/a
Cyclohexane	<1	<1	<1	0.17 J	<1	<1	n/a	n/a
Cyclohexane, methyl-	<1	<1	<1	0.18 J	<1	<1	n/a	n/a
Dibromochloromethane	<1	<1	<1	<1	<1	<1	n/a	50
Dibromochloropropane	<1	<1	<1	<1	<1	<1	0.04	n/a
Dichlorodifluoromethane	<1	<1	<1	<1	<1	<1	5	n/a
Ethylbenzene	<1	<1	<1	<1	<1	0.23 J	5	n/a
Freon 113	<1	<1	<1	<1	<1	<1	5	n/a
Isopropylbenzene	<1	<1	<1	<1	<1	<1	5	n/a
m + p Xylene	<1	<1	<1	<1	<1	<1	5*	n/a
Methyl acetate	<5	<5	<5	<5	<5	<5	n/a	n/a
Methyl Ethyl Ketone	<5	<5	<5	<5	<5	<5	n/a	50
Methylene Chloride	<1	<1	<1	<1	<1	<1	5	n/a

Fairchild Republic Aircraft; Old Sump
Route 110 (Broad Hollow Road)
East Farmingdale, NY
Site No. 152004

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Groundwater Analytical Results (ug/L)
TestAmerica, Inc.
Methods: SW8260C

Location	BAW-06C	MW-1	MW-1A	MW-2	MW-3	MW-4	TOGS111 ClassGA Standard[a]	TOGS111 ClassGA Guidance[a]
Depth (ft BGS)	20-30	40-50	-	19-29	20-30	22-32		
Date Collected	7/28/2014	7/28/2014	7/28/2014	7/28/2014	7/28/2014	7/28/2014		
Time Collected	1:35 PM	9:36 AM	10:25 AM	11:23 AM	12:10 PM	12:55 PM		
o-Xylene	<1	<1	<1	<1	<1	<1	5	n/a
Styrene	<1	<1	<1	<1	<1	0.27 J	5	n/a
t 1,3 Dichloropropene	<1	<1	<1	<1	<1	<1	n/a	n/a
t butylmethylether	<1	<1	<1	0.76 J	0.29 J	<1	n/a	10
Tetrachloroethene	0.56 J	0.57 J	0.63 J	<1	6	1.1	5	n/a
Toluene	<1	0.23 J	<1	0.17 J	<1	<1	5	n/a
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	0.33 J	5	n/a
Trichloroethylene	0.89 J	0.15 J	0.59 J	<1	2.4	0.34 J	5	n/a
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	5	n/a
Vinyl Chloride	<1	<1	<1	<1	<1	0.54 J	2	n/a
Calculated								
Total VOC's	1.45	1.12	2.22	1.7	9.31	3.67	n/a	n/a
Total BTEX	<5	0.23	<5	0.27	<5	0.4	n/a	n/a

Notes:
n/a - not applicable / not analyzed
J - Indicates an estimated value below laboratory reporting limits
* - standard applies to both isomers separately
[a] - TOGS 1.1.1 - Ambient Water Quality Standards & Guidance Values, Class GA (groundwater)
- value exceeds TOGS standard/guidance value

Fairchild Republic Aircraft; Old Sump
Route 110 (Broad Hollow Road)
East Farmingdale, NY
Site No. 152004

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Groundwater Analytical Results (ug/L)
TestAmerica, Inc.
Methods: SW8270D

Location	BAW-06C	MW-1	MW-1A	MW-2	MW-3	MW-4	TOGS111 ClassGA Standard[a]	TOGS111 ClassGA Guidance[a]
Depth (ft BGS)	20-30	40-50	-	19-29	20-30	22-32		
Date Collected	7/28/2014	7/28/2014	7/28/2014	7/28/2014	7/28/2014	7/28/2014		
Time Collected	1:35 PM	9:36 AM	10:25 AM	11:23 AM	12:10 PM	12:55 PM		
1,1-Biphenyl	<10	<10	<10	<10	<10	<10	**5**	n/a
1,2,4,5-Tetrachlorobenzene	<10	<10	<10	<10	<10	<10	n/a	n/a
2,3,4,6-Tetrachlorophenol	<10	<10	<10	<10	<10	<10	n/a	n/a
2,4,5-Trichlorophenol	<10	<10	<10	<10	<10	<10	n/a	n/a
2,4,6-Trichlorophenol	<10	<10	<10	<10	<10	<10	n/a	n/a
2,4-Dichlorophenol	<10	<10	<10	<10	<10	<10	**5**	n/a
2,4-Dimethylphenol	<10	<10	<10	<10	<10	<10	n/a	**50**
2,4-Dinitrophenol	<30	<30	<30	<30	<30	<30	n/a	**10**
2,4-Dinitrotoluene	<2	<2	<2	<2	<2	<2	**5**	n/a
2,6-Dinitrotoluene	<2	<2	<2	<2	<2	<2	n/a	n/a
2-Chloronaphthalene	<10	<10	<10	<10	<10	<10	n/a	**10**
2-Chlorophenol	<10	<10	<10	<10	<10	<10	n/a	n/a
2-Methyl-4,6-dinitrophenol	<30	<30	<30	<30	<30	<30	n/a	n/a
2-Methylnaphthalene	<10	<10	<10	<10	<10	<10	n/a	n/a
2-Nitroaniline	<20	<20	<20	<20	<20	<20	**5**	n/a
2-Nitrophenol	<10	<10	<10	<10	<10	<10	n/a	n/a
3,3-Dichlorobenzidine	<20	<20	<20	<20	<20	<20	**5**	n/a
3-Nitroaniline	<20	<20	<20	<20	<20	<20	**5**	n/a
4-Bromophenyl-phenylether	<10	<10	<10	<10	<10	<10	n/a	n/a
4-Chloro-3-methylphenol	<10	<10	<10	<10	<10	<10	n/a	n/a
4-Chloroaniline	<1	<1	<1	<1	<1	<1	**5**	n/a
4-Chlorophenyl-phenylether	<10	<10	<10	<10	<10	<10	n/a	n/a
4-Nitroaniline	<20	<20	<20	<20	<20	<20	**5**	n/a
4-Nitrophenol	<30	<30	<30	<30	<30	<30	n/a	n/a
Acenaphthene	<10	<10	<10	**3.1 J**	<10	<10	n/a	**20**
Acenaphthylene	<10	<10	<10	<10	<10	<10	n/a	n/a
Acetophenone	<10	<10	<10	<10	<10	<10	n/a	n/a
Anthracene	<10	<10	<10	<10	<10	<10	n/a	**50**
Atrazine	<10	<10	<10	<10	<10	<10	**7.5**	n/a
Benzaldehyde	<10	<10	<10	<10	<10	<10	n/a	n/a
Benzo(a)anthracene	<1	<1	<1	<1	<1	<1	n/a	**0.002**
Benzo(a)pyrene	<1	<1	<1	<1	<1	<1	n/a	n/a
Benzo(b)fluoranthene	<1	<1	<1	<1	<1	<1	n/a	**0.002**
Benzo(g,h,i)perylene	<10	<10	<10	<10	<10	<10	n/a	n/a
Benzo(k)fluoranthene	<1	<1	<1	<1	<1	<1	n/a	**0.002**
bis(2-Chloroethoxy)methane	<10	<10	<10	<10	<10	<10	**5**	n/a
bis(2-Chloroethyl)ether	<1	<1	<1	<1	<1	<1	**1**	n/a
bis(2-Chloroisopropyl)ether	<10	<10	<10	<10	<10	<10	**5**	n/a
bis(2-Ethylhexyl)phthalate	<10	<10	<10	<10	<10	<10	**5**	n/a
Butylbenzylphthalate	<10	<10	<10	<10	<10	<10	n/a	**50**
Caprolactam	<10	<10	<10	<10	<10	<10	n/a	n/a
Carbazole	<10	<10	<10	<10	<10	<10	n/a	n/a
Chrysene	<10	<10	<10	<10	<10	<10	n/a	**0.002**
Dibenzo(a,h)anthracene	<1	<1	<1	<1	<1	<1	n/a	n/a

Fairchild Republic Aircraft; Old Sump
Route 110 (Broad Hollow Road)
East Farmingdale, NY
Site No. 152004

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Groundwater Analytical Results (ug/L)
TestAmerica, Inc.
Methods: SW8270D

Location	BAW-06C	MW-1	MW-1A	MW-2	MW-3	MW-4	TOGS111 ClassGA Standard[a]	TOGS111 ClassGA Guidance[a]
Depth (ft BGS)	20-30	40-50	-	19-29	20-30	22-32		
Date Collected	7/28/2014	7/28/2014	7/28/2014	7/28/2014	7/28/2014	7/28/2014		
Time Collected	1:35 PM	9:36 AM	10:25 AM	11:23 AM	12:10 PM	12:55 PM		
Dibenzofuran	<10	<10	<10	<10	<10	<10	n/a	n/a
Diethylphthalate	<10	<10	<10	<10	<10	<10	n/a	**50**
Dimethylphthalate	<10	<10	<10	<10	<10	<10	n/a	**50**
Di-n-butylphthalate	<10	<10	<10	<10	<10	<10	**50**	n/a
Di-n-octylphthalate	<10	<10	<10	<10	<10	<10	n/a	**50**
Fluoranthene	<10	<10	<10	<10	<10	<10	n/a	**50**
Fluorene	<10	<10	<10	**1.9 J**	<10	<10	n/a	**50**
Hexachlorobenzene	<1	<1	<1	<1	<1	<1	**0.04**	n/a
Hexachlorobutadiene	<2	<2	<2	<2	<2	<2	**0.5**	n/a
Hexachlorocyclopentadiene	<10	<10	<10	<10	<10	<10	**5**	n/a
Hexachloroethane	<1	<1	<1	<1	<1	<1	**5**	n/a
Indeno(1,2,3-cd)pyrene	<1	<1	<1	<1	<1	<1	n/a	**0.002**
Isophorone	<10	<10	<10	<10	<10	<10	n/a	**50**
Naphthalene	<10	<10	<10	<10	<10	<10	n/a	**10**
Nitrobenzene	<1	<1	<1	<1	<1	<1	**0.4**	n/a
N-Nitrosodi-N-Propylamine	<1	<1	<1	<1	<1	<1	n/a	n/a
N-Nitrosodiphenylamine	<10	<10	<10	<10	<10	<10	n/a	**50**
o-cresol	<10	<10	<10	<10	<10	<10	n/a	n/a
p-cresol	<10	<10	<10	<10	<10	<10	n/a	n/a
Pentachlorophenol	<30	<30	<30	<30	<30	<30	**1.5**	n/a
Phenanthrene	<10	<10	<10	<10	<10	<10	n/a	**50**
Phenol (total)	<10	<10	<10	<10	<10	<10	**1**	n/a
Pyrene	<10	<10	<10	<10	<10	<10	n/a	**50**
Calculated Total SVOC's	<658	<658	<658	**5**	<658	<658	n/a	n/a

Notes:
n/a - not applicable / not analyzed
J - Indicates an estimated value below laboratory reporting limits
[a] - TOGS 1.1.1 - Ambient Water Quality Standards & Guidance Values, Class GA (groundwater)

Fairchild Republic Aircraft; Old Sump
Route 110 (Broad Hollow Road)
East Farmingdale, NY
Site No. 152004

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Groundwater Analytical Results (ug/L)
TestAmerica, Inc.
Methods: SW6010C, SW7470A

Location	BAW-06C	MW-1	MW-1A	MW-2	MW-3	MW-4	TOGS111 ClassGA Standard[a]	TOGS111 ClassGA Guidance[a]
Depth (ft BGS)	20-30	40-50	-	19-29	20-30	22-32		
Date Collected	7/28/2014	7/28/2014	7/28/2014	7/28/2014	7/28/2014	7/28/2014		
Time Collected	1:35 PM	9:36 AM	10:25 AM	11:23 AM	12:10 PM	12:55 PM		
Aluminum	<200	<200	106 J	128 J	<200	255	n/a	n/a
Antimony	<20	<20	<20	<20	<20	<20	3	n/a
Arsenic	<15	<15	4.9 J	<15	<15	<15	25	n/a
Barium	23.3 J	57.7 J	71.3 J	114 J	32 J	16.9 J	1,000	n/a
Beryllium	<2	<2	<2	<2	<2	<2	n/a	3
Cadmium	<4	<4	<4	<4	<4	<4	5	n/a
Calcium	48,700	25,800	48,100	150,000	59,200	39,400	n/a	n/a
Chromium (total)	<10	11.3	<10	6 J	<10	<10	50	n/a
Cobalt	<50	<50	<50	<50	<50	<50	n/a	n/a
Copper	<25	<25	<25	<25	<25	<25	200	n/a
Iron	69.6 J	<150	6,070	14,300	<150	6,900	300	n/a
Lead	<10	<10	<10	<10	<10	<10	25	n/a
Magnesium	4170 J	4020 J	5,050	9,440	5,480	2170 J	n/a	35,000
Manganese	67	<15	1,040	713	187	1,160	300	n/a
Mercury	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.7	n/a
Nickel	<40	<40	<40	<40	<40	<40	100	n/a
Potassium	3160 J	2960 J	3290 J	10,100	6,320	3500 J	n/a	n/a
Selenium	<20	<20	<20	<20	<20	<20	10	n/a
Silver	<10	<10	<10	<10	<10	<10	50	n/a
Sodium	14,700	24,000	17,900	14,800	18,000	14,900	20,000	n/a
Thallium	<20	<20	<20	<20	<20	<20	n/a	0.5
Vanadium	<50	<50	<50	<50	<50	<50	n/a	n/a
Zinc	<30	<30	8 J	7.7 J	6.6 J	<30	n/a	2,000

Notes:
J - Indicates an estimated value below laboratory reporting limits
[a] - TOGS 1.1.1 - Ambient Water Quality Standards & Guidance Values, Class GA (groundwater)
- value exceeds TOGS standard/guidance value

Fairchild Republic Aircraft; Old Sump
Route 110 (Broad Hollow Road)
East Farmingdale, NY
Site No. 152004

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Groundwater Analytical Results (ug/L)
TestAmerica, Inc.
Methods: SW8081B

Location	BAW-06C	MW-1	MW-1A	MW-2	MW-3	MW-4	TOGS111 ClassGA Standard[a]	TOGS111 ClassGA Guidance[a]
Depth (ft BGS)	20-30	40-50	-	19-29	20-30	22-32		
Date Collected	7/28/2014	7/28/2014	7/28/2014	7/28/2014	7/28/2014	7/28/2014		
Time Collected	1:35 PM	9:36 AM	10:25 AM	11:23 AM	12:10 PM	12:55 PM		
4,4,-DDT	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.2**	n/a
4,4-DDD	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.3**	n/a
4,4-DDE	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.2**	n/a
a BHC	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.01**	n/a
Aldrin	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	n/a	n/a
b BHC	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.04**	n/a
Chlordane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.05**	n/a
delta-BHC	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.04**	n/a
Dieldrin	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	n/a	n/a
Endosulfan I	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	n/a	n/a
Endosulfan II	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	n/a	n/a
Endosulfan Sulfate	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	n/a	n/a
Endrin	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	n/a	n/a
Endrin Aldehyde	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**5**	n/a
Endrin ketone	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**5**	n/a
Gamma-BHC(Lindane)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.05**	n/a
Heptachlor	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.04**	n/a
Heptachlor Epoxide	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.03**	n/a
Methoxychlor	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**35**	n/a
Toxaphene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.06**	n/a

[a] - TOGS 1.1.1 - Ambient Water Quality Standards & Guidance Values, Class GA (groundwater)

Fairchild Republic Aircraft; Old Sump
Route 110 (Broad Hollow Road)
East Farmingdale, NY
Site No. 152004

ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

2014 Remedial Investigation Groundwater Analytical Results
EAR Field Screening

Location	Depth (ft BGS)	Date Collected	Time Collected	Dissolved Oxygen *mg/L*	pH -	Temperature *°C*	ORP (Oxidation Reduction Potential) *mV*	Conductivity *us/cm*	Turbidity *NTU*
BAW-06C (20-30)	20-30	7/28/2014	1:35 PM	4.01	6.99	16.98	59.1	303	5.64
MW-1	40-50	7/28/2014	9:36 AM	4.58	5.90	16.45	203.7	274	0.29
MW-1A	-	7/28/2014	10:25 AM	1.59	6.49	17.08	51.0	331	4.10
MW-2	19-29	7/28/2014	11:23 AM	1.50	7.16	16.65	-32.3	754	4.25
MW-3	20-30	7/28/2014	12:10 PM	1.71	7.02	16.53	30.2	371	2.71
MW-4	22-32	7/28/2014	12:55 PM	1.50	7.24	17.52	-112.0	286	5.10

Appendix E

Table 1: Cost Estimate for Alternative #2, Full Excavation

Direct Costs[1]					
Item	Description	Quantity	Unit	Unit Cost	Total Present Worth
1	Excavation of Site Soils, including labor and equipment	671,147	CY	$5.00; 2.5 yard excavator	$3,355,733.33
2	Disposal Costs: Estimated to range between (a) and (b); Shaded value in (b) added to Direct costs.				
a	100% Solid Waste Disposal	1,006,720	tons	$130.00	$130,873,600.00
b	90% Solid Waste Disposal	906,048	tons	$130.00	$117,786,240.00
	10% Hazardous Waste Disposal	100,672	tons	$325.00	+ $32,718,400.00
	Combined Solid Waste (90%) and Hazardous (10%) Disposal Cost	1,006,720	tons	$130.00 / $325.00	$150,504,640.00
4	Shoring plus salvage	115,360	SF	$31.90	$3,681,906.67
5	Clean backfill	671,147	CY	$20.00	$13,422,933.33
6	Hauling Fill to and from site	1,342,294	CY (assuming travel distance of 50 miles)	$15.70	$21,074,005.33
7	Compaction of Fill	671,147	CY	$1.44	$966,451.20
Total Direct Costs (TDC)					$193,005,669.86
Indirect Costs					
1	Contingency – 15% of TDC	1		$28,950,850.48	$28,950,850.48
2	Engineering Design – 15% of TDC	1		$28,950,850.48	$28,950,850.48
Total Indirect Costs					$57,901,700.96
Total Costs					$250,907,370.82

1 – Costs obtained from 2014 RSMeans, Building Construction Cost Data, using Overhead & Profit (O&P) column; which includes sum of the bare material plus 10% for profit, bare labor cost plus total O&P, and bare equipment costs plus 10% for profit.

Table 2: Cost Estimate for Alternative #3, Surface Cover

Direct Costs[1]					
Item	Description	Quantity	Unit	Unit Cost	Total Present Worth
1	Re-grading of Existing Site soils if necessary	566,580	100,000 SF	$5,050.00	$28,597.14
2	1 Foot of soil cover	20,973	CY	$20.00	$419,466.67
3	Transportation of Fill to Site	20,973	CY	$15.70	$329,281.33
4	Site Management Plan and Environmental Easement	1		$30,000	$30,000
Total Direct Costs (TDC)					$807,345.14
Indirect Costs					
1	Contingency – 15% of TDC	1		$121,101.77	$121,101.77
2	Engineering Design – 15% of TDC	1		$121,101.77	$121,101.77
Total Indirect Costs					$242,203.54
Total Costs[2]					$1,049,548.68

1 – Costs obtained from 2014 RSMeans, Building Construction Cost Data, using Overhead & Profit (O&P) column; which includes sum of the bare material plus 10% for profit, bare labor cost plus total O&P, and bare equipment costs plus 10% for profit.
2 – Costs may vary as development of this property may require removal of hazardous/solid waset and/or require less transportation of fill to the site if an alternative capping system is approved.

Soils Management Plan
Stew Leonard's Site
East Farmingdale, New York

Date: March 8, 2004
Revision: 01
DEC Contact: Steve Scharf, P.E. (518 402-9620)

Prepared by:
Malcolm Pirnie, Inc.
104 Corporate Park Drive
White Plains, NY 10602

Soils Management Plan
Stew Leonard's Site
East Farmingdale, New York
Date: March 8, 2004
Revision: 01

Regulatory Contact Information:
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7011

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1. Introduction and Purpose

The purpose of a Soils Management Plan (SMP) is to provide information and procedures to those who may encounter soil that has been impacted by the historic uses of the property during intrusive construction activities that breach the asphalt parking lot or the building foundations (collectively referred to as the cover system). Specifically, this SMP provides the historic background of the property located south of Conklin Avenue (Route 24) and west of Broad Hollow Road (Route 110) in East Farmingdale, New York.

At the completion of this plan (March 2004), the subject property is being re-developed by Stew Leonard's as a commercial food store with associated parking; a commercial/office building is planned for the future at the southern end of the property. This SMP shall become effective after the re-development of the property has been completed (i.e., after the construction of the cover system, as discussed herein).

Based on the extent of the investigations conducted at the property, this plan is limited to the delineated 'Waste Areas' (discussed in detail herein) and to subsurface soil deeper than 12 feet below grade across the entire property. Additionally, this plan becomes effective during any non-emergency construction activities that breach the cover system in the Waste Areas (as designated by the snow fence and warning signs) or anywhere on the property in soil exceeding 12 feet below grade. For emergency construction activities, Stew Leonard's may delay certain aspects of this plan that will not potentially impact worker health and safety (i.e., state agency notifications) until such time that the emergency conditions have been corrected and the full plan can be utilized. It is important to note that soils within the Waste Areas may not exhibit visual or field screening results indicating the presence of contamination. This cannot be taken as a demonstration of the absence of contamination. Specifically, certain constituents of concern within the Waste Areas may not be detected by either visual or field screening methods. Therefore, the soils within the Waste Areas will require proper management as described in this Soil Management Plan.

1.1 Overview and Objectives

The site is a 19.26-acre commercial property. The location of the site is shown on Figure 1-1. The site has been characterized during numerous previous investigations that began in the early 1980's. These investigations have included soil sampling, groundwater sampling, sediment sampling and soil gas sampling. Based on the results of these investigations a Record of Decision for the site was issued in 1996. After the implementation of the ROD and through discussions with the New York State Department of Environmental Conservation (NYSDEC), the Old Recharge Basin (i.e., that portion of the site that had been listed on the Inactive Hazardous Waste Disposal Sites) was delisted in 1998. The user should refer to the previous investigation reports for more detail, as needed.

The properties discussed in this narrative are contiguous lots located south of Conklin Avenue (Route 24) and west of Broad Hollow Road (Route 110) in East Farmingdale, New York. As part of

the redevelopment of the properties by Stew Leonard's as a commercial food store, the lots have been combined into one site. Specifically, the site includes the former Fairchild Old Recharge Basin (ORB), the property adjacent to the north referred to as the Former Johnson Property (also previously owned by Fairchild), and the USA Signs property.

The objective of this SMP is to set guidelines for management of soil material during any post-redevelopment/future activities which would breach the cover system. This SMP addresses environmental concerns related to soil management and has been reviewed and approved by the New York State Department of Environmental Conservation (NYSDEC) as shown in Exhibit A.

For the convenience of the plan user(s), summaries of previous environmental investigations have been restated in the SMP, where appropriate. Interested parties should refer to the previous investigation reports for more detail, as needed.

1.2. Site History

Based on data obtained from previous investigations and the remediation done at the site, a final remediation report entitled *Old Recharge Basin Bottom Sediment Investigation Report, dated August 2002* was developed by MAC Consultants, Inc. The following sections provide a brief summary of the historic and recent environmental information concerning the following properties that now constitute the Stew Leonard's site:

- Old Recharge Basin Parcel
- Johnson Property
- USA Signs Property

Old Recharge Basin Site

The ORB site was historically mined for sand by the Colonial Sand & Gravel Company (CS&G). This operation created the two large holes that became the North and South Recharge Basins. Due to the exceptional nature of the available sand, CS&G mined the sand from this area to depths well below the groundwater table. It has been reported that sand was mined to depths in excess of 40 feet below ground surface. Groundwater at the ORB site is encountered at approximately 20 to 25 feet below ground surface.

Fairchild-Republic (now The Fairchild Corporation) conducted aircraft manufacturing operations on the property east of Route 110 (referred to as Republic Airport) from 1931 to 1987. The ORB site was associated with the former Fairchild-Republic Main Plant Site at Republic Airport. Specifically, the 13-acre ORB was used to collect rainwater, non-contact cooling water, wastewater, process wastes and incinerator ash from the Main Plant Site. It has been estimated that the Main Plant discharged approximately 2,000,000 gallons per day to the ORB Site. Additionally, the ORB site was used to collect runoff from the local roadway (Route 110). These discharges were regulated under a New York State issued State Pollution Discharge Elimination System (SPDES) permit.

Surrounding land use consists of light industrial to the north, commercial areas to the south and east and residential areas to the west. It is believed that runoff from these areas also entered the ORB. The North Recharge Basin was used to receive these discharges with overflow discharging to the South Recharge Basin.

The Suffolk County Department of Health Services expressed concerns about the discharges entering the ORB in the early 1980s. These concerns and variants from the SPDES permit led to a Notice of Violation (NOV). This NOV triggered the environmental investigation of the ORB Site that began in 1982 and resulted in the ORB Site becoming listed as a Class 2 Inactive Hazardous Waste Disposal Site by the NYSDEC. The investigations of the soil, surface water, groundwater, and sediments of the ORB Site continued until the completion of the Record of Decision (ROD) in June 1996. Extensive investigations were completed at the ORB Site under the direction of the NYSDEC and with input from the Suffolk County Department of Health Services that characterized the soil, sediment, and groundwater.

The ROD determined that minor groundwater contamination discovered under the ORB Site was due to an upgradient source(s) and, since groundwater issues were to be managed under the ROD for the Fairchild Main Plant Site (also monitored by the NYSDEC as a listed inactive hazardous waste site), no remedial actions were required to be taken on the ORB site to address groundwater. In addition, the ROD determined that the sediments located at the bottom of the recharge basins (referred to as 'bottom sediments') are contaminated with elevated levels of some metals (especially chromium and lead) and Polychlorinated Biphenyl (PCBs). Specifically, direct contact with the metals and PCBs contained in the sediments presents a potential threat to human health and the environment.

The purpose of the ROD was to ensure that the proper measures were taken to protect human health and the environment through the establishment of remedial actions. Since direct contact with the ORB site bottom sediments is a concern, the ROD sets forth a means by which direct contact would be eliminated or at least significantly limited. Specifically, the ROD established deed restrictions whereby the recharge basins would not be used and the entire ORB site would be fenced and secured to bar access. The ROD also provided an option whereby Fairchild could fill the recharge basins and raise the site to level grade. This option would allow the redevelopment of the property while capping the sediments and thereby preventing direct contact. Since metals and PCBs in concentrations above the State cleanup guidelines would remain on the site after capping the bottom sediments, a deed restriction would still be required by the NYSDEC to protect potential future owners who may wish to excavate in areas where the bottom sediments remain.

Fairchild opted to fill the basins and bring the site to level grade. The filling of the ORB Site was completed using the cleaned and decontaminated Construction & Demolition (C&D) debris from the extant Fairchild-Republic Main Plant Site. The NYSDEC approved a plan by which clean sand and gravel was used to fill the recharge basins to 5 feet above the groundwater table. The cleaned Main Plant debris was placed above this clean sand/gravel layer and then the site was leveled to grade with a minimum of 9 feet of acceptable fill material. The recharge basins were filled to level grade and

the sediments covered in 1998.

Contaminated sediments from the bottom of the North Recharge Basin rose up to the surface during this filling activity. Four trenches were dug to contain these sediments and allow them to dry out. Once the sediments had dried out, the contaminated material was re-buried on the ORB Site. Additionally, chromium-impacted soil from the Main Plant Site was buried at a depth of four feet below grade along the western fence line of the ORB site.

At the completion of these activities by Fairchild to satisfy the requirements of the ROD, the NYSDEC removed the ORB site from the list of Inactive Hazardous Waste Disposal Sites, i.e., the ORB site was delisted. With this delisting, the NYSDEC closed the ORB site, which indicates that the NYSDEC believes that the ORB site no longer has an impact human health or the environment. Following its delisting, the only remaining administrative requirement was the establishment of protective deed restriction language. A deed restriction is a legal vehicle by which potential future site owners are alerted to the presence of materials (soil and sediments) left on the site that exceed state regulatory guidance values.

In 2002, additional investigations at the ORB Site were conducted as requested by the NYSDEC to allow for the mapping of the bottom sediments and chromium-impacted soils that remained on the site. These investigations included the collection of soil samples at various depths and the collection of soil gas samples. The results of these additional investigations confirmed the findings of the previous investigations and were used by the NYSDEC to develop the deed restriction language.

The purpose of deed restriction language is to alert anyone who may excavate on the property in the future to where the bottom sediments and chromium-impacted material is located and thereby prevent direct contact with the materials. Additionally, this deed restriction information will allow future users to develop plans that will protect both site workers and site users. As part of the deed restriction, two exhibits were developed to present the Waste Areas Map (Exhibit B) and the Elevation Map (Exhibit C). The Waste Areas Map shows the locations of the bottom sediments and the chromium-impacted soils. The Elevation Map provides the current grade elevation of the property. A copy of the deed restriction language provided by the NYSDEC is attached to this SMP as Exhibit D.

The Johnson Property

The Johnson Property is a 4.2-acre site that sits along Conklin Avenue (Route 24) adjacent to the north boundary of the ORB site. There is currently a gasoline station on the northeast corner of the property on Route 110 that is not part of this site. The Johnson Property consists of two adjoining lots: one lot is 0.6 acres and the other is approximately 3.6 acres. A restaurant had stood on the smaller lot, but has been demolished. Although the records are unclear as to when the demolition occurred, it is clear from aerial photographs that the restaurant was no longer on the site in December 1989. Similar to the ORB site, areas of the Johnson Property had also been used for sand mining and for the staging of construction vehicles. The records also indicate that a concrete plant and a

lumberyard were also present at various times on the Johnson Property.
In December 1989, Mr. Johnson contracted with Jo-Mar Environmental Specialists, Inc. (Jo-Mar) to grade the property with clean fill in the areas where the extant restaurant and its septic field were located as well as low areas where past sand mining had occurred. Although Mr. Johnson was seeking to improve the property to allow for future development, no oversight of the filling operations was provided and Jo-Mar illegally dumped approximately 1,200 tons of petroleum-contaminated soil on the Johnson Property. Additionally, since there was no site security, other debris and wastes (tires, construction and demolition debris, etc.) were also illegally dumped on the site.

Following investigations by the Solid Waste Division of the NYSDEC, it was determined that Mr. Johnson was in violation of the New York State solid waste regulations by operating a solid waste management facility without a permit. Mr. Johnson was required to excavate the petroleum-contaminated soils and to address the other wastes and debris found on the site. Prior to addressing these requirements, Fairchild purchased this property from Mr. Johnson. After this purchase, Fairchild assumed the responsibilities associated with the remediation of the Johnson Property.

The remedial actions required to address the Johnson Property included the excavation of the petroleum-contaminated soils. Under a NYSDEC issued Beneficial Reuse Determination (BUD) permit (Permit #99-0001) these petroleum-impacted soils were excavated, treated and combined with an asphalt emulsion to create a material that is acceptable as a sub base for pavement, roadway, and related site improvements. The total amount of recycled subbase material created by this process is approximately 25,000 cubic yards. During these excavation activities, wastes and debris (tires, construction and demolition debris, etc.) that were intermingled with the petroleum-contaminated soils were screened out and disposed off-site. However, other buried wastes that were not intermingled with the petroleum-contaminated soils or were outside of those areas expected to be excavated during redevelopment have been left in-place. The NYSDEC agreed that these materials may remain on-site but a deed restriction would be issued to notify future property users of the potential presence of the debris. Additionally, the deed restriction would state that no debris would be permitted under future buildings. That is, debris found beneath the footprint of a proposed building must be removed and disposed off-site prior to construction. The NYSDEC has also required the installation of a gas venting system to be installed beneath the building slabs to vent gases that may volatilize from the groundwater.

On August 26, 2003 a new BUD (#788-1-30) was issued by the NYSDEC for the beneficial re-use of the sub base material; this BUD approval expires on October 31, 2004. The following use restrictions were established under this BUD (#788-1-30):

- The BUD is only applicable to the subbase material previously produced at the Former Johnson Property. No additional subbase material may be produced under this determination. No subbase material may be used off-site under this determination with out specific NYSDEC approval.

- The BUD applies to the Former Johnson Property and ORB Site only. All subbase material not used in accordance with this BUD must be disposed in accordance with all applicable NYCRR Part 360 regulations.
- The thickness of the subbase material must correspond to the thicknesses specified in the site development plans/project specifications, but in no case may exceed one (1) foot in thickness.
- The subbase material must be spread in lifts four (4) to six (6) inches, maximum, and be compacted after each lift. The maximum thickness of the finished product must not exceed one (1) foot. Material, which is friable, shall not be considered adequately compacted. The subbase material must not be used as fill material or for any use where a hard and compact consistency similar to conventional asphalt pavement will not be produced.
- All subbase material must be covered by either blacktop or a building footprint. No subbase material is to be used as a watering course or surficial course.
- An annual report must be filed within 30 days of the end of each calendar year in which the subbase material is beneficially reused. This report is to include the quantity (in tons) beneficially reused and the quantity (in tons) of that disposed off-site in accordance with the NYCRR Part 360 regulations.

USA Signs Property

The USA Signs property consists of approximately one (1) acre of land. The site is located on East Carmans Road south of Conklin Avenue (Route 24) and consisted of one single story building. The facility was used to manufacture neon and sheet metal signs.

According to the available information, USA Sign purchased the site in 1985. Prior to beginning operations as a sign manufacturing facility, the site was used by a storm door manufacturer. The original building was extended in 1990 to increase manufacturing space. Based on a review of the aerial photographs, the building first appears in the 1966 photograph. The prior photograph (1953) indicates that the subject property was part of the Former Robert Johnson Property.

The offices and the loading dock were located on the west side of the building. The north side of the building sat close to the property line with the Former Johnson Property. There was no noted use of this narrow strip. The south side of the building provided access to the manufacturing portion of the facility. The western half of this side of the property is paved while the rear portion is unpaved. The south side of the building was used for storage of aluminum channels (raw materials) as well as the facility dumpsters (20 cubic yard capacity). One dumpster was used for general facility waste; the other dumpster was used for metal recycle. Approximately 2 to 3 dumpsters were removed per month. Additionally, waste materials (e.g., wood frames, empty Methanol drums) were stored on the south side of the building. USA Signs reported no operations conducted outside the building.

The east side (rear) of the building is a narrow strip (approximately 10 to 15 feet wide) that is unpaved and overgrown. There were approximately 10 to 12 rusted and unmarked, empty 55-gallon

drums in the southeast corner of the property. The origin of these drums was unknown, but believed to be empty methyl alcohol drums discarded by USA Signs. Soil sample results in this area detected no indication of contamination associated with these drums and the operations of the USA Signs facility.

Based on the initial assessment of the USA Signs property, a supplemental environmental investigation was conducted to assess the potential impact of the site operations on the environment. Specifically, soil samples were collected from the east side of the property under the abandoned drums and by an air compressor discharge line. A soil sample was also collected on the north side of the building near an exit door and on the west side of the building near the facility dumpsters.

The results of the supplemental investigation indicated that the surface soils on the property contain various metals in concentrations similar to those found on the ORB site and the Johnson Property. Specifically, cadmium, chromium, copper and iron were detected at all four sample locations at levels above the TAGM #4046 cleanup objectives. The TAGM recommended cleanup objectives for these analytes specify generic concentrations or site background concentrations. Site background concentrations are not available for this locale; however, the types and concentrations of metals detected in the soil samples were typical of similar urban, industrial settings. Additionally, the concentrations detected did not exceed the USEPA Region 3 Risk-Based Concentration (RBC) for industrial soil (October 9, 2002 RBC Table). The RBC for industrial soil is based on an adult worker's incidental ingestion of 100 mg of soil per day in an industrial setting for 250 days per year, for 25 years.

2. Previous Investigations

2.1 Chronology and Nature and Extent of Contamination

Old Recharge Basin Site

- This site has been investigated extensively between 1982 and 1997.
- The investigative work and the remedial actions taken at the site were completed under the direction of the NYSDEC and with input from the Suffolk County Department of Health Services. Based on the results of the investigations and remedial actions, the NYSDEC has delisted the site and has expressed its general satisfaction with the work completed to date.
- Under the approval of the NYSDEC and in accordance with the ROD, sediments remain on the site that contain concentrations of metals and PCBs that are above the state regulated concentrations. Additionally, chromium-impacted soils have been buried on site along the western fence line that exceed the TAGM #4046 soil cleanup objectives (i.e., 10 ppm or Site Background according to Table 4 of the TAGM #4046) as well as the Eastern USA Background concentration (i.e., 1.5 to 40 ppm for chromium according to Table 4 of the TAGM #4046). Recent investigations were completed under a NYSDEC approved Work Plan to map the locations of these sediments and chromium-impacted soils (refer to Exhibit B: Waste Areas). The results of this effort were reviewed by the NYSDEC and used to establish deed language that will limit future site use to commercial and limit excavation in impacted areas of the property.

The Johnson Property

- This property was determined to be an unpermitted solid waste management facility due to the presence of petroleum-contaminated soil and wastes (tires, C&D, etc.). The petroleum-contaminated soils and the intermingled wastes have been excavated. The petroleum-contaminated soils have been treated under a NYSDEC BUD permit and a pavement sub base material has been created that remains on the site. The intermingled wastes have been disposed off site.
- The NYSDEC issued BUD permit (#99-0001) required the reuse of the treated petroleum-impacted material as a pavement sub base by June 1, 2000. Since the sub base material was not reused by the required date, a new BUD permit was required and the sub base material needed to be retested to demonstrate that it is still useable as a pavement sub base. On August 26, 2003 a new BUD (#788-1-30) was issued by the NYSDEC for the beneficial re-use of the sub base material; this BUD approval expires on October 31, 2004.
- A notice covenant and deed restriction is required by the NYSDEC for waste material (buried tires, C&D, etc.) that may remain buried on the Johnson Property. Additionally, this deed restriction will require that any C&D-type waste material located under a proposed building be removed prior to construction.

USA Signs Property

- The main operation of this facility was the manufacturing of neon and sheet metal signs.
- No waste oils or hazardous wastes were generated at the site.
- No wastewaters are generated within the building. Floors and work areas are broom swept.
- The results of supplemental environmental investigations indicate that the USA Signs operations have not impacted the quality of the surface soils associated with this property. Additionally, the groundwater investigations conducted on the downgradient ORB site indicate that the USA Signs operations have not impacted the groundwater.

2.2 Summary of Contamination

The constituents of potential concern (COPCs) for soil at the property consist primarily of metals (especially chromium, cadmium and lead) and PCBs in the sediments of the ORB; chromium-impacted soils buried along the western boundary with East Carmens Road; C&D waste that may remain buried on the Former Johnson Property portion of the site; and metals at the USA Signs portion of the site. Results of groundwater sampling indicate that constituents in the sediments and soil/fill material have not impacted groundwater quality. The PCB and chromium impacted soils buried in the circular area (a.k.a. "Glove area") and the chromium impacted soil areas along the western boundary next to Carmens Road are covered by the deed restrictions as part of the ORB institutional Control Package. It is important to note that soils within the Waste Areas may not exhibit visual or field screening results indicating the presence of contamination. This cannot be taken as a demonstration of the absence of contamination. Specifically, certain constituents of concern within the Waste Areas may not be detected by either visual or field screening methods. Therefore, the soils within the Waste Areas will require proper management as described in this Soil Management Plan.

3. Contemplated Use

The former Fairchild ORB Site, the Former Johnson Property and the USA Signs property have been redeveloped by Stew Leonard's as a commercial food store (with associated parking lot) at the northern end and office/light industrial/retail planned for the southern end. The zoning specifically prohibits residential uses.

4. Summary of Remedy

The constituents of potential concern (COPCs) for soil and groundwater have been identified in Section 2.2 of this document.

The identification of the remedial action objectives (RAOs) for the Site is based primarily on the human health and environmental risks posed by the Site. For this Site, the NYSDEC TAGM #4046 is used to define the RAOs. Based on the commercial/industrial-contemplated use of the property, the RAOs for the Site are to minimize potential exposure to on-site surface soil, subsurface soil, and groundwater and to prevent releases from the contaminated sediments and chromium-impacted soil.

To achieve the RAOs for the Site, the contaminated sediments and the chromium-impacted soil areas (referred to as 'Waste Areas' in Exhibits B and C) were marked with cautionary snow fence and labels and a cover system was constructed over the entire property. The cover system has been placed directly on top of the regraded on-site soil/fill material and consists of the materials described in section 4.1. The PCB and chromium impacted soils buried in the circular area (a.k.a. "Glove area") and the chromium impacted soil areas along the western boundary next to Carmens Road are covered by the deed restrictions as part of the ORB institutional Control Package. Any intrusive site work that is conducted 12 feet or more below the existing grade in those areas not specifically restricted must include the appropriate environmental testing as described in Section 5.3 and on Figure 6-1. Unknown quantities of onsite C&D debris may remain buried on the ORB property following redevelopment. In the event that such materials are not removed from the Site, proper engineering controls will need to be incorporated into the design of any site structure to account for any buried C&D materials that may remain in place.

4.1 Cover System

The purpose of the surface cover system is to eliminate the potential for human contact with the contaminated sediments and the chromium-impacted soil and to eliminate the potential for contaminated runoff from the property. Additionally, the surface cover system provides the foundation for the buildings and associated parking lot for the Stew Leonard's commercial food store. The cover system consists of the following types of clean material, depending on the area of interest:

- Soil: 12 inches of vegetated soil cover underlain by a demarcation layer, in outdoor vegetated areas.

- Asphalt: a minimum of 9 inches of material (asphalt and sub base material) in areas that will become roads, sidewalks, and parking lots. Cross sections of other areas (such as loading docks and associated truck driveways) will be determined based on the intended use of the area.

- Concrete: a minimum of 6 inches of material (concrete and sub base material) in areas that are slab-on-grade structures or for roads, sidewalks, and parking lots in lieu of asphalt. For slab-on-grade structures, a 6-mil polyethylene vapor barrier has been installed beneath the concrete (for sites impacted by VOC contamination only).

- Sub-Slab Venting System: a sub-slab passive venting system is required under each building and all future buildings on the Stew Leonard's Site. The purpose of this passive system is to vent potential subsurface vapors that may rise through the soil matrix and potentially enter the buildings. The venting system is a passive system, but may be altered to become active if found to be necessary.

5. Management of Soil/fill and Long-Term Maintenance of Cover System

The purpose of this section is to provide environmental guidelines for management of subsurface soils/fill and the long-term maintenance of the cover system during any intrusive work that breaches the cover system in the designated 'Waste Areas' or where the planned construction activities will exceed 12 feet below grade.

5.1 Site Preparation – SECTION NOT USED

5.2. Excavation and Grading Below the Cover System

During intrusive activities below the cover system, the excavation of soil/fill material may be necessary for the repair or installation of utility corridors. A Professional Engineer's representative with construction/remediation experience, representing the subject property owner will monitor soil/fill excavations or disturbances for excavation work below the cover system. This Professional Engineer (P.E.) must also provide a stamped/signed certification that excavation work below the cover system and subsequent repair/replacement of the cover system was conducted in a manner consistent with this SMP. This P.E. certification must be included in the annual certification report required in Section 9 of this document.

Excavated soil/fill may be used on-site as fill below the cover system. Soil/fill that is excavated as that cannot be used as fill below the cover system will be further characterized prior to transportation off-site for disposal at a permitted facility. Any soils removed from the designated 'Waste Areas' below the snow fence need to be segregated, characterized, and properly transported for off-site disposal.

5.2.1. Visibly impacted soil/fill or soil/fill that exhibits elevated PID readings

Stained soil is soil that is observed to be discolored, tinted, dyed, unnaturally mottled, or has a sheen. Soil/fill screening and sampling is described in Section 5.3. Excavated soil/fill that is visibly stained or produces elevated photoionization detector (PID) readings (i.e., sustained 10 ppm or greater) will be considered potentially contaminated and stockpiled on the property for further assessment. The potentially contaminated soil/fill will be stockpiled (maximum 50 cubic yard piles) on polyethylene sheeting and then sampled for reuse, treatment, or disposal. The stockpiled, potentially contaminated soil/fill will also be completely covered using polyethylene sheeting to reduce the infiltration of precipitation and the migration of dust. Sampling and analysis will be completed in accordance with the protocols delineated in Section 5.3. Visibly impacted soil/fill containing one or more constituents in excess of the Site Specific Action Levels (SSALs) established in the NYSDEC TAGM #4046 Soil Cleanup Objectives will be transported off-site to an appropriate permitted waste management facility. It is important to note that soils within the Waste Areas may not exhibit visual or field screening results indicating the presence of contamination. This cannot be taken as a demonstration of the absence of contamination. Specifically, certain constituents of concern within the Waste Areas may not be detected by either visual or field screening methods. Therefore, the soils within the Waste Areas will require proper management as described in this Soil Management Plan.

5.2.2. Buried drums or underground storage tanks

If buried drums or underground storage tanks are encountered during soil excavation activities, excavation will cease and the NYSDEC will be immediately notified. All drums and/or underground storage tanks encountered will be evaluated and the contractor will submit a removal plan for NYSDEC approval. Appropriately trained personnel will excavate all of the drums and/or underground storage tanks while following all applicable federal, state, and local regulations. Removed drums and underground storage tanks will be properly characterized and disposed off-site. The soil/fill surrounding the buried drums or underground storage tanks will be considered as potentially contaminated and will be stockpiled and characterized.

5.3. Soil/fill Characterization

A soil characterization flowchart is provided on Figure 6-1.

5.3.1. Excavated and Stockpiled Soil/Fill

Excavated soil/fill may be used on-site as fill below the cover system. Soil/fill that is excavated that cannot be used as fill below the cover system will be further characterized prior to transportation off-site for disposal at a permitted facility. For excavated soil/fill with visual evidence of contamination (i.e., staining or elevated PID measurements), one composite sample and a duplicate sample will be collected for each 100 cubic yards of stockpiled soil/fill. For excavated soil/fill that does not exhibit visual evidence of contamination but must be sent for off-site disposal, one composite sample and a duplicate sample will be collected for 2000 cubic yards of stockpiled soil, and a minimum of 1

sample will be collected for volumes less than 2000 cubic yards.

The composite sample will be collected from five locations within each stockpile. A duplicate composite sample will also be collected. PID measurements will be recorded for each of the five individual locations. One grab sample will be collected from the individual location with the highest PID measurement. If none of the five individual sample locations exhibit PID readings, one location will be selected at random. The composite sample will be analyzed by a NYSDOH ELAP-certified laboratory for pH (EPA Method 9045C), Target Compound List (TCL) SVOCs, pesticides, and PCBs, and TAL metals, and cyanide. The grab sample will be analyzed for TCL VOCs.

Soil samples will be composited by placing equal portions of fill/soil from each of the five composite sample locations into a pre-cleaned, stainless steel (or Pyrex glass) mixing bowl. The soil/fill will be thoroughly homogenized using a stainless steel scoop or trowel and transferred to pre-cleaned jars provided by the laboratory. Sample jars will then be labeled and a chain-of-custody form will be prepared.

5.3.2. Soil/Fill Disposal or Reuse

Visually contaminated soil/fill that has been characterized and found to meet the SSALs (i.e., TAGM #4046 SOIL CLEANUP OBJECTIVES) may be reused as subgrade or excavation subgrade backfill, if appropriate. On-site soil/fill may not be reused as backfill in landscaping berms to be used for the planting of trees and shrubs. If the analysis of the soil/fill samples reveals unacceptably high levels of any analytes, the soil may not be used as backfill on-site and additional analyses will be necessary to further classify the material for disposal purposes. Any materials that are found to contain one or more constituents in excess of the SSALs will be further characterized and managed appropriately. Since the ORB Site is a delisted NYS Hazardous Waste Site, at a minimum, a duplicate sample may need to be analyzed for the toxicity characteristic using the Toxicity Characteristic Leaching Procedure (TCLP) for the particular analytes that were detected at concentrations exceeding the SSALs. The duplicate sample may also be analyzed for the other RCRA Characteristics including reactivity, corrosivity, and ignitability. If the analytical results indicate that concentrations exceed the standards for RCRA characteristics, the material will be considered a hazardous waste and must be properly disposed off-site at a permitted disposal facility within 90 days of excavation.

Additional characterization sampling for off-site disposal may be required by the disposal facility. To potentially reduce off-site disposal requirements/costs, the owner may also choose to characterize each stockpile individually. If the analytical results indicate that the soil is not a hazardous waste, the material will be properly disposed off-site at a non-hazardous waste facility. Stockpiled soil cannot be transported on or off-site until the analytical results are received and reviewed by a P.E.

5.4. Subgrade Material

Subgrade material used to backfill excavations or placed to increase site grades or elevation shall meet the following criteria. These criteria are also summarized in Figure 6-2.

- Excavated on-site soil/fill that appears to be visually impacted shall be sampled and analyzed. Analytical results shall indicate that the contaminants, if any, are present at concentrations below the SSALs (i.e., TAGM #4046 Soil Cleanup Objectives).

- Off-site borrow soils will be documented as having originated from locations having no evidence of disposal or release of hazardous, toxic or radioactive substances, wastes or petroleum products.

- Off-site soils intended for use as site backfill cannot otherwise be defined as a solid waste in accordance with 6 NYCRR Part 360-1.2(a).

- If the contractor designates a source as "virgin" soil, it shall be further documented in writing to be native soil material from areas not having supported any known prior industrial or commercial development or agricultural use.

- Virgin soils should be subject to collection of one representative composite sample per source. The sample should be analyzed for TCL VOCs, SVOCs, pesticides, PCBs, arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, and cyanide. The soil will be acceptable for use as backfill provided that all parameters meet the SSALs (i.e., TAGM #4046 Soil Cleanup Objectives).

- Non-virgin soils will be tested via collection of one composite sample per 500 cubic yards of material from each source area. If more than 1,000 cubic yards of soil are borrowed from a given off-site non-virgin soil source area and both samples of the first 1,000 cubic yards meet SSALs, the sample collection frequency will be reduced to one composite for every 2,500 cubic yards of additional soils from the same source, up to 5,000 cubic yards. For borrow sources greater than 5,000 cubic yards, sampling frequency may be reduced to one sample per 5,000 cubic yards, provided all earlier samples met the SSALs (i.e., TAGM #4046 Soil Cleanup Objectives).

5.5. Cover System Specifications: Refer to Section 4.1

5.6. Erosion Control

When the activities planned will breach the cover system and disturb more than 5 acres of land, Federal and State laws require that the project obtain coverage under the NYSDEC SPDES General Permit for Storm Water Discharges from Construction Activities that are classified as "Associated with Industrial Activity", Permit #GP-93-06 (Construction Storm Water General Permit). Federal and State laws require that the project obtain coverage under the NYSDEC SPDES General Permit for Storm Water Discharges from Construction Activities for certain activities disturbing between 1 and 5 acres of land. Requirements for coverage under the Construction Storm Water General Permit include the submittal of a Notice of Intent form and the development of a Storm Water Pollution Prevention Plan (SWPPP). The SWPPP must fulfill all permit requirements and must be prepared in accordance with "Chapter Four: The Storm Water Management and Erosion Control Plan" in Reducing Impacts of Storm Water Runoff from New Development, NYSDEC, 1992. This Storm Water Management and Erosion Control Plan, in accordance with permit requirements, will provide the following information:

- A background discussion of the scope of the construction project
- A statement of the storm water management objectives
- An evaluation of post-development runoff conditions
- A description of proposed storm water control measures
- A description of the type and frequency of maintenance activities required to support the control measure

The SWPPP will address issues such as erosion prevention, sedimentation control, hydraulic loading, pollutant loading, ecological protection, physical site characteristics that impact design, and site management planning. All descriptions of proposed features and structures at the Site will include a description of structure placement, supporting engineering data and calculations, construction scheduling, and references to established detailed design criteria. The SWPPP will conform to all requirements as established by applicable regulatory agencies.

Proven soil conservation practices will be incorporated in the construction and development plans to mitigate soil erosion, off-site sediment migration, and water pollution from erosion. The use of appropriate temporary erosion control measures such as silt fencing and/or hay bales will be required around all soil/fill stockpiles and unvegetated soil surfaces during redevelopment activities. These methods are described below. Stockpiles shall be graded and compacted as necessary for positive surface water runoff and dust control. Stockpiles of soil/fill will be placed a minimum of 50 feet from the property boundaries.

Temporary erosion control measures.
Temporary erosion and sedimentation control measures and facilities will be employed during active construction stages. Prior to any construction activity, temporary erosion and sediment control measures shall be installed and maintained until such time that permanent erosion control measures

are installed and effective. Appropriate temporary measures will be incorporated into the excavation activities prior to the start of these activities.

As sediment collects along the silt fences {hay bales, etc.}, they will be cleaned to maintain desired removal performance and prevent structural failure of the fence. Accumulated sediment will be removed when 50% of the storage capacity of the silt fence is full. Removed sediment will be stockpiled and characterized in accordance with Section 5.3. The perimeter silt fences will remain in place until excavation activities in the area are completed and vegetative cover or other erosion control measures are adequately established. Silt fences will be provided and installed in accordance with the New York Guidelines for Urban Erosion and Sediment Control.

Permanent erosion control measures.
Permanent erosion control measures and facilities will be incorporated during cover construction and during site redevelopment for long-term erosion protection. Permanent measures and facilities will be installed as early as possible during construction phases. Parking and building systems associated with redevelopment shall not include dry wells or other subsurface injections/disposal piping or facilities.

The remedial construction activities will involve the installation of a cover system including asphalt, concrete, or topsoil over the entire site. Permanent erosion control measures incorporate a combination of design features to limit overall erosion and sediment problems to practical design limits, and the placement of permanent facilities during site restoration for long-term erosion protection.

Design features incorporated into the excavation plans to control erosion will include limiting steep slopes, routing runoff to surface water collection channels, limiting flow velocities in the collection channels to the extent practical, and lining collection channels, where appropriate. In areas where flow will be concentrated (i.e., collection channels) the channel slopes and configuration will be designed to maintain channel stability.

Any final slopes greater than 33 percent will be reinforced, and will have a demarcation layer under the clean cover to indicate if erosion has extended to the subgrade. Following the placement of final cover soils over regraded areas, a revegetation program will be implemented to establish permanent vegetation. Vegetation serves to reduce erosion, enhance evapotranspiration, and improve runoff water quality.

5.7. Dust Control

The surface of unvegetated or disturbed soil/fill areas will be wetted with water or other dust suppressive agents to control dust during excavation activities that breach the cover system. No subgrade material will be left exposed for extended interim periods (greater than 90 days) prior to replacement of final cover without a temporary cover system (i.e., tarps, spray type cover system, etc.) or planted with vegetation to control fugitive dust to the extent practicable.

5.8. Construction Water Management - SECTION NOT USED

5.9. Access Controls

Access to soil/fill on the property must be controlled until replaced under the cover system or removed off site for disposal. Excavated subgrade material that is stockpiled on site must be temporarily covered to limit access to that material.

5.10. Institutional Controls

The use of the property has been restricted through a deed restriction that prevents the use of ground water and disturbance of the final cover system. Deed restrictions are described in detail in Deed Restriction.

5.11. Maintenance

Maintenance of the cover system and adherence to this SMP is the responsibility of the property Owner. The purpose of routine maintenance is to ensure that the cover system continues to operate in a manner consistent with the intent of the Deed Restriction. Maintaining a vegetative cover will reduce erosion of the soil cover system. In order to reduce the disturbance of the soil cover material, berms or mounds composed of clean soil will be constructed in areas in which trees and shrubs will be planted. Cover materials, fencing, signs, and gates will be inspected annually and repaired as needed.

The main features of the operation and maintenance of the cover system are:

- Inspection procedures
- Evaluation of the final cover system (i.e., vegetative cover, roads, buildings, parking lots, etc.) for sloughing, cracks, settlement, erosion, distressed vegetation, damaged fencing, gates or signs
- Repair of any deficiencies found

6. Health and Safety

Invasive work performed at the property will be performed in accordance with all applicable local, state, and federal regulations to protect worker health and safety.

If intrusive work is expected to breach the cover system at the property, all contractors performing redevelopment or maintenance activities will be required to prepare a site-specific, activity-specific Health and Safety Plan (HASP). The HASP must also include provisions for protection of the community as described in Section 6.2.

6.1. Construction Personnel Protection

Contractors engaged in subsurface construction or maintenance activities (e.g., foundation and utility workers) will be required to implement appropriate health and safety procedures. These procedures will involve, at a minimum, donning adequate personal protective equipment, performing appropriate air monitoring, and implementing other engineering controls as necessary to mitigate potential ingestion, inhalation, and contact with residual constituents in the soils. Recommended health and safety procedures include, but may not be limited to, the following:

- While conducting invasive work at the Site, the Contractor shall provide safe and healthful working conditions. The Contractor shall comply with all New York State Department of Labor regulations and published recommendations and regulations promulgated under the Federal Occupational Safety and Health Act of 1970 and the Construction Safety Act of 1969, as amended, and with laws, rules, and regulations of other authorities having jurisdiction. Compliance with governmental requirements is mandated by law and considered only a minimum level of safety performance. The Contractor shall insure that all work is performed in accordance with recognized safe work practices.

- The Contractor shall be responsible for the safety of the Contractor's employees and the public. The Contractor shall be solely responsible for the adequacy and safety of all construction methods, materials, equipment and the safe prosecution of the work.

- The Contractor is responsible to ensure that all project personnel have been trained in accordance with 29 CFR 1910.120.

- The Contractor shall have a HASP, written in accordance with 29 CFR 1926.65, prepared, signed and sealed by a safety professional; a safety professional and/or a trained safety representative(s) active on the job whenever the work is in progress; an effective and documented safety training program; and a safety work method check list system.

- Recognition as a safety professional shall be based on a minimum of certification by the Board of Certified Safety Professionals as a Certified Safety Professional and 5 years of professional safety management experience in the types of construction and conditions expected to be encountered on the Site.

- All personnel employed by the Contractor or his subcontractors or any visitors whenever entering the job site, shall be required to wear appropriate personal protection equipment required for that area.

6.2. Community Air Monitoring Program

In the event that more than 100 square feet of the cover system is disturbed, air monitoring will be performed in accordance with the New York State Department of Health (NYSDOH) Generic Community Air Monitoring Plan, which is included in Exhibit E. All air monitoring readings will be recorded in a logbook and will be available for review by the NYSDEC and NYSDOH.

7. Quality Assurance/Quality Control

7.1. Analytical Data

All characterization samples collected during site redevelopment activities will be analyzed using the most recent NYSDEC Analytical Services Protocol (ASP), consistent with Section 2 of DER-10, the Technical Guidance for Site Investigation and Remediation.

The laboratory proposed to perform the analyses will be certified through the New York State Department of Health Environmental Laboratory Approval Program (ELAP) to perform Contract Laboratory Program (CLP) analysis and Solid Waste and Hazardous Waste Analytical testing on all media to be sampled during this investigation. The laboratory will maintain this certification for the duration of the project.

The detection limit for compounds listed as SSALs in as established in the NYSDEC TAGM #4046 Soil Cleanup Objectives shall be equal to or less than the noted action level.

Procedures for chain of custody, laboratory instrumentation calibration, laboratory analyses, reporting of data, internal quality control, and corrective actions shall be followed as per NYSDEC ASP and as per the laboratory's Quality Assurance Plan. Where appropriate, trip blanks, field blanks, field duplicates, and matrix spike, matrix spike duplicate shall be performed at a rate of 5% (1 per up to 20 samples) and will be used to assess the quality of the data. The laboratory's in-house QA/QC limits will be utilized whenever they are more stringent than those suggested by the EPA methods.

8. Operation, Monitoring & Maintenance

The cover system shall be maintained on a routine basis to be determined by Stew Leonard's to be appropriate for its use. Inspections of the cover system shall be conducted semi-annually, at a minimum.

9. Notification and Reporting

There shall be no non-emergency excavation activities that result in the disturbance of the property, which threatens the integrity of the cover system or which would result in human exposure to contaminated soils, unless prior written approval by the NYSDEC is obtained. Therefore, notification of NYSDEC at the address below should precede any such work by at least 30 days, to allow time for review and any necessary revisions of a work plan.

The following minimum notification and reporting requirements shall be followed by the property owner prior to and following site development, as appropriate:

- If buried drums or underground storage tanks are encountered during soil excavation activities, excavation will cease and the NYSDEC will be immediately notified.
- Annual certifications must be submitted, by an engineer licensed to practice in New York State, to the NYSDEC, substantiating that the institutional and engineering controls and restrictions are still in place and being properly maintained. The annual certification must be submitted by January 15th of each year to the following NYSDEC contact:

  Mr. Jerry Rider, P.E.
  NYSDEC
  Division of Environmental Remediation
  625 Broadway, Albany, NY 12233-7010

If the cover system has been breached during the year covered by that Annual Report, the owner of the property shall include the following in that annual report:

- A certification that all work was performed in conformance with this SMP
- Plans showing areas and depth of fill removal
- Copies of daily inspection reports for soil-related issues
- Description of erosion control measures
- A text narrative describing the excavation activities performed, health and safety monitoring performed (both site specified and Community Air Monitoring), quantities and locations of soil/fill excavated, disposal locations for the soil/fill, soil sampling locations and results, a description of any problems encountered, location and acceptability test results for backfill sources, and other pertinent information necessary to document that the site activities were carried out properly

If the disturbed area exceeds one acre, the following must also be included in the annual certification:

- Plans showing before and after survey elevations on a 100-foot grid system to document the thickness of the clean soil cover system

Notification contacts are as follows:

NYSDEC
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7011

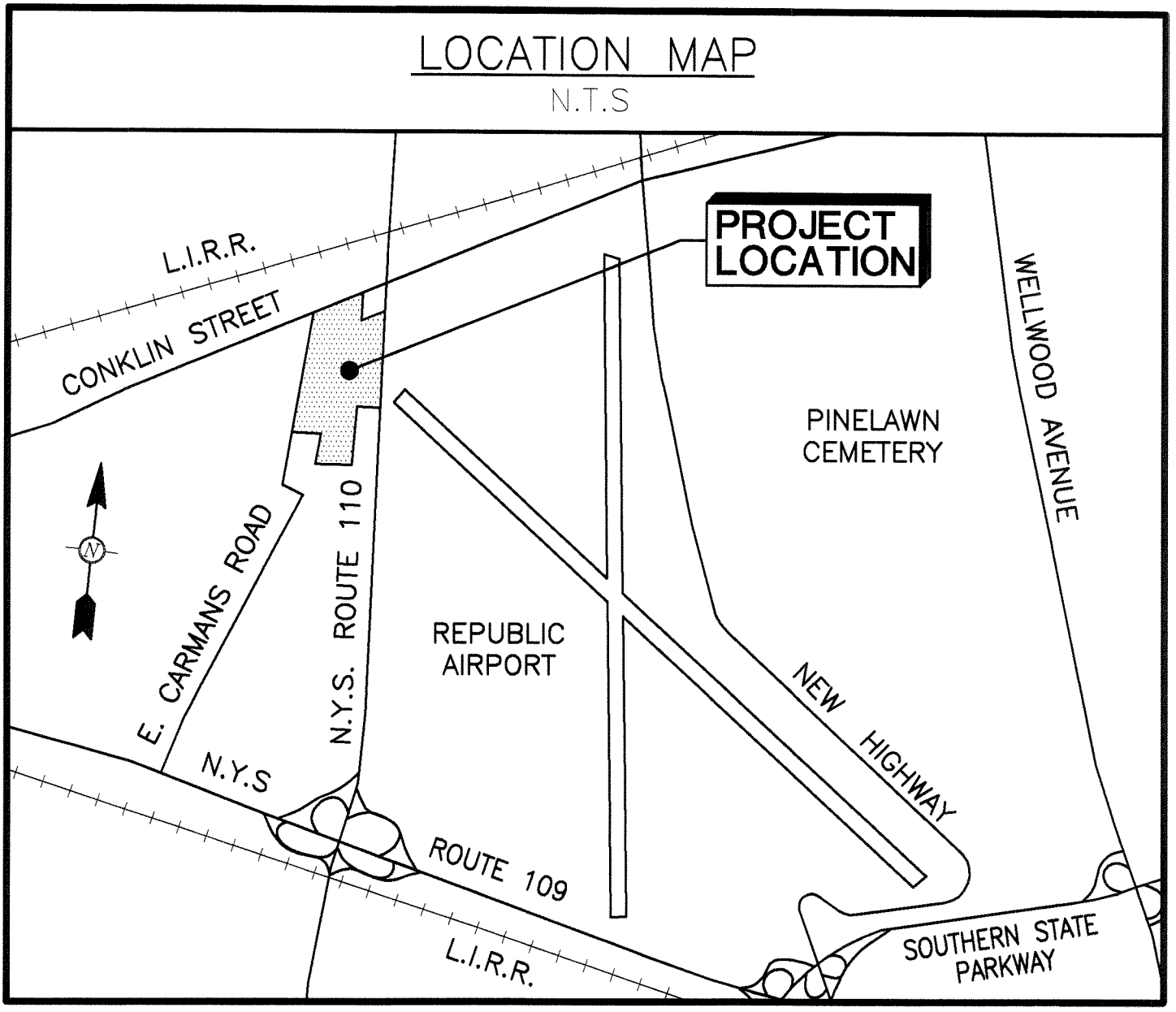
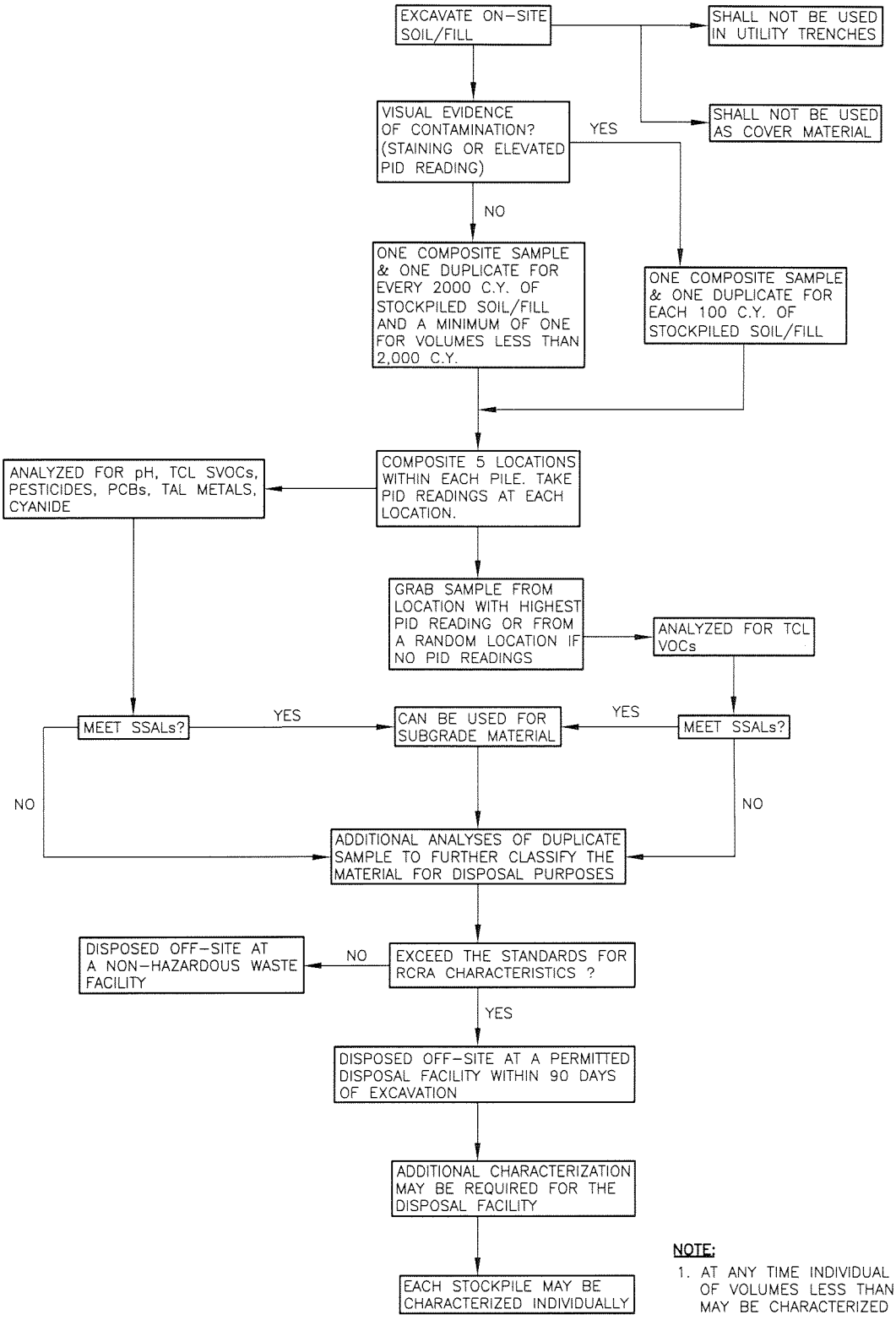

LOCATION MAP
N.T.S
L.I.R.R.
CONKLIN STREET
PROJECT LOCATION
WELLWOOD AVENUE
PINELAWN CEMETERY
E. CARMANS ROAD
N.Y.S. ROUTE 110
REPUBLIC AIRPORT
NEW HIGHWAY
N.Y.S
ROUTE 109
L.I.R.R.
SOUTHERN STATE PARKWAY

FIGURE 1–1

FIGURE 6-1



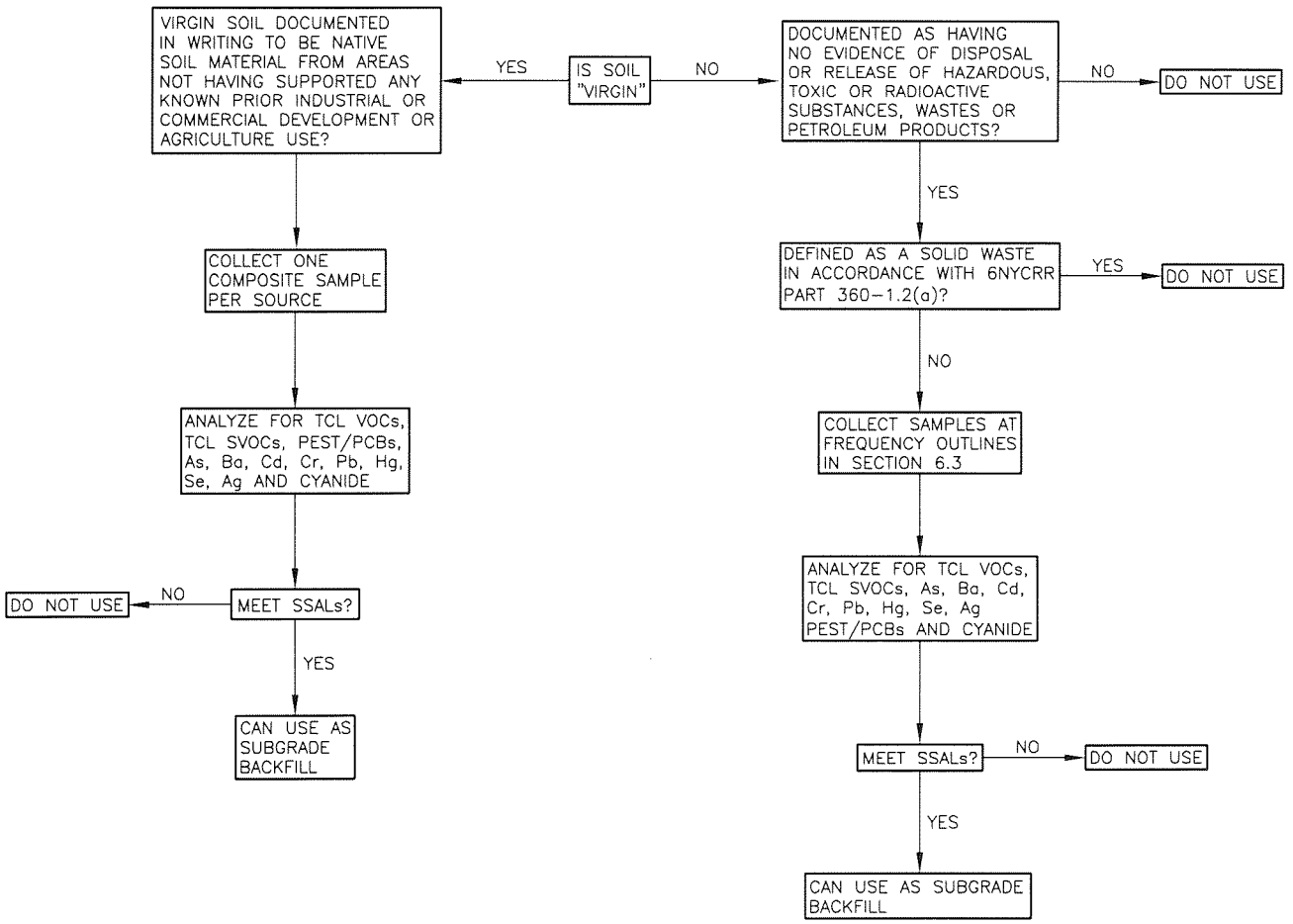
NOTE:

1. AT ANY TIME INDIVIDUAL STOCKPILES OF VOLUMES LESS THAN THOSE STATED MAY BE CHARACTERIZED INDIVIDUALLY.

Soil Characterization Flow Chart

DWG PATH: I:\DIV83\PROJECTS\10569\25466\DWGS\PHASE II\008.DWG

FIGURE 6-2



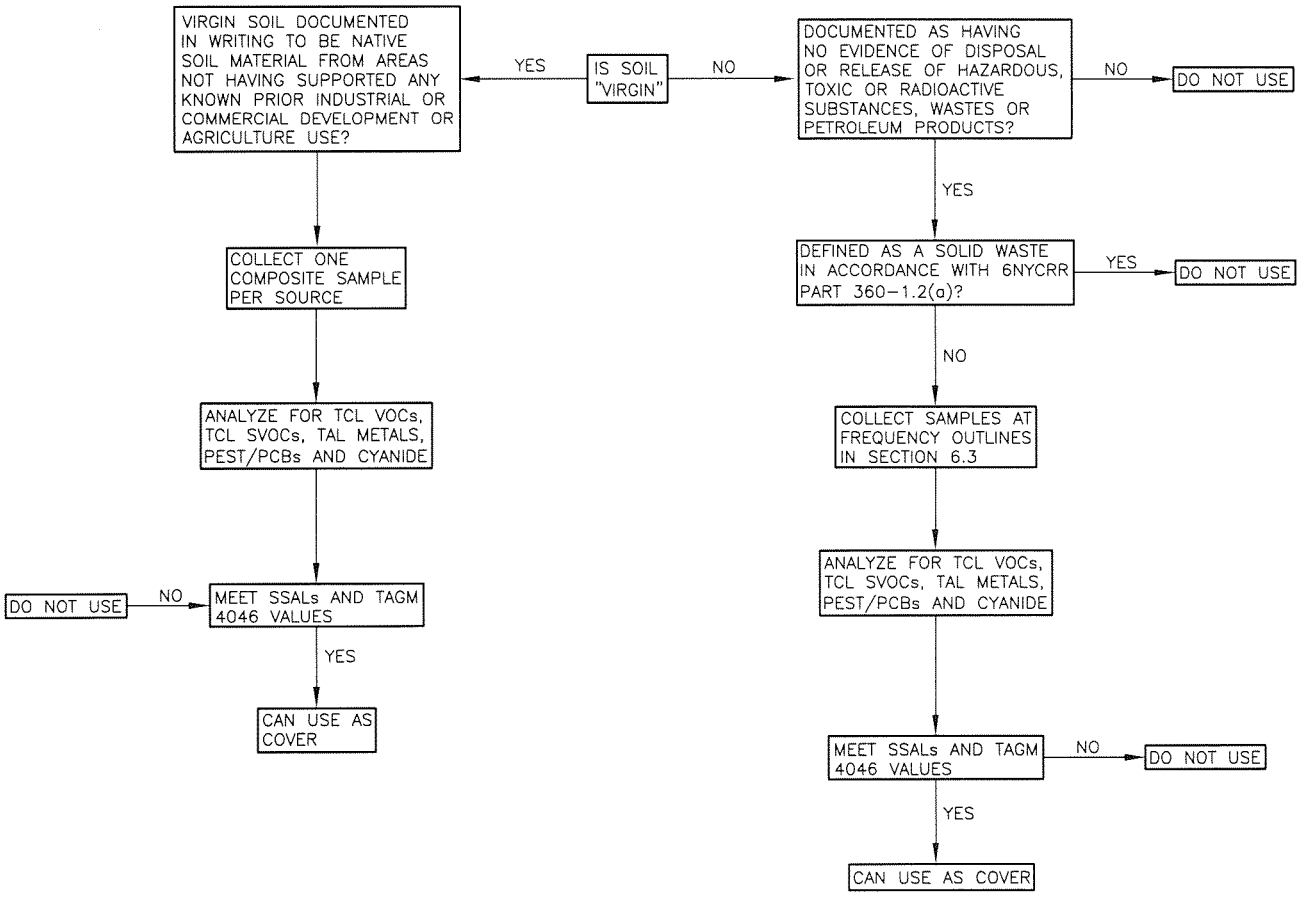
NOTE:

1. AT ANY TIME INDIVIDUAL STOCKPILES OF VOLUMES LESS THAN THOSE STATED MAY BE CHARACTERIZED INDIVIDUALLY.

Flow Chart for Subgrade Backfill Using Offsite Sources

DWG PATH: I:\DIV83\PROJECTS\10569\25466\PHASE II\DWGS\008.DWG

FIGURE 6-3



Flow Chart for Cover Soil Using Offsite Sources

NOTE:

1. AT ANY TIME INDIVIDUAL STOCKPILES OF VOLUMES LESS THAN THOSE STATED MAY BE CHARACTERIZED INDIVIDUALLY.

Exhibit A
NYSDEC letter approving this Soils Management Plan

NYSDEC APPROVAL LETTER

TO BE INSERT

Exhibit B
Waste Area Map

CHROMIUM SOIL
PARCEL A (along East Carmens Road fence)

ALL THAT PIECE OR PARCEL OF LAND SITUATE AND BEING IN THE TOWN OF BABYLON, COUNTY OF SUFFOLK, STATE OF NEW YORK, AS SHOWN ON THE ACCOMPANYING MAP AND DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT ON THE INTERSECTION OF THE SOUTHERLY SIDE OF CONKLIN STREET WITH THE EASTERLY SIDE OF EAST CARMANS ROAD; THENCE RUNNING ALONG THE EASTERLY SIDE OF EAST CARMANS ROAD, SOUTH 11 DEGREES 00 MINUTES 46 SECONDS WEST, 348.25 FEET TO A POINT;

THENCE RUNNING INTO THE PROPERTY KNOWN AS STEW LEONARD'S @ BABYLON THE FOLLOWING TWO (2) COURSES AND DISTANCES:

(1) SOUTH 87 DEGREES 39 MINUTES 24 SECONDS EAST, 13.67 FEET TO A POINT;
(2) SOUTH 02 DEGREES 20 MINUTES 36 SECONDS WEST, 23.01 FEET TO THE POINT OF BEGINNING.

FROM THE POINT OF BEGINNING THENCE RUNNING THE FOLLOWING EIGHT (8) COURSES AND DISTANCES:

(1) SOUTH 10 DEGREES 43 MINUTES 47 SECONDS WEST, 644.40 FEET;
(2) SOUTH 78 DEGREES 59 MINUTES 00 SECONDS WEST, 86.32 FEET;
(3) NORTH 23 DEGREES 48 MINUTES 00 SECONDS EAST, 218.51 FEET;
(4) NORTH 82 DEGREES 34 MINUTES 00 SECONDS WEST, 85.00 FEET;
(5) NORTH 11 DEGREES 01 MINUTES 00 SECONDS EAST, 384.00 FEET;
(6) SOUTH 87 DEGREES 40 MINUTES 00 SECONDS EAST, 80.00 FEET;
(7) NORTH 01 DEGREES 40 MINUTES 00 SECONDS EAST, 60.00 FEET:
(8) NORTH 87 DEGREES 40 MINUTES 00 SECONDS WEST, 124.00 FEET TO THE POINT OR PLACE OF BEGINNING.

CHROMIUM SOIL
PARCEL B (Isolated Area East of Parcel A)

ALL THAT PIECE OR PARCEL OF LAND SITUATE AND BEING IN THE TOWN OF BABYLON, COUNTY OF SUFFOLK, STATE OF NEW YORK, AS SHOWN ON THE ACCOMPANYING MAP AND DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT ON THE INTERSECTION OF THE SOUTHERLY SIDE OF CONKLIN STREET WITH THE EASTERLY SIDE OF EAST CARMANS ROAD; THENCE RUNNING ALONG THE EASTERLY SIDE OF EAST CARMANS ROAD, SOUTH 11 DEGREES 00 MINUTES 46 SECONDS WEST, 348.25 FEET TO A POINT;

THENCE RUNNING INTO THE PROPERTY KNOWN AS STEW LEONARD'S @ BABYLON THE FOLLOWING SIX (6) COURSES AND DISTANCES:

(1) SOUTH 87 DEGREES 39 MINUTES 24 SECONDS EAST, 13.67 FEET TO A POINT;
(2) SOUTH 02 DEGREES 20 MINUTES 36 SECONDS WEST, 23.01 FEET;
(3) SOUTH 10 DEGREES 43 MINUTES 47 SECONDS WEST, 644.40 FEET;
(4) SOUTH 78 DEGREES 59 MINUTES 00 SECONDS WEST, 86.32 FEET;
(5) NORTH 23 DEGREES 48 MINUTES 00 SECONDS EAST, 218.51 FEET;
(6) NORTH 48 DEGREES 32 MINUTES 54 SECONDS EAST, 57.25 FEET TO THE POINT OR PLACE OF BEGINNING.

FROM THE POINT OF BEGINNING THENCE RUNNING THE FOLLOWING FOUR (4) COURSES AND DISTANCES:

(1) SOUTH 87 DEGREES 39 MINUTES 54 SECONDS EAST, 30.00 FEET;
(2) NORTH 02 DEGREES 20 MINUTES 06 SECONDS WEST, 30.00 FEET;
(3) NORTH 87 DEGREES 39 MINUTES 54 SECONDS WEST, 30.00 FEET;
(4) SOUTH 02 DEGREES 20 MINUTES 06 SECONDS EAST, 30.00 FEET TO THE POINT OR PLACE OF BEGINNING.

BURIED BOTTOM SEDIMENT
(aka Glove Area)

ALL THAT PIECE OR PARCEL OF LAND SITUATE AND BEING IN THE TOWN OF BABYLON, COUNTY OF SUFFOLK, STATE OF NEW YORK, AS SHOWN ON THE ACCOMPANYING MAP AND DESCRIBED AS FOLLOWS:

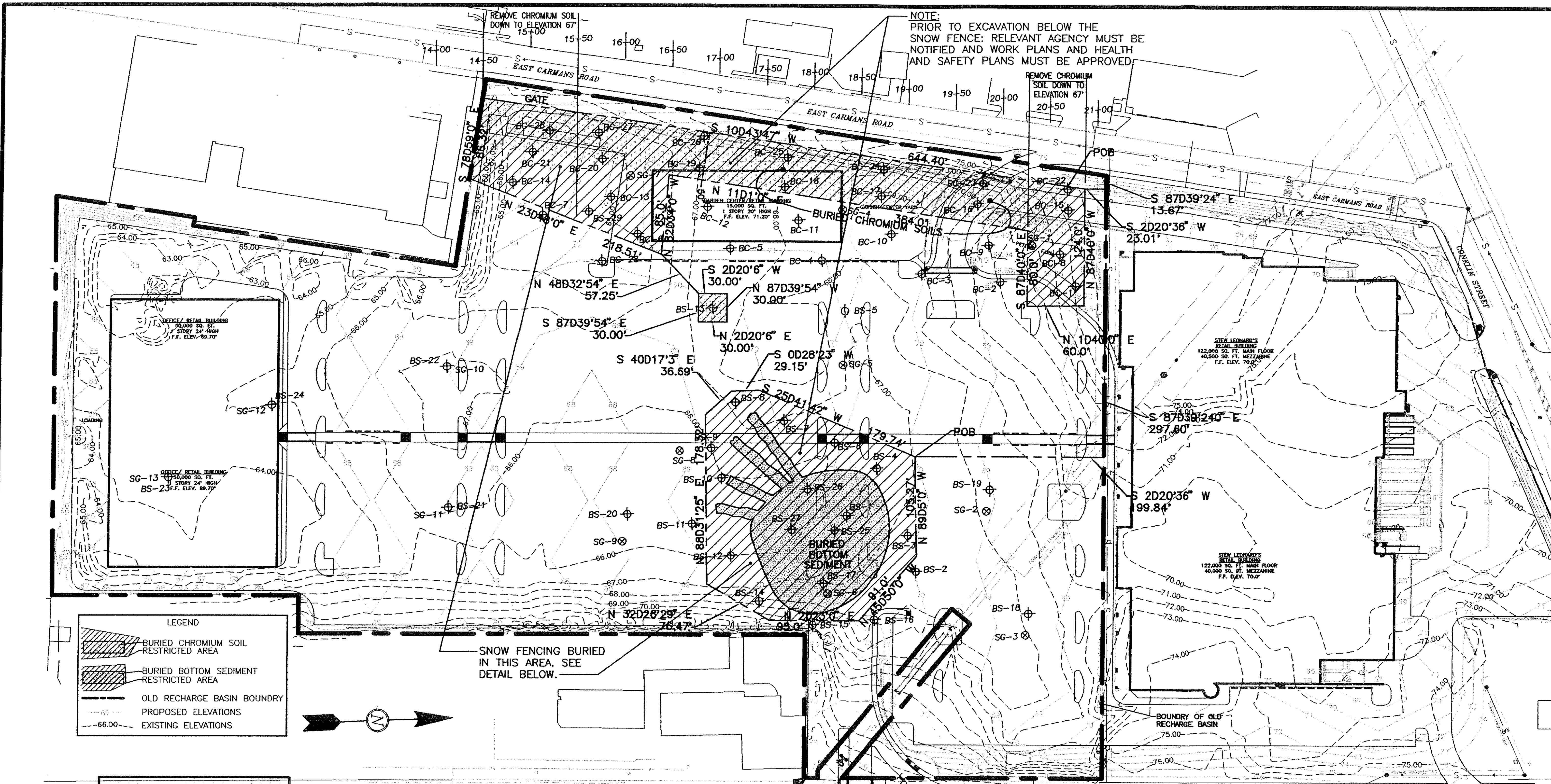
COMMENCING AT A POINT ON THE INTERSECTION OF THE SOUTHERLY SIDE OF CONKLIN STREET WITH THE EASTERLY SIDE OF EAST CARMANS ROAD; THENCE RUNNING ALONG THE EASTERLY SIDE OF EAST CARMANS ROAD, SOUTH 11 DEGREES 00 MINUTES 46 SECONDS WEST, 348.25 FEET TO A POINT;

THENCE RUNNING INTO THE PROPERTY KNOWN AS STEW LEONARD'S @ BABYLON THE FOLLOWING TWO (2) COURSES AND DISTANCES:

(1) SOUTH 87 DEGREES 39 MINUTES 24 SECONDS EAST, 297.60 FEET TO A POINT;
(2) SOUTH 02 DEGREES 20 MINUTES 36 SECONDS WEST, 199.84 FEET TO THE POINT OF BEGINNING.

FROM THE POINT OF BEGINNING THENCE RUNNING THE FOLLOWING EIGHT (8) COURSES AND DISTANCES:

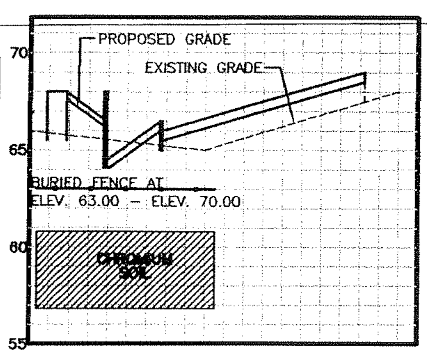
(1) SOUTH 25 DEGREES 41 MINUTES 42 SECONDS WEST, 179.74 FEET;
(2) SOUTH 00 DEGREES 28 MINUTES 23 SECONDS WEST, 29.15 FEET;
(3) SOUTH 40 DEGREES 17 MINUTES 03 SECONDS EAST, 36.69 FEET;
(4) NORTH 88 DEGREES 31 MINUTES 25 SECONDS EAST, 178.32 FEET;
(5) NORTH 32 DEGREES 26 MINUTES 29 SECONDS EAST, 76.47 FEET;
(6) NORTH 02 DEGREES 23 MINUTES 00 SECONDS EAST, 95.00 FEET;
(7) NORTH 45 DEGREES 50 MINUTES 00 SECONDS WEST, 91.00 FEET:
(8) NORTH 89 DEGREES 05 MINUTES 00 SECONDS WEST, 105.27 FEET TO THE POINT OR PLACE OF BEGINNING.



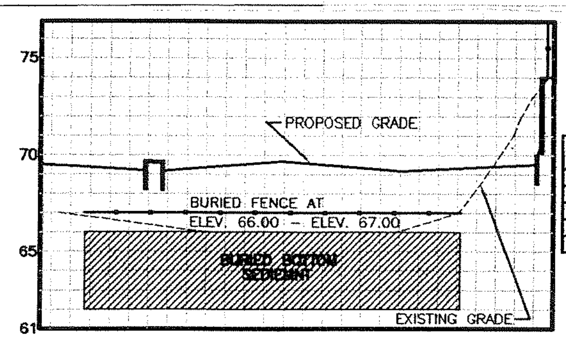
STATION	ELEVATION OF FENCE
14+50	*
15+00	*
15+50	65
16+00	65
16+50	66
17+00	66
17+50	66
18+00	66
18+50	69
19+00	69
19+50	70
20+00	67
20+50	67**
20+87	67**

* – REMOVE CHROMUIUM SOILS FOR SEWER INSTALLATION.

** – REMOVE CHROMUIUM SOILS DOWN TO ELEVATION 67.



TYPICAL SECTION – BURIED BOTTOM SEDIEMNT WASTE AREAS SNOW FENCE DETAIL



TYPICAL SECTION – BURIED BOTTOM SEDIEMNT WASTE AREAS SNOW FENCE DETAIL

STATION	ELEVATION OF FENCE
17+00	67
17+50	66
18+00	65
18+50	67
19+00	67

SOIL BORING LOG

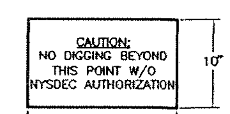
BORING	CROMIUM DEPTH & CONCENTRATION	EXISTING ELEVATION	PROPOSED ELEVATION
BC-1	4-12' > 40 mg/kg	74.65	70.13
BC-6	4-12' > 40 mg/kg	64.77	70.91
BC-14	4-8' > 40 mg/kg	64.80	67.62
BC-16	4-12' > 40 mg/kg	69.66	70.72
BC-17	4-12' > 40 mg/kg	68.82	70.81
BC-18	8-12' > 40 mg/kg	67.42	71.70
BC-19	8-12' > 40 mg/kg	66.90	71.42
BC-20	4-12' > 40 mg/kg	64.32	70.11
BC-24	4-8' > 40 mg/kg	69.95	70.99
BC-25	4-12' > 40 mg/kg	67.59	71.50
BC-26	4-12' > 40 mg/kg	68.07	72.24
BC-27	4-8' > 40 mg/kg	64.86	70.56
BC-28	4-12' > 40 mg/kg	64.71	70.01

NOTE:
BC = BELOW CRITERIA
NA = NOT APPLICABLE
ND = NON DETECTED

SOIL BORING LOG

BORING	PCB DEPTH & CONCENTRATION	CROMIUM DEPTH & CONCENTRATION	EXISTING ELEVATION	PROPOSED ELEVATION
BS-3	0-4' 2.1 mg/kg 4-8' 1.5 mg/kg	BC	67.13	70.62
BS-4	8-12' 8.4 mg/kg	8-12' > 40 mg/kg	66.50	71.10
BS-8	8-12'	BC	67.04	70.11
BS-10	0-4'	BC	65.52	70.03
BS-12	BC	8-12' > 40 mg/kg	65.30	69.96
BS-13	4-8' 5.0 mg/kg 8-12' 4.0 mg/kg	4-8' > 40 mg/kg	67.79	70.10
BS-15	4-8'	BC	69.90	72.12
BS-25	12-16' 590 mg/kg	8-12' > 40 mg/kg	66.15	71.42
BS-27	8-12' 370 mg/kg	8-12' > 40 mg/kg	66.15	71.01

NOTE:
THE BARRIER FENCE SHALL BE PLACED AT ELEVATION 66.00 AT IDENTIFIED WASTE AREAS.
ENVIRONMENTAL DATA INTERPRETATION PREPARED BY MALCOLM PIRNIE, INC.
104 CORPORATE PARK DRIVE
WHITE PLAINS, NY 10602



NOTE:
SIGNS TO BE PLACED 25' O.C.

TYPICAL SIGN FOR WASTE AREAS
N.T.S.

THE PLANS AND SPECIFICATIONS SHALL NOT BE ALTERED IN ANY MANNER EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

EAST FARMINGDALE
SUFFOLK COUNTY, NEW YORK

STEW LEONARD'S @ BABYLON

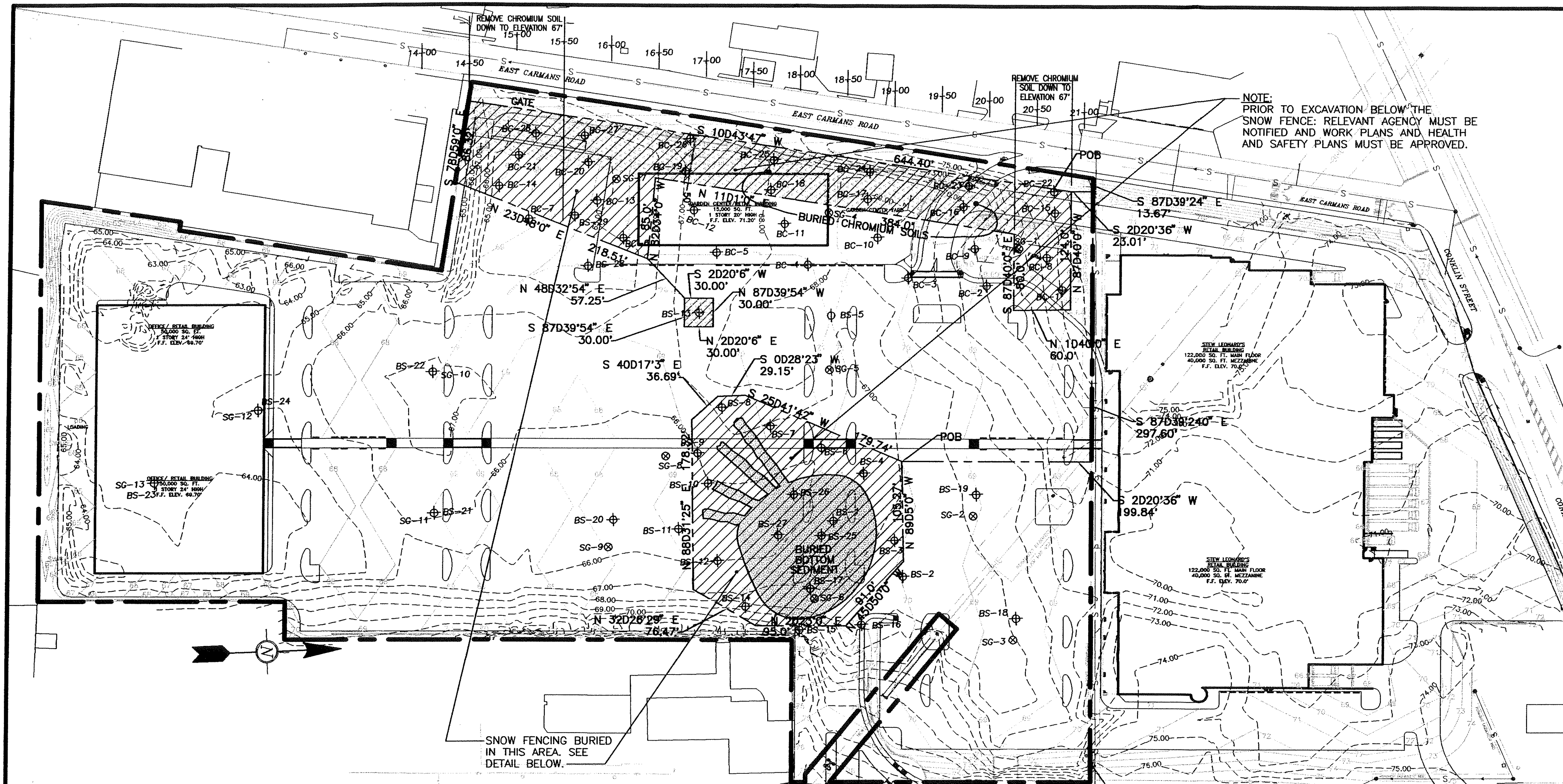
EXHIBIT B
WASTE AREAS

SAVIK & MURRAY, LLP
CONSULTING ENGINEERS

DATE: 10-31-03
SCALE: 1"=100'
PROJECT NO.: 202012.04
CAD FILE: 202012.04PIRN

SHEET NO. 1 OF 1

Exhibit C
Elevation Map



NOTE:
PRIOR TO EXCAVATION BELOW THE SNOW FENCE: RELEVANT AGENCY MUST BE NOTIFIED AND WORK PLANS AND HEALTH AND SAFETY PLANS MUST BE APPROVED.

NOTE:
NO DIGGING OR EXCAVATING SHALL OCCUR BELOW A DEPTH OF 12 FEET FROM EXISTING TOP OF GRADE WITHOUT A PRIOR RELEVANT AGENCY APPROVED WORK PLAN AND APPROPRIATE ENVIRONMENTAL TESTING.

LEGEND

- BURIED CHROMIUM SOIL RESTRICTED AREA
- BURIED BOTTOM SEDIMENT RESTRICTED AREA
- OLD RECHARGE BASIN BOUNDRY
- 69 PROPOSED ELEVATIONS
- 66.00 EXISTING ELEVATIONS

THE PLANS AND SPECIFICATIONS SHALL NOT BE ALTERED IN ANY MANNER EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

EAST FARMINGDALE
SUFFOLK COUNTY, NEW YORK

STEW LEONARD'S @ BABYLON

EXHIBIT C
ELEVATION MAP

SAVIK & MURRAY, LLP
CONSULTING ENGINEERS

DATE: 10-31-03	SHEET NO.	
SCALE: 1"=100'	1	
PROJECT NO.: 202012.04	OF	
CAD FILE: 202012.04PIRN	1	

Exhibit D
Deed Restriction

TO BE PROVIDED BY
THE NYSDEC

Exhibit E
New York State Department of Health Generic Community Air Monitoring Plan

Department of Environmental Conservation

Division of Environmental Remediation

DRAFT DER-10

TECHNICAL GUIDANCE

FOR

SITE INVESTIGATION AND REMEDIATION

December 2002
(12/25/02)

New York State Department of Environmental Conservation
GEORGE E. PATAKI, *Governor* ERIN M. CROTTY, *Commissioner*

DIVISION OF ENVIRONMENTAL REMEDIATION
TECHNICAL GUIDANCE FOR
SITE INVESTIGATION AND REMEDIATION

APPENDIX 1A

New York State Department of Health
Generic Community Air Monitoring Plan

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical- specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for volatile organic compounds (VOCs) and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate NYSDEC/NYSDOH staff.

Continuous monitoring will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. "Periodic" monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

All 15-minute readings must be recorded and be available for State (DEC and DOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.

- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

All readings must be recorded and be available for State (DEC and DOH) personnel to review.

References

DER-10/Technical Guidance for Site Investigation and Remediation, New York State Department of Environmental Conservation, May 3, 2010.

A Guide on Remedial Actions at Superfund Sites With PCB Contamination, United States Environmental Protection Agency, August 1990

Presumptive Remedy for Metals-in-Soil Sites, United States Environmental Protection Agency, September 1999

Old Recharge Basin Final Remediation Investigation Report, Eder Associates, September 1995

Bottom Sediment Investigation Report, MAC Consultants, August 2002

Site No. 152004, Fairchild Old Sump Site, Broad Hollow Road, East Farmingdale, NY – June-July 2014 Remedial Investigation Summary Report, October 29, 2014