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November 10, 1998

Ms. Jeanne Griffin
United States Environmental Protection Agency
Region 5
77 West Jackson Blvd (SE-4J)
Chicago, Illinois 60604

Re: Whittier Peninsula Brownfield Investigation Report
USEPA No.: OHB000001706

Dear Ms. Griffin:

Enclosed is the Brownfield Investigation Report for the Whittier Peninsula Brownfield site in Columbus, Franklin County, Ohio. This Brownsfield Investigation Report is being submitted under the 1997 USEPA Cooperative Agreement. The report compares sample results to the Ohio Voluntary Action Program (OVAP) Generic Direct Contact Soil Standards for Carcinogenic and Non-Carcinogenic Chemicals of Concern - Residential Land Use Category. If you have any questions or comments regarding this document, please contact me at (614) 728-1722.

Sincerely,

Trisha Taylor

Trisha Taylor
Division of Emergency and Remedial Response
Site Investigation Field Unit

cc: Laura Fay, DERR- CO
Jeff Wander, DERR-SIFU
Sam Yebaile, DERR-CDO
File

BROWNFIELD INVESTIGATION

for

Whittier Peninsula

Columbus, Ohio

U.S. EPA ID: OHB000001706

November 6, 1998

Signature Page

Prepared & Reviewed by: _____ Date: 11-6-98

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Site Coordinator, District Office
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Early Action Project Manager
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U.S. Environmental Protection Agency

Trisha

BROWNFIELD INVESTIGATION

for

Whittier Peninsula

Columbus, Ohio

U.S. EPA ID: OHB000001706
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BROWNFIELD INVESTIGATION

for

Whittier Peninsula

Columbus, Franklin County
U.S. EPA ID: OHB000001706

Prepared by:

OHIO ENVIRONMENTAL PROTECTION AGENCY
Division of Emergency & Remedial Response

November 6, 1998

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1.0 EXECUTIVE SUMMARY

Ohio Environmental Protection Agency (OEPA), Division of Emergency and Remedial Response (DERR) personnel conducted a brownfield investigation at the Whittier Peninsula project area, Franklin County, Ohio on August 5-6, 1998. The two areas investigated at the Whittier Peninsula project area were Maier Place and the City of Columbus Parks and Recreation, Police Impound Lot.

Several contaminants were found to be present in the soil samples obtained from various locations. When compared to Ohio Voluntary Action Program (OVAP) Residential Land Use Category, the results are not considered elevated with the exception of lead at GP2. Several contaminants were found to be present in the groundwater samples obtained from various locations. When compared to the Maximum Contaminant Levels (MCLs) (National Primary Drinking Water Standard) which also are the OVAP Generic Unrestricted Potable Use Standards, these results are considered elevated.

The soil sample obtained from GP2 had lead present at 1290 mg/kg. The OVAP standard is 400 mg/kg. As indicated earlier, this is considered elevated. GP2 was obtained from the western edge of the upper police impound lot and at a depth of 10 - 13 feet bgs. It is unclear as to the extent of the lead contamination at this location. In order to fully evaluate the extent of the contamination, further soil sampling should be done in this area. Remedial activities at this location may included spot removal of soil until sample results are below 400 mg/kg.

Geoprobe groundwater sampling results indicated the presence of several metals above MCLs which also are the OVAP Generic Unrestricted Potable Use Standards. Although results were elevated compared to the standard, it is not likely that this will be of concern. Groundwater is not used as the primary source of drinking water in the area. Drinking water is obtained from surface water intakes. Therefore, it does not appear that ground water will need further evaluation/remediation.

2.0 INTRODUCTION

The EPA-DERR formed a cooperative agreement with the United States Environmental Protection Agency (U.S. EPA) Region V to conduct a brownfield investigation of the Whittier Peninsula project area (Latitude 39° 57' 03.7" North and Longitude 83° 00' 34" West). The brownfield investigation was performed under the U.S. EPA site investigation protocol. The purpose of this brownfield investigation was to determine if past activities at the Whittier Peninsula sites released contaminants into the environment, specifically to soils and groundwater.

3.0 SITE BACKGROUND

3.1 Site Description

The Whittier Peninsula brownfield project area is located in the city of Columbus in Franklin County, Ohio. The area is located along the Scioto River floodplain southwest of downtown Columbus (see Figure 1). The area is identified as a peninsula, because it is a half-circle-shaped piece of floodplain located on a bend (meander) in the Scioto River (it is not a true geographic peninsula). The area is bordered by the Interstate-70 and Interstate-71 interchange to the southeast, the Scioto River on the northwest, west and southwest, CSX railroad tracks to the east; and Whittier Street to the south. Land use in the area is mostly industrial, however, a small park (Lower Scioto Park) is located on the east side of the Scioto River, which is used for recreational purposes. (Essroc, 1993.)

The location of the Whittier Peninsula adjoining downtown Columbus and the Scioto River makes it a prime area for redevelopment. An association called Downtown Columbus Incorporated was formed to guide the redevelopment of this area.

3.2 Site History

The Columbus Health Department conducted a Phase I Environmental Assessment (Phase I) on the Whittier Peninsula for the Downtown Columbus, Inc. association on March 20, 1992. The Phase I was conducted to determine potential health hazards prior to acquisition of properties. See Figure 2 for locations of the properties evaluated in the Phase I.

The following regulatory agency records were reviewed as part of the Phase I: Ohio EPA Master Sites List (MSL), Ohio EPA Spills List, Ohio EPA RCRA Notifiers List, Ohio State Fire Marshal Bureau of Underground Storage Tank Regulations (BUSTR) List of Leaking Underground Storage Tanks (LUST), and Registered Underground Storage Tanks (UST) (Downtown Columbus, 1995).

The Phase I also included a review of Columbus Polk City Directories from 1923-1991 and were used to determine past land use. Sanborn Fire Insurance Maps were also reviewed from 1887-1901, 1921-22 and 1921-51 and were used to identify approximate locations of above ground or USTs. Available documents from the Franklin County Recorder's Office were reviewed to identify property ownership. This search was completed from 1920 to the present. (Downtown Columbus, 1995)

The following properties, which were evaluated in the Columbus Health Department Phase I, will also be investigated in this brownfield project:

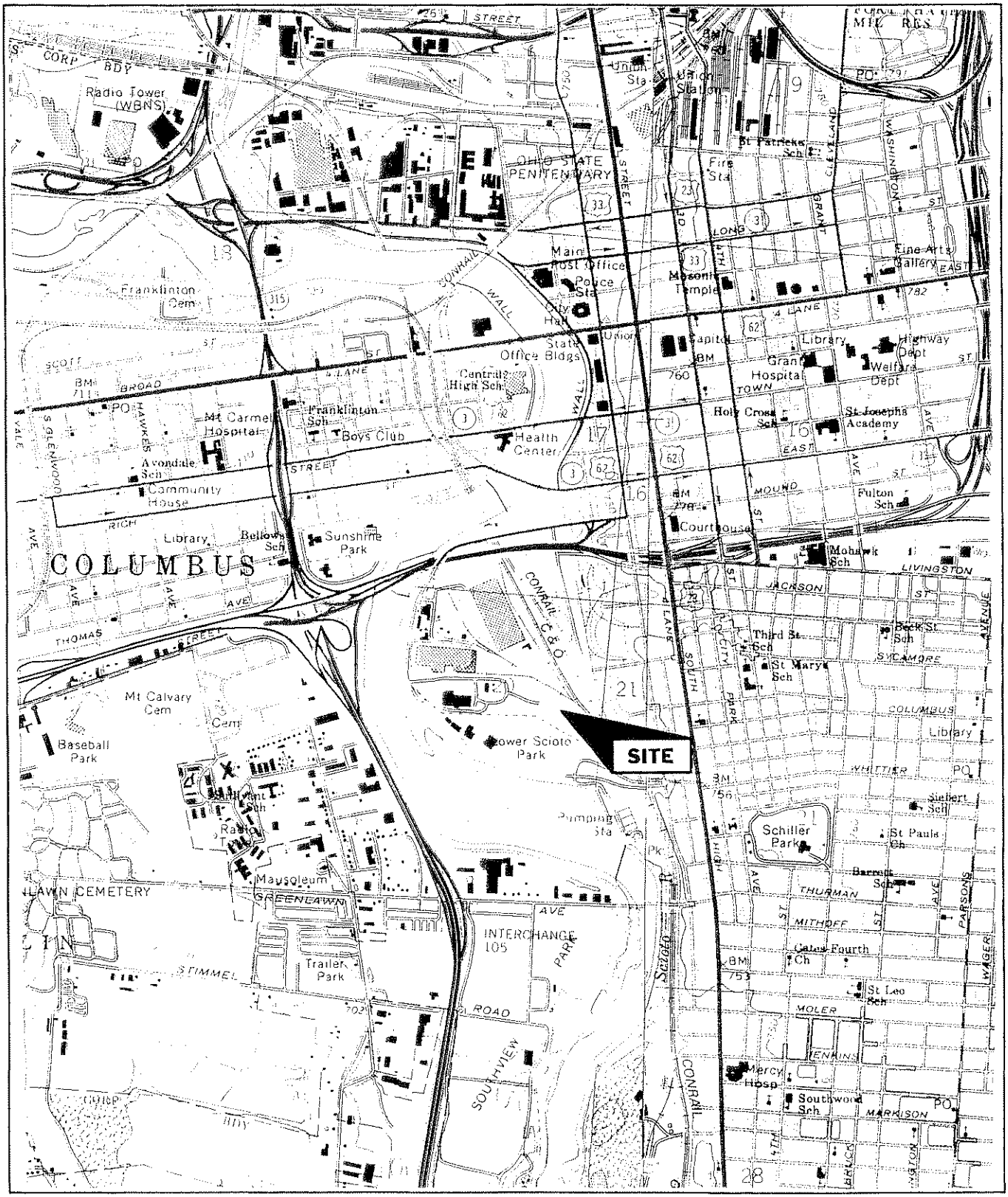
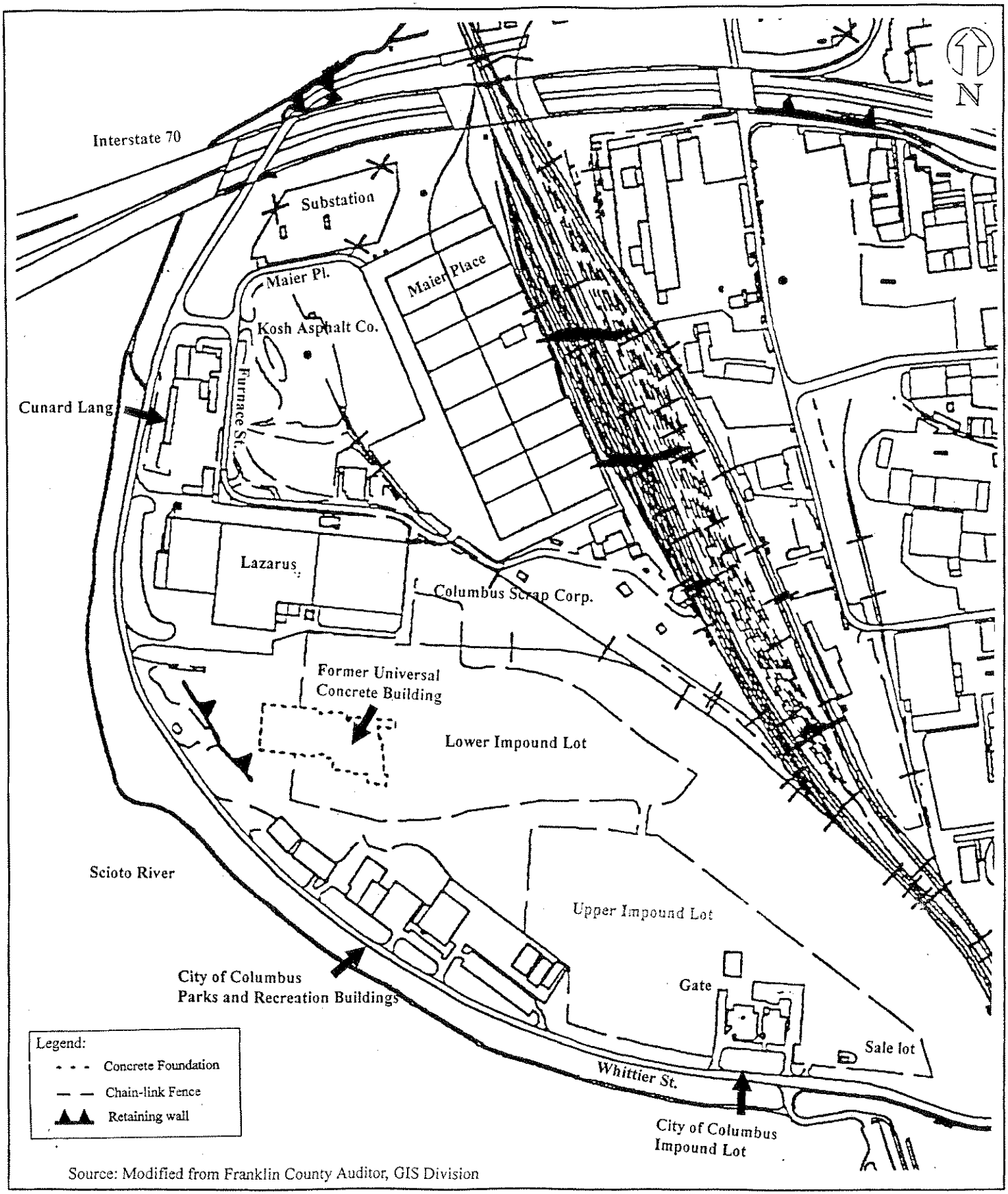


Figure 1 Topographic Map of Site Location (one inch equals 2000 feet)

Source: Modified from USGS, Southwest Columbus, Ohio, Quadrangle, 1965, Photorevised 1995 and Southeast Columbus, Ohio Quandrangle, 1964, Photorevised 1985.



Source: Modified from Franklin County Auditor, GIS Division

FIGURE 2 SITE FEATURES MAP (Not to scale)

Maier Place (Downtown Columbus, 1995.)
Address: 347-391 Maier Place
Parcel Numbers: 63303, 137505

The first parcel, 63303, is about 11 acres in size and records indicate that it was railroad property from 1920 to 1959. The real estate date index lists this property as 347-367 Maier Place. The current land use is classified as manufacturing and medium assembly. The building located on site was built in 1956. The second parcel, 137505, which is about 7 acres, is listed in the real estate data index as 371-391 Maier Place. The current land use is classified as manufacturing and medium assembly. This parcel was also railroad property until 1959.

In 1959, Harper Industries began a fender manufacturing operation in the north end of the current on-site building. Harper Industries was a hazardous waste generator that carried out electroplating operations. Harper Industries is no longer in operation. This site is currently undergoing a RCRA Closure Action. The property has been remediated to meet Ohio EPA standards for removal of hazardous waste. This closure work is focused on a former storage pad area on the north side of building. Six USTs have been removed from the site. The ground water beneath the former USTs is reportedly contaminated (Ohio EPA, DHWM, 1998). This site was formerly railroad property, and had a roundhouse and maintenance shop on site. Industrial warehouses are located there at present.

The Phase I stated that there is a possibility of heavy metals contamination in on-site soils due to prior use of the property as a railroad yard and roundhouse. Semi-volatile organic compounds and creosote may be also be present in the soil. The Phase I suggested that the area would present minimal health risk if no excavation is to occur during future development.

Universal Concrete Products (Downtown Columbus, 1995.)
Address: 500 W. Whittier
Parcel Numbers 57449, 22008, 58167

The first parcel, 57449, is about 6 acres in size and the real estate data index identifies this parcel as 500 W. Whittier Street. It was railroad property until 1935. Parcel Number 22008 is 0.86 acres in size and was railroad property until 1963. The last parcel, 58167, which is 11 acres, was railroad property until 1957. All three parcels are currently owned by Universal Concrete Products, Inc.

Universal Concrete Products is no longer in operation. USTs are on site. The Phase I recommended the removal or upgrading of all USTs on site.

City of Columbus Parks & Recreation, Police Impound Lot (Downtown Columbus, 1995.)
Address: 400-440 W. Whittier St.

Records indicated that there was a pond in the general vicinity of this site until the 1950's. This area has been filled to the height of the levy. This land was used previously by the refuse department and there was an incinerator on site. USTs are present, and a release was reported to the State Fire Marshal. The impound lot has surface contamination from petroleum products.

The Phase I recommended the removal or upgrading of all USTs on site. A Phase II site assessment was recommended due to the unknown types of fill used to fill the pond previously located at this site and to determine the extent of petroleum surface contamination. The Phase I recommended that if no excavation is to occur and the site remains city property then a Phase II will not be needed.

The following section describes those adjacent properties that are located in the Whittier Peninsula project area but which are not currently being investigated in this scope of work.

Koch Asphalt Company (Downtown Columbus, 1995.)
Address: 500 Furnace
Parcel Numbers: 57546, 66146, 66148

Koch Asphalt is registered as a hazardous waste generator by the Ohio EPA. This company is no longer in operation. All above ground storage tanks are in the process of being removed from the site. The State Fire Marshal has reports of USTs on site. No final closure plans have been filed with the Ohio EPA.

Recommendations made in the Phase I stated that there is a possibility of hazardous waste contamination on site due to Koch Asphalts previous status as a hazardous waste generator. A Phase II site assessment would be recommended if final cleanup of this site cannot be documented by the Ohio EPA.

Cunard Lang Concrete Block (Downtown Columbus, 1995.)
Address: 459-507 Furnace
Parcel Numbers: 67208

The property is 0.389 acres in size and was owned by Carnigie Steel and Arrow Sand and Gravel in 1927. Marble Cliff Quarries obtained the property in 1939. Cunard Lang has reported a release from a underground storage tank to the State Fire Marshal. The Phase I recommended that the removal or upgrading of the USTs on site. Any contaminated soil resulting from the underground tank release would have to be remediated. A present release is being addressed by the State Fire Marshal.

According to Sanborn maps, the area currently identified as Lang Stone was formerly the A. B. Robinson's Eureka Foundry and Machine Shop.

Lazarus (Downtown Columbus, 1995.)
Address: (562 W. Whittier)
Parcel Number: 36350

The real estate date index lists this parcel as 562 W. Whittier St. comprising 9.516 acres. The current owner is the F. R. Lazarus and Company. The National Steel Company occupied the parcel from 1920 to 1927. Arrow Sand and Gravel owned it from 1927 to 1939. Marble Cliff Quarries owned it from 1939 to 1945.

This site was operated until 1927 as a steel mill with a slag pit and a retention pond. Since 1927, the site was used for either gravel operations or warehousing. There are USTs on site, and a release from a tank has been reported.

The Phase I recommended that the potential for the presence of heavy metals contamination in the soil is present due to previous use as a steel mill. Removal or upgrading of existing USTs would be required. The underground storage tank release is being addressed by the State Fire Marshal. A Phase II site assessment would be recommended if excavation is to occur.

According to Sanborn maps, the area currently identified as the Lazarus warehouse used to be a steel mill. A pond and slag pit are identified in the exhibits.

Columbus Scrap Corp (Downtown Columbus, 1995.)
Address: 514-580 Furnace
Parcel Numbers: 57548, 66151

Columbus Scrap Corp. is operating on railroad property. There have been scrap operations on site since 1965. A polychlorinated biphenyl release has been reported by the Ohio EPA for this location. US EPA was involved in some remediation measures at this site. Further remediation measures are currently under negotiation.

The Phase I recommended the removal or upgrading of the USTs on site. The polychlorinated biphenyls are currently being addressed by the Ohio EPA, thus no testing is necessary. A Phase II site assessment is recommended for petroleum products, total petroleum hydrocarbons, benzene, ethyl benzene, toluene, and xylene.

3.3 Previous Site Work

Universal Concrete Products Facility Corrective Action Plan

The Universal Concrete Products building has been demolished, and demolition debris has been removed from the site. The concrete building slab remains. Figure 2 presents site features prior to

building demolition, including the approximate locations of former USTs in relation to the site building. (Essroc, 1993.)

In April 1990, Geoenvironmental Consultants, Inc. conducted a UST closure assessment at the Universal Concrete Products facility at 500 West Whittier Street. During the closure assessment, four steel USTs were removed from four separate locations at the facility (see Figure 2). Three USTs were used for the storage of diesel fuel, and one UST was used for the storage of gasoline. After removal of each UST, soil samples were field screened using a photo-ionization detector (PID), and selected soil samples were submitted for laboratory analysis to be used to confirm clean closure. Results of the analyses indicated that certain soils at three diesel fuel UST excavations exceeded the BUSTR action levels for total petroleum hydrocarbons (TPH) in soils. Soil samples collected from the gasoline UST excavation did not contain benzene, ethyl benzene, toluene, or xylenes (BETX) or TPH concentrations above the BUSTR action levels. (Essroc, 1993.)

In August 1992, Warzyn conducted a subsurface investigation at the Universal Concrete Products facility. During this investigation, 18 soil borings were drilled around the four UST excavations. Soil borings were drilled approximately 5 feet from the edge of each excavation. If soil samples collected indicated the presence of petroleum compounds based on field screening methods, an additional boring was drilled 5 feet from the previous soil boring and additional soil samples collected and screened. In addition to the soil boring program, seven groundwater monitoring wells were installed at the facility. (Essroc, 1993.)

Based on the results of the soil boring and ground water sampling investigation, soil within 15 feet of two diesel fuel UST excavations contained TPH concentrations above the BUSTR action levels. Ground water samples collected from MW2, MW4, MW5, MW6, and MW7 did not contain detectable concentrations of BETX. Monitoring Well MW1 contained 1.8 ug/L toluene. Monitoring Well MW3 contained 11 ug/L benzene, 17.1 ug/L BETX, and 1.3 mg/1 TPH. (Essroc, 1993.)

In February 1993, a second round of ground water samples were collected from each of the monitoring wells installed at the Universal Concrete Products site. Each sample was analyzed for BETX and polynuclear aromatic hydrocarbons (PAHs) as required by BUSTR. Only MW3 had detectable levels of BETX compounds, 10 ug/L benzene. This is above the BUSTR action level of 5 ug/L. Monitoring Wells MW3, MW6, and MW7 contained detectable concentrations of PAHs above the method detection limit, 5 ug/L. MW3 contained 70 ug/L acenaphthylene. MW6 contained 7 ug/L pyrene, and 8 ug/L benzo(b)fluoranthene. MW7 contained 7 ug/L fluoranthene, 7 ug/L pyrene, and 8 ug/L benzo(b)fluoranthene. Based on water level elevations measured prior to collecting ground water samples in February 1993, the direction of groundwater flow is to the west, toward the Scioto River. (Essroc, 1993.)

A number of other industries are located in the Whittier Peninsula area (east of the railroad tracks, and west of the River) and may impact the water quality of the local surface and ground waters.

The Ohio EPA has not performed sediment and fish tissue sampling in this segment of the Scioto River.

3.4 Site Geology & Hydrology

3.4.1 Topography

The principal stream is the Scioto River, which flows from north to south. The Scioto River joins the Olentangy River about a mile upstream of the area, to form the mainstem of the Scioto River. The Scioto River flows in a southerly direction to the Ohio River. About 0.1 mile upstream of the site, the Scioto River flows over a dam, making the mean elevation of the river surrounding the peninsula at 705 feet above Mean Sea Level (MSL). A flood control levee parallels the entire peninsula with an elevation of more than 720 feet MSL. Whittier Street is built on this levee. The elevation of the lower police impound lot is less than 710 feet MSL. Because of the levee and of the majority of the peninsula being in a depression (bowl), storm water culvert systems drain the area. Based on a USGS gaging station about 2.5 miles downstream of the peninsula, the average daily mean flow of the Scioto River is 1498 cubic feet per second. (USGS, 1995.)

The weather station at Port Columbus International Airport in eastern Franklin County reports a thirty-year (1961-1990) average mean annual temperature of 51.4 degrees Fahrenheit. The mean annual precipitation recorded at Port Columbus is 38.09 inches based on the same thirty-year (1961-1990) period. Franklin County is cold in winter and uncomfortably warm in summer. Winter precipitation is in the form of frequent snow. In summer, the average temperature is 72 degrees, and the average daily maximum temperature is 84 degrees. The prevailing wind is from the south-southwest. (USDA/SCS, 1980.)

3.4.2 Soils

According to the Franklin County Soil Survey, the soils that cover the surface of the glacial deposits are the "**Uw-urban land-Genesee complex, occasionally flooded**". This map unit consists of areas of urban land and a deep, nearly level, well drained Genesee soil on flood plains. The urban land part of the unit is covered by streets, parking lots, buildings, and other structures. The original soil is so altered or obscured that identification of specific soils is not feasible. (USDA/SCS, 1980.)

Typically, the Genesee soil has a surface layer of brown, friable silt loam about 9 inches thick. The subsoil is brown and dark yellowish brown, friable silt loam and clay loam about 22 inches thick. The substratum to a depth of about 70 inches is yellowish brown, friable loam and brown, mottled, very friable gravelly sandy loam. Runoff is slow. The subsoil is slightly acid to moderately alkaline. (USDA/SCS, 1980.)

3.4.3 Glacial Geology

The physiography on Franklin County situates it within the glaciated till plain (Central Till Plains Section of the Interior Low Plains Province), which is predominantly characterized by flat to gently rolling topography. The area that is now Franklin County was glaciated during at least two different glacial periods. Evidence of Illinoisan glaciation has been found in the form of fine, well-sorted sands in buried valleys beneath the more recent Wisconsin age glacial till. The hydrogeologic setting varied considerably across Franklin County. The buried valleys were created by pre-glacial or inter-glacial rivers that downcut into the bedrock. The differing glacial deposits filling these valleys can be best illustrated by describing the two common forms mapped within Franklin County. (USDA/SCS, 1980 and ODNR/Water, 1995.)

The common buried valley deposits in this portion of the Scioto River Valley are occupied by a modem river and floodplain, and contain numerous outwash terraces and small kames. The upper portions of these valleys contain 50 to 100 feet of outwash. Depth to water is less than 30 feet. Yields over 1,000 gallons per minute (gpm) are possible from large-diameter wells. Soils are typically loams. The streams are in direct hydraulic connection with the aquifer and recharge is high. (ODNR/Water, 1995.)

The closest water supply well to the project area (from a glacial aquifer) is located approximately 3,000 feet to the south. The well is separated from the site by the Scioto River. (Essroc, 1993.)

The aforementioned generalized, regional expectations are supported by the following site-specific geology information.

3.4.4 Site Specific Geology

In the CTL Engineering, Inc. report dated December 18, 1984, four test borings were performed for their client, who was interested in the site at 400 West Whittier Street. The report on their individual test boring logs indicate, that topsoil or asphaltic concrete (over course base), overlay non-engineered fill. They found that this fill ranges in thickness from 0 to 21 feet deep in one test boring, and 0 to 38.5 feet. in another. This fill consists of clay, silt, sand, brick, cinders and wood. They encountered water a 5 feet to 23.5 feet deep in three different holes. (CTL Engineering, 1984.) Static ground water levels obtained monitoring wells at the facility ranged from 7 feet to 10 feet below grade. (Essroc, 1993.)

The Division of Water of the Department of Natural Resources includes a well listing (#1487) for Universal Concrete Products that was drilled in 1953. The well elevation was 734 feet above mean sea level. It was drilled 112 feet deep and the depth to bedrock was 58 feet. Water was discovered at a depth of 80 feet and yielded 60 gpm. (Downtown Columbus, 1995.)

The nearest known, off-site well log (#237) with bedrock information is located approximately 0.25 mile north of the peninsula. The profile for well log #237 from 1942 is: 0'--18' deep, glacial drift; 18'--40', gravel with sand ; 40'--60', brown clay with gravel; 60'--87', gravel with sand; 87'--112', Olentangy shale; and, 112'--240', limestone. Another well log (#268) from 1942 -- also located 0.25 mile north of the peninsula -- reports that the overburden is at least 120' atop bedrock. A well log (#217.2) from 1969 -- located approximately 0.5 mile south of the peninsula -- reports the following: 0'--12' deep, fill'; 12'--40', sand & gravel; 40'--54', fine gravel; 54'--56', limestone; and, static water level at 29. (ODNR/Water; Well Logs.)

3.4.5 Bedrock Geology

The bedrock underlying the glacial deposits, and exposed in places by erosion or construction, is sedimentary. It has a north-south strike and a dip of 20 to 30 feet per mile to the east. Ages range from lower Devonian in the west to lower Mississippian in the east. Lithologies consist of dolomitic limestone, shale, and sandstone. (USDA/SCS, 1980.)

The oldest member of the Devonian system in the county is the Rasin River Formation, dolomitic limestone exposed in places in the valleys of Big and Little Darby Creeks on the west side of the county. The formations within the Devonian System to the east are younger and situated above the antecedent Rasin River. They include the Columbus and Delaware Limestones and the Ohio and Olentangy Shales. The limestone is along the Scioto River Valley and the shale is along the northern Olentangy River Valley. (USDA/SCS, 1980.)

4.0 SAMPLING LOCATIONS & DISCUSSION OF RESULTS

Fourteen (14) sample locations were investigated at and around the Whittier Peninsula project area (see Figures 3 and 4). Sample locations were selected based on information collected during the Ohio EPA site visits conducted on July 3, 13 and 22, 1998. Samples were analyzed by U.S. EPA Contract Laboratory Program laboratories. Analyses included the following parameters: volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, PCBs, and target analyte list (TAL) metals.

Complete analytical results for this investigation are contained in Appendix A. Significant findings based on these data are summarized in Tables 1 and 2 and can be found in Appendix C. Data were reviewed by U.S. EPA Region V personnel for compliance with the Contract Laboratory Program, and validated by Region V Central Regional Laboratory staff.

A photographic log of sampling locations can be found in Appendix B. Standard Quality Assurance and Quality Control (QA/QC) procedures for site investigation (SI) field activities were followed during the investigation. These procedures, including sample collection, packaging and shipping,

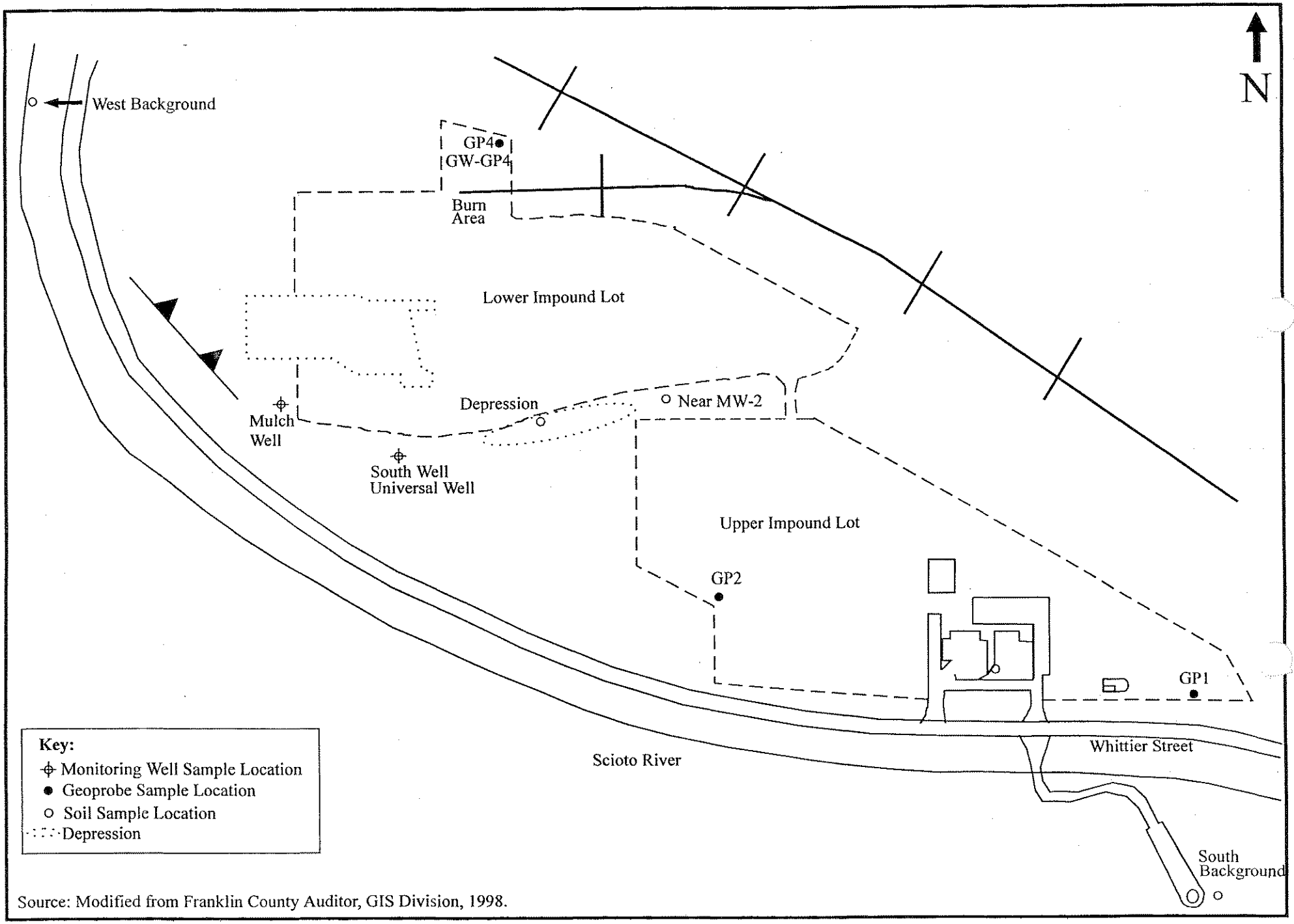
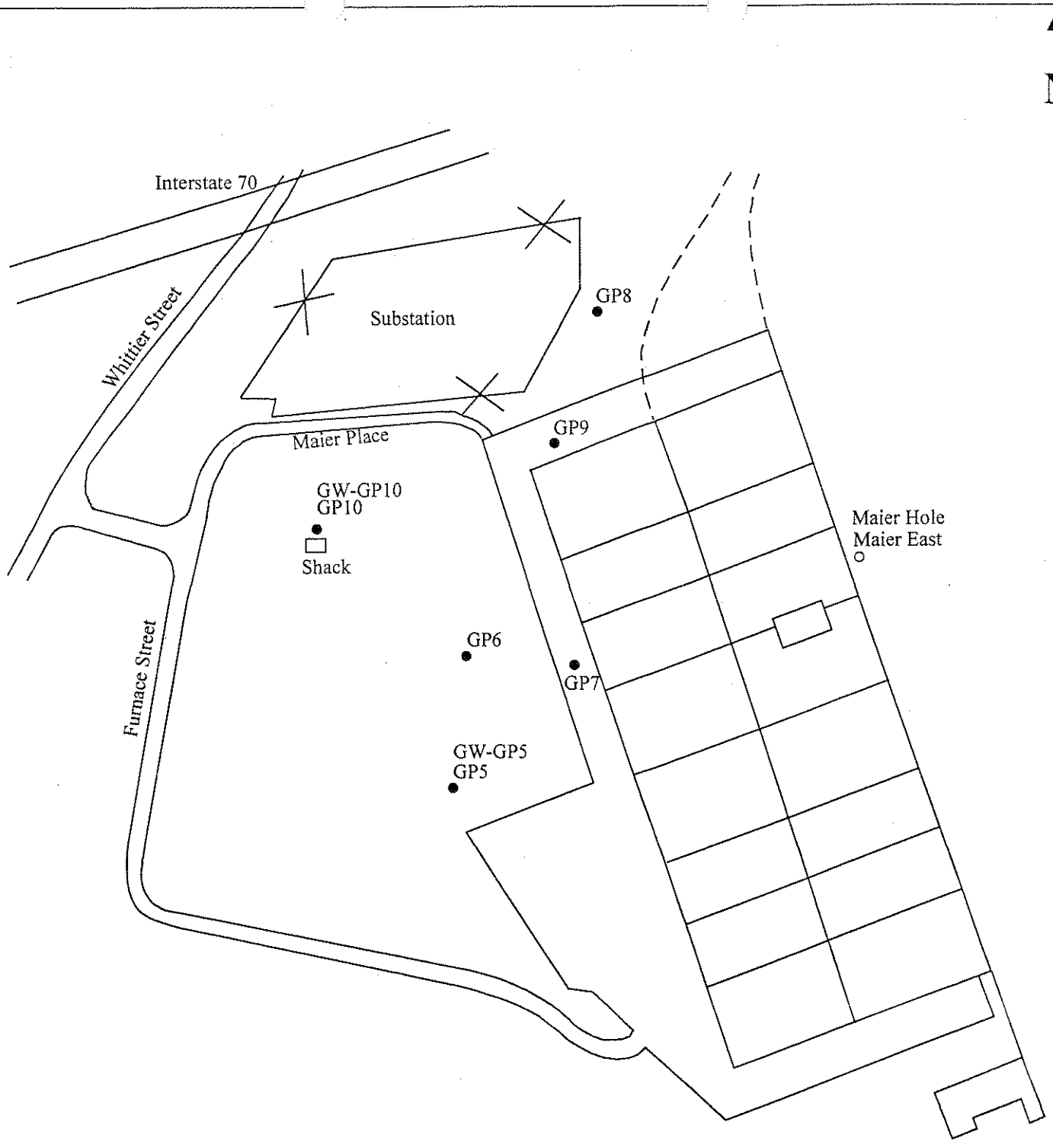


FIGURE 3 POLICE IMPOUND LOT SAMPLING LOCATION MAP (Not to Scale)



Source: Modified from Franklin County Auditor, GIS Division, 1998.

FIGURE 4 MAIER PLACE SAMPLING LOCATION MAP (Not to scale)

and equipment decontamination, are documented in the Quality Assurance Project Plan (QAPP) for Region V Superfund Site Inspection Activities for Ohio EPA and Ohio EPA Field Standard Operating Procedures.

4.1 Groundwater

A total of six (6) ground water samples were collected; three of which were collected using the Geoprobe. These three Geoprobe samples included: one at the north central portion (burn area) of the lower police impound lot (GW-GP4); one at Maier Place at the northwest corner of the property between the Maier Place Road and a storage shed (GW-GP10); and one at Maier Place in the southwest corner of an unpaved area of the parking lot (GW-GP5). A ground water sample was attempted at GP1, but hit refusal at 20 feet below ground surface (bgs). GW-GP4 was collected from 28 to 32 feet bgs, GW-GP5 was collected from 20 to 22 feet bgs and GW-GP10 was collected from 20 to 24 feet bgs. The two Universal Concrete Products monitoring wells in the southern and southeastern portions of the lower police impound lot were also sampled. The static water level in these wells were measured at 7.48 feet bgs and 10.1 feet bgs. The replicated sample was collected from one of the monitoring wells.

A background ground water sample was not collected, therefore samples results were compared to Maximum Contaminants Levels (MCLs). The monitoring well sample results did not show any contaminants above MCLs. Geoprobe groundwater sample results showed levels of arsenic, barium, beryllium, cadmium, chromium, and nickel all above MCLs. At GW-GP10 the following levels were detected; arsenic (474 µg/L), barium (4660 µg/L), beryllium (10.8 µg/L), cadmium (8.9 µg/L), chromium (238 µg/L), lead (390 µg/L), (404 µg/L), vanadium (474 µg/L), and zinc (1570 µg/L).

Groundwater is not used in the area as a primary source of drinking water. The city of Columbus uses surface water from the Scioto River, Big Walnut Creek, and the Hoover and Alum Creek Reservoirs for its water supply, along with ground water from the south well field area in southeast Franklin County. The surface water source serves a population of 649,585 people and the south wellfield source serves a population of 150,000 people (OSU, 1998).

4.2 Sediment and Surface Water

No sediment or surface waters samples were collected for this phase of the peninsula investigation. If there are any heavily-contaminated sites on the peninsula, then off-site sediment or surface samples will be taken from the adjoining Scioto River and/or storm sewer system for the subsequent geographic initiative investigation.

4.3 Soil

A total of 15 soil samples were collected for this phase of the investigation. Five (5) were taken

on the city of Columbus police impound lots and eight (8) on the Maier Place property. Nine (9) soil samples were collected using a Geoprobe and six (6) using hand augurs, spoons and/or shovels for surface soil samples. Geoprobe samples were collected at four-foot intervals and total depth was determined at each location. Core samples were screened using a Microtip photo-ionizing detector. The only significant reading recorded was at GP5, which registered 40 ppm at the 4 to 6 foot interval.

Five (5) soil sample locations were investigated at the police impound lots to determine if soil contamination exists from current and past usage. Two (2) Geoprobe samples (GP1 and GP2) were taken in the upper impound lot. GP1 was collected from the sale lot in the southeast corner along the south fence line and GP2 was collected in the southwest corner along the western fence line. Sample GP4 was collected from the north central portion (burn area)of the lower impound lot. An additional Geoprobe sample was attempted in the far eastern corner of the lower impound lot, but hit refusal at four feet. Two surficial soil samples were collected from the lower impound lot. One surficial soil sample (depression) was collected from a depression located west of the access road and the other (Near MW2) was collected near a partially-buried drum and electrical equipment north of the slope from the upper and lower lots.

Seven (7) additional soil sample locations were investigated at Maier Place to determine if contamination exists from previous electroplating operations that were conducted at the site. One surficial soil sample (Maier Hole) was collected on the east side of the building. A replicate sample was also collected from this location. Six (6) soil samples were collected using the Geoprobe. GP5 was collected in the southwest corner of the parking lot adjacent to an open field area. GP6 was collected from an unpaved area in west central portion of the property. GP7 was collected next to the building between the second and third fire walls. GP8 was collected about 180 feet northwest of the building adjacent to the substation. GP9 was collected close to the building on the northwest side. The Geoprobe hit refusal at around eight feet at a few locations on the north side of the building in the vicinity of the closed hazardous waste storage pad. GP10 was collected at the northwest corner of property between Maier Place Road and a storage shed.

One background sample was collected in the westernmost portion of the peninsula in the riparian corridor along the bike path west of Whittier Street. This background sample was used as background for the surficial soil samples. The second background sample was collected in a wooded area, in the south easternmost portion of the peninsula and south of the city of Columbus sewage pump station. This background sample, which was taken at a deeper depth then the previous background sample, was used as background for the Geoprobe soil samples. Historical aerial photographs shows that both of these proposed sampling locations have been wooded and apparently undisturbed since 1946.

Surficial and subsurface soil sample results showed levels of PAHs, SVOCs, metals and some pesticides and PCBs above background concentrations. A number of PAHs were detected at

elevated (above background) levels at sample locations: GP1, GP2, GP10, Maier East (Maier Hole - Duplicate), and Depression. A number of pesticides and PCBs were also detected at GP1, Maier Hole and Depression. Elevated levels of metals were found at sample locations GP1, GP2, GP10, and Depression. At GP2, the following contaminant levels were detected; barium (2100 mg/kg), copper (415 mg/kg), lead (1290 mg/kg), nickel (102 mg/kg), mercury (0.52 mg/kg), and zinc (2050 mg/kg).

5.0 CONCLUSIONS

Soil sample results showed the presence of some contaminants, including SVOCs, metals and some pesticides/herbicides. These sample results were compared to the Ohio Voluntary Action Program (OVAP) Generic Direct Contact Soil Standards for Carcinogenic and Non-Carcinogenic Chemicals of Concern - Residential Land Use Category. The samples were compared to this category due to the fact that the future use of this area may be residential. When compared to these standards, the contaminants found are not considered elevated, with the exception of lead. GP2 showed the presence of lead at 1290 mg/kg. The Generic Direct-Contact Standard for Residential Land Use for lead is 400 mg/kg.

Groundwater sample results showed the presence of some metals in the Geoprobe groundwater samples (GW-GP4, GW-GP5, GW-GP10). These sample results were compared to MCLs, which are equivalent the OVAP Generic Unrestricted Potable Use Standards. Arsenic, barium, berylluim, cadmium, chromium, and nickel, for these samples, were all above MCLs.

No other pathways (surface water or air) were evaluated during this project. No air discharges were noted during the investigation. The site is adjacent to the Scioto River; however, due to the height of the levy, the likelihood of any discharges to surface water is low.

6.0 RECOMMENDATIONS

Ohio EPA DERR personnel conducted a brownfield investigation at the Whittier Peninsula site located in Columbus, Franklin County, Ohio on August 5-6, 1998. Several contaminants were found to be present in the soil samples obtained from various locations. When compared to OVAP Residential Land Use Category, the results are not considered elevated with the exception of lead at GP2. Several contaminants were found to be present in the groundwater samples obtained from various locations. When compared to the OVAP Generic Unrestricted Potable Use Standards, these results are considered elevated.

The soil sample obtained from GP2 had lead present at 1290 mg/kg. The OVAP standard is 400 mg/kg. As indicated earlier, this is considered elevated. GP2 was obtained from the western edge of the upper police impound lot and at a depth of 10 - 13 feet bgs. It is unclear as to the extent of the lead contamination at this location. In order to fully evaluate the extent of the

contamination, further soil sampling should be done in this area. Remedial activities at this location may included spot removal of soil until sample results are below 400 mg/kg.

Geoprobe groundwater sampling results indicated the presence of several metals above MCLs which are equivalent to OVAP Generic Unrestricted Potable Use Standards. Although results were elevated compared to the standard, it is not likely that this will be of concern. Groundwater is not used as the primary source of drinking water in the area. As stated earlier, drinking water is obtained from surface water intakes. Therefore, it does not appear that ground water will need further evaluation/remediation.

7.0 REFERENCES

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Downtown Columbus, Inc.: Environmental Site Assessment dated August 1995; Various meetings between OhioEPA personnel and Steve Tabit of Downtown Columbus; Columbus, Ohio.

Essroc Materials, Inc.: UST Corrective Action Plan conducted by their consultant Warzyn, Inc.; Columbus, Ohio.

Ohio Department of Natural Resources, Division of Water: Map of Ground-Water Resources of Franklin County by James J. Schmidt, Bulletin 30, Columbus, Ohio, 97pp., 1958; Columbus, Ohio.

Ohio Department of Natural Resources, Division of Water: Pollution Potential of Franklin County, Ohio; Columbus, Ohio.

Ohio Department of Natural Resources, Division of Water: Locator maps for residential well logs; and various well logs for area around Whittier Peninsula area Logs for Clinton Township, Franklin County, Ohio; Columbus, Ohio; 1994.

Ohio Department of Transportation: Aerial photographs dated 1946, 1953, 1958, 1964, 1969, 1975, 1989 and 1992; provided by Bureau of Aerial Engineering in Columbus, Ohio.

Ohio Environmental Protection Agency (EPA), Division of Emergency & Remedial Response (DERR): Columbus Four Corners - Part I Work Plan; April 28,1997 Columbus, Ohio.

EPA, DERR: "Ohio Voluntary Action Program (OVAP) Generic Standards Rule 3745-300-08, Columbus, Ohio, 1996.

Ohio State University Extension, Food, Agricultural and Biological Engineering: "Water Resources of Franklin County," Fact Sheet AEX-480.25. 1998.

U.S. Department of Agriculture, Soil Conservation Service: "Soil Survey for Franklin County, Ohio"; joint publication by the U.S. Soil Conservation Service, the Division of Soil & Water Conservation of the Ohio Department of Natural Resources and the Ohio Agricultural Research and Development Center; Columbus, Ohio, 1980.

U.S. Environmental Protection Agency: Investigation-Derived Waste Management Guidance Manual (USEPA/540/G-91/009, May 1991).

U.S. Geological Survey (USGS): Ohio Topographic Map: "Southwest Columbus, Ohio Quadrangle", 1965, Photo revised 1995 and "Southwest Columbus, Ohio Quandrangle", 1964, Photo revised 1984.

USGS: Water Resources Data, Ohio, Water Year 1995, Vol. 1 Ohio River Basin, Report OH-95-1; U.S. Department of the Interior.

APPENDIX A
COMPLETE ANALYTICAL RESULTS

Due to its size, the CLP Data Package was not included in the scanned image of this report. If interested in the CLP Data Package, please contact the Division of Emergency and Remedial Response, Central District Office.

APPENDIX B
SITE PHOTOGRAPHIC LOG

APPENDIX C
SIGNIFICANT SAMPLE RESULTS TABLES

Photo No: 1 **Date:** July 13, 1998
Orientation: West
Description: Impounded cars parked on upper impound lot.

Photo No: 2 **Date:** July 13,1998
Orientation: North
Description: Lower Impound Lot. Former Location of Universal Concrete Building.

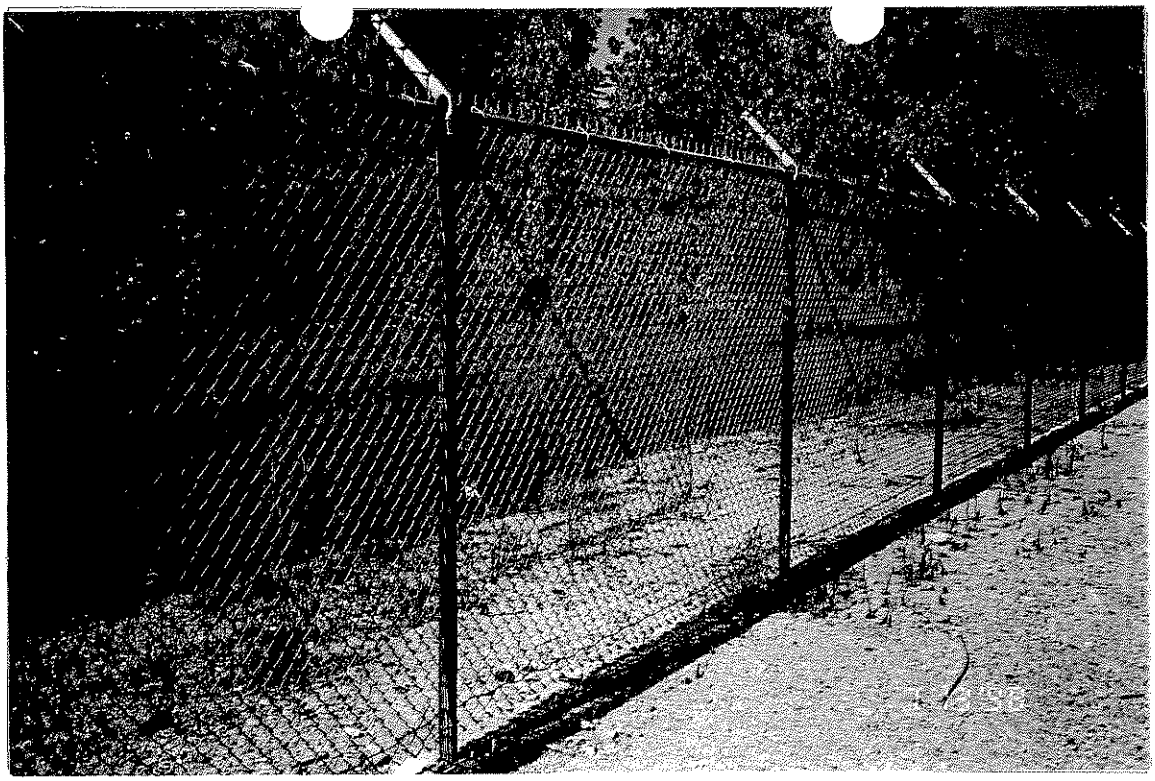


Photo No: 3 **Date:** July 13, 1998
Orientation: South
Description: Universal Concrete MW2.

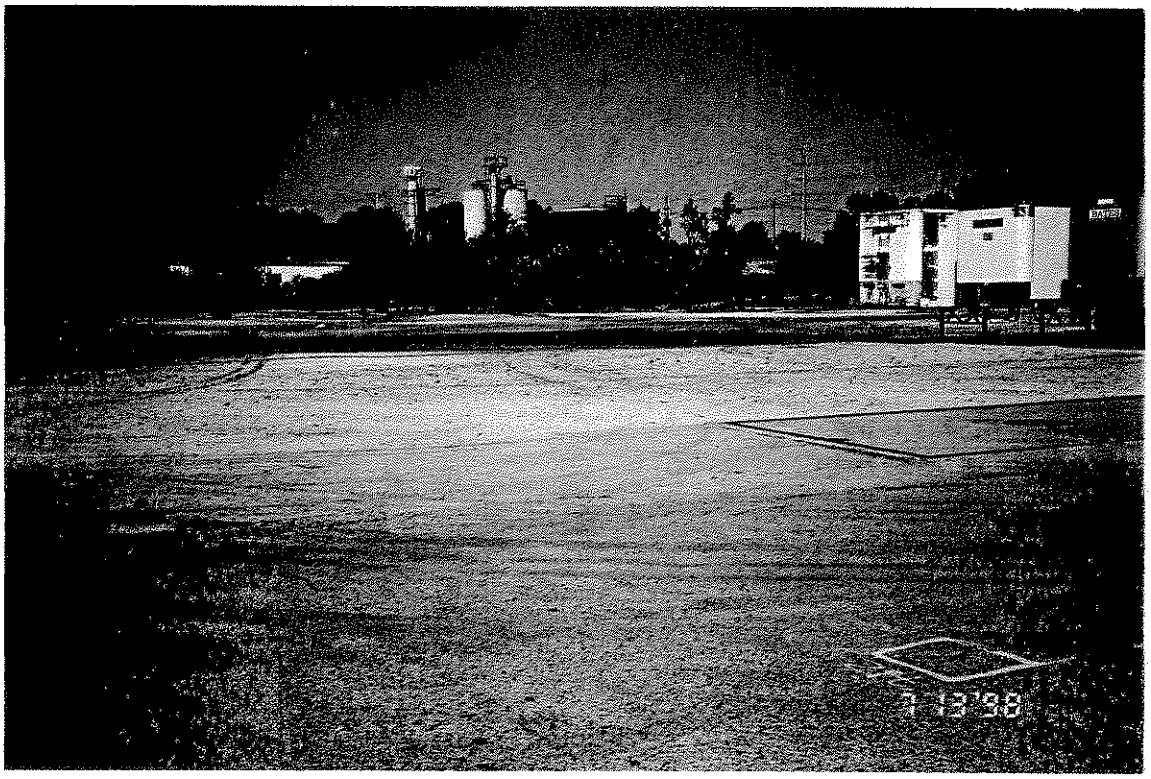


Photo No: 4 **Date:** July 13, 1998
Orientation: West
Description: Maier Place gravel parking lot.

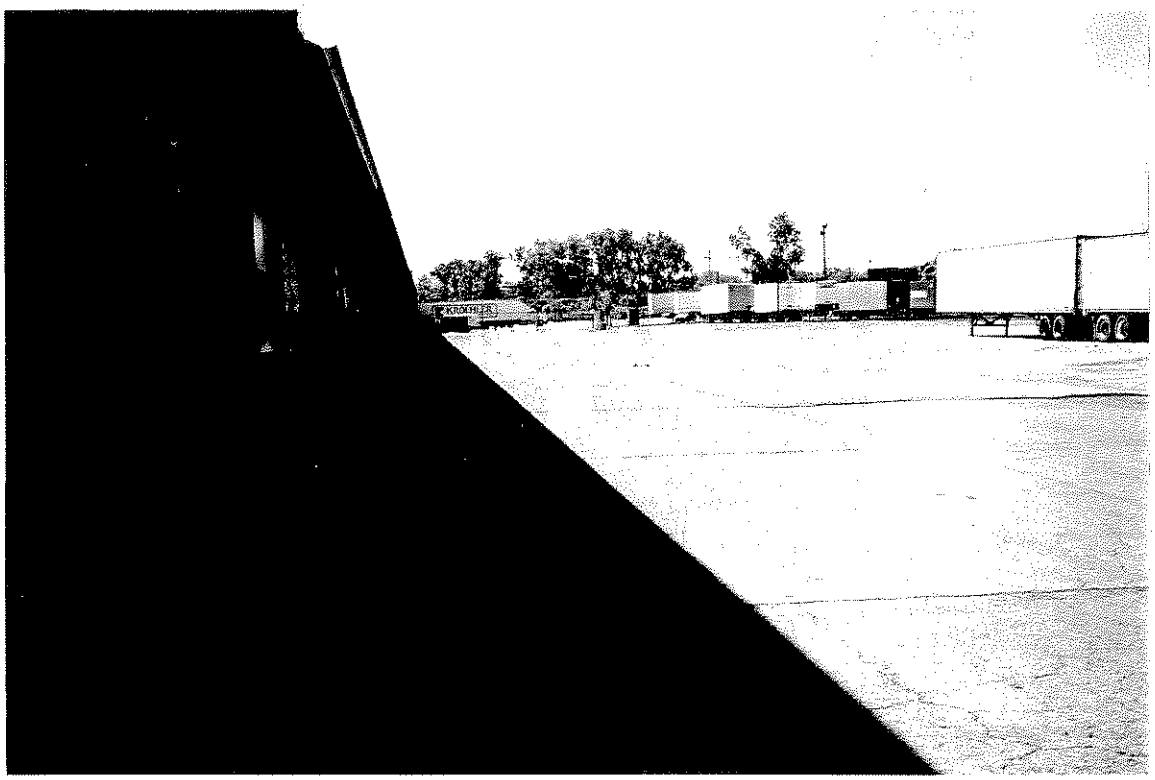


Photo No: 5 **Date:** July 13, 1998
Orientation: South
Description: Maier Place; view of west side of building.

Photo No: 6 **Date:** July 13, 1998
Orientation: East
Description: Maier Place; north side of building.

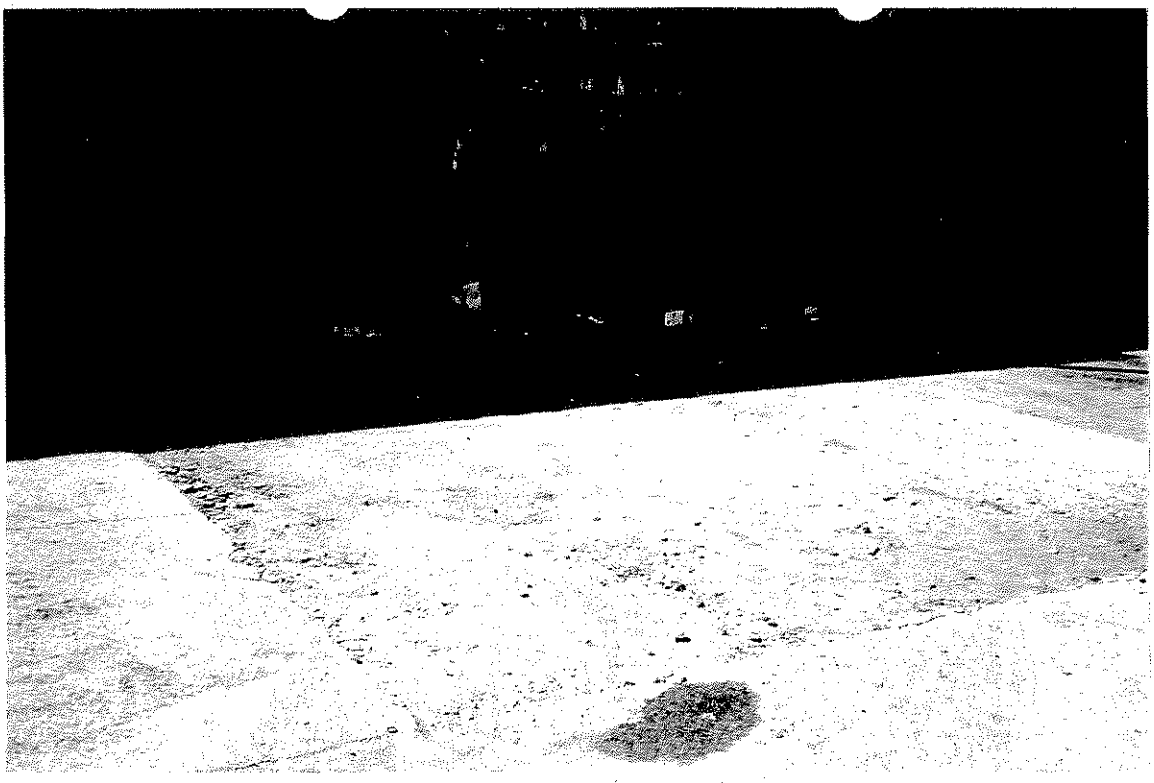


Photo No: 7 **Date:** July 13, 1998
Orientation: South
Description: Close up of loading and unloading area on north side of building.

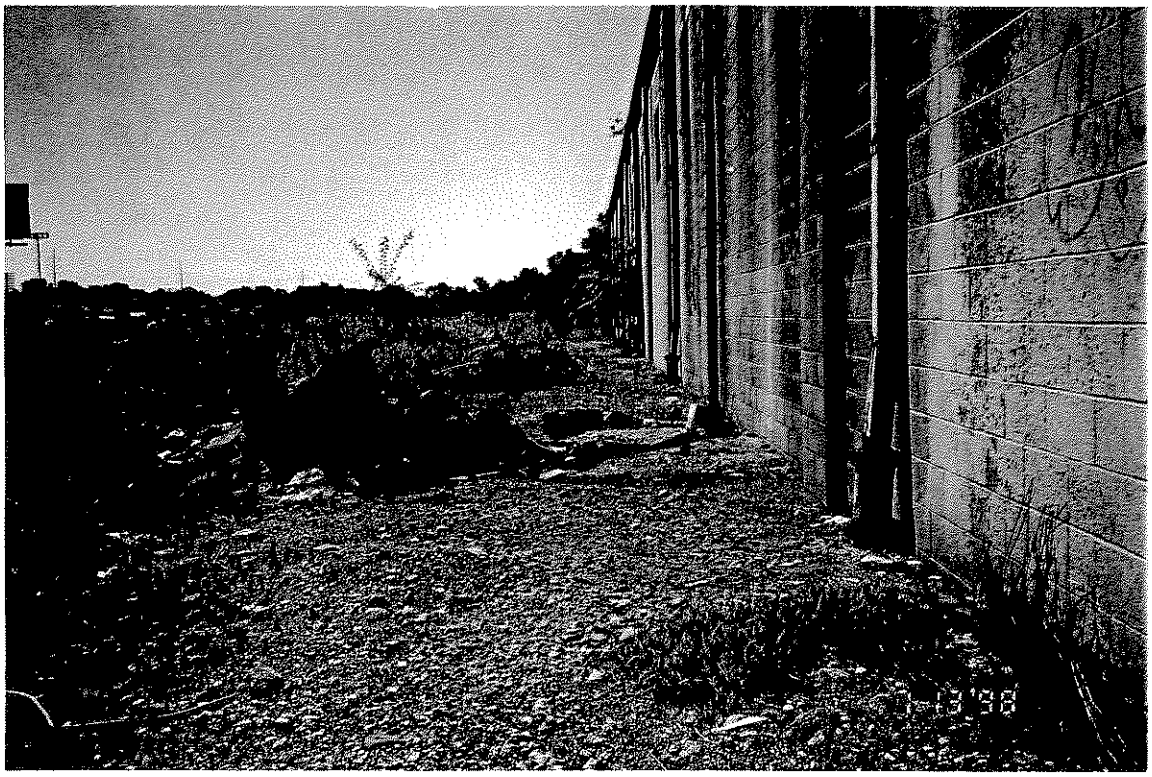


Photo No: 8 **Date:** July 13, 1998
Orientation: Southeast
Description: Back (east side) of building adjacent to railroad tracks.

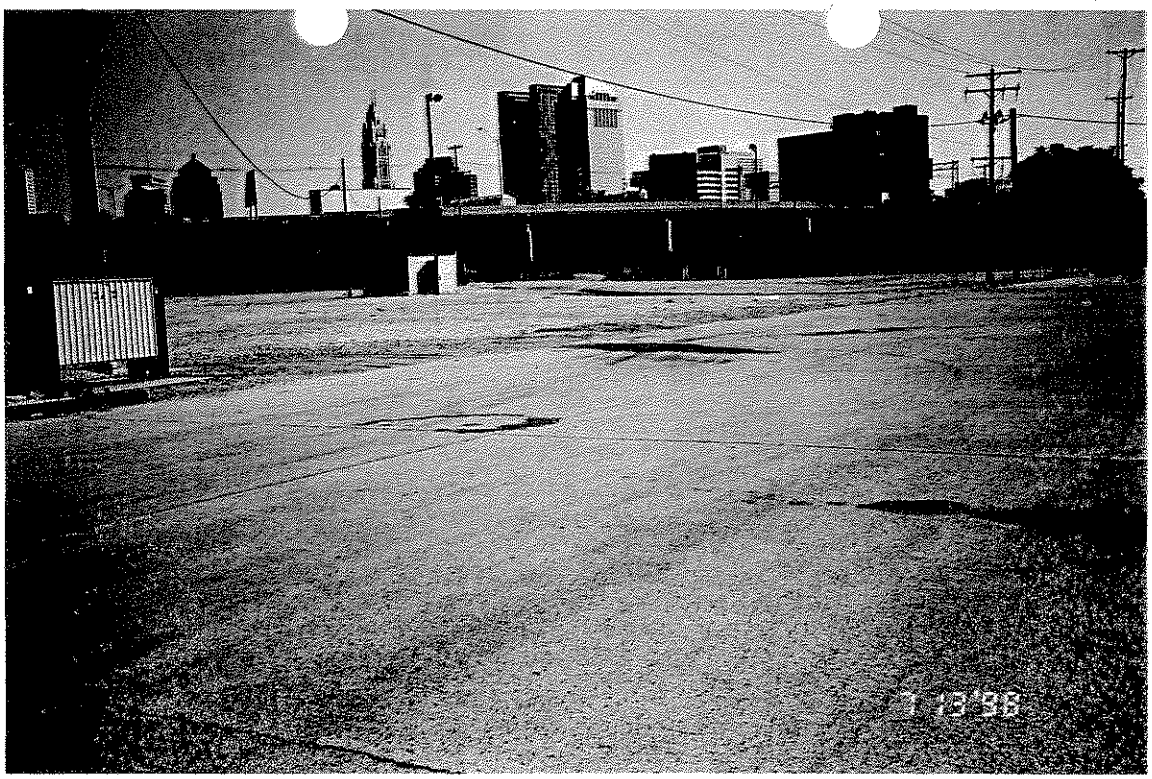


Photo No: 9 **Date:** July 13, 1998
Orientation: North
Description: Location of former hazardous waste storage pad.

Photo No: 10 **Sample No:** ECGT/MEBKH 4 **Date:** August 5, 1998
Orientation: South
Description: Close up of soil sample "depression".

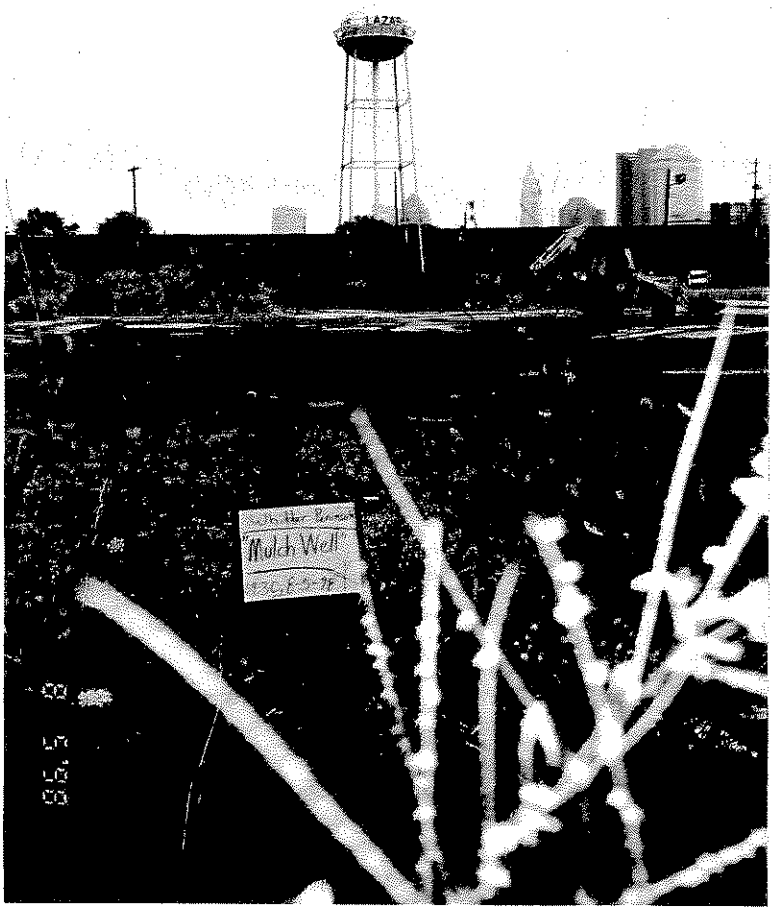


Photo No: 11
Sample No. ECGS/MEBKG 1
Date: August 5, 1998
Orientation: North
Description: Universal Concrete MW1. Close up of monitoring well sample "Mulch Well".

Photo No: 12
Sample No: ECGT/MEBKH 1
Date: August 5, 1998
Orientation: South
Description: Closeup of soil sample Near MW-2 collected near drum and electrical equipment.

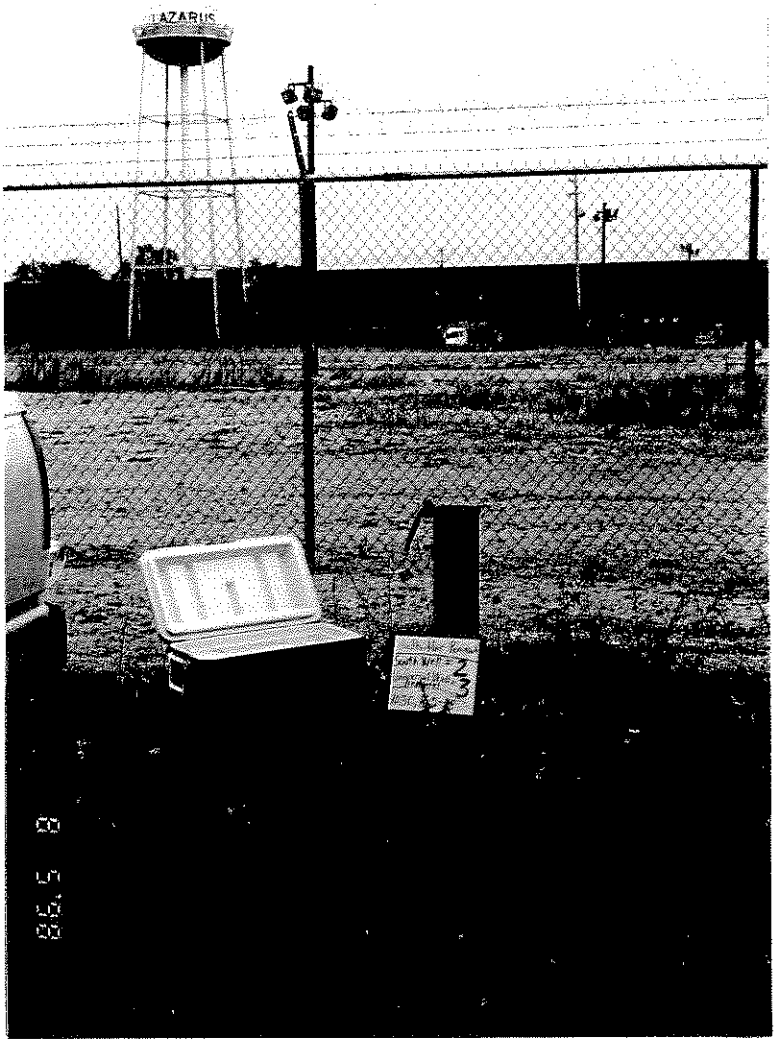


Photo No: 13
Sample No. ECGS/MEBKG 2 and ECGS/MEBKG 3 (dup)
Date: August 5, 1998
Orientation: North
Description: Universal Concrete MW2. Close up of monitoring well samples "South Well" and "Universal Well".

Photo No: 14
Sample No: ECGW/MEBKJ 1
Date: August 5, 1998
Orientation: East
Description: Close up of Geoprobe soil sample GP1 collected in eastern corner of upper impound lot.

Photo No: 15 **Sample No:** ECGW/MEBKJ 1 **Date:** August 5,1998
Orientation: East
Description: Perspective of Geoprobe soil sample GP1 collected in the eastern corner of the upper impound lot.

Photo No: 16 **Sample No:** ECGW/MEBKJDH 2 **Date:** August 5, 1998
Orientation: East
Description: Close up of Geoprobe soil sample GP2 collected in western corner of upper impound lot.

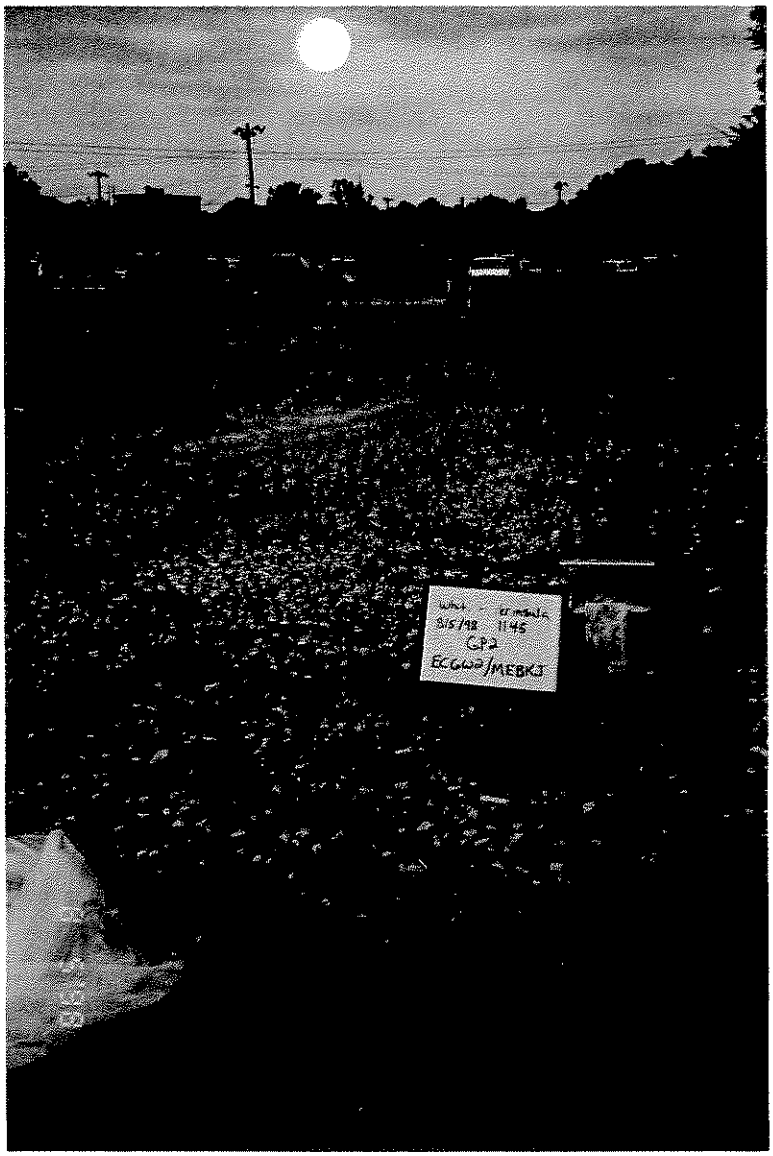
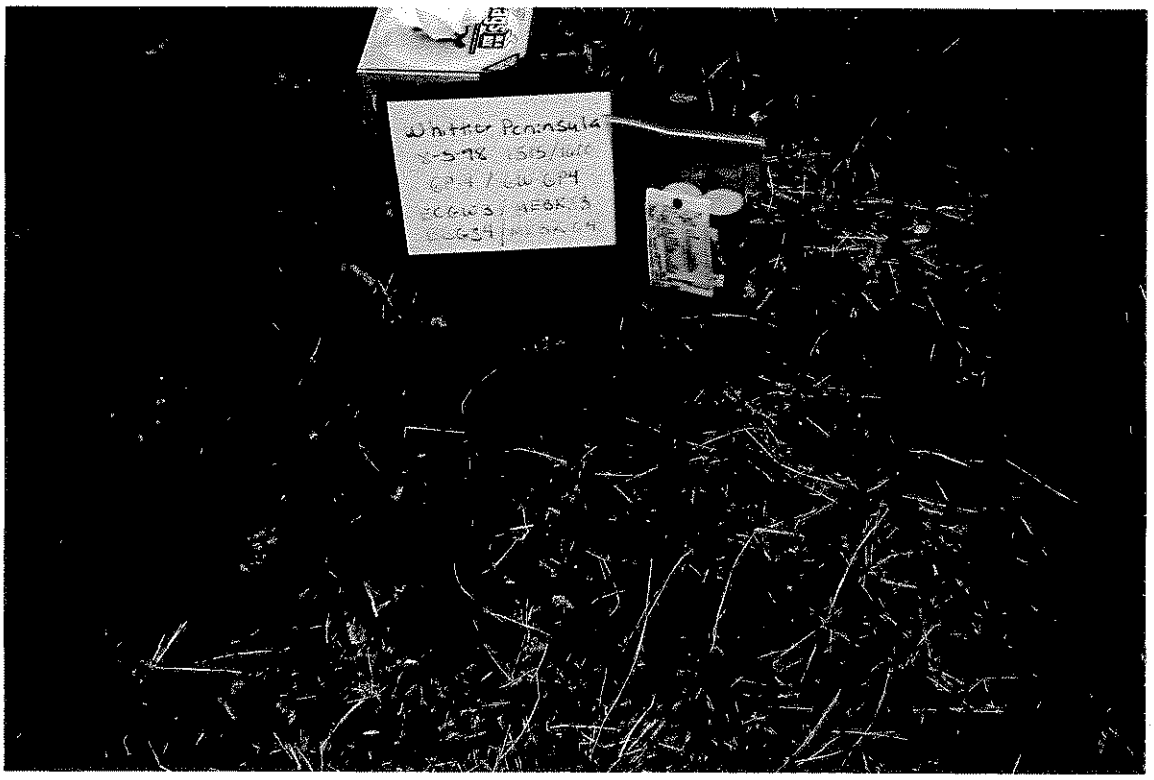


Photo No: 17
Sample No. ECGW/MEBKJ 2
Date: August 5, 1998
Orientation: South
Description: Perspective of Geoprobe soil sample GP2 collected in western corner of upper impound lot.

Photo No: 18
Sample No: ECGW/MEBKJ 3 & ECGS/MEBKG 4
Date: August 5, 1998
Orientation: North
Description: Close up of Geoprobe soil and groundwater samples GP4 and GW-GP4 collected from burn area of lower impound lot.



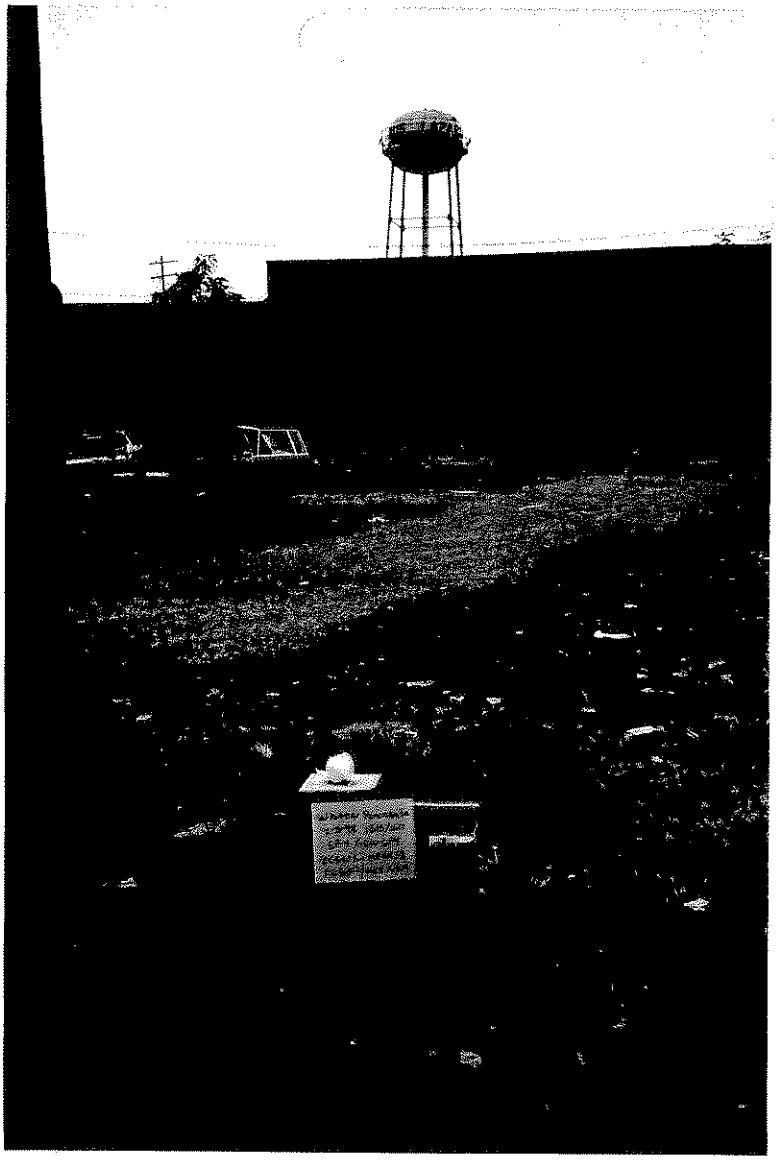


Photo No: 19
Sample No. ECGW/MEBKJ 3 & ECGS/MEBKG 4
Date: August 5, 1998
Orientation: West
Description: Perspective of Geoprobe soil and groundwater sample GP4 and GW-GP4 collected from burn area of lower upper impound lot.

Photo No: 20
Sample No: ECGT/MEBKH 6 & ECGS/MEBKG 5
Date: August 5, 1998
Orientation: Northeast
Description: Close up of Geoprobe soil and groundwater samples GP5 and GW-GP5 collected from stained area of parking lot at Maier Place.

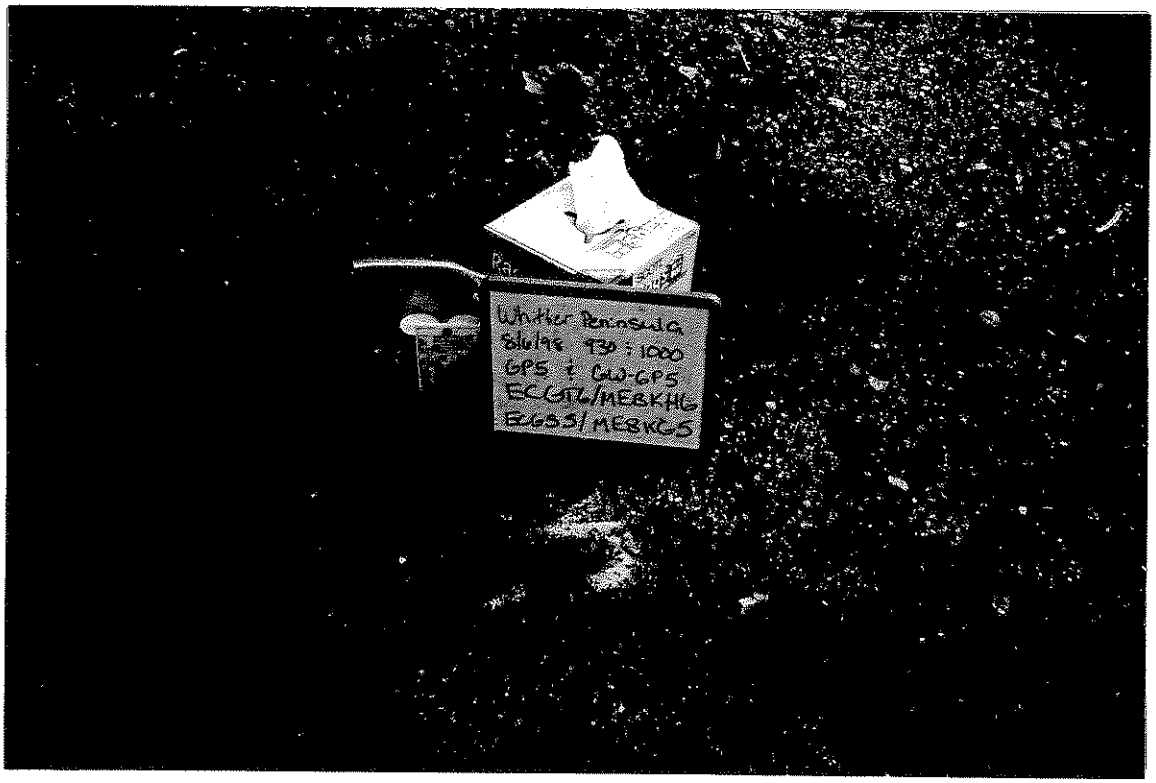


Photo No: 21 **Sample No:** ECGT/MEBKH 6 **Date:** August 5, 1998
Orientation: Northeast ECGS/MEBKG 5
Description: Perspective of Geoprobe soil and groundwater samples GP5 and GW-GP5 collected from stained area in parking lot of Maier Place.

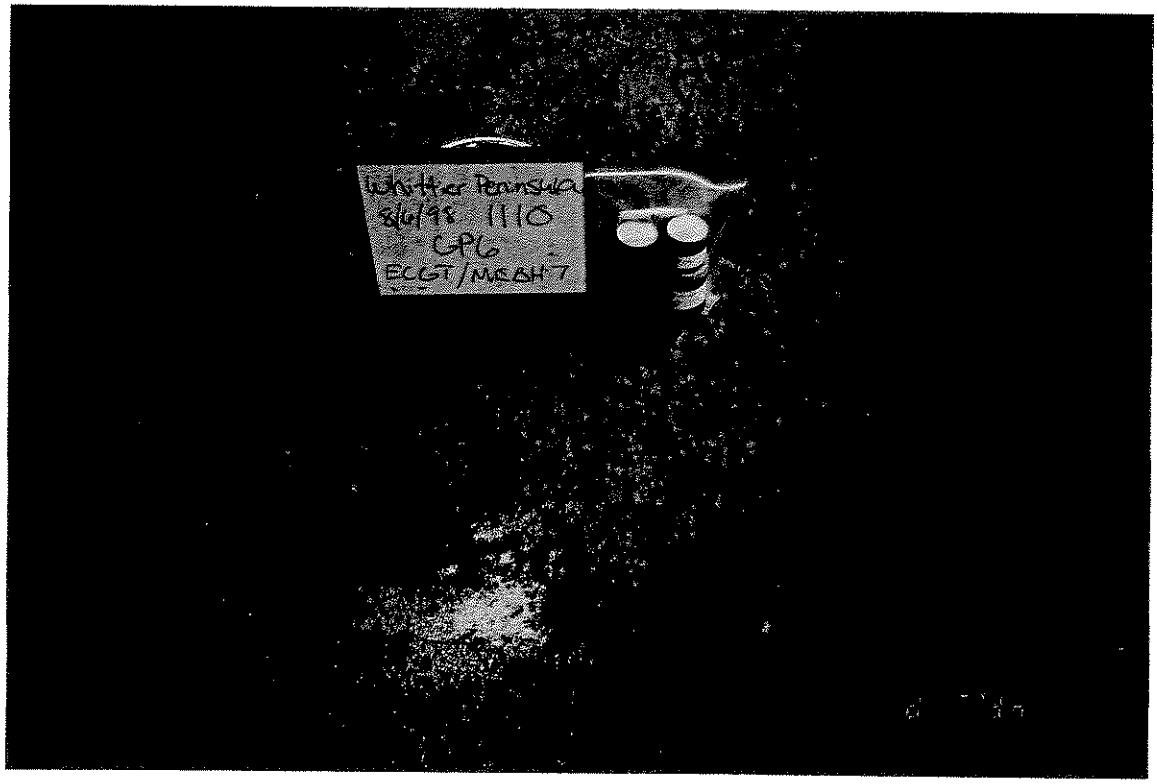


Photo No: 22 **Sample No:** ECGT/MEBKH 7 **Date:** August 4, 1998
Orientation: East
Description: Close up of Geoprobe soil sample GP6 collected from unpaved area of parking lot at Maier Place.

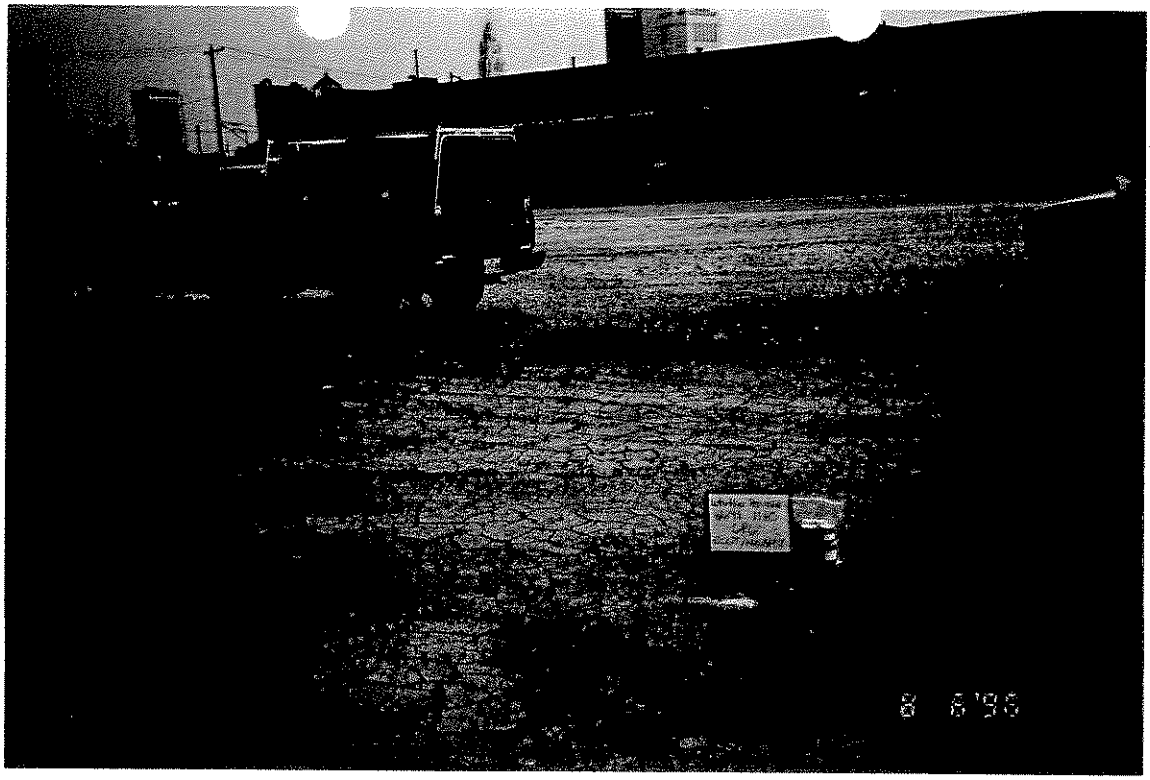


Photo No: 23 **Sample No:** ECGT/MEBKH 7 **Date:** August 5, 1998
Orientation: East
Description: Perspective of Geoprobe soil sample GP6 collected from unpaved area of parking lot at Maier Place.

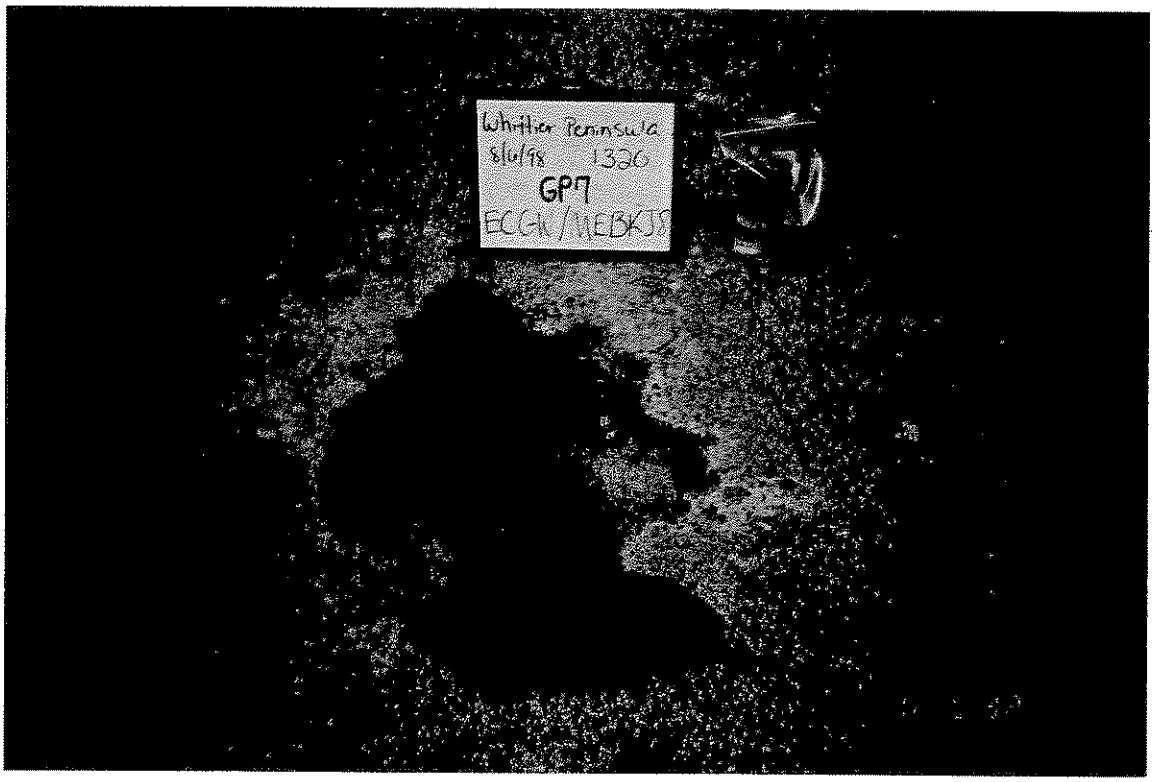


Photo No: 24 **Sample No:** ECGW/MEBKJ 8 **Date:** August 4, 1998
Orientation: Northwest
Description: Close up of Geoprobe GP7 collected on the west side of the Maier building.

Photo No: 25 **Sample No:** ECGW/MEBKJ 8 **Date:** August 5, 1998
Orientation: Northwest
Description: Perspective of Geoprobe soil sample GP7 collected on the west side of the Maier building.

Photo No: 26 **Sample No:** ECGW/MEBKJ 6 **Date:** August 5, 1998
Orientation: Southeast
Description: Close up of Geoprobe soil sample GP8 collected on north side of the Maier building between the substation and railroad tracks leading to the building.

Photo No: 27 **Sample No:** ECGW/MEBKJ 6 **Date:** August 5, 1998
Orientation: Southeast
Description: Perspective of Geoprobe soil sample GP8 collected on the north side of the Maier building between the substation and railroad tracks leading to the building.

Photo No: 28 **Sample No:** ECGW/MEBKJ 7 **Date:** August 5, 1998
Orientation: West
Description: Close up of Geoprobe soil sample GP9 collected close to the Maier building on the north side.

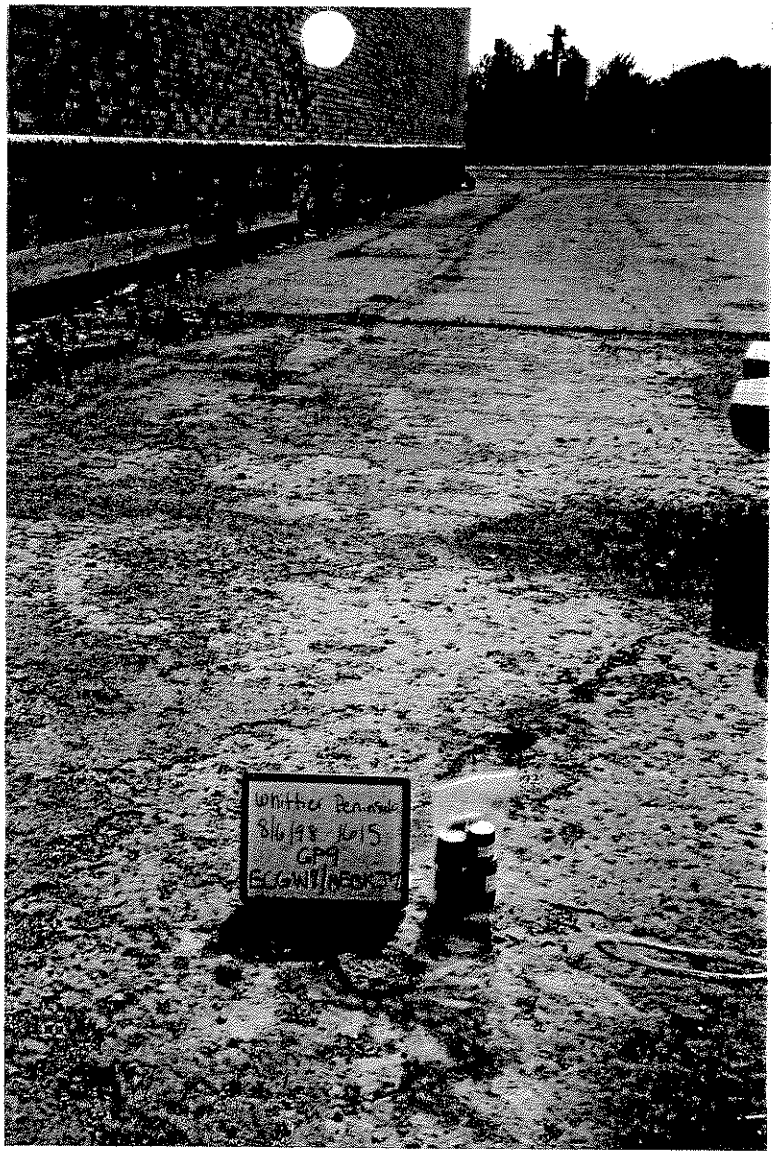


Photo No: 29
Sample No. ECGW/MEBKJ 7
Date: August 5, 1998
Orientation: West
Description: Perspective of Geoprobe soil sample GP9 collected close to Maier building on the north side.

Photo No: 30
Sample No: ECGW/MEBKJ 9 & ECGS/MEBKG 6
Date: August 5, 1998
Orientation: Northwest
Description: Closeup of Geoprobe soil and groundwater samples GP10 and GW-GP10 collected from stained area on west side of site between Maier Place Road. and a storage shed.

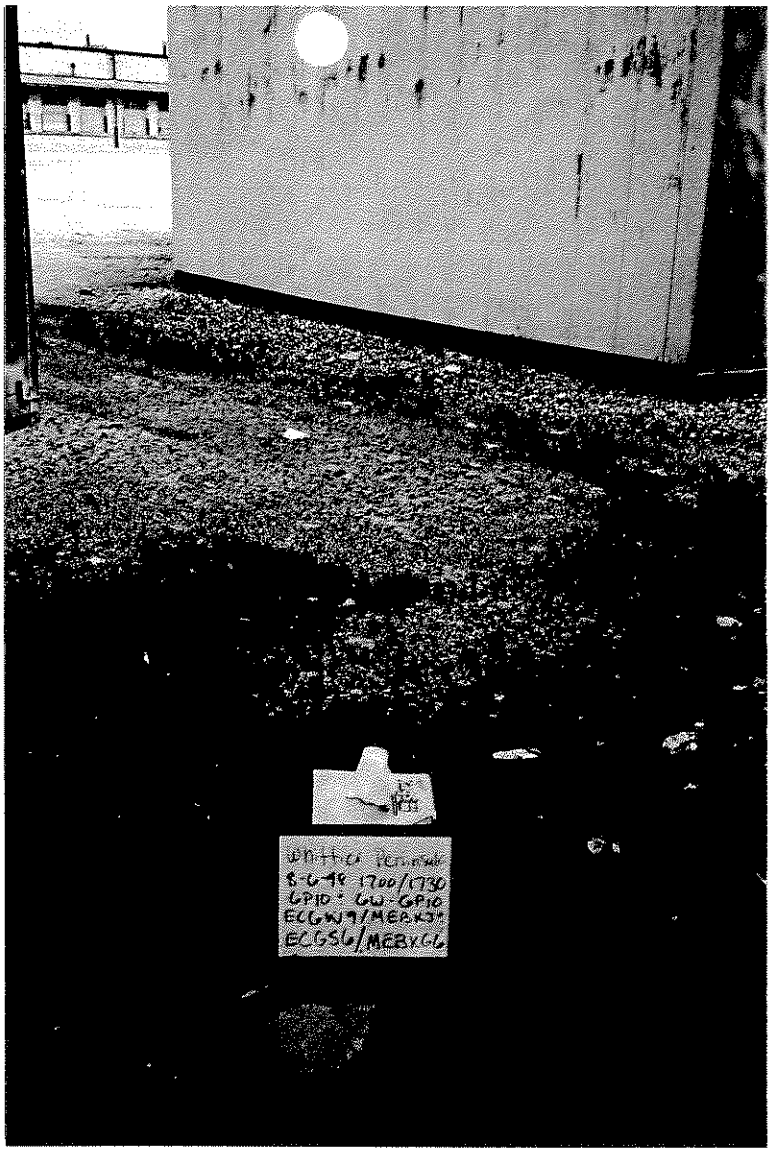


Photo No: 31
Sample No. ECGW/MEBKJ 9 & ECGS/MEBKG 6
Date: August 5, 1998
Orientation: Northwest
Description: Perspective of Geoprobe soil and groundwater samples GP10 and GW-GP10 collected from stained area on west side of site between Maier Place Road. and a storage shed.

Photo No: 32
Sample No: ECGW/MEBKJ 5 & ECGW/MEBKJ 4 (Dup)
Date: August 5, 1998
Orientation: West
Description: Closeup of surficial soil sample Maier East/Maier Hole collected on the east side of the Maier building.

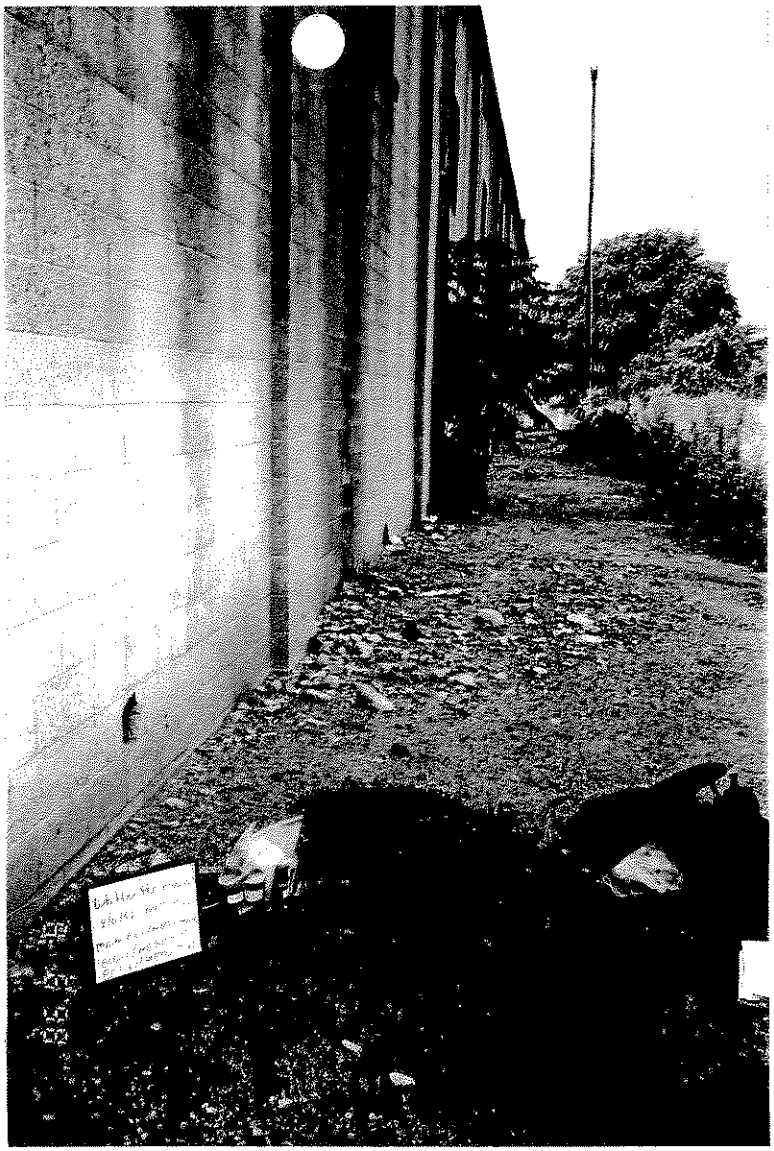


Photo No: 33
Sample No. ECGW/MEBKJ 5 & ECGW/MEBKJ 4 (Dup)
Date: August 5, 1998
Orientation: North
Description: Perspective of surficial soil samples Maier East and Maier Hole collected on the east side of the Maier building.

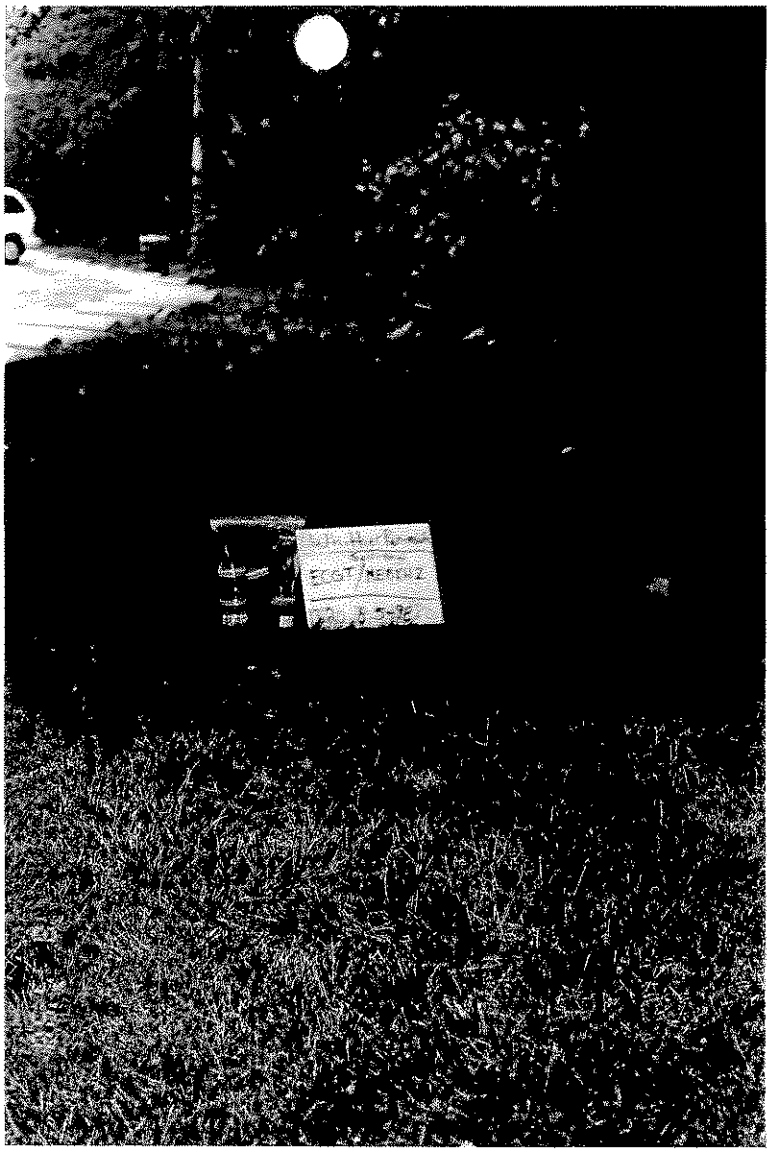


Photo No: 34
Sample No. ECGT/MEBKH 2
Date: August 5, 1998
Orientation:
Description: Background soil sample "South Background" collected next to Lower Scioto Park and Boat Launch.

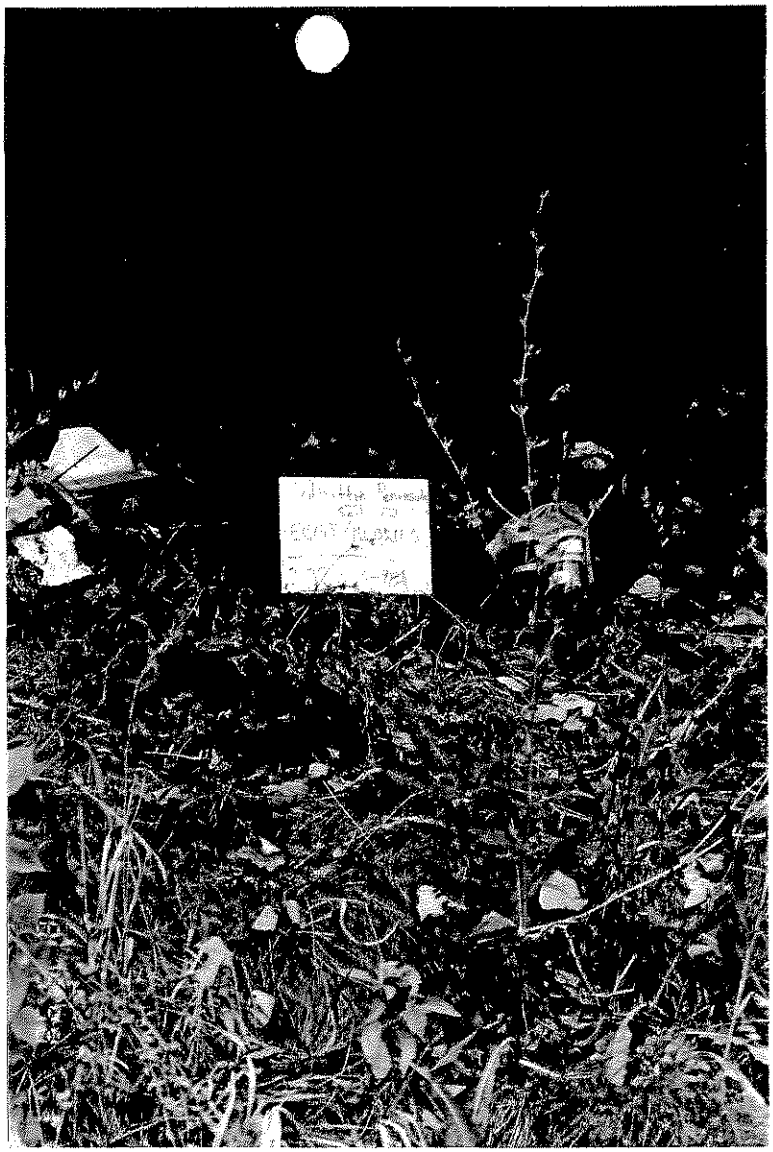


Photo No: 35
Sample No. ECGT/MEBKH 3
Date: August 5, 1998
Orientation: West
Description: Background soil sample "West Background" collected from Lower Scioto Park Bike Trail.

TABLE 1
Whittier Peninsula Significant Soil Sample Results

ORGANIC SAMPLE NO.		ECGT1	ECGT2	ECGT3	ECGT4	ECGT6	ECGT7	ECGW1	ECGW2
INORGANIC SAMPLE NO.		MEBKH1	MEBKH2	MEBKH3	MEBKH4	MEBKH6	MEBKH7	MEBKJ1	MEBKJ2
DATE SAMPLE COLLECTED		8/5/98	8/5/98	8/5/98	8/5/98	8/5/98	8/5/98	8/5/98	8/5/98
SAMPLE DEPTH		0-8"	6-8"	4-6"	6-8"	4-8'	4-8'	4-8'	10-13'
DESCRIPTION		Near MW2	S.BKGD	W.BKGD	Depression	GP5	GP6	GP1	GP2
SEMI-VOLATILE ORGANIC COMPOUNDS	*CRQL*								
naphthalene	330 ug/kg	*360U*	*380U*	*390U*	*400U*	*69J*	*400U*	**780**	*55J*
2-methylnaphthalene	330 ug/kg	*360U*	*380U*	*390U*	*400U*	*110J*	*400U*	**660**	*45J*
acenaphthene	330 ug/kg	*360U*	*380U*	*390U*	*63J*	*390U*	*400U*	**1200**	*400U*
dibenzofuran	330 ug/kg	*360U*	*380U*	*390U*	400U	*390U*	*400U*	**1100**	*48J*
fluorene	330 ug/kg	*360U*	*380U*	*390U*	75J	*390U*	*400U*	**1700**	*51J*
phenanthrene	330 ug/kg	*50J*	*140J*	*45J*	**950**	*91J*	*400U*	**13000E**	**810**
anthracene	330 ug/kg	*360U*	*380U*	*390U*	*180J*	*390U*	*400U*	**3100**	*120J*
carbazole	330 ug/kg	*360U*	*380U*	*390U*	*98J*	*390U*	*400U*	**1700**	*99J*
fluoranthene	330 ug/kg	*74J*	*270J*	*84J*	**1300**	*97J*	*400U*	**13000E**	**1000**
pyrene	330 ug/kg	*53J*	*180J*	*63J*	**1700**	*73J*	*400U*	**9400E**	**780**
benzo(a)anthracene	330 ug/kg	*360U*	*100J*	*390U*	**810**	*50J*	*400U*	**5800E**	**380J**
chrysene	330 ug/kg	*38J*	*110J*	*42J*	**690**	*62J*	*400U*	**4600E**	**460**
benzo(b)fluoranthene	330 ug/kg	*49XJ*	*110J*	*49J*	**720**	*78J*	*400U*	**5200E**	**500**
benzo(k)fluoranthene	330 ug/kg	*46XJ*	*100J*	*390U*	**520**	*45J*	*400U*	**2200**	**370J**
benzo(a)pyrene	330 ug/kg	*360U*	*95J*	*390U*	**500**	*47J*	*400U*	**3500E**	**330J**
indeno(1,2,3-cd)pyrene	330 ug/kg	*360U*	*70J*	*390U*	**400J**	*45J*	*400U*	**2900**	*320J*
dibenzo(a,h)anthracene	330 ug/kg	*360U*	380U	*390U*	*55J*	*390U*	*400U*	**1200**	*130J*
benzo(g,h,i)perylene	330 ug/kg	*360U*	*58J*	*390U*	**460**	*44J*	*400U*	**2500**	**290J**
PESTICIDES/PCBs	*CRQL*								
beta-BHC	1.7 ug/kg	*2.0J*	*2.0U*	*2.0U*	*2.4PJ*	*2.0U*	*2.1U*	*2.1U*	*2.0U*
heptachlor epoxide	1.7 ug/kg	*1.9U*	*2.0U*	*2.0U*	*2.0U*	*1.4JP*	*2.1U*	*2.1U*	*2.0U*
dieldrin	3.3 ug/kg	*3.7U*	*3.8U*	*3.9U*	**5.2**	*2.0U*	*4.0U*	*4.2U*	*4.0U*
4,4-DDE	3.3 ug/kg	*3.7U*	*3.8U*	*1.1JB*	**4.1PJ**	*2.0U*	*4.0U*	*4.2U*	**4.9PBJ**
endosulfan II	3.3 ug/kg	*3.7U*	*3.8U*	*3.9U*	*4.0U*	*3.9U*	*4.0U*	*4.2U*	*4.0U*
4,4-DDT	3.3 ug/kg	*3.7U*	*3.8U*	*3.9U*	**23PJ**	*3.9U*	*4.0U*	*1.7JP*	*4.0U*
methoxychlor	17.0 ug/kg	*3.7U*	*3.8U*	*20U*	*20U*	*20U*	*21U*	**56PJ**	*20U*
endrin ketone	3.3 ug/kg	*3.7U*	*3.8U*	*3.9U*	*4.0U*	*1.0JP*	*4.0U*	**26PJ**	*1.0JP*
endrin aldehyde	3.3 ug/kg	*3.7U*	*3.8U*	*3.9U*	*4.0U*	*3.9U*	*4.0U*	**6.4PBJ**	*4.0U*
alpha-chlordane	1.7 ug/kg	*0.96JP*	*2.0U*	*2.0U*	**3.5PJ**	*2.0U*	*2.1U*	*2.1U*	*2.0U*
gamma-chlordane	1.7 ug/kg	*3.7B*	*2.0U*	*2.0U*	*2.5PBJ*	*2.0U*	*2.1U*	**34EB**	*2.0U*
aroclor-1254	33 ug/kg	*37U*	*38U*	**34JP**	*40U*	*39U*	*40U*	*42U*	*40U*

TABLE 1

Whittier Peninsula Significant Soil Sample Results

ORGANIC SAMPLE NO.		ECGT1	ECGT2	ECGT3	ECGT4	ECGT6	ECGT7	ECGW1	ECGW2
INORGANIC SAMPLE NO.		MEBKH1	MEBKH2	MEBKH3	MEBKH4	MEBKH6	MEBKH7	MEBKJ1	MEBKJ2
DATE SAMPLE COLLECTED		8/5/98	8/5/98	8/5/98	8/5/98	8/5/98	8/5/98	8/5/98	8/5/98
SAMPLE DEPTH		0-8"	6-8"	4-6"	6-8"	4-8'	4-8'	4-8'	10-13'
DESCRIPTION		Near MW2	S.BKGD	W.BKGD	Depression	GP5	GP6	GP1	GP2
aroclor-1260	33 ug/kg	*37U*	*38U*	*39U*	**270**	*39U*	*40U*	*42U*	*40U*
TAL METALS/CYANIDE	***CRDL***								
barium	40 mg/kg	*804*	*172*	*401*	*137*	*109*	*135*	*224*	**2100**
calcium	1000 mg/kg	*12700*	*7430*	*8740*	**83300**	*4760*	*4150*	**61100**	**82300**
copper	5 mg/kg	*37.6*	*26.8*	*40.7*	*93.4*	*42.2*	*28.7*	**130**	**415**
lead	0.6 mg/kg	*44.5*	*31.1*	*48.6*	**184**	*50*	*28.7*	**315**	**1290**
magnesium	1000 mg/kg	*5190*	*3670*	*4970*	**21300**	*2710*	*2720*	*25500*	*9540*
mercury	0.1 mg/kg	*0.05U*	*0.08B*	*0.10B*	**0.25**	*0.06U*	*0.06U*	**0.44**	***0.52***
nickel	8 mg/kg	*35.8*	*24.8*	*37.8*	*77.6*	*29.5*	*29.4*	*23.7*	**102**
sodium	1000 mg/kg	*133B*	*40.9B*	*66.8B*	**244B**	*75.7B*	*52.0B*	**176B**	**1170**
zinc	4 mg/kg	*103*	*110*	*140*	*372*	*119*	*102*	*327*	**2050**

TABLE 1
Whittier Peninsula Significant Soil Sample Results

ORGANIC SAMPLE NO.		ECGW3	ECGW4	ECGW5	ECGW6	ECGW7	ECGW8	ECGW9
INORGANIC SAMPLE NO.		MEBKJ3	MEBKJ4	MEBKJ5	MEBKJ6	MEBKJ7	MEBKJ8	MEBKJ9
DATE SAMPLE COLLECTED		8/5/98	8/5/98	8/5/98	8/52/98	8/5/98	8/5/98	8/5/98
SAMPLE DEPTH		7-10.5'	6-12"	6-12"	4-8'	2-8'	8-12'	8-16'
DESCRIPTION		GP4	Maier Hole	Maier East	GP8	GP9	GP7	GP10
SEMI-VOLATILE ORGANIC COMPOUNDS	*CRQL*							
naphthalene	330 ug/kg	*400U*	*12000U*	*12000U*	*380U*	*400U*	*390U*	*460U*
2-methylnaphthalene	330 ug/kg	*400U*	*12000U*	*12000U*	*380U*	*400U*	*390U*	*460U*
acenaphthene	330 ug/kg	*400U*	*12000U*	**1200J**	*380U*	*400U*	*390U*	*460U*
dibenzofuran	330 ug/kg	*400U*	*12000U*	*12000U*	*380U*	*400U*	*390U*	*460U*
fluorene	330 ug/kg	*400U*	*12000U*	*12000U*	*380U*	*400U*	*390U*	*460U*
phenanthrene	330 ug/kg	*400U*	**12000**	**18000**	*51J*	*400U*	*390U*	*240J*
anthracene	330 ug/kg	*400U*	**1600J**	**3000J**	380U	*400U*	*390U*	*69J*
carbazole	330 ug/kg	*400U*	**1800J**	**2600J**	380U	*400U*	*390U*	*460U*
fluoranthene	330 ug/kg	*400U*	**16000**	**25000**	*86J*	*400U*	*390U*	**450J**
pyrene	330 ug/kg	*400U*	**13000**	**18000**	*70J*	*400U*	*390U*	**410J**
benzo(a)anthracene	330 ug/kg	*400U*	**5800J**	**7600J**	*380U*	*400U*	*390U*	*290J*
chrysene	330 ug/kg	*400U*	7100J	**9500J**	*50J*	*400U*	*390U*	*270J*
benzo(b)fluoranthene	330 ug/kg	*400U*	**6200J**	**7200J**	*44J*	*400U*	*390U*	**380J**
benzo(k)fluoranthene	330 ug/kg	*400U*	**5600J**	**7000J**	*46J*	*400U*	*390U*	*190J*
benzo(a)pyrene	330 ug/kg	*400U*	**5800J**	**6300J**	*44J*	*400U*	*390U*	*300J*
indeno(1,2,3-cd)pyrene	330 ug/kg	*400U*	**4300J**	**5400J**	*380U*	*400U*	*390U*	*200J*
dibenzo(a,h)anthracene	330 ug/kg	*400U*	**1800J**	**2300J**	*380U*	*400U*	*390U*	*93J*
benzo(g,h,i)perylene	330 ug/kg	*400U*	**3800J**	**4100J**	*380U*	*400U*	*390U*	*210J*
PESTICIDES/PCBs	*CRQL*							
beta-BHC	1.7 ug/kg	*2.0U*	*10U*	**3.5PJ**	*2.0U*	*2.1U*	*2.0U*	*2.4U*
heptachlor epoxide	1.7 ug/kg	*2.0U*	**7.8JP**	**3.3**	**5.2**	*2.1U*	*2.0U*	*0.63JP*
dieldrin	3.3 ug/kg	*3.9U*	*19U*	*3.8U*	*3.8U*	*4.0U*	*3.9U*	*4.6U*
4,4-DDE	3.3 ug/kg	*3.9U*	*19U*	*3.8U*	*3.8U*	*4.0U*	*3.9U*	*4.6U*
endosulfan II	3.3 ug/kg	*3.9U*	**4.3JP**	*1.7JP*	*3.8U*	*4.0U*	*3.9U*	*4.6U*
4,4-DDT	3.3 ug/kg	*3.9U*	**15JP**	**4.3**	*3.8U*	*4.0U*	*3.9U*	*4.6U*
methoxychlor	17.0 ug/kg	*1.8J*	**390PJ**	20U	*20U*	*21U*	*20U*	*24U*
endrin ketone	3.3 ug/kg	*3.9U*	**110PJ**	**17PJ**	*3.8U*	*4.0U*	*3.9U*	*2.3JP*

TABLE 1
Whittier Peninsula Significant Soil Sample Results

ORGANIC SAMPLE NO.		ECGW3	ECGW4	ECGW5	ECGW6	ECGW7	ECGW8	ECGW9
INORGANIC SAMPLE NO.		MEBKJ3	MEBKJ4	MEBKJ5	MEBKJ6	MEBKJ7	MEBKJ8	MEBKJ9
DATE SAMPLE COLLECTED		8/5/98	8/5/98	8/5/98	8/52/98	8/5/98	8/5/98	8/5/98
SAMPLE DEPTH		7-10.5'	6-12"	6-12"	4-8'	2-8'	8-12'	8-16'
DESCRIPTION		GP4	Maier Hole	Maier East	GP8	GP9	GP7	GP10
endrin aldehyde	3.3 ug/kg	*3.9U*	**14JPB**	**6.7PBJ**	*3.8U*	*4.0U*	*3.9U*	*4.6U*
alpha-chlordane	1.7 ug/kg	*2.0U*	*10U*	*2.0U*	*2.0U*	*2.1U*	*2.0U*	*2.4U*
gamma-chlordane	1.7 ug/kg	*2.0U*	*10U*	*2.0U*	*2.0U*	*2.1U*	*2.0U*	*2.4U*
aroclor-1254	33 ug/kg	*39U*	*190U*	*38U*	*38U*	*40U*	*39U*	*46U*
aroclor-1260	33 ug/kg	*39U*	*190U*	*38U*	*38U*	*40U*	*39U*	*46U*
TAL METALS/CYANIDE	***CRDL***							
barium	40 mg/kg	*157*	*100*	*110*	*64.2*	*99.6*	*81.5*	*86*
calcium	1000 mg/kg	*6240*	**22600**	*29800*	**92900**	*12800*	*2220*	*20800*
copper	5 mg/kg	*79.9*	*55.1*	*61.6*	*58.1*	*30.4*	*25.5*	75.8
lead	0.6 mg/kg	*67.1*	*76.9*	*109*	*54.8*	*21.4*	*16*	**119**
magnesium	1000 mg/kg	*3810*	*7260*	*11900*	**31100**	*4570*	*2790*	*6950*
mercury	0.1 mg/kg	*0.06U*	***0.38***	***0.4***	*0.06U*	*0.06B*	*0.06U*	***0.26***
nickel	8 mg/kg	*38.7*	*26.2*	*27.8*	*22*	*19.4*	*28.1*	*32.8*
sodium	1000 mg/kg	*50.1B*	*74.9B*	*122B*	*121B*	*71.1B*	*52.9B*	**123B**
zinc	4 mg/kg	*142*	*149*	*229*	*139*	*78.7*	*84.6*	*192*

TCL COMPOUND QUALIFIERS	DEFINTION
U	Indicates that the compound was analyzed for, but not detected.
J	Indicates an estimated value. The result is less than the SQL, but greater than zero.
P	Indicates a pesticide/Aroclotarget analyte when there is greater than 25% difference for the detected
	concentrations between the two GC columns. The low of the two results is report.
B	Indicates the analyte is detected in the associated blank as well as in the sample.
E	Indicates compounds whose concentration exceed the calibration range of the instrument.

TAL ANALYTE QUALIFIERS	DEFINTION
U	Indicates the material was analyzed for, but not detected above the level of the sample detection limit.
B	Value is real, but is above instrument detection limit and below contract-required detection limit.

TABLE 2

Whittier Peninsula Significant Groundwater Sample Results

ORGANIC SAMPLE NO.	ECGS1	ECGS2	ECGS3	ECGS4	ECGS5	ECGS6
INORGANIC SAMPLE NO.	MEBKG1	MEBKG2	MEBKG3	MEBKG4	MEBKG5	MEBKG6
DATE SAMPLE COLLECTED	8/5/98	8/5/98	8/5/98	8/5/98	8/5/98	8/5/98
QA DESCRIPTION			D of ECGS2			
DESCRIPTION	Mulch Well	South Well	Universal Well	GW-GP4	GW-GP5	GW-GP10

TAL METALS/CYANIDE	*CRDL*						
aluminum	200 ug/l	436	2450	3570	134000	104000	184000
antimony	60 ug/l	57.7U	57.7U	57.7U	57.7U	57.7U	57.7U
arsenic	10 ug/l	14.3	4.6B	7.0B	**144**	**247**	**474**
barium	200 ug/l	133B	170B	178B	*1160*	*1320*	**4660**
beryllium	5 ug/l	0.22U	0.22U	0.54B	**6.8**	**5.0B**	**10.8**
cadmium	5 ug/l	4.2U	4.2U	4.2U	**6.6**	4.2U	**8.9**
calcium	5000 ug/l	56300	148000	154000	808000	716000	974000
chromium	10 ug/l	5.1U	5.7B	10.4B	**214**	**206**	**238**
cobalt	50 ug/l	13.6U	13.6U	13.6U	79.8	121	185
copper	25 ug/l	8.4B	12.1B	16.8B	346	241	438
iron	100 ug/l	755	5020	6570	207000	253000	445000
lead	3 ug/l	3.3	7.6	10.2	205	125	390
magnesium	5000 ug/l	1660B	47300	47100	216000	194000	283000
manganese	15 ug/l	153	1150	1110	4600	9980	17300
mercury	0.2 ug/l	0.10U	0.10U	0.10U	0.15B	0.67	0.27
nickel	40 ug/l	33.4U	33.4U	33.4U	**308**	**321**	**404**
potassium	5000 ug/l	31800	21300	21100	53200	39100	60700
selenium	5 ug/l	3.1B	2.0U	2.2B	7.5	4.7B	22.5
silver	10 ug/l	3.4U	3.4U	3.4U	6.1B	8.6B	16.5
sodium	5000 ug/l	1570000	34700	33100	58900	126000	103000
thallium	10 ug/l	2.9U	2.9U	2.9U	2.9U	2.9U	2.9U
vanadium	50 ug/l	5.1B	8.8B	12.9B	361	262	472
zinc	20 ug/l	5.3U	72.3	119	1070	1610	1570
cyanide	10 ug/l	1.0B	1.0B	1.0B	1.0B	1.0B	1.0B

TAL ANALYTE QUALIFIERS	DEFINITION
B	Value is real, but is above instrument detection limit and below contract-required detection limit.
U	Compound was analyzed for but not detected.

APPENDIX D
WELL LOGS

East of …

CONRAIL
CORP
BDY
LINCOLN
ROAD
GLENN
WEST
ELMWOOD
Library
Edison Sch
High Sch
BROADVIEW
GRANDVIEW
GRANDVIEW HEIGHTS
City Hall
Grandview Park
BLVD
MULFORD
R 23 W
WEST BDY
REFUGEE
LANDS
BURR
Stevenson Sch
Filtration Plant
COLUMBUS CORP BDY
COPELAND RD
GOODALE
Radio Tower
Radio Tower (WBNS)
Gowdy Park
OHIO
RIVER
Michigan Sch
PENNSYLVANIA
First Ave Sch
Jr High Sch
Everett
Doctors Hospital
Second Ave Sch
Sacred Heart Sch
Hubbard Sch
Goodale Park
St Francis
AVENUE
STREET
OHIO STATE PENITENTIARY
NORFOLK AND WESTERN
CLEVELAND
Lower Scioto Park
CONRAIL
C&O
Schiller Park

WE' LOG AND DRILLING RE' RT

ORIGINAL

NO CARBON PAPER NECESSARY— SELF-TRANSCRIBING

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
65 S. Front St., Rm. 815 Phone (614) 469-2646
Columbus, Ohio 43215

No. 416916

County FRANKLIN Township COLUMBUS Section of Township

Owner RANCO CONTROLS DIV Address 601 W. FIFTH AVE. COL'S, O

Location of property On east side of Plant

CONSTRUCTION DETAILS

Casing diameter 10"X8" Length of casing 10"-105' 8"-140'
Type of screen NONE Length of screen
Type of pump SUBMERSIBLE
Capacity of pump 250 GPM
Depth of pump setting 63'
Date of completion 8-71

BAILING OR PUMPING TEST
(Specify one by circling)

Test Rate 230 G.P.M. Duration of test 8 hrs.
Drawdown 3'-4" ft. Date 8-71
Static level-depth to water 45'-4" ft.
Quality (clear, cloudy, taste, odor) CLEAR

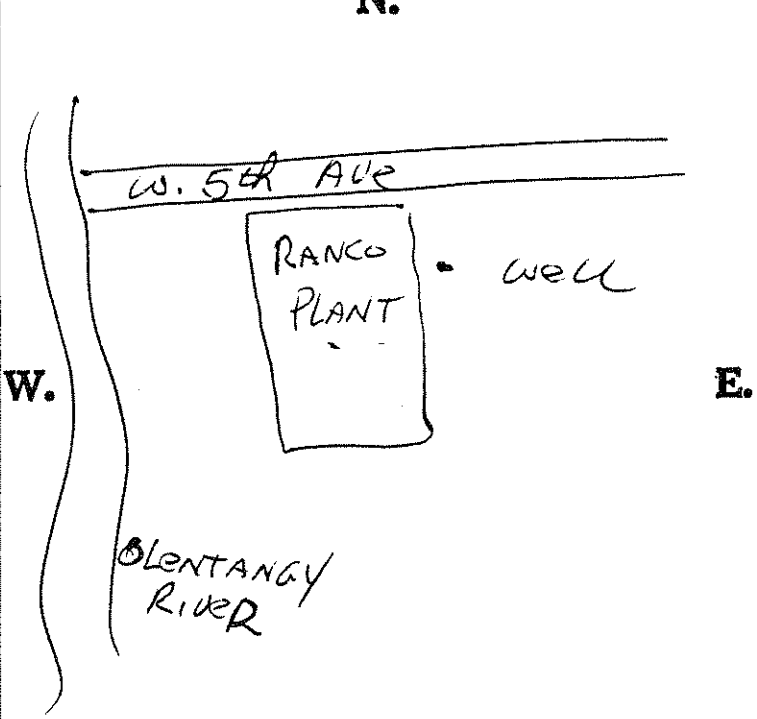
Pump installed by G M BAKER & SON, INC.

WELL LOG*

Formations Sandstone, shale, limestone, gravel and clay	From	To
FILL	0 Feet	4 Ft.
SWAMP MUD & DUMP MATERIAL	4	28
SAND & GRAVEL	28	50
CLAY & GRAVEL	50	85
SOFT GREY CLAY	85	93
CLAY & GRAVEL	93	105
BROKEN LIMESTONE W/ MUD SEAM	105	117
SOLID BROWN LIMESTONE	117	140
NOTE: WELL EQUIPPED WITH 8" LINER, SLOTTED @ 136'-140'	111'-121'	

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



Drilling Firm G. M. BAKER & SON, INC.
Address 145 HOSACK STREET COLUMBUS, OHIO 43207

Date 12-16-72
Signed W. H. Baker Jr.

*If additional space is needed to complete well log, use next consecutive numbered form.

256

OHIO WATER SUPPLY BOARD

Well Record No. 207

25 — 4

Co. Frankl in Twp. ..... Sec. .....

Well Location Town & Well Sts., Size City

Map .....

Owner F. & R. Lazarus & Co. Address Columbus, O.

Driller ..... Date .....

Well Head Elev. or M. P. .....

Elev. of Ground at Well 763'

Pumping Test: 250 gpm

.....

Static Level ✓ Date .....

Normal Pumpage .....

Quality ..... Use .....

Adequacy of supply .....

.....

Owner's Well No. or Other Designation .....

.....

Source of Data C. E. Records

Collected by R.J.B. Date 9/42

9925128 STRATA	DEPTH From	DEPTH To
Basement	0	20
Yellow Clay & Gravel	20	37
Boulders	37	45
Yellow Clay & Fine Sand	45	50
Gravel & Sand	50	54
Blue Clay	54	62
Blue Clay & Gravel	62	74
Muddy Gravel	74	84
Water Gravel	84	92
Yellow Clay & Gravel	92	94
Yellow Sand & Gravel	94	97
Yellow Sand & Gravel	97	100
Coarse Sand & Gravel, streaked clay	100	114
Clean Gravel	114	118
Boulders (3)	118	119
Blue Clay	119	120

Z = 1,859,400 ± 300

Y = 714,000 ± 300 - S

* Chief Aquifer

WELL LOG AND DRILLING REPORT

ORIGINAL

PLEASE USE PENCIL OR TYPEWRITER
DO NOT USE INK.

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio 43212

No 351642

County Franklin Township ~~Franklin~~ Columbus Section of Township

Owner A & P Tea Co Address Columbus, Ohio

Location of property Corner (North West) Spring & Neil Sts

CONSTRUCTION DETAILS

Casing diameter 8" Length of casing 84'
Type of screen None Length of screen
Type of pump
Capacity of pump Return Well
Depth of pump setting
Date of completion

BAILING OR PUMPING TEST

Pumping Rate G.P.M. Duration of test hrs.
Drawdown ft. Date
Static level-depth to water ft.
Quality (clear, cloudy, taste, odor)

Pump installed by

WELL LOG*

Formations Sandstone, shale, limestone, gravel and clay	From	To
Fill	0 Feet	24 Ft.
Clay	24	38
Clay & gravel	38	74
Clay	74	83
Limestone	83	195

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

N.

W. E.

S.

See reverse side for instructions

Drilling Firm G. M. Baker & Son Date 11-7-68

Address Columbus, Ohio Signed W. A. Boger

*If additional space is needed to complete well log, use next consecutive numbered form.

262

TRI-STATE DRILLER
P.O. Box 170
Seven Mile, Ohio 45062
(513) 726-5153

Franklin Co.
Columbus
9925097

WELL LOG AND DRILLING REPORT

Columbus South Parking Garage
Franklin County
Corner of High and Rich Streets
Columbus, Ohio

Construction Details

20" diameter casing 63'3" total depth

Well Log

Formation	From	To
sand and gravel all sizes, cobbles	0	12
silt, clay, gravel	12	14
silt, clay, gravel, black substance	14	21
silt, sand and gravel	21	25
sand and gravel	25	30
sand and gravel with clay	30	36
sand and gravel	36	40
sandy clay	40	43
sand and gravel	43	47
stiff sand	47	50
sand and gravel	50	63

Water at approx 50'

At 14' soil consistency became thick like clay and had bad oder. When rinsed with water found no clay, but oily substance mixed with sand and gravel.

At 27' the casing had to be pulled back. When performing this at 21' with approx 3' of open hole below casing you could see a liquid rushing into the hole at the bottom of the pipe. At this point the fumes were extremely heavy and could be smelled from 25' away. It was at this point that Mr. Don Calhoun observed the well hole.

Drilled by James David Yeager Hole completed 2-8-88

OHIO WATER SUPPLY BOARD

Well Record No. 86

25 4
Co. Franklin Twp. Columbus Sec.
Well Location NE corner of Town and Front Sts., Cols., Ohio Size
Map West Columbus

Owner F. & R. Lazarus Co. Address
Driller G. M. Baker Date Dec. 1941

Well Head Elev. or M. P.
Elev. of Ground at Well 740 to 750

Pumping Test: ~

Static Level ~ Date
Normal Pumpage

Quality X = 1,859,400 ± 300 Y = 714,000 ± 300 Use

Adequacy of supply

Owner's Well No. or Other Designation

Source of Data Stanley Norris
Collected by Date June 1946

9925046 STRATA	DEPTH From	DEPTH To
Glacial drift	0	18
Coarse and medium gravel, some sand	18	40
Brown clay with some medium gravel, very dense	40	60
Med. gravel with some sand	60	87
Olentangy shale, soft blue-gray shale, some pyrite	87	112
Top of lime Ls., dark gray, dense, slightly crystalline	112	122
Light gray, soft coarsely crystalline limestone		130
Gray to gray-brown coarsely crystalline soft to slightly earthy limestone		140
Gray-brown crystalline ls.		148
Top of Columbus limestone Light gray to white crystalline limestone		162
Brown gray crystalline to slightly sugary ls. (over)	(1)	170

* Chief Aquifer

	From	To
Light gray, coarsely crystalline calcite limestone	170	190
Light gray-brown dense very finely crystalline limestone	190	200
Light gray, soft, with some coarse calcareous crystals	200	220
Light gray to blue-gray dolomitic limestone	220	230
White limestone, crystalline to sub-earthy, siliceous or dolomitic	230	240

OHIO WATER SUPPLY BOARD

Well Record No. 89

25

Co. Franklin Twp. 4 Sec.
Well Location State House Size
Map Columbus (City Map)
Owner State of Ohio Address State House
Driller Date 1956-60

Well Head Elev. or M. P.
Elev. of Ground at Well 760 approx.

Pumping Test: ←
Static Level ← Date
Normal Pumpage

Quality Use
X = 1,860,000
Adequacy of supply Y = 714,800-S

Owner's Well No. or Other Designation State House Well
(State Library, Report of Commissioner)
Source of Data W. W. Mather, State Document of 1859
Collected by RIB Date 12-7-43
(Interpretation from Columbus Folio No. 197)

9925093 STRATA	DEPTH From	DEPTH To
Clay, sand & Gravel	0	123
Black shale (Ohio)	123	138
Gray ls. with bands of chert (Cols.& Del.ls.)	138	276
Very gritty rock (Monroe fm.) thin bedded, fine grained, compact banded, drab dolomite, with gypsum near base	276	278
(Cedarville & Springfield) Massive gray mg. ls.	278	651
(Osgood shale) Light bluish to drab shale with ls. lenses	651	700
(Clinton fm.) ls.& sh. some of which is red	700	768
(Medina) Red & gray sh.	768	888
(Richmond & Maysville) Blue, greenish, brown & gray calc. sh. with thin layers of ls. (cont.over)	888	968
(Eden) Dark bluish, verging on black shale	968	1618
(Trenton & older) Light gray to drab impure ls., low in mg.	1618	1993
(St.Peters) White & gray calc. ss with some greenish sh.	1993	2468
	2468	2784

* Chief Aquifer

Title	Thickness	
Drift	123'	
Ohio Shale	15'	
Cols. & Del.ls.	138'	sulphur water
? Oriskany	2'	
Monroe	373'	
Cedarville & Springfield	49'	Na Cl
Osgood shale	68'	
Clinton	120'	
Medina	80'	
Richmond & Maysville	650'	
Eden	375'	
Trenton & older	475'	
St. Peters	316'	

WELL LOG AND DRILLING REPORT

ORIGINAL

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
Columbus, Ohio

No 155877

County Franklin Township ~~Montgomery~~ Columbus Section of Township or Lot Number

Owner Big Bear Stores Address Columbus, Ohio

Location of property Jaeger & Whittier Sts.

CONSTRUCTION DETAILS

Casing diameter 8" Length of casing

Type of screen None Length of screen

Type of pump None is well

Capacity of pump This is return

Depth of pump setting

PUMPING TEST

Pumping rate ✓ G.P.M. Duration of test hrs.

Drawdown ft. Date

Developed capacity ✓

Static level—depth to water 111 ft.

Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
Fit	0 Feet	9 Ft.
Cement	9	10
Dry gravel & boulders	10	15
Clay	15	42
Sandy clay	42	50
Dry gravel	50	82
Clay - soft	82	95
Clay - hard	95	106
Gravel	106	108
Sandy clay	108	117
Clay - hard	117	128
Gravel	128	137
Shale	137	155
Limestone - brown	155	192
" White	192	230

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

N.

W. E.

S.

157
137
620

See reverse side for instructions

Drilling Firm D. M. Baker & Sons Date 11/12/55

Address Columbus Ohio Signed W. H. Boyer

235

PLEASE USE PENCIL
OR TYPEWRITER.
DO NOT USE INK.

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio

641

No. 236110

County Franklin Township Franklin Section of Township

Owner Big Bear Stores Address Columbus, Ohio

Location of property 280 East Whittier St.

CONSTRUCTION DETAILS

Casing diameter 8" Length of casing 153

Type of screen None Length of screen

Type of pump

Capacity of pump No pump

Depth of pump setting return well

Date of completion

BAILING OR PUMPING TEST

Pumping rate G.P.M. Duration of test hrs.

Drawdown ft. Date

Developed capacity

Static level—depth to water 70' ft.

Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
Cement & Fill	0 Feet	3 Ft.
clay	3	7
Sandy clay	7	15
Clay & gravel	15	70
Sandy clay	70	80
Clay & gravel	80	100
Sand & gravel	100	148
Shale	148	149
limestone-brown	149	150
" " -White	150	200
" "	200	205
" " -gray	205	210
" " -Brown	210	247
" " -Gray	247	249
" " -White		

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

N.

W. E.

S.

See reverse side for instructions

Drilling Firm J. M. Roberts & Son Date 3/18/60

Address Columbus Ohio Signed W. V. Boger

235

ORIGINAL

637

WELL LOG AND DRILLING REPORT

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio

PLEASE USE PENCIL OR TYPEWRITER. DO NOT USE INK.

No. 236133

County Franklin Township Franklin Section of Township

Owner Aymour & Co. Address Columbus, Ohio

Location of property 42 West Jenkins — Rear of bldg

CONSTRUCTION DETAILS

Casing diameter 6" Length of casing 44'
Type of screen Johnson Length of screen 8'
Type of pump Ejector
Capacity of pump 25 G.P.M.
Depth of pump setting 35'
Date of completion 9/28/60

BAILING OR PUMPING TEST

Pumping rate ..... G.P.M. Duration of test ..... hrs.
Drawdown ..... ft. Date .....
Developed capacity Not tested.
Static level—depth to water 25' ft.
Pump installed by .....

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
Fit	0 Feet	4 Ft.
Clay & sand	4	31
" & gravel	31	35
Sand & gravel	35	56

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

N.

W. E.

S.

See reverse side for instructions

Drilling Firm W. M. Rogers & Son
Address Columbus, Ohio

Date 10/4/60
Signed W. M. Rogers

217.4

PLEASE USE PENCIL OR TYPEWRITER. DO NOT USE INK.

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio

280

No. 266012

County Franklin Township Marion Section of Township

Owner Yardley Plastic Co. Address Jenkins Ave

Location of property On plant property

CONSTRUCTION DETAILS

Casing diameter 12" Length of casing 138
Type of screen Johnson Length of screen 20
Type of pump V.W. Turbine
Capacity of pump 700 G.P.M.
Depth of pump setting 130'
Date of completion 9/3/61

BAILING OR PUMPING TEST

Pumping rate 700 G.P.M. Duration of test 8 hrs.
Drawdown 26 ft. Date 10/9
Developed capacity
Static level—depth to water 100' ft.
Pump installed by US

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
Fill	0 Feet	7 Ft.
Clay & boulders	7	14
clay & gravel	14	60
Clay & sand	60	95
Sand & gravel	95	158

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

N.

W. E.

S.

See reverse side for instructions

Drilling Firm G. M. Bokeyr Son
Address Cols. Ohio

Date 10/30/61
Signed Lewis H. Bogen

(V224.1) 221

217.3

WELL LOG AND DRILLING REPORT

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio, 43212

PLEASE USE PENCIL OR TYPEWRITER
DO NOT USE INK.

No. 354737

County Franklin Township Franklin Cols. Section of Township

Owner American Aggl. Corp. Address

Location of property

CONSTRUCTION DETAILS

Casing diameter 6 Length of casing 59

Type of screen 0 Length of screen

Type of pump 0

Capacity of pump 0

Depth of pump setting 0

Date of completion June 69

BAILING OR PUMPING TEST

Pumping Rate 0 G.P.M. Duration of test 0 hrs.

Drawdown 0 ft. Date June 69

Static level-depth to water 29'-10.1 ft.

Quality (clear, cloudy, taste, odor)

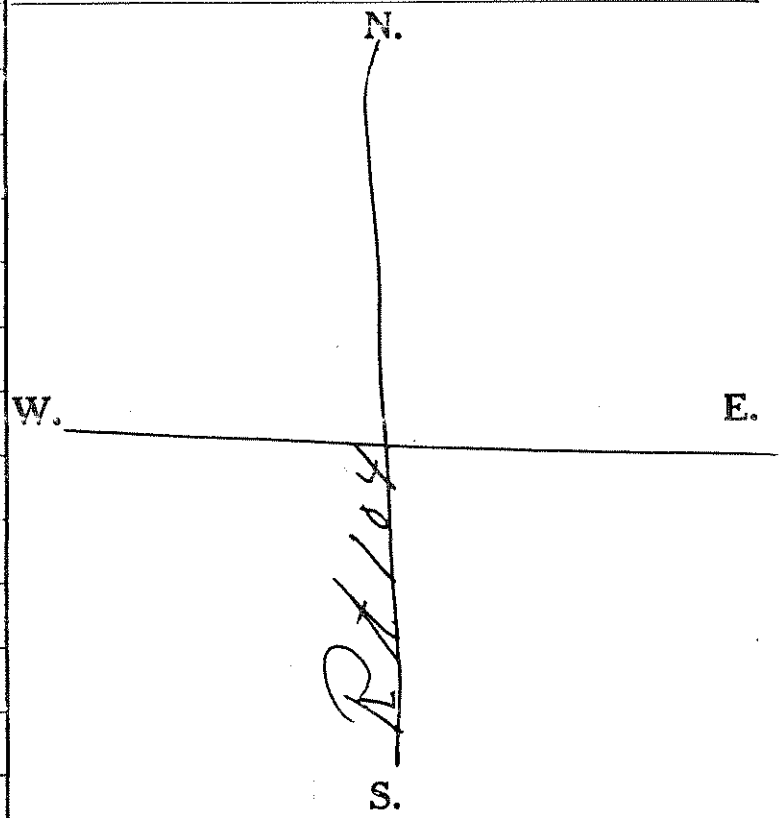
Pump installed by 00 Test

WELL LOG*

Formations Sandstone, shale, limestone, gravel and clay	From	To
Fill	0 Feet	12 Ft.
Sand & Gravel	12	40
Fine Gravel	40	54
Lime Stone	54	66

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm R. H. Goodwin Date June 1969

Address 1455 Striebel Rd. Signed R. H. Goodwin

*If additional space is needed to complete well log, use next consecutive numbered form.

217.2

WELL LOG AND DRILLING REPORT

696361

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1939 Fountain Square Drive
Columbus, Ohio 43224
(614) 265-6739

TYPE OR USE PEN
SELF-TRANSCRIBING
PRESS HARD!

Permit Number _____

COUNTY FRANKLIN TOWNSHIP Cols SECTION/LOT NO. _____ (CIRCLE ONE)

OWNER/BUILDER (CIRCLE ONE OR BOTH) PERMACRETE PRODUCTS PROPERTY ADDRESS 151 W. WELCH (ADDRESS OF WELL LOCATION)

LOCATION OF PROPERTY Same

CONSTRUCTION DETAILS

CASING
Diameter 2 in. Length 17 ft. Wall Thickness Sched. 40 in.
Type: ☐ Steel ☐ Galv. ☒ PVC ☐ Other _____
Joints: ☒ Threaded ☐ Welded ☐ Solvent ☐ Other _____

SCREEN
Type (wire wrapped, louvered, etc.) SLOTTED Material PVC
Length 10 ft. Diameter 2 in.
Set between 25 ft. and 15 ft. Slot .010
☐ Rotary ☐ Cable ☒ Augered ☐ Driven ☐ Dug ☐ Other _____
Date of completion 6-27-89

GROUT
Material PORTLAND Volume used 20 GAL
Method of installation TREMIE
Depth: placed from 13 ft. to 0 ft.

GRAVEL PACK
Material 6-20 SAND Volume used 410 lbs.
Method of installation FREE FALL
Depth: placed from 25 ft. to 13 ft.
Pitless Device ☐ Adapter ☐ Preassembled unit
Use of Well MONITORING

PUMP
Type of pump _____ Capacity _____ gpm
Pump set at _____ ft.
Pump installed by _____

WELL TEST
Bailing ☒ or Pumping ☐
Test rate 4 gpm Duration of test 1.0 hrs.
Drawdown _____ ft.
Measured from: ☐ top of casing ☒ ground level ☐ Other _____
Static Level (depth to water) 18 ft. Date: 6-29-89
Quality (clear, cloudy, taste, odor) _____
(Attach a copy of the pumping test record, per 1521.05, ORC)

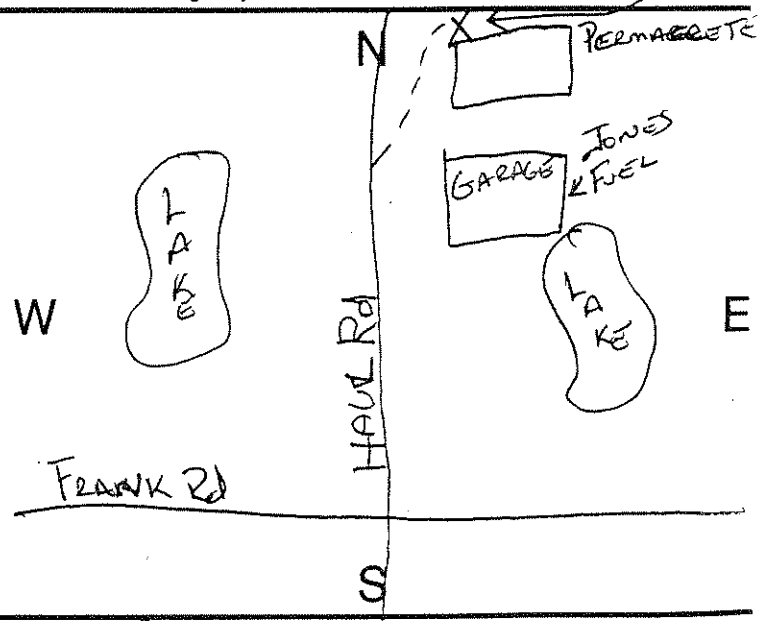
WELL LOG*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Show color, texture, hardness, and formation: sandstone, shale, limestone, gravel, clay, sand, etc.	From	To
SAND GRAVEL FILL	0 ft.	5 ft.
SAME	5	10
SAME SOME CLAY	10	15
SAME	15	20
SAME	20	25

SKETCH SHOWING LOCATION

Show distances well lies from numbered state highways, street intersections, county roads, etc. MWPL-4



* If additional space is needed to complete well log, use next consecutively numbered form

DNR 7802.88

DRILLING FIRM K & K INT. INC
ADDRESS 1234 S. CHEVE-MASS RD,
CITY, STATE, ZIP AKRON OHIO 44321

SIGNED Vic Evangelist
DATE 7/3/89
ODH REGISTRATION NUMBER _____

Completion of this form is required by 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.

ORIGINAL COPY - ODNR, DIVISION OF WATER, 1939 FOUNTAIN SQ. DRIVE, COLS., OHIO 43224

Blue - Customer's Copy Pink - Driller's Copy Green - Local Health Dept. Copy

217.1

WELL LOG AND DRILLING REPORT

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus 12, Ohio

-75

ORIGINAL

PLEASE USE PENCIL OR TYPEWRITER
DO NOT USE INK

No 296238

County Franklin Township City of Columbus Section of Township

Owner Chase Poultry Co Address 32 West Jenkins ave Columbus Ohio

Location of property 32 West Jenkins ave.

CONSTRUCTION DETAILS

Casing diameter 6" ID Length of casing 54'

Type of screen Red Brass Length of screen 10' 8"

Type of pump

Capacity of pump

Depth of pump setting Set Pump above

Date of completion Screen —

BAILING OR PUMPING TEST

Pumping Rate 37 G.P.M. Duration of test 2 hrs.

Drawdown None ft. Date

Static level-depth to water 30 ft.

Quality (clear, cloudy, taste, odor)

Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	52 Ft.
Clay sand & Gravel	52	64

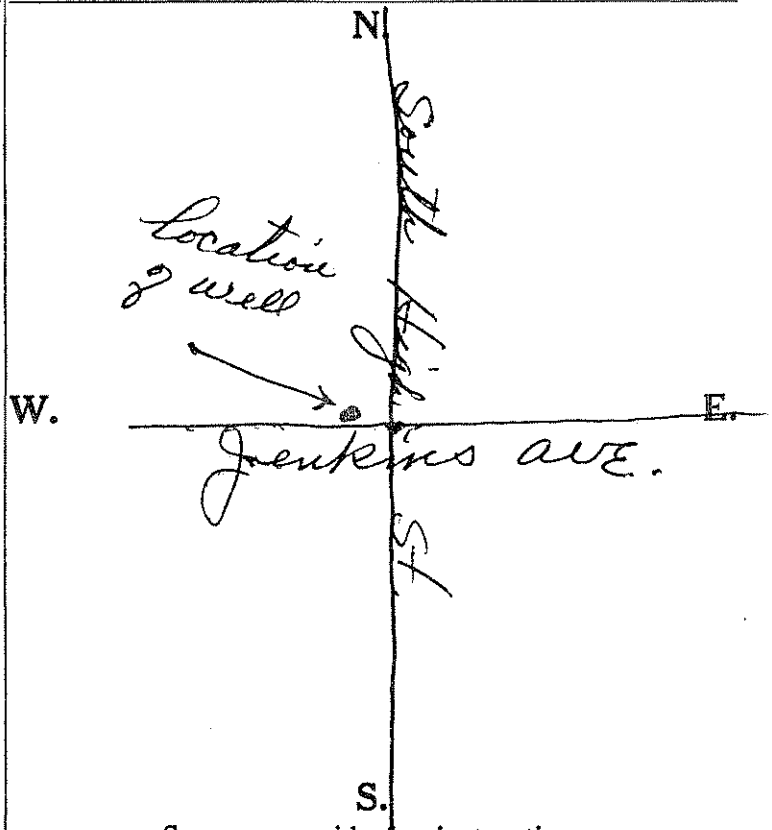
10 ft. of Red Brass screen Set on Bottom at 64 ft. 30 Slot.

Cook Screen

52 ft. to Top of screen from Ground level

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



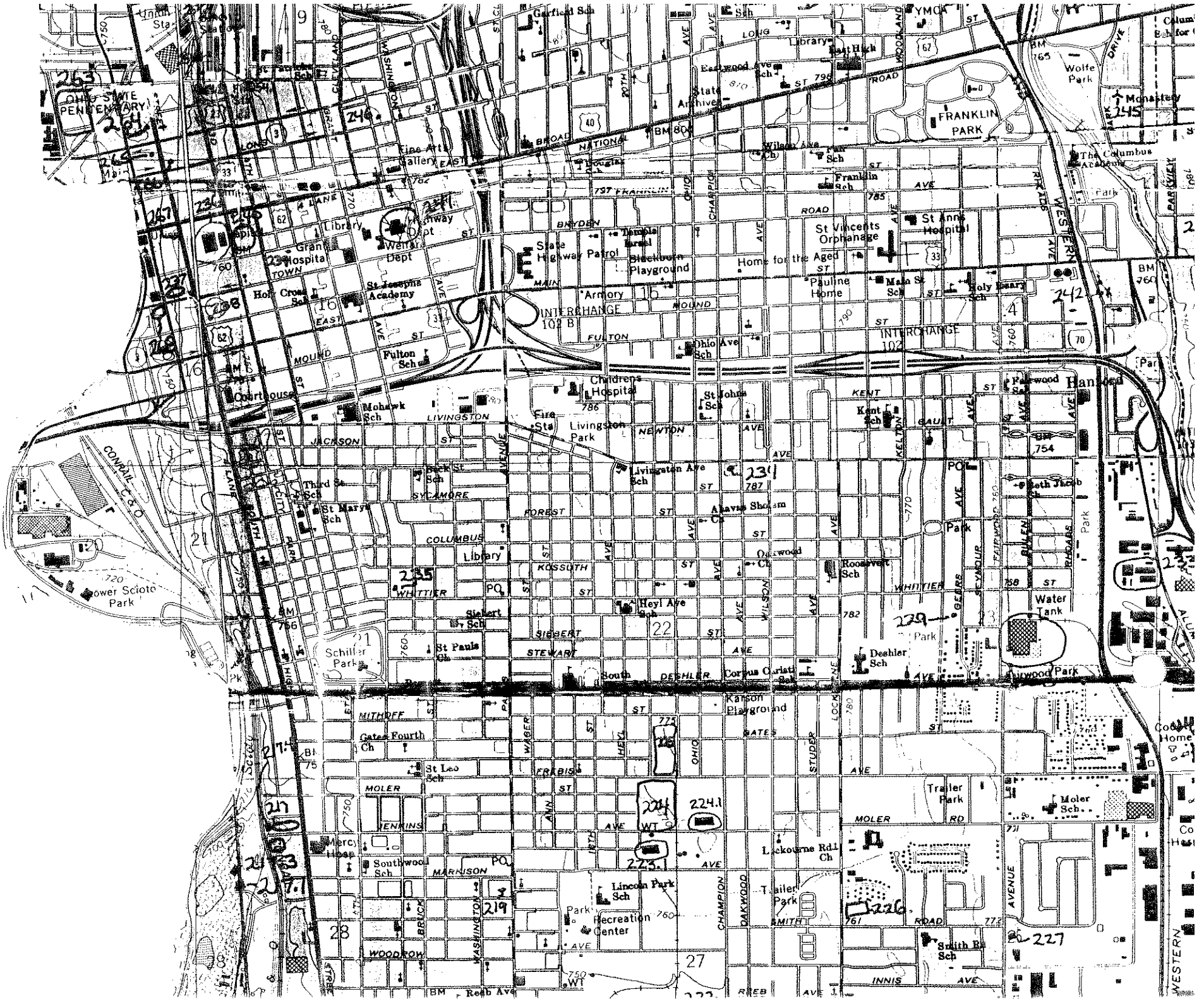
See reverse side for instructions

Drilling Firm R. Summers Bros Date July 2 / 64

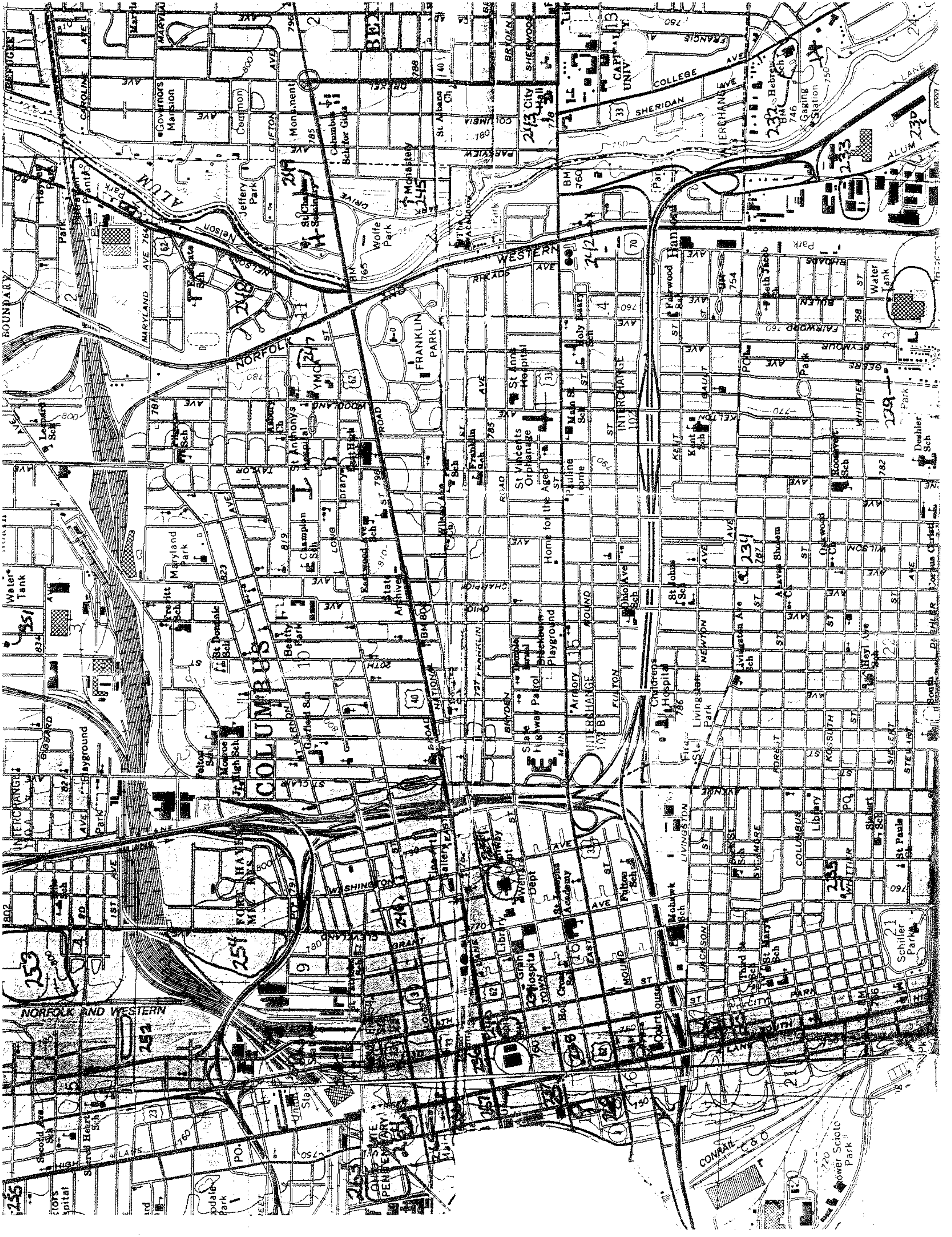
Address 537 N. Riverview St. Signed Harold L. R. Summers

Dublin Ohio

217

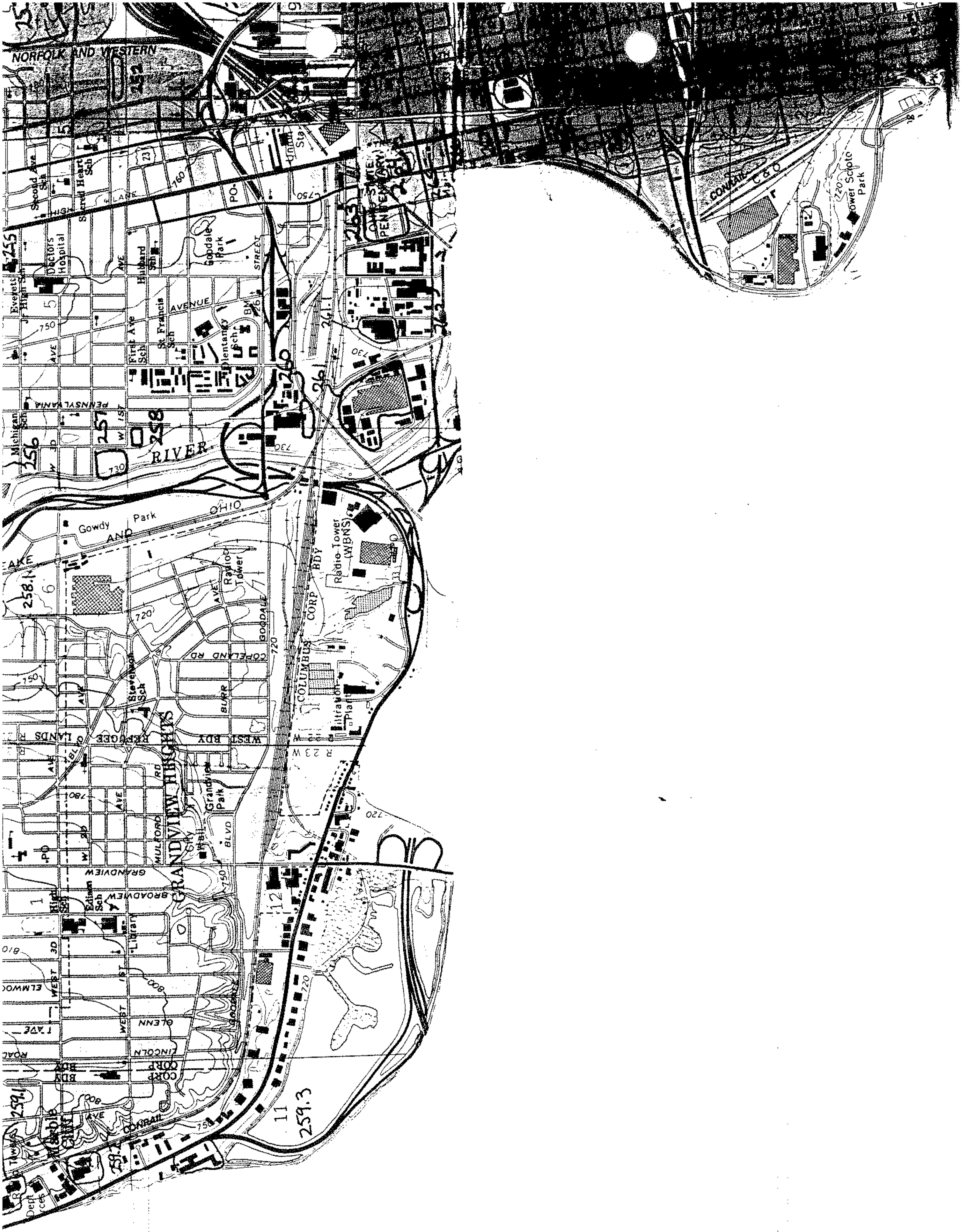

Union Sta.
Garfield Sch
YMCA
Library
East High
Wolfe Park
Monastery
OHIO STATE PENITENTARY
Fine Art Gallery
State Archives
FRANKLIN PARK
Wilson Ave Sch
Franklin Sch
The Columbus Academy
Library
Highway Dept
Welfare Dept
Grant Hospital
Temple Israel
Blackburn Playground
State Highway Patrol
St Vincents Orphanage
St Anns Hospital
Home for the Aged
Pauline Home
Main St Sch
Holy Rosary Sch
Armory
INTERCHANGE 102 B
INTERCHANGE 102
Holy Cross Sch
St Josephs Academy
Fulton Sch
Ohio Ave Sch
Courthouse
Children's Hospital
St Johns Sch
Kent Sch
Fairwood Sch
Hanscom
Mohawk Sch
Fire Sta
Livingston Park
Livingston Ave Sch
Beth Jacob
Third St Sch
Beck St Sch
St Marys Sch
Abavas Shalom
Park
Oakwood
Library
Roosevelt Sch
Lower Scioto Park
Heyl Ave Sch
Water Tank
Siebert St Sch
Schiller Park
St Pauls Ch
South Corpus Christi
Deshler Sch
Kanson Playground
Gates Fourth Ch
St Leo Sch
Trailer Park
Moler Sch
Mercy Hosp
Southwood Sch
Lockourne Rd Ch
Lincoln Park Sch
Trailer Park
Recreation Center
Smith Es Sch
Reeb Ave
INNIS AVE
CONRAIL
WESTERN AVENUE

ALUM
CREEK
DRIVE
County Home
County Hospital
WESTERN
AND
Bahnon
Agudas
PIPELINE
Water Tank
Fairwood Park
Moler Sch
AVENUE
FAIRWOOD
Watkins Sch
Koebel Sch
SOUTH
REFUGEE
ROAD
Trailer Park
MOLER
Smith Rd Sch
INNIS
Deshler Sch
Park
Marion-Franklin High Sch
Jr High Sch
WATKINS
GROVEWOOD
SOUTHFIELD
Clarfield Sch
LOCKBOURNE
STUDER
Lockbourne Rd Ch
Trailer Park
SMITH
Corpus Christi
Kaufman Playground
BATES
OAKWOOD
REEB
Sub Sta
CHAMPION
OHIO
DESHLER
Heyl Ave Sch
South
HEYL
Lincoln Park Sch
Recreation Center
Mount Carmel Ch
ELWOOD
Heimandale Sch
GROVEPORT
CHESAPEAKE
CORR
Buckeye Jr High Sch
SIEBERT
STEWART
FRABIS
ANN
WAGER
CONRAIL
Siebert Sch
St Pauls
WASHINGTON
MARKISON
Reeb Ave Sch
St Ladislaus Sch
St Leo Sch
JENKINS
BRUCK
WOODROW
Run
AVENUE
Fire Sta
Schiller Park
MITHOFF
Gates Fourth Ch
MOLER
Southwood Sch
Mercy Hosp
STREET
HIGH
Scioto Trail Sch
Drive-in Theater
DOLBY
ZIEGLER
SCHRYVER



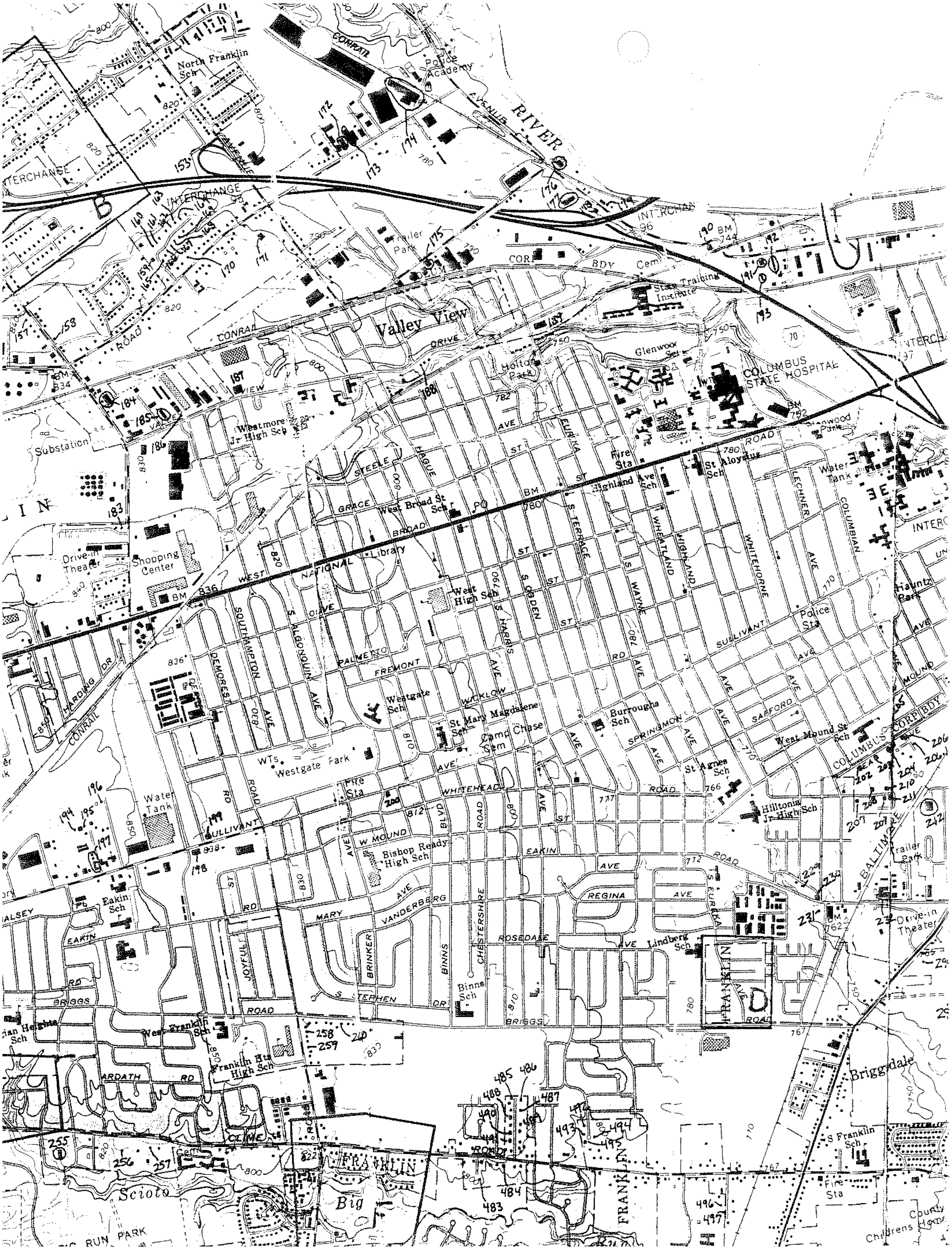
COLUMBUS
NORFOLK AND WESTERN
FRANKLIN PARK
Governors Mansion
Jeffery Park
Wolfe Park
Monument
Monastery
St Charles Seminary
Columbus Sch for Girls
St Albans Ch
City Hall
CAPITAL UNIV
COLLEGE AVE
SHERIDAN
ALUM
Nelson
WESTERN
RHOADS AVE
YMCA
St Anns Hospital
St Anthonys Hospital
Library
St Vincents Orphanage
Pauline Home
Home for the Aged
State Archives
Eastwood Ave Sch
Champion Sch
Maryland Park
Water Tank
Everett Sch
St Dominic Sch
Beatty Park
Monroe Jr High Sch
Felton Sch
Garfield Sch
Armory
State Highway Patrol
Blackburn Playground
Ohio Ave Sch
St Johns Sch
Childrens Hospital
Livingston Park
Kent Sch
Roosevelt Sch
Deshler Sch
Fairwood Ave Sch
Beth Jacob Sch
Heyl Ave Sch
Agudas Achim Ch
Oakwood Ch
Corpus Christi Sch
Livingston Ave Sch
Siebert Sch
St Pauls Sch
Schiller Park
St Marys Sch
Third St Sch
Mohawk Sch
Fulton Sch
St Josephs Academy
Welfare Dept
Holy Cross Sch
Grant Hospital
Union Sta
OHIO STATE PENITENTIARY
Second Ave Sch
Sacred Heart Sch
Lower Scioto Park
CONRAIL
C & O
INTERCHANGE
Playground
FORT HAYES MIL RES
WASHINGTON
CLEVELAND
NATIONAL
BROAD
LIVINGSTON
WHITTIER
KOSSUTH
COLUMBUS
SYCAMORE
JACKSON
MOUND
FULTON
MAIN
FRANKLIN
OHIO
CHAMPION
TAYLOR
MARYLAND
WOODLAND
KELTON
GAULT
WILSON
NEWTON
BOUNDARY

COLUMBUS
Second Ave Sch
Sacred Heart Sch
NORFOLK AND WESTERN
1ST AVE
Playground
Park
GIBBARD
Trevitt Sch
Maryland Park
MARYLAND
Felton Sch
Monroe Jr High Sch
St Dominic Sch
FORT HAYES MIL RES
Goodale Park
PO
Union Sta
St Patricks Sch
OHIO STATE PENITENTIARY
ST VERNON
Garfield Sch
Beatty Park
Champion Sch
St Anthonys Hospital
YMCA
LONG
Library
East High
Eastwood Ave Sch
State Archives
ROAD
FRANKLIN PARK
BROAD
NATIONAL
Fine Arts Gallery
EAST
Wilson Ave Sch
FRANKLIN
Franklin Sch
AVE
RAWLING
BRYDEN
Library
Highway Dept
Welfare Dept
Grant Hospital
TOWN
Temple Israel
Blackburn Playground
St Vincents Orphanage
St Anns Hospital
Home for the Aged
State Highway Patrol
Holy Cross Sch
St Josephs Academy
MAIN
Armory
INTERCHANGE 102 B
Pauline Home
Main St Sch
Holy Rosary Sch
MOUND
Fulton Sch
FULTON
Ohio Ave Sch
Courthouse
Childrens Hospital
Mohawk Sch
LIVINGSTON
Fire Sta
Livingston Park
St Johns Sch
KENT
Kent Sch
GAULT
JACKSON
NEWTON
Third St Sch
Beck St Sch
Livingston Ave Sch
SYCAMORE
St Marys Sch
FOREST
Agudas Sholem
COLUMBUS
Library
KOSSUTH
Oakwood
Roosevelt Sch
WHITTIER
PO
Lower Scioto Park
Siebert Sch
Heyl Ave Sch
SIEBERT
Schiller Park
St Pauls Ch
STEWART
Deshler Sch
Barrett
South High Sch
DESHLER
Corpus Christi Sch
Park
MITHOFF
Kahnon Playground
Gates-Fourth Ch
GATES
St Leo Sch
MOLER
FREBIS
Trailer Park
JENKINS
Mercy Hosp
MOLER
RD
Southwood Sch
MARKISON
PO
Lockbourne Rd Ch
Lincoln Park Sch
Trailer Park
Park
Recreation Center
SMITH
ROAD
WOODROW
Smith Rd Sch
REEB
INNIS
Reeb Ave Sch
Scioto
CONRAIL
C&O
HIGH
SOUTH
PARSONS
WAGER
HEYL
OHIO
CHAMPION
OAKWOOD
STUDER
LOCKBOURNE
KELTON
FAIRWOOD
WILSON
WASHINGTON
CLEVELAND
GRANT
20TH
TAYLOR
NORFOLK
AVENUE



NORFOLK AND WESTERN
Union Sta
Second Ave Sch
Sacred Heart Sch
Doctors Hospital
Everett Jr High Sch
Hubbard Sch
Goodale Park
STREET
AVENUE
First Ave Sch
St Francis Sch
Olentangy Sch
PENNSYLVANIA
Michigan Sch
RIVER
Gowdy Park
OHIO
AND
CONRAIL
C & O
Radio Tower (WBNS)
Radio Tower
COLUMBUS CORP BDY
GOODALE
COPELAND RD
BURR
Stevenson Sch
WEST BDY
GRANDVIEW HEIGHTS
Grandview Park
City Hall
BLVD
MULFORD RD
GRANDVIEW
BROADVIEW
Edison Sch
Library
ELMWOOD
GLENN
LINCOLN
CORP BDY
Filtration Plant
255
256
257
258
258.1
259.1
259.3
260
261


COLUMBUS
Franklinton Cem
McKinley Ave Park
Mt Carmel Hospital
Community House
Sunshine Park
Library
Sterling Jr High Sch
Dana
COLUMBUS STATE SCH
Cem
Mt Calvary Cem
Baseball Park
Central Point Shopping Center
GREENLAWN CEMETERY
Mausoleum
Trailer Park
INTERCHANGE 105
SOUTHVIEW
STIMMEL
Wilson Sch
JACKSON RD
LINNET AVE
HOPKINS AVE
Drive-in Theater
East Franklin Sch
Finland Jr High Sch
Finland Sch
Sewage Disposal
Columbus House
E


North Franklin Sch
CONRAIL
Police Academy
RIVER
AVENUE
INTERCHANGE
Trailer Park
CORP BDY
Cem
State Training Institute
Valley View
DRIVE
CONRAIL
ROAD
VIEW
Holton Park
Glenwood Sch
COLUMBUS STATE HOSPITAL
Glenwood Park
Westmore Jr High Sch
Substation
Fire Sta
St Aloysius Sch
Highland Ave Sch
Water Tank
STEELE
HAGUE
EUREKA
GRACE
West Broad St Sch
PO
BROAD
WEST
NATIONAL
Library
Drive-in Theater
Shopping Center
West High Sch
S HARRIS
S OGDEN
S TERRACE
S WAYNE
WHEATLAND
HIGHLAND
WHITEHORNE
LECHNER
COLUMBIAN
Hauntz Park
Police Sta
SULLIVANT
SOUTHAMPTON
DEMOREST
S ALGONQUIN
PALMETTO
FREMONT
WICKLOW
HARDING DR
CONRAIL
Westgate Sch
St Mary Magdalene Sch
Camp Chase Cem
Burroughs Sch
SPRINGMONT
SAFFORD
West Mound St Sch
MOUND
COLUMBUS CORP BDY
WTs
Westgate Park
St Agnes Sch
Fire Sta
WHITEHEAD
ROAD
Water Tank
SULLIVANT
Hilltonia Jr High Sch
W MOUND
Bishop Ready High Sch
EAKIN
BALTIMORE
Trailer Park
Eakin Sch
MARY
VANDERBERG
REGINA
AVE
Drive-in Theater
HALSEY
EAKIN
ROSEDALE
Lindberg Sch
BRINKER
BINNS
CHESTERSHIRE
JOYFUL
FRANKLIN
BRIGGS
Binns Sch
S STEPHEN DR
ROAD
West Franklin Sch
Franklin Hts High Sch
ARDATH
RD
Briggsdale
CLIME
ROAD
FRANKLIN
S Franklin Sch
Fire Sta
Cem
Scioto
Big
BIG RUN PARK
County Childrens Home

WELL LOG AND DRILLING REPORT

ORIGINAL

179

No 315913

PLEASE USE PENCIL OR TYPEWRITER DO NOT USE INK.

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus 12, Ohio

County Franklin Township Franklin Section of Township

Owner T. Darnell Address Columbus Ohio

Location of property 1863 — McKinley Ave —

CONSTRUCTION DETAILS

Casing diameter 6 Length of casing 26 ft

Type of screen 0 Length of screen 0

Type of pump

Capacity of pump 0

Depth of pump setting 0

Date of completion Nov - 64

BAILING OR PUMPING TEST

Pumping Rate G.P.M. Duration of test 2 — hrs.

Drawdown 0 ft. Date Oct 64

Static level-depth to water 26 — ft.

Quality (clear, cloudy, taste, odor) clear

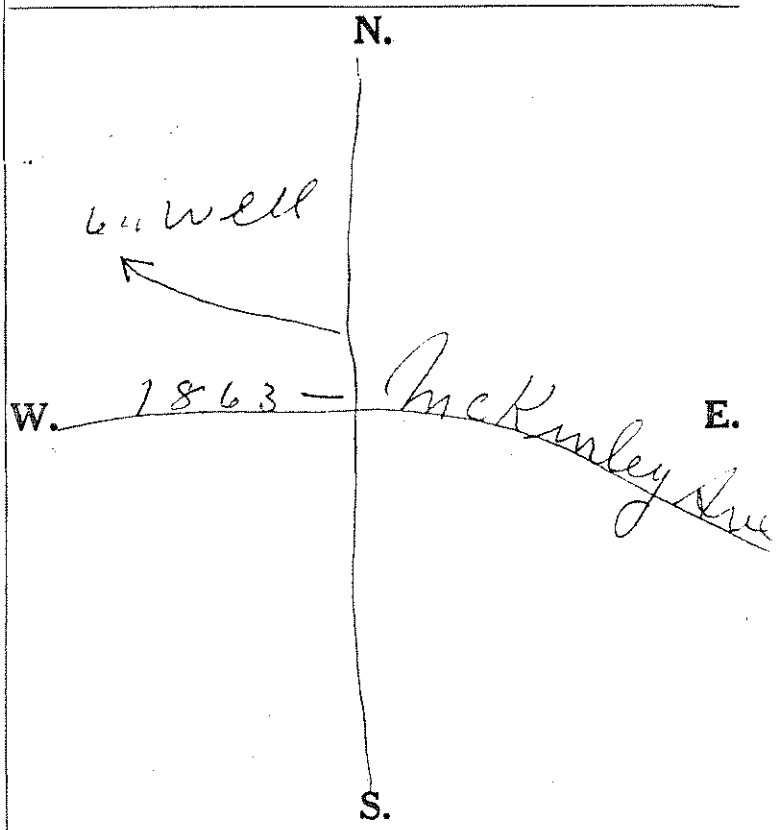
Pump installed by Owner —

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	4 Ft.
Fill	4	18
Clay Yellow	18	26
Red Clay	26	50
Limestone		

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm R. H. Goodwin Date Nov - 1964

Address 4005 E. Livingston Signed R. H. Goodwin

191

WELL LOG AND DRILLING REPORT

509
693017

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1939 Fountain Square Drive
Columbus, Ohio 43224

TYPE OR USE PEN
SELF-TRANSCRIBING
PRESS HARD!

Permit Number _____

COUNTY FRANKLIN TOWNSHIP FRANKLIN SECTION OF TOWNSHIP _____

OWNER TNT HOLLAND MOTOR EXPRESS PROPERTY ADDRESS 1250 EMIG ROAD

LOCATION OF PROPERTY CORNER OF EMIG & HARMON, SOUTH OF STEMMEL

CONSTRUCTION DETAILS

CASING
Casing Diameter 2 in. Length of Casing 10 ft.
Type: ☐ Steel ☐ Galv. ☒ PVC ☐ Other _____
Joints: ☒ Threaded ☐ Welded ☐ Solvent ☐ Other _____

SCREEN
Type (wire wrapped, louvered, etc.) SLOTTED Material PVC
Length 5 ft. Diameter 2 in.
Set between 10 ft. and 15 ft. Slot 10

GROUT
Material BENTONITE PELLETS Volume used 50 LBS.
Method of installation DRY GROUT
Depth: placed from 6 ft. to 8 ft.
☐ Rotary ☐ Cable ☐ Augered ☐ Driven ☐ Dug ☐ Other _____

BAILING OR PUMPING TEST
(specify one by circling)

WELL TEST
Test rate _____ gpm Duration of test _____ hrs.
Drawdown (water level during pumping) _____ ft.
Measured from: ☐ top of casing ☐ ground level ☐ Other _____
Static Level (depth to water) _____ ft. Date: _____
Quality (clear, cloudy, taste, odor) _____

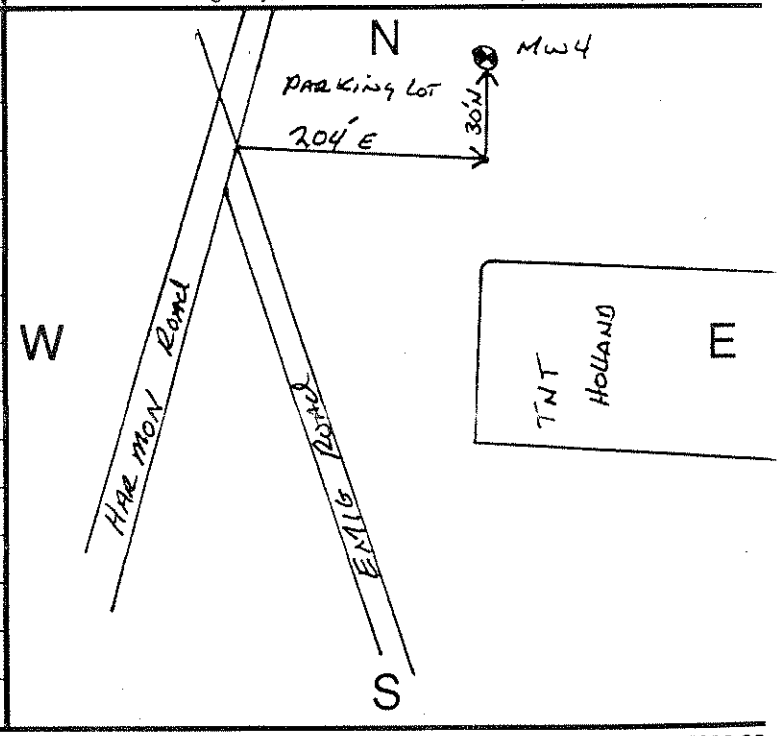
PUMP
Type of pump _____ Capacity _____ gpm
Pump set at _____ ft.
Pump installed by _____
Pitless Device ☐ Adapter ☐ Preassembled unit
Use of Well _____

WELL LOG*

Show color, texture, hardness, and formation: sandstone, shale, limestone, gravel, clay, sand	From	To
SAND AND GRAVEL	0 ft.	1 ft.
BROWN SILTY CLAY	1	4
BROWN SAND & GRAVEL	4	9
BROWN SAND	9	14.0
GRAY GRAVEL & SAND	14.0	15.0

SKETCH SHOWING LOCATION

Show distances well lies from numbered state highways, street intersections, county roads, etc.



* If additional space is needed to complete well log, use next consecutively numbered form.

DNR 7802.88

DRILLING FIRM MASON deVERTEUIL
ADDRESS 6035 HUNTLEY Road
CITY, STATE, ZIP Columbus OH 43229

SIGNED Brian Mott
DATE 11-6-89
ODH REGISTRATION NUMBER _____

Completion of this form is required by 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.

224

ORIGINAL COPY - ODNR, DIVISION OF WATER, 1939 FOUNTAIN SQ. DRIVE, COLS., OHIO 43224

Blue - Customer's Copy Pink - Driller's Copy Green - Local Health Dept. Copy

WELL LOG AND DRILLING REPORT

ORIGINAL

PLEASE USE PENCIL OR TYPEWRITER DO NOT USE INK.

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus 12, Ohio

No 286131

508

County Franklin Township Franklin Section of Township

Owner Rose Chemical Inc. Address C Hlumbus Ohio

Location of property 5-45 S Stimmel Road

CONSTRUCTION DETAILS

Casing diameter 6 in. Length of casing 31

Type of screen Per 7 Pipe Length ~~of screen~~ 2-Ft.

Type of pump

Capacity of pump

Depth of pump setting

Date of completion Oct. 8- 63

BAILING OR PUMPING TEST

Pumping Rate G.P.M. Duration of test hrs.

Drawdown ft. Date Oct 8- 63

Static level-depth to water 12- ft.

Quality (clear, cloudy, taste, odor)

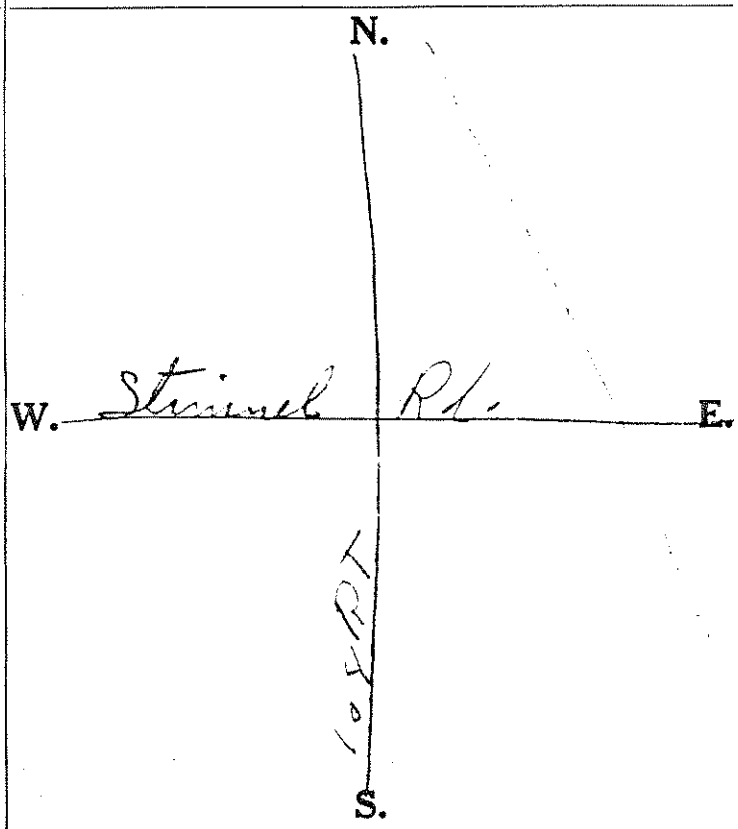
Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	16 Ft.
Clay		
Dry Gravel	16	25
Clean "	25	31

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm R. H. Goodwin

Address 4065 E. Livingston

Date Oct. 8- 1963

Signed R. H. Goodwin

225

WELL LOG AND DRILLING REPORT

ORIGINA

PLEASE USE PENCIL OR TYPEWRITER DO NOT USE INK.

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus 12, Ohio

No 294343

513

County Franklin Township Franklin Section of Township

Owner Falter Packing Co. Address

Location of property General plant area - 384 Greenlawn Ave.

CONSTRUCTION DETAILS

Casing diameter 10" Length of casing 38'
Type of screen Johnson Length of screen 10
Type of pump D.W. Turbine
Capacity of pump 250 G.P.M.
Depth of pump setting 35'
Date of completion January 4 1965

BAILING OR PUMPING TEST

Pumping Rate 350 G.P.M. Duration of test 3 hrs.
Drawdown 10' ft. Date Jan 1965
Static level-depth to water 15 ft.
Quality (clear, cloudy, taste, odor) Clear.
Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
Fill	0 Feet	1 Ft.
Gravel - dry	1	30
Sand & gravel Water Bearing	30	47

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

N.

W. E.

S.

See reverse side for instructions

Drilling Firm D.N. Baker & Son Date 5/18/65
Address Columbus, Ohio Signed W.H. Boger

214

ORIGINAL

WELL LOG AND DRILLING REPORT

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1500 Dublin Road
Columbus, Ohio

513

No. 210765

County Franklin Township Franklin Section of Township

Owner Falter Packing Co. Address 384 Greenlawn Ave

Location of property Above

CONSTRUCTION DETAILS

Casing diameter 10" Length of casing 35

Type of screen Johnson Length of screen 10'

Type of pump

Capacity of pump

Depth of pump setting

Date of completion

BAILING OR PUMPING TEST

Pumping rate G.P.M. Duration of test hrs.

Drawdown ft. Date

Developed capacity Not test pumped

Static level—depth to water 15' ft.

Pump installed by Others

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
Top Soil	0 Feet	2 Ft.
Clay & gravel	2	15
Sand & gravel	15	44

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

N.

W. E.

S.

See reverse side for instructions

Drilling Firm D. M. Baker & Son, Inc Date 11/21/58

Address Columbus Ohio Signed D. M. Baker Sr

214

WELL LOG AND DRILLING REPORT

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1500 Dublin Road
Columbus, Ohio

ORIGINAL

621

No. 189225

County Franklin Township Franklin Section of Township

Owner A. Thurn Address Columbus Ohio

Location of property 969 Curby Ave 969 Kirby

CONSTRUCTION DETAILS

Casing diameter 10 Length of casing 28

Type of screen Perf ~~Length of screen~~ Pipe

Type of pump

Capacity of pump

Depth of pump setting

Date of completion

BAILING OR PUMPING TEST

Pumping rate 25 G.P.M. Duration of test 2 hrs.

Drawdown 20 ft. Date May 8-58

Developed capacity

Static level—depth to water 14 ft.

Pump installed by Owner

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
Muck	0 Feet	3 Ft.
Dry Gravel	3	21
Clean Gravel	21	28

SKETCH SHOWING LOCATION

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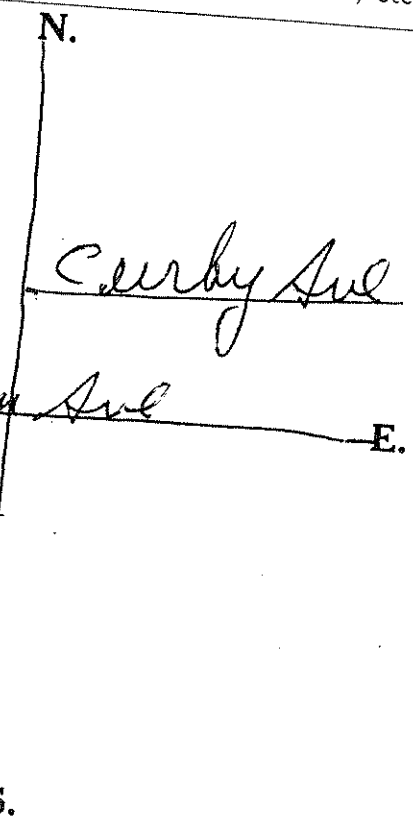

See reverse side for instructions

ling Firm P.H. Goodnum

ress 4006 E. Livingston Date 4-8-58