



EPA WORK ASSIGNMENT NO: 076-2JZZ EPA CONTRACT NO: 68-W8-0110 FOSTER WHEELER ENVIRONMENTAL CORPORATION

ARCS II PROGRAM

FINAL SITE INSPECTION PRIORITIZATION (SIP) PAS HOLBROOK PROPERTY SITE TOWN OF PARISH OSWEGO COUNTY, NEW YORK CERCLIS NO: NYD000511600

**DECEMBER 1995** 

VOLUME I of II

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# FOSTER WHEELER ENVIRONMENTAL CORPORATION

December 5, 1995 ARCS II-95-076-1462

Ms. Catherine Moyik Work Assignment Manager U.S. Environmental Protection Agency 290 Broadway, 18th Floor New York, New York 10007

# SUBJECT: ARCS II PROGRAM - EPA CONTRACT NO. 68-W8-0110 WORK ASSIGNMENT NO. 076-2JZZ-PREREMEDIAL INVESTIGATIONS SITE INSPECTION PRIORITIZATION (SIP) REPORT PAS HOLBROOK PROPERTY SITE

Dear Ms. Moyik:

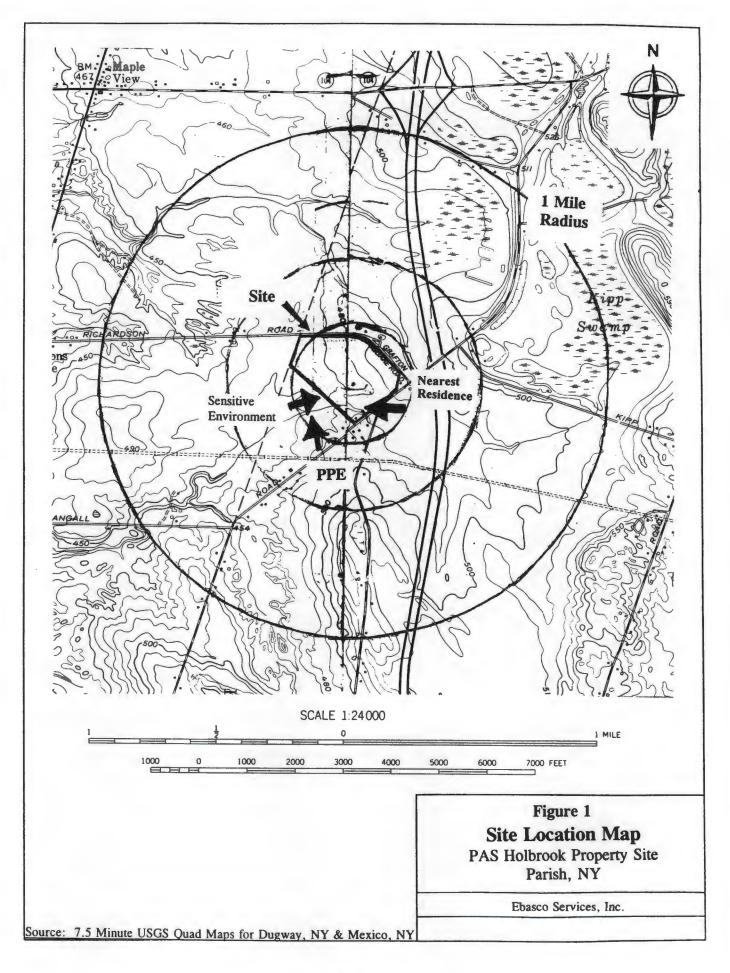
This following is a summary of the Site Inspection Prioritization (SIP) evaluation of the PAS Holbrook Property site, CERCLIS No. NYD000511600, located on Bangall Road in the Town of Parish, Oswego County, New York.

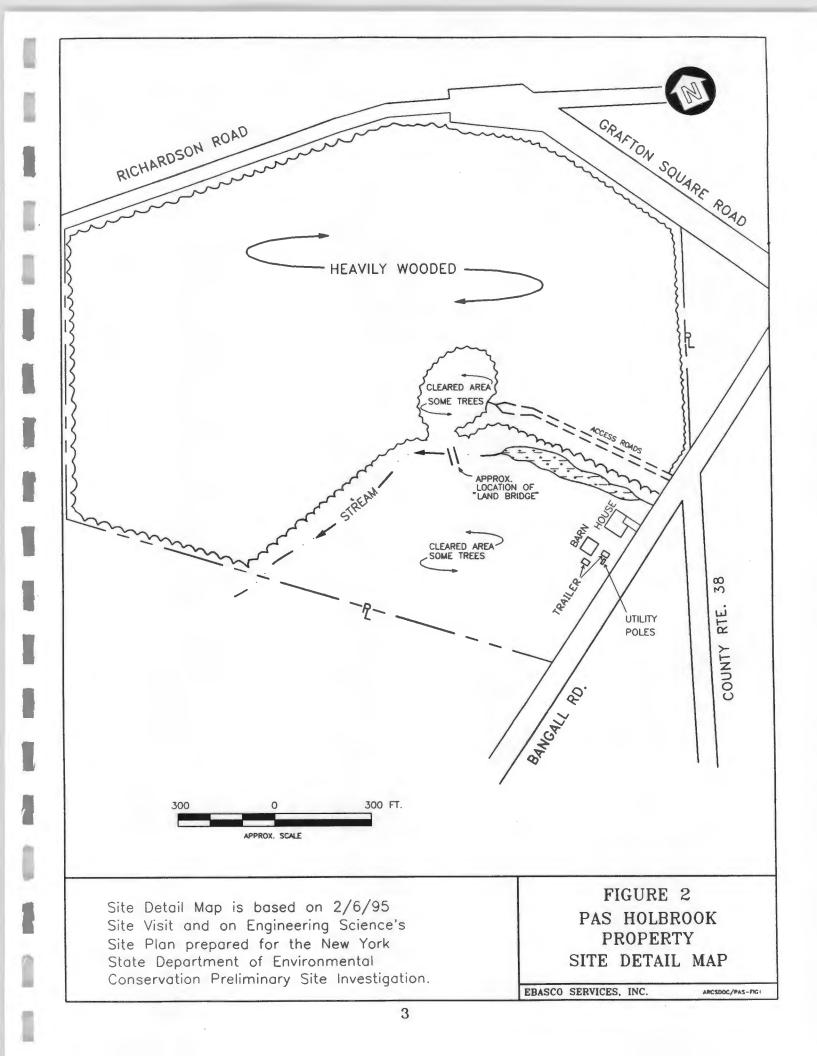
### **General Description and Site History**

The PAS Holbrook Property site is a 48.75 acre residential property bounded by Bangall Road to the southeast, Grafton Square Road to the east, Richardson Road to the north and a residential property to the west and southwest (Ref. 7, p. 3 of 15; Ref. 11, p. 1 of 1). The site location is depicted on Figure 1. A site detail map is presented in Figure 2.

The site currently serves as a residence for the owner, Mr. Gale Holbrook, and his family (Ref. 3, pp. 4 and 5 of 15). A wood frame house is present on-site, fronting Bangall Road (Ref. 3, pp. 5 and 11 of 15). West of the house is a dilapidated wooden barn and two trailers which appear to be unoccupied (Ref. 3, p. 5 of 15). A rack of utility poles is present between the two trailers, adjacent to Bangall Road (Ref. 3, p. 5 of 15). A small tributary, entering the site from under Bangall Road, southeast of the site, exits the site along the western portion of the property (Ref. 12, p. 1 of 1). The majority of the site, north of the unnamed tributary, is densely wooded (Ref. 3, pp. 3 and 6 of 15). A high elevation point occurs north of the unnamed tributary, almost in the center of the site (Ref. 3, pp. 2 and 3 of 15). This area has been cleared of trees and has access roads leading to it from Bangall Road (Ref. 3, p. 3 of 15).

On August 28, 1978, the Parish Town Supervisor lodged a complaint with the Oswego County Department of Health (OCDOH) regarding the Holbrook property (Ref. 24, p. 1 of 1). The complaint alleged the presence of old and new 55-gallon drums stored on the property (Ref. 24, p. 1 of 1).





In April 1979, a site reconnaissance conducted by the New York State Department of Environmental Conservation (NYSDEC), identified the presence of an estimated 500 55-gallon drums stored throughout the site (Ref. 10, p. 1 of 2). At the time of the inspection, there were no identified signs of leakage associated with the drums (Ref. 10, p. 1 of 2). These drums were alleged to be earmarked for disposal at the now defunct Pollution Abatement Services, Inc. (PAS) facility in Oswego, New York (Ref. 10, p. 1 of 2). No evidence exists to document that the drums found on the Holbrook residence were associated with the PAS facility.

In January and February 1980, field investigations were conducted by the USEPA's Emergency Response and Inspection Branch (Ref. 25, p. 1 of 7). Results of the investigations indicated that approximately 500 drums were present on the property (Ref. 25, p. 2 of 7). No samples were collected in conjunction with this investigation (Ref. 25, p. 5 of 7).

In April 1980, the OCDOH sampled six residential wells within the vicinity of the PAS Holbrook Property site (Ref. 6, p. 2 of 3; Ref. 29, pp. 1 and 2 of 115). The samples were analyzed for inorganics, organics and microbial and physical parameters (Ref. 29, pp. 1 and 2 of 115). Benzene was detected in all six samples in concentrations ranging from 2  $\mu$ g/l to 6  $\mu$ g/l (Ref. 29, pp. 1 and 2 of 115).

In May 1980, the OCDOH sampled 16 residential wells (including the six wells previously sampled) within the vicinity of the PAS Holbrook Property site (Ref. 29, pp. 1 and 2 of 115). In general, all samples were analyzed for organic parameters (Ref. 29, pp. 1 and 2 of 115). Samples collected from the residential wells which had not previously been sampled in April 1980 were also submitted for analysis of petroleum products (Ref. 29, pp. 1 and 2 of 115). No organic compounds or petroleum products were detected in these well samples (Ref. 29, pp. 1 and 2 of 115).

In June 1980, the OCDOH sampled eight residential wells within the vicinity of the PAS Holbrook Property site (Ref. 29, pp. 1 and 2 of 115). The sample analyses included organic and physical parameters (Ref. 29, pp. 1 and 2 of 115). No organic compounds were detected; physical parameters did not generally exceed state water standards (Ref. 29, pp. 1 and 2 of 115). In addition to these residential well samples, a sample was collected from a well located at the rear of the barn on the Holbrook property (Ref. 29, pp. 112, 113, and 115 of 115). This sample was analyzed for physical parameters; the results indicated an exceedence of state water standards for color (Ref. 29, pp. 112 and 115 of 115).

On June 17, 1980, a site reconnaissance was conducted by the NYSDEC and the New York State Department of Health (NYSDOH) (Ref. 4, p. 1 of 2). The results of this reconnaissance indicated that approximately 400 55-gallon drums were at 12 different locations on the Holbrook property (Ref. 4, p. 1 of 2). It was approximated that 60% of the drums were empty (Ref. 4, p. 1 of 2).

On June 24, 1980, a site reconnaissance was conducted by the NYSDEC and the NYSDOH, the US Environmental Protection Agency (USEPA), the US Geological Survey, and the State University of New York at Oswego (Ref. 5, p. 1 of 1). The results of this reconnaissance indicated that the majority of the drums present were empty and displayed "evidence of having been pierced by a pick ax" (Ref. 5, p. 1 of 1). Of the drums which appeared intact, most were

full or partially full and appeared to contain a semi-solid material (Ref. 5, p. 1 of 1). A "phenol-like" odor was noted to be associated with the drums (Ref. 7, p. 3 of 15). A few of the intact drums contained a liquid material (Ref. 5, p. 1 of 1).

In July 1980, groundwater samples were collected from the Altmar Parish Williamstown High School and from the well at the rear of the barn on the Holbrook property (Ref. 29, pp. 108 through 111, and 113 of 115). The samples collected from the high school were analyzed for organic compounds; no organics were detected (Ref. 29, pp. 108 through 110 of 115). The sample from the Holbrook property was analyzed for inorganics (Ref. 29, pp. 111 and 114 of 115). The results indicated the presence of iron at 0.55 mg/l and manganese at 0.89 mg/l, exceeding the state water standards (Ref. 29, pp. 111 and 114 of 115).

From late November to early December 1980, the OCDOH oversaw the removal of the drums (Ref. 6, p. 1 of 3). A substance described as a "resin material" and discolored surficial soil alleged by the OCDOH to be associated with the drums were also removed (Ref. 6, pp. 1 and 2 of 3). The presence of surficial and subsurface soil contamination was not assessed. The materials contained by the drums and the associated excavated soil were not analyzed (Ref. 6, p. 2 of 3). All material removed from the site was sent to the SCA facility in Model City, New York for disposal (Ref. 6, pp. 2 and 3 of 3). At the time of disposal activities, the SCA facility had RCRA interim status (Ref. 23, p. 1 of 1).

In May 1984, the NUS Corporation completed a Preliminary Assessment (PA) at the PAS Holbrook Property site on behalf of the USEPA (Ref. 26, p. 1 of 7). The site was assigned a low priority for further action (Ref. 26, p. 1 of 7). The report indicated that there was a low potential for groundwater contamination (Ref. 26, p. 2 of 7). A recommendation of no further action was made for the site (Ref. 26, p. 1 of 7).

In December 1987, the Ruffos residential well, located near the site on Grafton Square Road, was sampled by the OCDOH after the resident had complained of a chemical odor associated with the well water (Ref. 6, p. 3 of 3; Ref. 29, pp. 23 through 34 of 115). The sample was analyzed for organic compounds (Ref. 29, pp. 25 through 30 of 115). The compounds detected included chloroform at 1  $\mu$ g/l, benzene at 10  $\mu$ g/l, toluene at 23  $\mu$ g/l, p-xylene at 5  $\mu$ g/l, m-xylene at 11  $\mu$ g/l, o-xylene at 20  $\mu$ g/l, 1,3,5-trimethylbenzene at 2  $\mu$ g/l, 1,2,4-trimethylbenzene at 3  $\mu$ g/l and naphthalene at 2  $\mu$ g/l (Ref. 29, pp. 25 through 30 of 115).

In January 1988, the Ruffos residential well was sampled by the OCDOH (Ref. 29, pp. 23 through 26 of 115). The sample was analyzed for organic compounds (Ref. 29, pp. 23 through 26 of 115). No organics were detected (Ref. 29, pp. 23 through 26 of 115).

During June 1988, the NYSDEC collected three surficial soil samples at the property (Ref. 8, p. 1 of 6). Samples were to have been analyzed for volatile organic and base/neutral compounds and metals (Ref. 8, p. 1 of 6). Analytical data from this sampling event are not available (Ref. 15, p. 1 of 1). Two of these samples, S-1 and S-2, were collected from a location that had reportedly served as a storage area for 150 of the drums that were removed in 1980 (Ref. 7, pp. 9 and 14 of 15; Ref. 8, p. 2 of 6). It has been reported that the analysis from these two samples did not indicate the presence of organic contamination (Ref. 7, p. 3 of 15). The third soil sample, S-3, was collected from an area adjacent to Bangall Road that reportedly served as a

drum storage area and is still being utilized as a storage area for utility poles (Ref. 3, p. 4 of 15; Ref. 7, pp. 9 and 14 of 15; Ref. 8, p. 2 of 6). At the time of sample collection, a creosote odor was noted and a positive response was obtained from the air monitoring instrumentation at this sampling location (Ref. 8, p. 4 of 6). Analytical data from this sample indicated the presence of 13 organic contaminants, particularly polycyclic aromatic hydrocarbons (PAHs); reportedly, fluoranthene and pyrene were the compounds with the highest concentrations (2.7 ppm) (Ref. 7, p. 3 of 15). Benzo(a)pyrene, chrysene, diethylphthalate, and pentachlorophenol were also reportedly detected in this sample at unknown concentrations (Ref. 7, p. 4 of 15).

In December 1992, Engineering Science, Inc., the NYSDEC and the OCDOH conducted a site reconnaissance (Ref. 7, p. 4 of 15). Eleven 55-gallon drums were noted to be present: five empty drums, two intact drums containing material and four intact, partially buried drums (Ref. 7, p. 4 of 15). The words "PHENO..., Flammable Liquid" were legible on one of the intact drum labels (Ref. 7, p. 4 of 15). Labels on the two intact drums with contents read: "General Electric, Riverview Plant Schenectady, Insulating Materials Department (Ref. 7, pp. 1 and 4 of 15). There is no additional information regarding these drums.

In February 1995, Ebasco Services Incorporated conducted a site reconnaissance. Only two drums were noted to be present. Both were rusted and empty, and had no discernible labels (Ref. 3, pp. 2 and 3 of 15).

On May 25, 1995, the NYSDEC conducted a site visit to the PAS Holbrook Property site (Ref. 15, p. 1 of 1). A few drums were observed on the site with the "General Electric" label on them (Ref. 15, p. 1 of 1). Air monitoring in the area of the drums was conducted using a photoionization detector (PID). PID readings around these drums were above background levels (Ref. 15, p. 1 of 1).

## **Evaluation of Existing Information**

Investigations conducted for the PAS Holbrook Property site and historical site information were utilized in evaluating the site.

No evidence has been identified to document that hazardous substances have ever been used, stored or present at the PAS Holbrook Property site. The drum and soil material removed from the site in 1980 was not sampled and analyzed. No evidence such as manifests or historical records are known to be associated with any of the drums found on the property. There is no documentation to indicate that the drums contained hazardous constituents.

The 1988 NYSDEC surficial soil sampling indicates the presence of PAHs, in particular fluoranthene and pyrene, in sample S-3. This sample was collected from a former drum storage area potentially influenced by the asphalt cover, a typical source of PAHs, on Bangall Road and by utility poles likely to contain creosote.

Several drums containing material are currently present on the site. PID responses were noted around the drums. Although the contents of these drums have not been identified, a partial label on one of the drums indicates that the drum may contain a phenolic compound.

There is no supporting documentation for the 1988 NYSDEC sampling event. There is no information to document the contents of the drums. Therefore, the NYSDEC sampling data and the results of the various site visits were used to characterize the potential sources at the site for screening purposes, but not support observed releases to the various pathways.

# Hazard Assessment

Updated and additional information and data were collected to further evaluate the site to determine the need for CERCLA remedial action. This information and data included reports on past investigations, nearby populations, 4-mile radius populations and the potable water supply, and wetland and sensitive environments information.

## Source Description

Two potential sources were identified at the PAS Holbrook Property site. The first source is contaminated soil in the former drum storage area where sample S-3 was collected. Analysis of the soil from this area indicates the presence of benzo(a)pyrene at an unknown concentration, pentachlorophenol at an unknown concentration, fluoranthene at a concentration of 2.7 ppm, and pyrene at a concentration of 2.7 ppm (Ref. 7, pp. 3 and 4 of 15). For screening purposes, the area of the contaminated soil source has been assigned a value of one square foot since only a single soil sample (S-3) was used to characterize the source.

The second source used to screen the site is the drums still present on the site. A partial label on one of the intact drums containing material indicates that the drum may contain phenolic compounds (Ref. 7, p. 4 of 15). For evaluation purposes, phenol and pentachlorophenol are the hazardous substances assigned to this source. The volume of the two intact drums with contents has been assigned a value of 110 gallons.

# **Groundwater Pathway**

Analytical data from the residential well sampling events as well as data from the on-site well at the PAS Holbrook Property site indicate the absence of organic contaminants likely to be related to site activities. This pathway is evaluated on a potential-to-release basis.

The aquifer of concern for the PAS Holbrook Property site is the Lacustrine sand aquifer (Ref. 16, pp. 8 through 20 of 26). Surface material at the site appears to be comprised of lake sediment, particularly Lacustrine sand (Ref. 16, pp. 8, 16, and 18 of 26). It is estimated that this sand unit is approximately 10 feet thick (Ref. 16, p. 18 of 26). This unit has a conductivity value of  $1 \times 10^4$  cm/sec (Ref. 1, p. 1 of 1). Depth to groundwater is estimated to be five feet below grade (Ref. 16, p. 18 of 26). Regional groundwater flow direction in the unconsolidated deposits roughly parallels the land surface, toward the northwest (Ref. 11, p. 1 of 1; Ref. 16, p. 20 of 26).

Underlying the Lacustrine sand is the Lodgement till aquifer (Ref. 16, pp. 13 and 18 of 26). This unit extends from approximately 10 to 28 feet below grade (Ref. 16, p. 18 of 26). The Lodgement till is comprised of a mix of clay, silt, sand and pebble to boulder sized material; it is typically dense and compacted (Ref. 16, p. 13 of 26). It has a conductivity value of 1 x  $10^{-6}$  cm/sec (Ref. 1, p. 1 of 1). Underlying the Lodgement till unit is the Medina (aka Albion)

bedrock formation (Ref. 16, pp. 10, 11, and 18 of 26). The bedrock unit occurs at approximately 28 feet below grade and is comprised of red shale, siltstone and sandstone (Ref. 16, pp. 10, 11, and 18 of 26). It has a conductivity value of  $1 \times 10^{-8}$  cm/sec (Ref. 1, p. 1 of 1). Regional groundwater flow direction in bedrock is toward Lake Ontario, toward the northwest (Ref. 11, p. 1 of 1; Ref. 16, p. 20 of 26). The Lodgement till and the Medina bedrock units do not generally yield water readily therefore, groundwater targets were not assigned to these formations and are not included in the evaluation (Ref. 16, pp. 2 and 20 of 26).

The population within the groundwater pathway target distance limit (TDL) relies heavily on groundwater resources for potable water supplies (Ref. 18, p. 1 of 1). There are no municipal water supplies within the groundwater pathway TDL (Ref. 18, p. 1 of 1). Approximately all of the 4,420 people living within four miles of the site receive their potable water from private supply wells as follows: 0 to 0.25 mile, 17; 0.25 mile to 0.5 mile, 54; 0.5 mile to 1 mile, 226; 1 to 2 miles, 900; 2 to 3 miles, 1,429; 3 to 4 miles, 1,794 (Ref. 9, pp. 7 and 8 of 8; 18, p. 1 of 1). There are no wellhead protection areas identified for the groundwater pathway (Ref. 22, p. 1 of 1).

#### Surface Water Pathway

Surface water samples were not collected in conjunction with any investigations conducted at the site. Therefore, this pathway is evaluated on a potential-to-release basis.

Based on topographic trends, the unnamed tributary which transects the site receives surface water runoff from the entire site (Ref. 3, p. 3 of 15; Ref. 11, p. 1 of 1). Water in this tributary flows in a northwestern direction (Ref. 12, p. 1 of 1).

The probable point of entry (PPE) for the surface water pathway is located approximately 850 feet from the contaminated soil source (Ref. 12, p. 1 of 1). From the PPE, surface water will flow approximately 4.1 miles in the unnamed tributary to the junction with Sage Creek (Ref. 12, p. 1 of 1). An average flow rate of 9 cfs was assigned to the unnamed tributary segment (Ref. 1, p. 1 of 1). The second segment of the surface water pathway TDL extends along the TDL from 4.1 miles to 13.7 miles and occurs along Sage Creek from the junction of the unnamed tributary to the point where Sage Creek discharges into Lake Ontario (Ref. 12, p. 1 of 1). An average flow rate of 50 cfs was assigned to this segment (Ref. 1, p. 1 of 1). Flow rates were not assigned to the Lake Ontario in-line segments as they were evaluated based upon depth (Ref. 1, p. 1 of 1). From approximately 13.7 miles to 14.6 miles along the surface water TDL, the depth of Lake Ontario is less than 20 feet (Ref. 12, p. 1 of 1). The depth of Lake Ontario is less than 20 feet (Ref. 12, p. 1 of 1). The depth of Lake Ontario is less than 20 feet from approximately 14.6 miles to the end of the TDL (Ref. 12, p. 1 of 1).

Fisheries are located along the Sage Creek and Lake Ontario portions of the surface water pathway (Ref. 17, pp. 1 through 3 of 3; Ref. 19, p. 3 of 3). Lake Ontario is stocked with fish (Ref. 19, p. 3 of 3). The fish production values of these segments are not documented.

Lake Ontario is classified as Class A fresh surface water (Ref. 27, p. 4 of 4). The mouth of Sage Creek and associated Lake Ontario shoreline is classified as a coastal zone management area (Ref. 20, p. 3 of 3). The Black Tern, a state protected species, is known to utilize habitat

in this area (Ref. 28, p. 2 of 4). These areas have also been designated as being significant coastal fish and wildlife habitats by the state of New York (Ref. 28, p. 2 of 4). There are approximately 8.08 miles of wetland frontage along the surface water pathway TDL (Ref. 12, p. 1 of 1).

The 2-year, 24-hour rainfall for the area of the PAS Holbrook Property site is 2.5 inches (Ref. 21, p. 2 of 2). The site does not lie within a designated floodplain (Ref. 14, p. 1 of 1). There are no surface water intakes present in the surface water pathway TDL (Ref. 18, p. 1 of 1).

#### Soil Exposure Pathway

The 1988 NYSDEC soil sampling event indicates the presence of benzo(a)pyrene at an unknown concentration, pentachlorophenol at an unknown concentration, fluoranthene at a concentration of 2.7 ppm, and pyrene at a concentration of 2.7 ppm in the vicinity of a former drum storage area adjacent to Bangall Road (Ref. 7, pp. 3 and 4 of 15). These data were used to evaluate the soil exposure pathway based on an area of observed contamination.

There are 3 people residing on-site (Ref. 3, p. 2 of 15). There are no schools or day-care centers within 200 feet of the potential area of observed contamination (Ref. 11, p. 1 of 1). There is a wetland on-site; however, the area of observed contamination does not occur within the boundaries of the wetland (Ref. 13, p. 1 of 1). Census bureau derived data indicates a one mile radius resident population of 297 distributed as follows: 0 to 0.25 mile, 17; 0.25 to 0.5 mile, 54; 0.5 to 1 mile, 226 (Ref. 9, pp. 7 and 8 of 8).

#### Air Pathway

During the 1988 NYSDEC sampling event, a positive response was obtained from the air monitoring instrumentation at sampling location S-3 (Ref. 8, p. 4 of 6). During the 1995 NYSDEC site visit, air monitoring was conducted in the area of the intact drums. Instrument responses around these drums were above background levels (Ref. 15, p. 1 of 1). However, there were no air samples collected for laboratory analysis during previous investigations for the PAS Holbrook Property site. Therefore, the air pathway is being evaluated on a potential-to-release basis.

The nearest regularly occupied building is the Holbrook residence located on-site (Ref. 3, p. 5 of 15). Census Bureau derived information indicates a total population of approximately 4,420 within the 4-mile radius as follows: 0 to 0.25 mile, 17; 0.25 to 0.5 mile, 54; 0.5 to 1 mile, 226; 1 to 2 miles, 900; 2 to 3 miles, 1,429; 3 to 4 miles, 1,794 (Ref. 9, pp. 7 and 8 of 8).

The presence of wetlands was evaluated for the air pathway TDL as follows: on-site, 1 acre; 0 to 0.25 mile, 9.2 acres; 0.25 to 0.5 mile, 43 acres; 0.5 to 1 mile, 240 acres; 1 to 2 miles, 1,017 acres; 2 to 3 miles, 859 acres; 3 to 4 miles, 1,256 acres (Ref. 13, p. 1 of 1).

#### Summary

In 1980, approximately 500 55-gallon drums, a substance described as a "resin material" and discolored surficial soil alleged by the OCDOH to be associated with the drums were removed from the PAS Holbrook Property site. The materials contained by the drums and the associated excavated soil were not assessed for the presence of hazardous substances. Subsequent sampling of the surficial soil at the site indicated the presence of PAHs in an area where drums were once stored and where utility poles are currently stored. Subsequent site visits have indicated the presence of intact drums containing an unknown material.

Groundwater within the 4-mile radius of the site is used as the sole source for potable water supplies. Approximately 4,420 people rely on groundwater from private wells for a potable water source. Existing analytical data indicates that residential wells within the vicinity of the site do not contain possible site-related contaminants.

Surface water runoff from the site enters an unnamed tributary which transects the site. The surface water pathway includes portions of Sage Creek and Lake Ontario, both of which are fisheries. Sensitive environment targets for the surface water pathway include a coastal zone management area, habitat for the state protected Black Tern, and approximately 8.08 miles of wetland frontage. There are no surface water intakes located within the surface water TDL.

The site is utilized as a residence for an estimated three people. There are no schools or daycare centers within 200 feet of the potential area of observed contamination. There is a wetland on-site, however, the potential area of observed contamination does not occur within the boundaries of the wetland.

There is no evidence to indicate that a release to the air pathway has occurred. The nearest regularly occupied building is located on-site. There is a total population of approximately 4,420 within the four mile radius. There are approximately 3,425.2 acres of wetlands within the air pathway TDL.

Prepared by:

Michael Charting/EA

Michele Christina Task Leader **Ebasco Services Incorporated** 

Reviewed by:

Edgar J. Aguado Site Manager Ebasco Services Incorporated

Approved by:

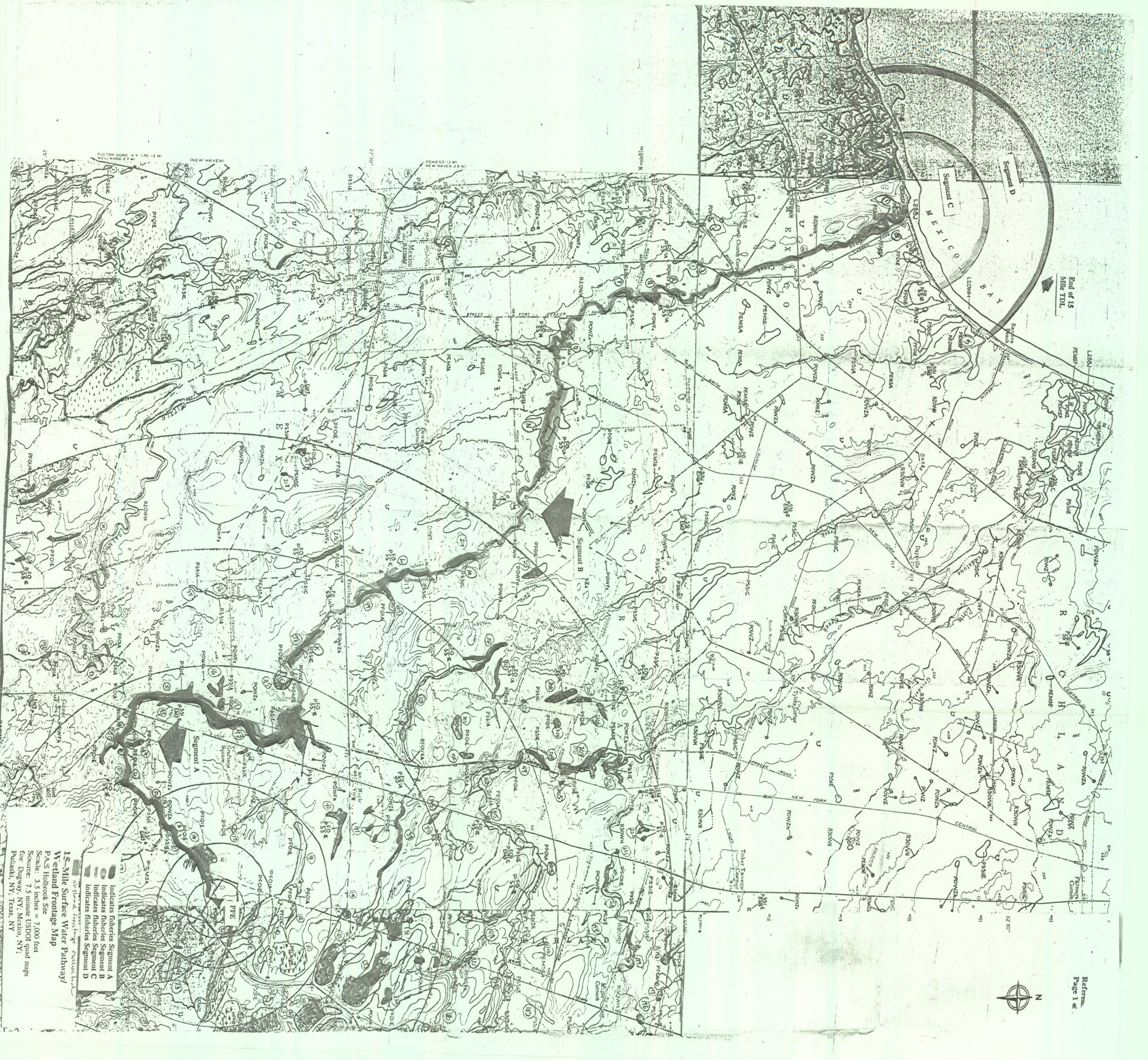
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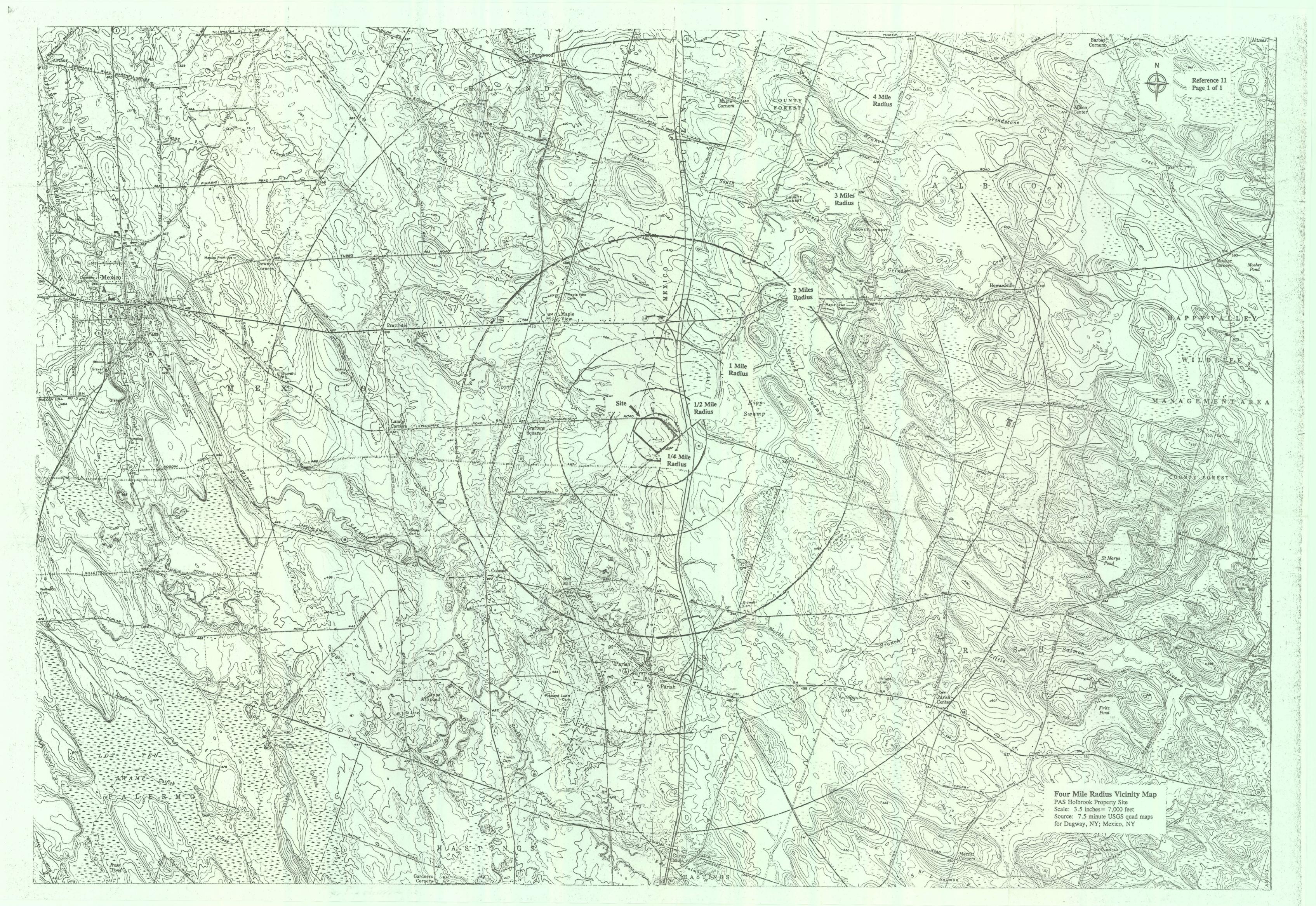
Dev Sachdev, Ph.D., P.E. **ARCS II Program Manager** Ebasco Services Incorporated

# REFERENCES

- 1. US Environmental Protection Agency (USEPA), <u>Hazardous Ranking System (HRS)</u>, Final Rule, 40 CFR 300, Volume 55, No. 241, 12/14/90.
- 2. USEPA, <u>Superfund Chemical Data Matrix (SCDM)</u>, EPA 9360.4-18, 7/94, as incorporated in the <u>PREscore Software</u>, Version 3.0, Publication 9450.2200, 8/94.
- 3. Ebasco Services, Inc. (Ebasco), Logbook entry for Site Reconnaissance, PAS Holbrook Property Site, 2/6/95.
- 4. Correspondence from Joseph V. Barry, Area Public Health Director, State of New York Department of Health, to Rupert Collins, Commissioner of Health Services, Oswego County Health Department, June 30, 1980.
- 5. Memo from Donald J. Casey, Rochester Program Support Branch, USEPA, to Distribution List, July 2, 1980.
- 6. Telephone log. Conversation between Evan Walsh, Oswego County Department of Health, and Michele Christina, Ebasco, January 1, 1995.
- 7. Correspondence from Engineering Science, Inc., to New York State Department of Environmental Conservation (NYSDEC), Holbrook Property Site, February 22, 1993.
- 8. NYSDEC, Logbook entry for sampling incident, Holbrook Property, June 1988, Holbrook Property, June 15, 1988.
- 9. Frost Associates, CENTRACTS Report, based on 1990 Census Bureau STF-A and STF-3A files, PAS Holbrook Property Site, February 8, 1995.
- 10. Hazardous Waste Site Dossier, March 17, 1980.
- 11. Ebasco, Four-Mile Radius Vicinity Map, PAS Holbrook Property Site, US Department of the Interior (USDOI), 7.5 Minute US Geological Survey (USGS) Quad Maps for Dugway, NY and Mexico, NY.
- 12. Ebasco, 15-Mile Surface Water Pathway/Wetland Frontage Map, PAS Holbrook Property Site, USDOI, 7.5 Minute USGS Quad Maps for Dugway, NY, Mexico, NY, Pulaski, NY, and Texas, NY.
- 13. Ebasco, Four-Mile Radius Air Pathway Map, PAS Holbrook Property Site, USDOI, 7.5 Minute USGS Quad Maps for Dugway, NY and Mexico, NY.
- 14. Telephone log. Conversations between Oswego County Planners Office, Federal Emergency Management Agency and Michele Christina, Ebasco, 12/13/94.

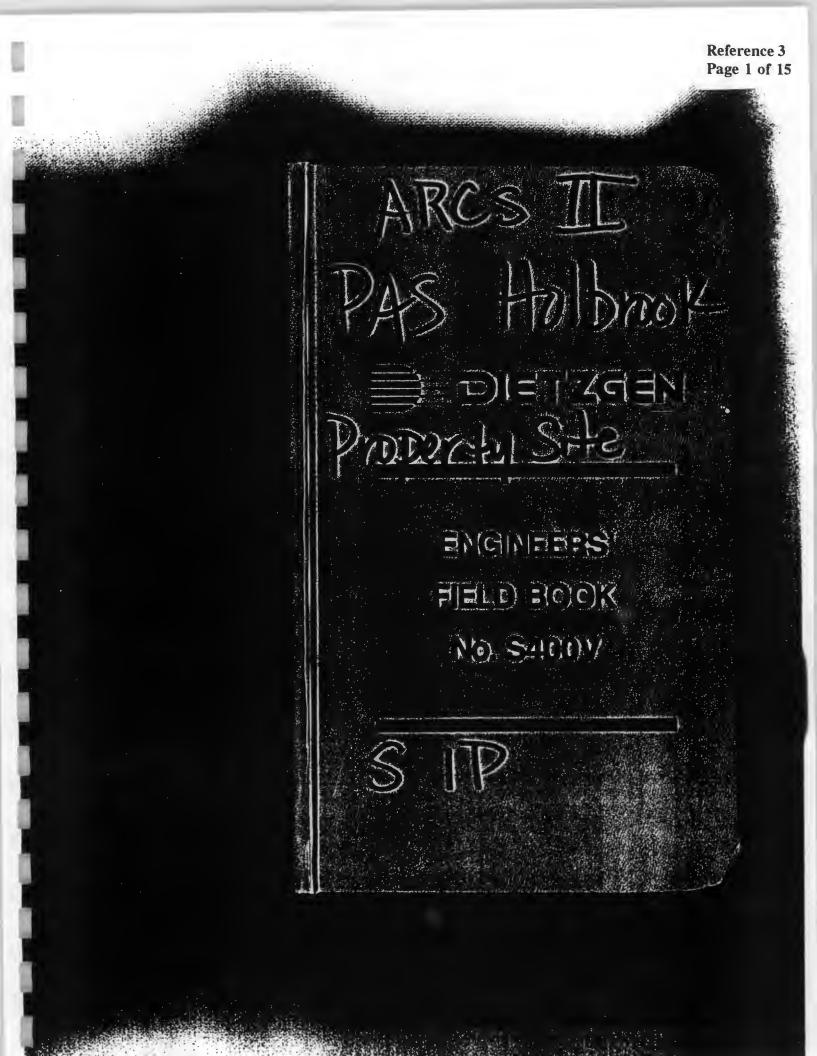








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3 Monday 6 Febagt 1	1520 Return to car the warn up is to See if we give but currence's video carrence to work to Halbrook not present	Accident uppy trule prior to 11 inside Can.	Noted the following Observations: - Appendix Stream runs from the eastern side of \$1 38, under-	hurth Bankull cirke 7 continues east to the North east of house.	Thrue Stream Sylow Concered. Drake thrue Snow i ice Cover OU Stream where it is in wooded area North of honse. Unable to Discen	a definative flow direction. Based in topography I at Stream flow appars to be east to west as noted in pravious site reput.	- Majority of puperty appears to be mature wood cane. A Birch Prevenues in low Ming aleas) 2/4/95 3n. fusit

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PAS Holbrook	More observations. - clearing high point and has several trees randomly located this out it is some herbedous voyetation.	- Land "Brilige" which separations sitesim has a grant ceren where snow was dependent	- Sunounding are ob high point is dense materie woodland	- Barbert wire terre apiciel in Engineering Science map wess ricked to be down Map appears accurate	Return towneds house Prute No 18 is prushed drum between	thru in several bouchins 7 has 100 discernable markings.	- Yourd arrest around house express to he trickles, swingsets & other dridans tays. 2/4/95 M. (h.S.M.d.	
		Attempt to measure open hgint area where the 2150 drumed	x. boundaries)utur	2	higher	Sind the second	The military	la shink shink

-

Reference 3 Page 5 of 15 vob nog 3 The fullowing measurements were taken of the hone of the property. Measurements were taken via tope measure extended along Bangale Ld: Felephone T .99 2+1 171 522 south Barri 2/6/95 michalla Clistm PAS Halbrowk - A second travelar 15 located west ob the back Duryth west to the active traver. This travier does wit - Der minde tracics when wither verit adjoint In Front of barn, fronting Banguel Rd, is a defavorabeted frequent. No one appears to accupy - Ball is duise dated, structured in the grity is buistin who will nut enter the inspection. no Sterm Seweds where noted at the frank of the property almy Bangall Rd. undule the lacture weelvedies ritin D Monday 2/a/95 Michalle 1 in property. 2/0/195 trailer. , Marian

) Monday le FEB95 - B mailbox for property west of Holbrooks seys "Bouchard"

- Site appears to be drill rig a casselle. Over head wives all present along Bangall Road.
- 1711 A. Braccia Z M. Christma off site. At time Of departure, Mr. Holbrook had not returned to house. No evidence of Onyone being present in house.

1715 Conduct Window Survey of North / Northeastern portion of property. Area was not tacgeted in <u>eacher</u> removal finvestigative activities. Drove along Grafton Sol Richardsunkd

Area densely wooded. Snow cover indicates that perimeter of wooded area has not be recently disturbed.

2/0/95 m. Chsm

PAS HOLBROOK

Atleast two areas were observed that had been clear cut, possibly leading to a "pathway". Inspection & one of these areas indicated a pathway entering the Holbrook property. Trail was not followed. Pathway not quite width of car. Observed trees along area, No sign of garbage thru snow cover.

NOTE: Hà S Driefing has anducted prior to conducting site visit. Briefing was done in car while in transit to site.

2/4/95 michele chemic

Page 6 of 1

(10)

Site Name: PAS Holbrook Property Site Photographer: M. Christina

Location: Parish, New York Date: 2/6/95

Photos 1-3: Trouble loading film. Site Photographs begin with Photo 4.



Site Name: PAS Holbrook Property Site Photographer: M. Christina Location: Parish, New York Date: 2/6/95

Photo 4: Photos 4-9 are panorama from north to southwest from the center of property. Photo depicts cleared, open area in center of property where drums were reportedly stored. Shot facing north.

Reference 3 Page 8 of 15



Site Name: PAS Holbrook Property Site Photographer: M. Christina Location: Parish, New York Date: 2/6/95

Photo 5: Photos 4-9 are panorama from north to southwest from the center of property. Photo depicts cleared, open area in center of property where drums were reportedly stored. Shot facing northeast.



Site Name: PAS Holbrook Property Site Photographer: M. Christina Location: Parish, New York Date: 2/6/95

Photo 6: Photos 4-9 are panorama from north to southwest from the center of property. Photo depicts cleared, open area in center of property where drums were reportedly stored. Shot facing east.



Site Name: PAS Holbrook Property Site Photographer: M. Christina

Location: Parish, New York Date: 2/6/95

Photo 7: Photos 4-9 are panorama from north to southwest from the center of property. Photo depicts cleared, open area in center of property where drums were reportedly stored. Shot facing southeast.



Site Name: PAS Holbrook Property Site Photographer: M. Christina Location: Parish, New York Date: 2/6/95

Photo 8: Photos 4-9 are panorama from north to southwest from the center of property. Photo depicts cleared, open area in center of property where drums were reportedly stored. Shot facing south.

Reference 3 Page 9 of 15

Reference 3 Page 10 of 15



Site Name: PAS Holbrook Property Site Photographer: M. Christina Location: Parish, New York Date: 2/6/95

Photo 9: Photos 4-9 are panorama from north to southwest from the center of property. Photo depicts cleared, open area in center of property where drums were reportedly stored. "Shot facing southwest. Right side of photo depicts "Land Bridge" which crosses stream. Stream & associated "wetland" are located in depression."



Site Name: PAS Holbrook Property Site Photographer: M. Christina Location: Parish, New York Date: 2/6/95

Photo 10: Photo depicts stream & associated wetland adjacent to residence. Photo taken from land bridge, facing southeast.

Reference 3 Page 11 of 15

Site Name: PAS Holbrook Property Site Photographer: M. Christina

Location: Parish, New York Date: 2/6/95

Photo 11: Photo accidentially taken in car. Not included in report.



Site Name: PAS Holbrook Property Site Photographer: M. Christina Location: Parish, New York Date: 2/6/95

Photo 12: Photo of 55 gallon drum behind residence. No discernable markings. Drum weathered & has no bung. Appears to be empty.



Reference 3 Page 12 of 15

Site Name: PAS Holbrook Property Site Photographer: M. Christina Location: Parish, New York Date: 2/6/95

Photo 13: Photos 13-16 are panorama from the south to the northeast taken from the open area behind the residence. Facing south, the photo depicts the rear of the Holbrook residence & garage.



Site Name: PAS Holbrook Property Site Photographer: M. Christina Location: Parish, New York Date: 2/6/95

Photo 14: Photos 13-16 are panorama from the south to the northeast taken from the open area behind the residence. Facing southeast, the photo depicts the low lying wetland & stream adjacent to the residence.



Site Name: PAS Holbrook Property Site Photographer: M. Christina

Location: Parish, New York Date: 2/6/95

Photo 15: Photos 13-16 are panorama from the south to the northeast taken from the open area behind the residence. Facing east/southeast, the photo depicts the low lying wetland & stream adjacent to the residence.



Site Name: PAS Holbrook Property Site Photographer: M. Christina

Location: Parish, New York Date: 2/6/95

Photo 16: Photos 13-16 are panorama from the south to the northeast taken from the open area behind the residence. Facing east, photo depicts the low lying wetland & stream adjacent to the residence.



Reference 3 Page 14 of 15

Site Name: PAS Holbrook Property Site Photographer: M. Christina Location: Parish, New York Date: 2/6/95

Photo 17: Photo shot facing south/southeast. Depicts area of stream/wetland. Similar to Photo 10.

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29	Size Residential Well Sampling Data, April 1980 through					

Reference 1

**Keference** 1 Page 1 of 1

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12-14-90 Vol. 55





Friday December 14, 1990

Book 2

**United States** Government Printing Office SUPERINTENDENT OF DOCUMENTS Washington, DC 20402

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SECOND CLASS NEWSPAPER

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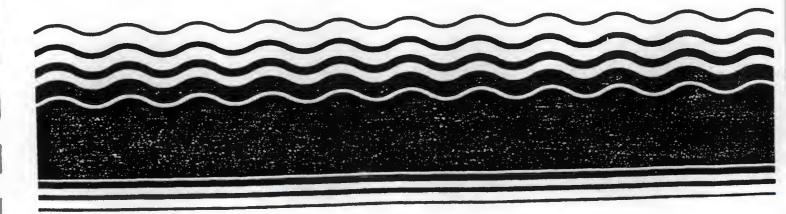
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Emergency Response (5204G) Reference 2 Page 1 of 1

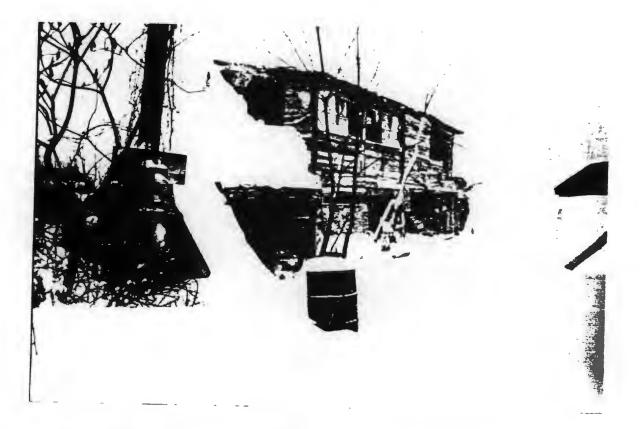
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# Superfund Chemical Data Matrix



Reference 3 Page 15 of 15



Site Name: PAS Holbrook Property Site Photographer: M. Christina

Location: Parish, New York Date: 2/6/95

Photo 18: Photo depicts rusted drum located between residence & barn. Drum is rusted through in several areas. No discernable lables are on drum. Shot facing west. Delapidated barn is in background.

# STATE OF NEW YOK. DEPARTMENT OF HEALTH OFFICE OF PUBLIC

351 SOUTH WARREN STREET

SYRACUSE, N.Y. 13202

HEALTH

Reference 4 Page 1 of 2

DAVID AXELROD, M.D. Commissioner GLENN E. HAUGHIE, M.D. **Director of Public Health** 

SYRACUSE AREA OFFICE

JOSEPH V. BARRY Area Public Health Director

June 30, 1980

Rupert Collins Comm. of Health Services Oswego County Health Dept. 70 Bunner Street Oswego, New Vork 13126

Dear Comm. Collins:

On Tuesday, June 17, 1980 staff members of the New York State Department of Health and Environmental Conservation conducted a site inspection of the Holbrook farm on Bangall Road, Oswego County. This site is one of the PAS sites identified in the May 1979 report entitled "Toxic Substances in New York's Environment" prepared jointly by the two Departments.

Reconnaissance of the Holbrook PAS site indicated that approximately 400 55-gallon drums were located at 12 specific locations on the property. It was estimated that 60 percent of the drums were empty and that others contained rainwater, semi-solid sludges, contaminated filter media or unidentified materials. Some drums were full with the bungs rusted closed, preventing inspection.

It is this Department's finding that the site is a public health nuisance. The nature of the site makes it attractive to playing children who could be exposed to toxic materials. We recommend that as such, the filled and/or deteriorated barrels be moved to one area of the site and that a fence be erected to prevent access by residents and other individuals. We have been informed by the Town Supervisor of the Town of Parish that the Town intends to remove the empty barrels from the site by virtue of a violation of a local zoning ordinance.

In order to determine any impact of chemicals at the site on groundwater quality, the Department of Environmental Conservation, the United States Geological Survey and this Department will collect groundwater samples and soil cores at this site. Mr. Holbrook has given the Department of Environmental Conservation his approval to collect these samples.

In an effort to resolve this nuisance at the Holbrook site, please prepare a working plan and estimated schedule of activities to result in the segregation of these barrels, including appropriate barriers to prevent access to that area. The proposed plan should Comm. Collins

June 30, 1980

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be submitted to me within ten (10) working days. Upon approval, it is hoped that the remedial work will commence quickly so that the public health nuisance may be abated.

- 2 -

Our Department is prepared to assist you in this matter. Please let me know what assistance is requested.

Very truly yours,

oseph V. Baun

Joseph V. Barry Arga Public Health Director

cc: Dr. Ramer Mr. James Wright

¥.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Reference 5 Page 1 of T

July 2, 1980

Holbrook Property

Donald J. Casey ( 4 Rochester Program Support Branch, 2 SA

See Below

SUBJECT:

FROM:

TO:

On June 24, 1980, I visited the Holbrook Property located on Bangall Road, Town of Parish, Oswego County, New York with representatives of the NYS Department of Environmental Conservation, NYS Department of Health, U.S. Geological Survey, SUNY at Oswego, and Mr. Holbrook, the site's owner.

With the exception of a few barrels which contain semi-solid material, all of the barrels viewed from the air on June 25, 1980, located on the northern side of the property, are empty. Most of the barrels showed evidence of having been pierced by a pickax.

About 15 of the barrels stored, generally speaking, to the front of the property (Bangall Road) are full or partially full. Of these, 3-4 contain liquid material; the rest appear to contain semi-solid material.

More information will follow.

Addressees:

 Richard T. Dewling, Deputy Regional Administrator, Region II <u>Kenneth Stoller</u>, Deputy Director, S & A Division, Region II <u>Richard D. Spea</u>r, Chief, S & M Branch, S & A Div. Region II John Frisco, Chief, Hazardous Waste Site Investigation Program, Region II



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08.

CE CONTROL

EPA Form 1320-6 (Rev. 3-76)

EBASCO SERVICES INCORPORATED Reference 6 Page 1 of 3 PROJECT: P.AS Holbiook TELECON NOTE TIME: 13:45 PROJECT NO. 8310.0074 DATE: 1/5/95 DISTRIBUTION: TT (2. PHONE: (315) 349-3564-BETWEEN: E. van Walsh OF: Courgo Dott AND: M. Christma Rei Drum disposal at Sile DISCUSSION: Not in. Left Message Called 1/6/95 @ 1030. Not In. Left message, Called 1/9/94 C 0950. Not in. Left message, Called @ 10:23 on 1/10/95. Spoke with him later that day. He ovusaw drum removal. Provided me withe following in formation; U DRUMS Neve removed from Site by DEC 1980. (2) Also removed from site at this time was obviously Containmated Soil (Soil which contained chemical Odors, was discolored, etc) & resin material which had leaked from do also was on-Site (poss. dumped on-site), Soil was excavated to varying depths depending on observed Contamination Concertion depites ranged from ACTION ITEMS: EBASCO

	INCORPORATED	Page Zof 3
PROJECT: 25. PAS Helbrack		TELECON NOTE
PROJECT NO. 8310, OC76	DATE:	TIME:
DISTRIBUTION: File		Reference 6 Page 2 of 3
BETWEEN Evan Walsh	OF: Oswiego DOH	
ND: M. Christma		
DISCUSSION: Aevenal Inches to S	six inches.	Contain moted so 1
à resin material was pla	ced in 30	) overback doing
à disposed of off-site.		
(3) No confirmatory post-	-ex soil s	sampling up
Cenducted. Only associate.	d Samolina	of which he is
aware involved sample ce	ellection for	m nearby resident
ial potable wells. Residen	trad usel	ampline 428 (mdus
ed before à after dr	um /wo ste	removal ante: Has
Same wells may not ha	ve been sa	moled for both
rounds of sampling). No	significan	t contamination
Was friend to be presen	t in sam	Ala Samala dal
Should be in DEC. regio	mal files.	if not, he inquisi
able to find it in his fi	les,	Proved No.
(A) Removal operations of	courred a	t 3 locations on
property. They did do site	Sketches	assac. W/ removed
It we can't locate then	n, he may h	De able to assist
us with our site reconn	n. Call lat	er to assess his
- Augla Dality		
5) Removal/dispose contracto	r was SC	A Chemical
Services of Model City, De	ew York. (n	ear Buffalo T. Are
igen not likely to be RU	RA permited	TSD facility as
CTION ITEMS:		

EBASCO

EBASCO SERV	TICE INCORPORATED	Page $3$ of $3$
PROJECT: PAS HOLDOOK		TELECON NOTE
PROJECT NO. 8310,0074	DATE:	TIME:
DISTRIBUTION: File	I	Reference 6 Page 3 of 3
BETWEEN EVEN Walth	OF: Oswego Doti	PHONE:
AND: M. Christma	· · · · · · · · · · · · · · · · · · ·	
DISCUSSION: Removal Was cond	ucted Pre-RCR	A. At the same time
of PAS Holbrook remova		
picked up is disposed of :.	Powerlinesite (=	1/2-1/4 mile down Road,
1 50 yds from highway; Su	spected PAS/Hol	brook wast dumping
- Site ]; Liebott Property;	and Orwell	ladder
56 Approx 4-6 years after		
chemical odor assoc, ul resi		
Benzene did show up in		
to property owner changi way adjacent to well h	ead,	se, etc on dirt drive-
7) PAS facility no longer ope		ne of the first facilities
to be shut down in this		
Capped, leachate Collectio	n system, etc).	Located in Oswage L
EDOH has atlas of info	regarding Coun	ty waste sites, will
allow us to drop in during	OUR 23 JAN -	file search z obtain
a copy of PAS Holbrook.	Site listing. 4	Vill fax directions. Cal
9: Warned us that wende	w wat Atlas	(24th Jan, tod time bla
9: Warned us that wende	ell Holbrook (4	ather, now deceased)
Gale Holbrook (Son-curren	towner), are	Very hostile i have be
Known to approach and inve	stigators on their	property with guns.
May even resind permis	sion to conduct	site visit.
ACTION ITEMS:	1	
(10 Kabies problem, Ben	sare!	
	-	
EBASCO		

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#### ENGINEERING-SCIENCE, INC.

290 Elwood Davis Road. Suite 312 • Liverpool. New York 13088 • (315) 451-9560 • Fax: (315) 451-9570

February 22, 1993

N.Y.S. Dept. of Environmental Conservation 50 Wolf Road, Room 218 Albany, NY 12233-7010 Attn: Ms. Cynthia A. Whitfield

RE: Holbrook Property Site (NYSDEC Site No. 738011) Preliminary Site Assessments Work Assignment No. D002478-11 State Superfund Standby Contract

#### Dear Cynthia:

As we discussed during our phone conversation last December 23, Engineering-Science, Inc. (ES), regrettably, will have to drop the Holbrook Property Site from our PSA Work Assignment (No. D002478-11) because a conflict-of-interest was identified during the site visit on December 22, 1992. During the visit, 11 drums were observed near the Holbrook house in the southern corner of the property, including two intact drums with contents. Labels on the two intact drums read: "General Electric, Riverview Plant Schenectady, Insulating Materials Department". ES is currently under contract with General Electric.

Though ES will not be able to continue the PSA investigation of the site, we believe that the investigation of the site can be continued, either by NYSDEC personnel or by assignment to another consulting firm, with little disruption because enough information has been developed to prepare a sampling plan. Immediately prior to the December 22 site visit, the information required to prepare a Site Work Plan for PSA Task 3 was nearly complete; the only critical unknowns were the precise locations of drum storage areas which were identified in records gathered during Task 1 (after the December 1991 site inspection). However, the storage area locations were determined during the site visit with the assistance of Mr. Evan Walsh of the Oswego County Public Health Department. Mr. Walsh personally observed drums on-site during the 1980 drum removal action at the site, and showed the ES inspection team where drums were stored on the site and recommended sampling locations for PSA Task 3.

PARSONS

Our recommendations for the PSA Task 3 investigation of the Holbrook Property Site are attached. The recommendations are based on the Task 1 Report, comments on the report received from NYSDEC, and observations made during the site visit.

Sincerely,

# ENGINEERING-SCIENCE, INC.

David Chaffin Project Manager

cc: File SY230.08(#4)

2

Reference 7 Page 3 of 15

### RECOMMENDATIONS FOR PSA TASK 3 HOLBROOK PROPERTY SITE NYSDEC SITE NO. 738011 OSWEGO COUNTY, NEW YORK

#### SITE BACKGROUND

The Holbrook Property Site is located on an occupied 48.75-acre residential property in Parish Township, Oswego County, New York (Figure 1). The site is owned by Mr. Gale Holbrook, and is under investigation because hazardous waste may have been released to the site from 55-gallon drums stored at the site during the years 1977 through 1980.

In June 1980, personnel from the New York State Department of Health (NYSDOH) and New York State Department of Environmental Conservation (NYSDEC) conducted an inspection at the site, and observed approximately 440 55-gallon drums at twelve locations on-site (Figure 2). Sixty percent of the drums were empty, but appeared to have been pierced with a sharp instrument. The bungs of some drums were rusted shut, preventing any assessment of contents. The remaining drums contained semi-solid sludges, rainwater, and contaminated filter material which had an odor described as "phenolic-like". A summary of the distribution and contents of drums observed on-site during the inspection is presented in Table 1. Locations correspond to those shown on Figure 2. "Sludge-like" material, covering several square feet at most, was observed on the ground in Location 1. Relatively strong odors were also noted at the location. Discolored water (estimated to be 10-20 gallons) was observed in a pit in Location 3.

The drums were removed from the site during November and December 1980 under the supervision of the Oswego County Public Health Department (OCPHD). The materials contained by the drums were not sampled and analyzed to determine their composition. Approximately 10 drums of contaminated soil were removed from the ground surface in Location 1. The contaminated soil was not sampled and analyzed.

NYSDEC collected three near-surface soil samples from the Holbrook Property site during June 1988 (Figure 2). Samples 1 and 2 were collected from the Location 1. Sample 3 was collected beneath a utility pole rack adjacent to Bangall Road. With the exception of two compounds which were detected in laboratory blanks, organic contaminants were not reported in Samples 1 and 2. Analyzed metals were within naturally occurring ranges. Thirteen organic compounds were detected in Sample 3. Most of the compounds were PAHs. Fluoranthene and pyrene were the compounds with the highest concentrations; both at 2.7 ppm.

Engineering-Science, Inc. (ES) began a Preliminary Site Assessment (PSA) investigation of the site in November 1991. The PSA Task 1 investigation, a compilation of site records, background information, and on-site observations, was completed in April 1992 (ES, 1992). The information gathered during Task 1 was insufficient for determining whether hazardous waste, as defined under Part 371, is

present at the site and whether hazardous waste at the site might pose a significant threat, as defined by Part 375, to public health or the environment. A surface investigation including sampling of soil, surface water, and sediments was recommended.

During a follow-up site visit in December 1992, ES, NYSDEC, and OCDPH observed 11 drums on-site: four 55-gallon drums (two empty, two intact with contents) at the northeast corner of the utility pole rack; four, intact, partially buried 55-gallon drums inside the barn; and three empty 55-gallon drums in an open area southwest of the barn (Figure 2). A partial label on one of the intact drums observed near the utility pole rack read: "PHENO..., Flammable Liquid", suggesting the drums contents include phenol or phenolic compounds.. No other drums were labeled. ES was not able to determine whether the drums observed on-site were present during the 1980 removal, or more recently transported to the site.

The Holbrook Property site is currently listed on the state Registry of Inactive Hazardous Waste Disposal Sites with the Class 4 designation: Site properly closed - requires continued management.

#### **Presence of Hazardous Waste**

Available data indicate that some of the drums stored at the site in 1980 contained hazardous wastes, but are insufficient for determining whether hazardous waste is now present at the site. Several of the compounds detected in a sample collected by NYSDEC personnel in June 1988 (Sample 3), are listed hazardous wastes: benzo(a)pyrene (USEPA Hazardous Waste No. U022), bis(2-ethylhexyl)phthalate (U028), chrysene (U050), diethylphthalate (U088), fluoranthene (U120), and pentachlorophenol (F027). The presence of these compounds does not establish the presence of hazardous waste at the site, however, because they cannot be attributed to discarded chemical products as required by Part 371.4(d)(1), or, for the case of pentachlorophenol, unused formulations as required by Part 371.4(b). In particular, the presence of these compounds cannot be attributed to the drums stored at the site. Other potential sources of the detected compounds include the utility poles stored on a rack adjacent to Bangall Road at the time of the sampling (poles were also observed on the rack during the 1991 and 1992 site visits for the PSA investigation), pavement on Bangall Road, and natural occurrence.

#### **Presence of Significant Threat**

Available data are insufficient for determining whether hazardous waste at the site might pose a significant threat to public health or the environment. Surface water samples were not collected from the stream crossing the site during previous investigations. Borings have not been drilled at the site, and monitoring wells have not been installed at the site. Off-site groundwater samples collected from wells located within 1 mile of the site by NYSDOH in 1980 did not indicate that contaminants are being released to groundwater at the site.

#### SCOPE OF WORK

The scope of work recommended for the PSA Task 3 investigation of the Holbrook Property Site is presented in this subsection. The scope of work is intended to generate data that can be used to satisfy the primary purpose of the PSA investigation, i.e., assign one of the following three site classifications provided by Article 27, Title 13 of the Environmental Conservation Law to the site:

- Class 2 Site poses significant threat to public health or environment action required;
- Class 3 Site does not present a significant threat to public health or environment action may be deferred; or
- · Class D Site delisted from Registry of Inactive Hazardous Waste Sites.

The scope of work should include the following six tasks: (1) Environmental Sample Collection, (2) Environmental Sample Analysis, (3) Data Validation, (4) Sample Location Survey, (5) Sample Results Report Preparation, and (6) Task 3 Report Preparation (Table 2).

### **Environmental Sample Collection**

Surface water, sediment, soil, and waste samples should be collected for the PSA Task 3 investigation. The surface soil and waste samples should be collected to determine whether hazardous waste is present on-site. The surface water and sediment samples should be collected to determine whether potential hazardous wastes on-site might be releasing contaminants to downstream surface waters and sediments, posing a significant threat to public health or the environment. Recommended sample locations are shown in Figure 3. Analytical parameters are described below and summarized in Table 3.

Procedures for equipment decontamination, sample collection, sample shipping and custody, and analysis of samples should conform, at a minimum, to those presented in the ES PSA project Quality Assurance Plan (QAP) dated August 1992. The QAP also specifies the number and type of quality control (QC) samples which should be included in the sample program.

#### **Shallow Soils**

Two shallow (0 to 0.5 feet below ground surface) soil samples should be collected from the site to determine background conditions at the site (Sample SS-1 in Figure 3), and to determine if hazardous waste is present in the barn and to screen the soils in the barn for contamination (SS-2). The soil samples should be analyzed for Target Compound List (TCL) volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides and PCBs, and Target Analyte List (TAL) metals and cyanide.

#### Subsurface Soils

Fifteen subsurface soil samples (Samples B-1 to B-15 in Figure 3) should be collected from locations where potentially hazardous materials were stored, leaked, or discharged on-site. We recommend that samples be obtained from depths ranging from

0 to 4 feet below ground surface using a split-spoon sampler or a combination of 2.25inch, inner-diameter, hollow-stem augers mounted on a portable drill rig (e.g., a Minuteman rig) and a split-spoon sampler.

Subsurface samples should be visually inspected, logged, and screened with a photoionization detector (PID). Samples which are visually stained or discolored and/or which have the highest PID readings should be selected for lab analysis. If contamination is noted across several depth intervals, the samples may be composited for analysis. The samples should be analyzed for TCL VOCs, SVOCs, pesticides and PCBs, and TAL metals and cyanide.

# Surface Water and Sediment Samples

Four surface water and four sediment samples (Samples SW/SED-1 to SW/SED-4 in Figure 3) should be collected from the unnamed stream which flows from east to west across the site. The purpose of the samples is to determine whether hazardous wastes were disposed in those locations, and to determine whether contaminants are being discharged from hazardous waste on-site to downstream waters and sediments. The surface water and sediment samples should be analyzed for TCL VOCs, SVOCs, pesticides and PCBs, and TAL metals and cyanide.

#### Drum Samples

Four waste (liquid, solid, or sludge) samples (designated Samples W-1 to W-4 in Table 2) should be collected from the two intact drums with contents located near the utility pole rack, and from two drums inside the barn located west of the Holbrook house (Figure 3) to determine whether hazardous waste is present in the drums, and to screen the waste for contaminants.

The waste samples should be collected from the drums after they have been overpacked and staged in a containment area. Suitable sampling equipment includes a glass drum thief, a stainless steel beaker, or a stainless steel trowel. Based on the information gathered during the PSA Task 1, LEVEL B health and safety protection will be required for the drum overpacking and sampling activities. Air monitoring should be performed using a PID and an explosimeter.

The analytical program should be determined at the time of sampling, based on the observed contents and air monitoring results, and could include analysis for one or more of the following fractions: TCL VOCs, SVOCs, PCBs, TAL metals and cyanide, and hazardous waste characteristics: Extraction Procedure Toxicity (EP Tox), ignitability, and corrosivity. Examples of typical analytical suites that could be selected at the time of sampling include:

Suspected Contents	Analytical Suite	
Solvents	VOCs, ignitability, corrosivity	
Other Liquids	VOCs, SVOCs, PCBs, ignitability, corrosivity, TAL metals and cyanide	
Metallic Solids	EP Tox metals, TAL metals	
Other Solids	EP Tox, ignitability	

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#### Environmental Sample Analysis

Environmental samples should be analyzed by a New York State-certified laboratory, in accordance with the NYSDEC protocols specified in the QAP. Analytical methods and the contract required quantification limits (CRQLs) are identified in Section B6 of the QAP. NYSDEC Methods ASP 91-1, ASP 91-2, and ASP 91-3 are recommended for analysis of organic compounds. Various NYSDEC CLP-M methods may be selected by the laboratory for analysis of inorganics; however, the selected methods should meet the CRQLs.

#### **Data Validation**

Analytical data generated by the laboratory should be independently validated following USEPA guidelines adapted to the QC criteria in the NYSDEC ASP, as described in Section B7 of the QAP.

#### Sample Location Survey

A sample location survey should be conducted by a New York State-licensed land surveyor so that samples can be recollected or additional nearby samples can be collected, if deemed necessary in the future. The surveyor should locate the position and elevation of the surface water/sediment sampling locations, and the positions of soil samples and any structures or features which are pertinent to the investigation (e.g., ditches, streams, drums, disposal areas, structures).

Vertical control should be established to the nearest 0.01 foot at each surface water/sediment sampling point. Elevations should be determined relative to a regional, local, or project-specific datum point. Horizontal control for the sample points should be obtained by ties (location and distance) relative to one another and to the specified datum point. A U.S. Geological Survey benchmark should be used if practical.

A site plan should be prepared showing surveyed sample locations and significant features, approximate (unsurveyed) locations of property lines obtained from tax maps, and approximate locations of significant features, if not surveyed. The site plan should also include a legend identifying sampled media, names of property owners, a north arrow, a scale, and a title block.

#### Sample Results Report Preparation

A Sample Results Report consisting of a cover letter and summary tables should be prepared. The summary tables should show validated concentrations of analytes detected in environmental samples collected during PSA Task 3 with comparison to appropriate New York State environmental standards or guidelines.

#### **PSA Task 3 Report Preparation**

A Task 3 Report presenting the results of the surface field investigation should be prepared. A tentative outline is provided in Table 4. The report should describe the field activities conducted during the Task 3 investigation, present validated analytical results for environmental samples collected during the investigation, update background information gathered during PSA Task 1, present any new background information generated during the PSA Task 3 investigation, provide an assessment of the information gathered during the investigation, and provide recommendations for the

reclassification of the site or additional work at the site. The assessment should be focused on a determination of the presence of hazardous waste at the site as defined by Part 371 regulations, and whether hazardous waste, if present, poses a significant threat to public health or the environment. If the data indicate that the site might pose a significant threat to groundwater users, the Task 3 Report should include a recommendation to conduct a survey to identify groundwater users within one-quarter mile of the site.

During preparation of the PSA Task 3 Report, a preliminary evaluation of whether the site can be nominated for the USEPA's National Priorities List (NPL) should be made with the data gathered during the surface investigation. The preliminary evaluation may be limited to preliminary estimates of Hazard Ranking System (HRS) scores using the system published in the Federal Register on July 16, 1982. If the preliminary estimates indicate that the site might be added to the NPL, preliminary HRS scores should be calculated using a version of the HRS selected by NYSDEC to support the nomination.

If sufficient data are obtained to reclassify or delist the site, the PSA Task 3 Report should include a recommendation that the PSA investigation proceed to PSA Tasks 5 and 6 (Draft and Final PSA Report). If the data generated during PSA Task 3 are insufficient for classifying or delisting the site, the PSA Task 3 Report should include a recommendation to prepare work plans for PSA Task 4 (Subsurface Investigation) to obtain sufficient data to classify the site.

#### REFERENCES

ES, 1992. Task One Report, Holbrook Property Site, dated April 1992. Engineering-Science, Inc. Liverpool, New York.

Reference 7 Page 9 of 15

# TABLE 1

# 55-GALLON DRUM INVENTORY HOLBROOK PROPERTY SITE OSWEGO COUNTY, NEW YORK

Drum Location	Drum Quantity	Comment
1	150	Evidence of spillage.
2	50 ·	
3	10	Rusted drums in standing water.
4	60	
5	40	
6	12	Scattered Drums.
7	15	- · ·
8	13	•
9	20	
10	30	
11 .	15	
12	25	

Reference 7 Page 10 of 15

## **TABLE 2**

# TASK DESCRIPTIONS HOLBROOK PROPERTY SITE **OSWEGO COUNTY, NEW YORK**

TASK	DESCRIPTION	
Sample Collection	Collect 2 shallow soil samples, 15 subsurface soil samples, 4 surface water and sediment samples, and 4 waste samples from the locations shown in Figure 3.	
Sample Analysis	Laboratory analysis of samples as specified in Table 3.	
Data Validation	Independent validation of laboratory data.	
Sample Location Survey	Survey of sample locations by a New York State-licensed surveyor. In addition, elevations should be surveyed for the surface water and sediment sample locations.	
Sample Results Report Preparation	Letter report with summary of environmental sample results.	
PSA Task 3 Report Preparation	Report supporting recommendations to reclassify or delist the site, or prepare a work plan for PSA Task 4.	

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# TABLE 3

# SAMPLE LOCATIONS SUMMARY HOLBROOK PROPERTY SITE OSWEGO COUNTY, NEW YORK

Sample Designation	Analytical Parameters	Rationale
Shallow Soil Sam	ples	
SS-1 to SS-2	Full TCL-TAL	Determine whether hazardous waste is present in soils on-site. Screen for contaminants.
Subsurface Soil S	amples	· · · ·
B-1 to B-15	Full TCL-TAL	Determine whether hazardous waste is present in soils on-site. Screen for contaminants.
Surface Water/Se	ediment Samples	
SW/SED-1 to SW/SED-4	Full TCL-TAL	Screen downstream surface water and sediments for contaminants potentially released from hazardous waste on-site.
Waste Samples		
W-1 to W-4	VOCs, SVOCs, PCBs, TAL Metals and Cyanide, Waste Characteristics	Determine whether drums contain hazardous waste.

Full TCL-TAL = TCL VOCs, SVOCs, Pesticides/PCBs, TAL Metals and cyanide. Waste Characteristics = EP Toxicity, ignitability, corrosivity.

Reference 7 Page 12 of 15

## TABLE 4 TASK 3 REPORT OUTLINE HOLBROOK PROPERTY SITE OSWEGO COUNTY, NEW YORK

#### SECTION 1 - EXECUTIVE SUMMARY

- 1.1 Summary of Task 3 Results
- 1.2 Presence of Hazardous Waste
- 1.3 Presence of Significant Threat
- 1.4 Recommended Classification and Action

#### **SECTION 2 - INTRODUCTION**

- 2.1 PSA Investigation
- 2.1 PSA Task 3 Objective
- 2.3 Site Background
- 2.4 Task 3 Report Organization

#### **SECTION 3 - SCOPE OF WORK**

- 3.1 Introduction
- 3.2 Environmental Sample Collection
- 3.3 Environmental Sample Analysis
- 3.4 Data Validation
- 3.5 Sample Location Survey

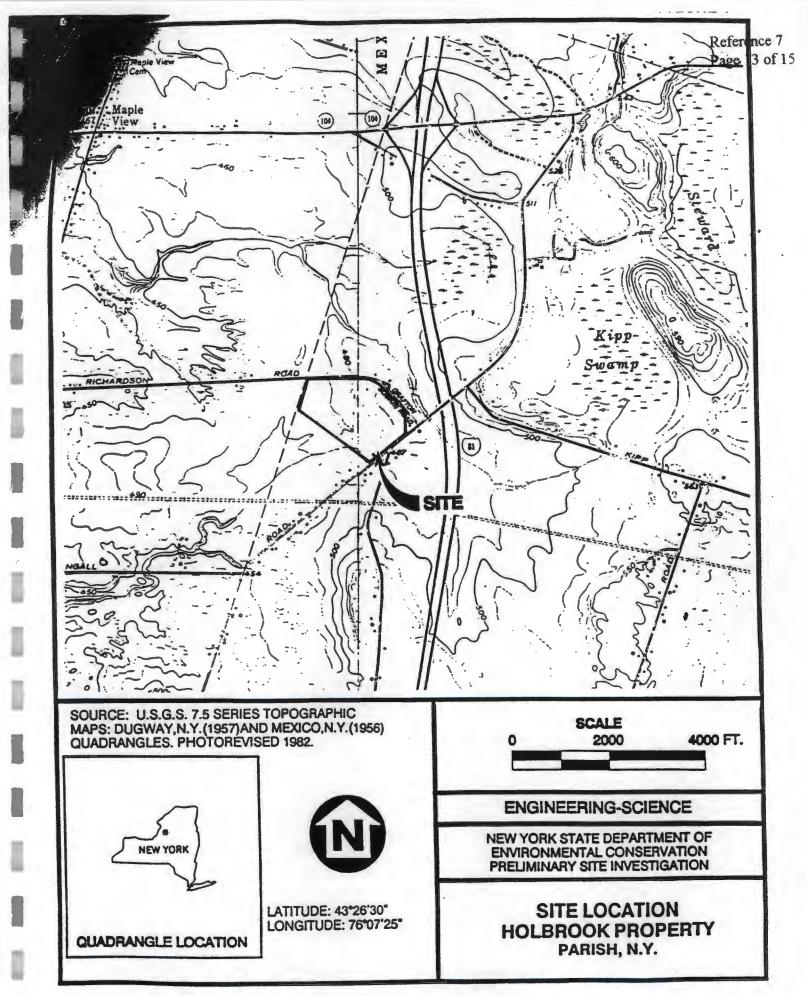
#### **SECTION 4 - SITE ASSESSMENT**

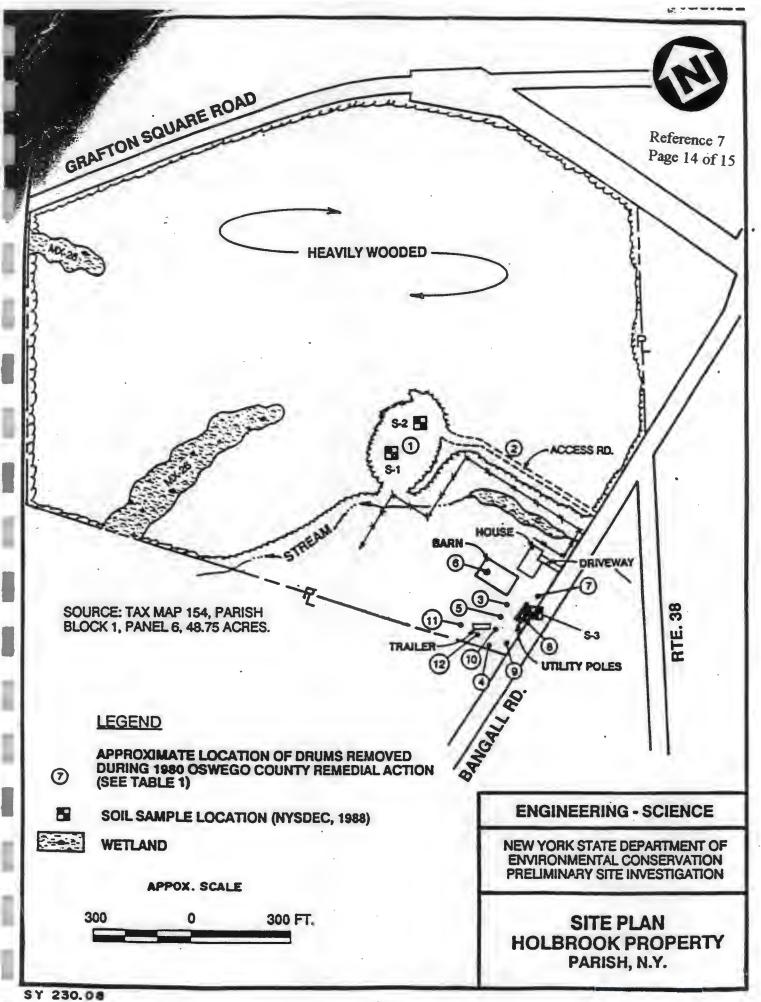
- 4.1 Introduction-
- 4.2 Task 3 Background Information
- 4.3 Presence of Hazardous Waste
- 4.4 Presence of Significant Threat

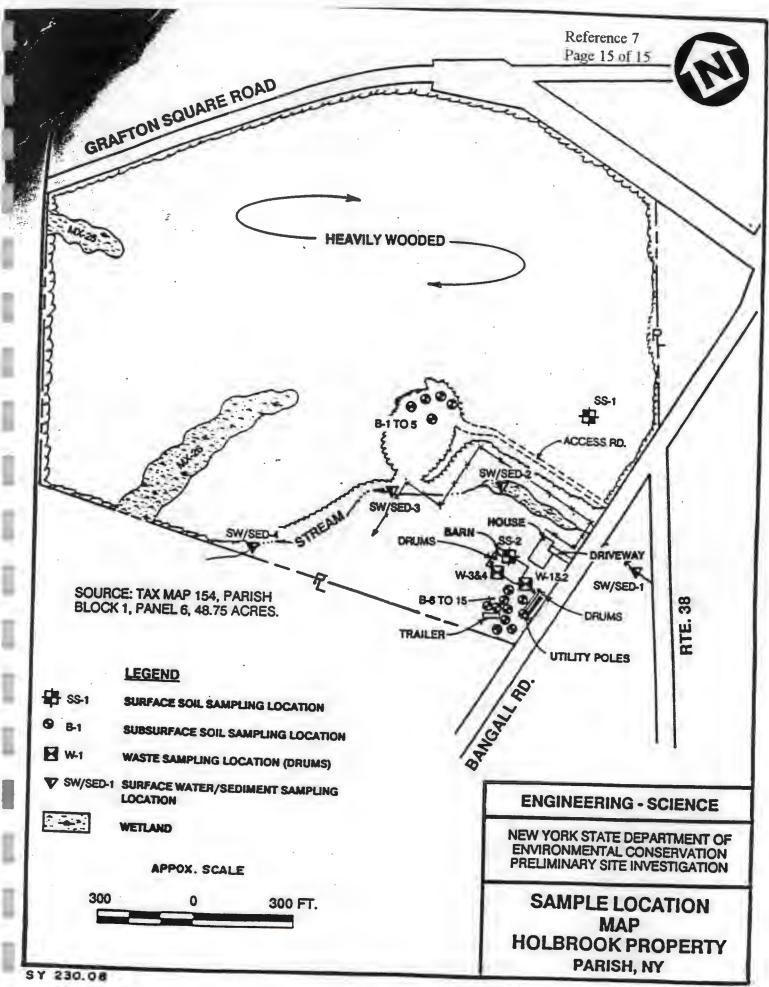
#### **SECTION 5 - RECOMMENDATIONS**

- 5.1 Recommended Site Classification
- 5.2 Future Work

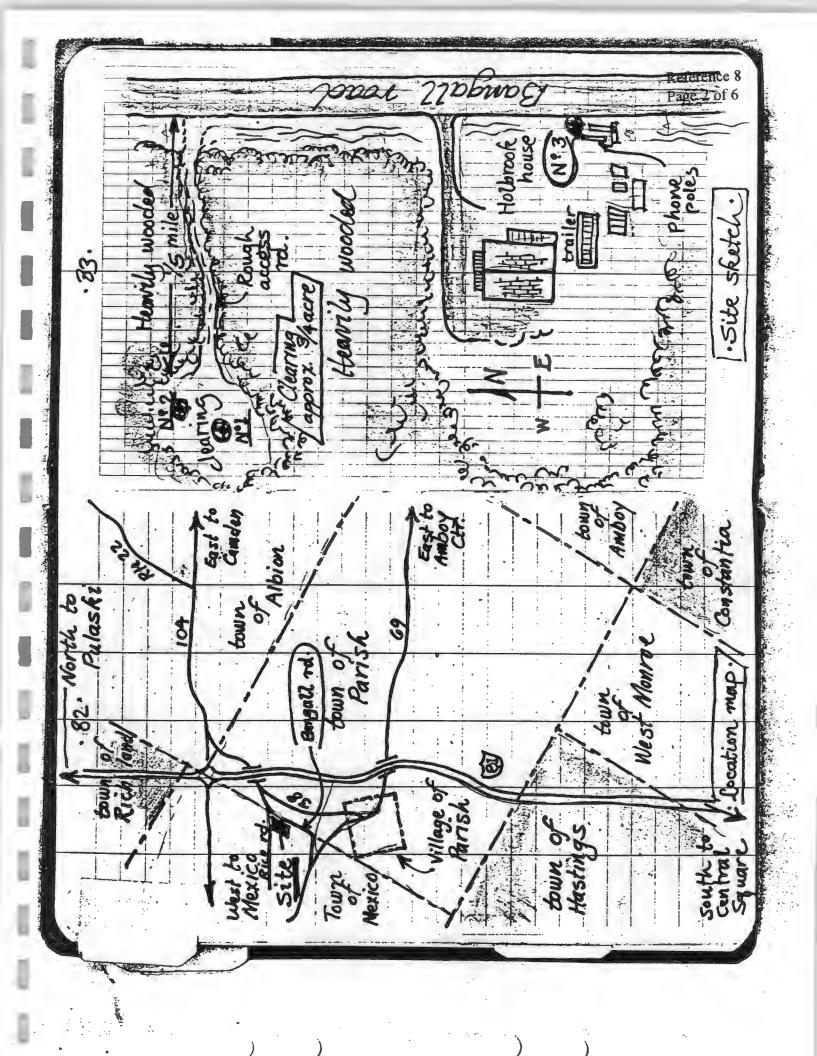
#### **SECTION 6 - REFERENCES**







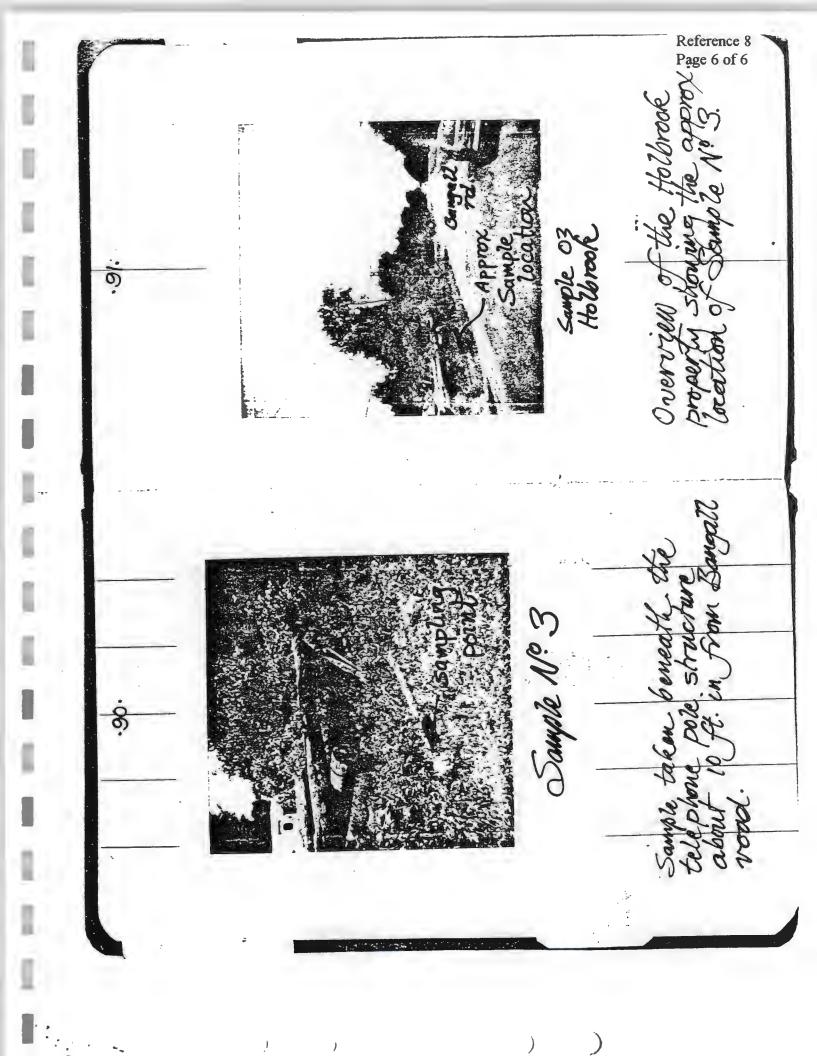
ce 8 f 6 Holbroo Refer 738011 good shan 0 They were in NO 1988 Site DNº 2 101-1 -80. Actional lune いたちちょうと A A A A A A A A A A A いたいの子白き ÷



Reference 8 Page 3 of 6 No CONQ 

8 Reference 8 Page 4 of 6 0 â 6 Z S. 0 ł M 0 0 50 -88 + RR 200 3

Reference Page 5 of 6 Sample Nº 2 - about 50 ft. north of Sample Nº HOCBOTH 02. - # 68. 2 SAMPLE OI 80 )



# FROST ASSOCIATES

Reference 9 Page 1 of 8

P.O.Box 495, Essex, Connecticut 06426 (203) 767-7644 FAX (203) 767-1971

Feb 8, 1995

To: Edgar Aguado Ebasco Services Inc. 1290 Wall Street West P.O Box 661 Lyndhurst, New Jersey 07071

Fr: Bob Frost Frost Associates P.O. Box 495 Essex, Conn 06426

Tel: (203) 767-1254 Fax: (203) 767-7069

Sub: PAS Holbrook Property Bangold Road, Parish, NY

CERCLIS: NYD000511600

Job: 50126

Site Longitude: 76-07-27.5 76.124313 Site Latitude: 43-26-20 43.438889

The CENTRACTS report below identifies the population, households, and private water wells of each Block Group that lies within, or partially within, the 4, 3, 2, 1, .5, and .25, mile "rings" of the latitude and longitude coordinates above. CENTRACTS may have up to ten radii of any length. 1000 block groups, and 15000 block group sides.

CENTRACTS uses the 1990 Block Group population and Block Group house count data found in the Census Bureau's 1990 STF-1A files. The sources of water supply data are from the Bureau's 1990 STF-3A files. The boundary line coordinates of the Block Groups were extracted from the Census Bureau's 1990 TIGER/Line Files.

CENTRACTS reports are created with programs written by Frost Associates, P.O. Box 495, Essex, Conn. The code was written using Microsoft's Quick-Basic Ver. 4.5.

Latitude and Longitude coordinates identifying a site are entered in degrees and decimal degrees. One or more county files holding Block Group boundary lines are selected for use by CENTRACTS by determining whether the site coordinates fall within the minimum and maximum Lat\Lon coordinates of each county in the state.

Each Block Group line segment has Lat\Lon coordinates representing the "From" and "To" ends of that line. All coordinates from the selected county files are read and converted from degrees, decimal degrees to X\Y miles from the site location. Each line segment is then examined whether it lies within or partially within the maximum ring from the site.

The unique Block Group ID numbers of each line segment that lie within the maximum ring are retained. All Block Group boundary lines matching the Block Group numbers are then extracted from the respective county files to obtain all sides of the included Block Groups. Boundary records are then sorted in adjacent side order to determine the shape and area of each Block Group polygon.

A method to solve for the area of a polygon is to take one-half the sum of the products obtained by multiplying each X-coordinate by the difference between the adja-

cent Y-coordinates. For a polygon with coordinates at adjacent angles A, B, C, D, and E. The formula can be expressed:

 $Area = 1/2\{Xa(Ye-Yb)+Xb(Ya-Yb)+Xc(Yb-Yd)+Xd(Yc-Ye)+Xe(Yd-Ya)\}$ 

For each ring, the selected Block Groups will be inside, outside, or intersected by the ring. When a polygon is intersected, the partial Block Group area within that ring is calculated using the method described below.

When a ring intersects a Block Group, the intersect points are solved and plotted at the points where the ring enters and exits the shape. The chord line, a line within the circle connecting the intersect points is determined. This chord line is used to calculate the segment area, the half moon shape between the chord line and the ring, and the sub-polygon created by the chord line and the Block Group boundaries that lie putside the ring.

The segment area is subtracted from the sub-polygon area to determine the area of the sub-polygon outside the ring. The area outside the ring is then subtracted from the area of the entire polygon to arrive at the inside area. This inside area is then divided by the tract's total area to determine the percentage of area within the ring. This process is repeated for each block group that is intersected by one of the rings. The total area, partial area, and percentage of partial area of those block groups within, or partially within a ring, are held in memory for the report.

On occasion, the algorithm described above is unable to determine the area of the partial area. Within the report program is a "Paint" routine which allows an enclosed shape to be highlighted. Another routine calculates the percentage of highlighted screen pixels to the pixels within the polygon. A manual entry is allowed. Both the "paint" method and manual entry method over ride the calculated method.

CENTRACTS lists, starting on page 4, all Block Groups in State, County, Census Tract, and Block Group ID order that lie within, or partially within, the maximum ring. Each Block Group is identified by a City or Town name and by the Block Group's State, County, Tract and Block Group ID number. Following is the Block Group's 1990 populu tion and house count extracted from the Census Bureau's 1990 STF-1A files.

The next four columns display water source data from the 1990 STF-3A files. The first column is "Units with Public system or private company source of water", followed by "Units with individual well, Drilled, source of water"; "Units with individual well, Dug, source of water" and "Units with Other source of water".

For each ring, CENTRACTS then shows the Block Groups that are within that ring, the Block Group's total area in square miles, the partial area of the Block Group within that ring, and the partial percentage within the ring. The areas of the included Block Group and the partial areas are then totaled.

The last section tallies the demographic data within each ring. The percentage of area for each Block Group is multiplied times the census data for that Block Group and totaled for all Block Group's within the ring. Ring totals are then determined by subtracting the three mile data from the four mile, the two mile from the three mile, one from the two, etc... Population on private wells is calculated using the formula: ((Drilled + Dug Wells) / Households) \* Population

Reference 9 Page 3 of 8

City	Block Group ID	Blk Grp People	House Holds	Public Water	Drilled Wells	Dug Wells	Other
Mexico	36075 0204	1 2256	1091	389	323	383	1
Mexico	36075 0204	2 2794	1014	421	181	369	38
Amboy	36075 0205	2 821	297	0	125	146	24
Amboy	36075 0205	3 956	354	11	111	209	15
Amboy	36075 0205	4 953	346	1	205	116	4
Amboy	36075 0205	5 1849	653	19	141	480	31
Richland	36075 020302	1 1682	609	80	180	332	7
Richland	36075 020302	2 1710	880	47	487	321	9
Hastings	36075 020703	1 2356	819	53	241	504	32
Hastings	36075 020703	2 2068	689	52	193	411	24
		17445			222222		185
	Mexico Mexico Amboy Amboy Amboy Amboy Richland Richland Hastings	City         Group ID           Mexico         36075 0204           Mexico         36075 0204           Amboy         36075 0205           Richland         36075 020302           Hastings         36075 020703           Hastings         36075 020703	CityGroup IDPeopleMexico36075 0204 12256Mexico36075 0204 22794Amboy36075 0205 2821Amboy36075 0205 3956Amboy36075 0205 4953Amboy36075 0205 51849Richland36075 0203021 1682Richland36075 0203022 1710Hastings36075 0207031 2356Hastings36075 0207032 2068	CityGroup IDPeopleHoldsMexico36075 0204 122561091Mexico36075 0204 227941014Amboy36075 0205 2821297Amboy36075 0205 3956354Amboy36075 0205 4953346Amboy36075 0205 51849653Richland36075 02030211682609Richland36075 02030221710880Hastings36075 02070312356819Hastings36075 02070322068689	CityGroup IDPeopleHoldsWaterMexico36075 0204 122561091389Mexico36075 0204 227941014421Amboy36075 0205 28212970Amboy36075 0205 395635411Amboy36075 0205 49533461Amboy36075 0205 5184965319Richland36075 0203021168260980Richland36075 0203022171088047Hastings36075 0207031235681953Hastings36075 0207032206868952	CityGroup IDPeopleHoldsWaterWellsMexico36075 0204 122561091389323Mexico36075 0204 227941014421181Amboy36075 0205 28212970125Amboy36075 0205 395635411111Amboy36075 0205 49533461205Amboy36075 0205 5184965319141Richland36075 0203021168260980180Richland36075 0207031235681953241Hastings36075 0207032206868952193	CityGroup IDPeopleHoldsWaterWellsWellsMexico36075 0204 122561091389323383Mexico36075 0204 227941014421181369Amboy36075 0205 28212970125146Amboy36075 0205 395635411111209Amboy36075 0205 49533461205116Amboy36075 0205 5184965319141480Richland36075 0203021168260980180332Richland36075 0207031235681953241504Hastings36075 0207032206868952193411

1

City	Census Tract ID	Tract People	House Count	Public Water	Drilled Wells	Dug Wells	Other Wells
Amboy	36075 0205 5	1849	653	19	141	480	31
Amboy	36075 0205 3	956	354	11	111	209	15
Amboy	36075 0205 2	821	297	0	125	146	24
Amboy	36075 0205 4	953	346	1	205	116	4
	Sub Totals:	4579	1650	31	582	951	74
Hastings	36075 0207032	2068	689	52	193	411	24
Hastings	36075 0207031	2356	819	53	241	504	32
	Sub Totals:	4424	1508	105	434	915	56
Mexico	36075 0204 2	2794	1014	421	181	369	38
Mexico	36075 0204 1	2256	1091	389	323	383	1
	Sub Totals:	5050	2105	810	504	752	39
Richland	36075 0203021	1682	609	80	180	332	7
Richland	36075 0203022		880	47	487	321	9
1 · · ·	Sub Totals:	3392	1489	127	667	653	16

For	Radius	of	4	Mi.,	Circle	Area	=	50.265482	

No.	City	Block Group ID	Total Area	Partial Area	% Within Radius
3 4 5 6 7 8	Mexico Mexico Amboy Amboy Amboy Hastings Richland Richland Hastings Amboy ====================================	36075 2041 36075 2042 36075 2052 36075 2053 36075 2054 36075 207032 36075 203021 36075 203022 36075 203022 36075 207031 36075 2055	20.436930 25.104702 29.597391 20.094009 18.425285 17.818802 21.160847 34.548252 14.637068 21.220346 ====================================	4.795020 13.180501 2.151011 0.007340 5.450231 0.185394 2.193528 2.178401 0.330413 19.793642 ====================================	23.46 52.50 7.27 0.04 29.58 1.04 10.37 6.31 2.26 93.28

## For Radius of 3 Mi., Circle Area = 28.274334

No.	City	Block Group ID	Total Area	Partial Area	% Within Radius
1	Mexico	36075 2041	20.436930	2.869115	14.04
	Mexico	36075 2042	25.104702	8.099288	32.26
	Amboy	36075 2054	18.425285	2.347989	12.74
	Richland	36075 203021	21.160847	0.958426	4.53
	Richland	36075 203022	34.548252	0.264175	0.76
10	Amboy	36075 2055	21.220346	13.735341	64.73
===		================	=========	=========	======
	Totals:		140.896362	28.274334	

## For Radius of 2 Mi., Circle Area = 12.566371

No.	City	Block Group ID	Total Area	Partial Area	% Within Radius
2	Mexico Mexico Amboy Amboy Totals:	36075 2041 36075 2042 36075 2054 36075 2055	20.436930 25.104702 18.425285 21.220346 ====================================	0.957427 4.038767 0.514635 7.055542 ======== 12.566370	4.68 16.09 2.79 33.25

# For Radius of 1 Mi., Circle Area = 3.141593

No.	City	Block Group ID	Total Area	Partial Area	% Within Radius
2	Mexico	36075 2042	25.104702	0.936599	3.73
10	Amboy	36075 2055	21.220346	2.204993	10.39

====== ========== =========== 3.141593 46.325050 Totals:

For Radius of .5 Mi., Circle Area = 0.785398

No.	City	Block Group ID	Total Area	Partial Area	% Within Radius
_	Mexico Amboy ====================================	36075 2042 36075 2055 ======	25.104702 21.220346 ====== 46.325050	0.095914 0.689484 ====== 0.785398	0.38 3.25

For Radius of .25 Mi., Circle Area = 0.196350

	No.	City	Block Group ID	Total Area	Partial Area	% Within Radius
	10	Amboy	36075 2055	21.220346	0.196350	0.93
m	===	Totals:	**********	21.220346	0.196350	

**Reference** 9 Page 6 of 8

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	Site	Dat	a =	===	====	===	======
	Popul	ati	on:	4	419.	70	
	House				665.		
Dr	illed				428.		ŀ
DI.	Dug				846.		
Olhow Wei					54.		
Other Wat	cer Sc	Jurc	es.		54.	30	
========== Partia	l (RIN	NG)	data	==		====	======
Within Ring: 4	Mile	(s)	and	3 N	file	s)	
		1 - 4 2			704	00	
	Popul	lati	on:		794.		
	House				684		
Dr.	illed				195.		
			ls:		330		
	Other	Wel	ls:		20	.94	
** Population On Pr	ivate	Wel	ls:	1	380	.82	:
Within Ring: 3	Mile	(s)	and	2 1	Aile	(s)	
	Popu	lati	on ·		1429	06	
88	House				540		
Dr	illed				136		
DI					275		
			ls:				
-	Other	wei	.1S:		10	.78	
** Population On Pr	ivate	We]	lls:		1089	.04	
Within Ring: 2	Mile	(s)	and	1 1	Mile	(s)	
	Popu	lati	on:		900	.20	
	Hous				335		
Dr	illed				75		
DI					176		
	Other		lls:			.94	
	other	we.	LIS:			. 94	
** Population On Pr	ivate	We?	lls:		676	.36	
Within Ring: 1	Mile	(s)	and	.5	Mil	e(s	)
	Popu	lat	ion:		225	.61	
	Hous				80		
Dr	illed					.13	
			lls:			.64	
	Other					.49	
	other	we.	us:		3	. 47	
** Population On Pr	ivate	We	lls:		175	.72	

Reference 9 Page 8 of 8

---- Within Ring: .5 Mile(s) and .25 Mile(s) ----

Population:	53.64
Households:	19.05
Drilled Wells:	3.97
Dug Wells:	12.56
Other Wells:	0.87

\*\* Population On Private Wells: 46.56

---- Within Ring: .25 Mile(s) and 0 Mile(s) ----

Population:	17.11
Households:	6.04
Drilled Wells:	1.30
Dug Wells:	4.44
Other Wells:	0.29

\*\* Population On Private Wells: 16.27
\*\* Total Population On Private Wells: 3384.77

#### Hazardous Waste Site Dossier

I. Site Name

PAS Holbrook Property Bangall Road Town of Parish Oswego County

Part .

#### II. Background to Investigation and Sources of Initial Referral

The site is listed in the Department of Environmental Conservation (DEC) Technical Report: Toxic Substances in New York's Environment, and also the Oswego County Water Quality Study Interium Report. (Dr. Romald J. Scrudato, Director, Research Center).

#### III. Site Description

This inactive site is owned by Mr. Holbrook. The site was used from 1977 to 1978. Inspection by Mr. Gross, DEC, on April 19, 1979 disclosed an estimated 500 barrels of waste. The barrels were scattered throughout the site. There were no signs of any major chemical leakage at the time of the inspection. The site also included a number of junk cars, and assorted materials.

#### IV. Allegations of "Imminent Hazard" Pollution

Information obtained from the DEC files did not attribute any health effects at this time. However, the wastes are of <u>unknown composition</u>. Due to the association of Mr. Holbrook with Pollution Abatement Services, Inc., it is assumed that these are PAS wastes.

V. Current Involvement

DEC states that there was no significant change in the status of this case during 1979. A residential fire heavily damaged the Holbrook home at this site. Locations of potable water wells, within one half mile of the site, has been requested by Task Force, from the Oswego County Health Department.

\*UPDATE: Chemical waste leachate - potential for groundwater contamination in Oswego Countyl

Bangall Rd. (U.S.G.S. Dugway Quad.).

- a. No. of barrels approximately 500 barrels originated at PAS.
- b. Barrels scattered randomly around property, unprotected; investigation made by N.Y.S. DEC found none leaking.

March 17, 1980

Reference 10 Page 1 of 2 c. Approximately 100 barrels are stored 250 ft. from Sage Creek.

d. Soil - permeability is rapid to very rapid.

\*1This paper represents a contribution from the Oswego County Legislature (Oswego County Planning Department, New York Central Regional planning and Development Board (USEPA - 208), United States Geological Survey, and the State university Research Center at Oswego. (A copy will be furnished work, and Executive Committee Members).

By

Ronald J. Scrudato, Charles S. Ehlers, Philip A. Goliber and Raymond H. Schneider State University Research Center SUNY @ Oswego Oswego, New York 13126

And

Hank Anderson, Todd S. Miller United States Department of the Interior Geological Survey Water Resources Division Ithoca, New York 14850

VI. Recommendation

High priority

EPA make a site visit.



PAS HOLBROOK PROPERTY BANGALL ROAD

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Reference 19 Page 3 of 3

			Region 7	Page	: 6
WATE	R (TOWNS	SHIP)	NUMBER	SPECIES	SIZE
		OSWEGO COU	NTY (CONT'D)		
Lake	Ontario	(Oswego)	14,000	BT	7.50
11	98	11	17,500	BT	7.00
11	69	1	13,080	LLS	6.50 5.50
11	11		24,680 39,000	LLS LT	8.00
11	11	(Selkirk)			7.00
11	н		78,000	BT	7.50
11	11	(Selkirk Shores)	14,000	BT	7.00
ft -	.11		17,500	RT	9.00
11	11		.23,000		4.75
н	18	(0	5,066	RT	8.50
		Hill Reservoir (Orwell)	3,960 152,144,000	WP	Fry
	da Lake	(2)]; (2)(2)(2)(2)(2)(2)(2)(2)(2)(2)(2)(2)(2)(	18,000	STHD	5.50
		(Albion, Orwell)	83,300	CHIN	3.00
	go River			STHD	5.50
18			14,360	TGRM	9.00
	her Lake		1,200 100	ST	8.00
		d (Albion)	660	BT	7.50
		(Oswego, Granby)	18,000	STHD	5.00
Salm	non River	r (Albion)	1,010	RT	8.50
		r, East Branch (Redfield)	1,010	BT	8.00
п			4,300	ST	8.00
11	11	NOTULI BLANCH	211,100	CHIN	4.00
11	11	Rt 3 Brdg.	25,000	STHD	5.00
11	"		7,240	WP	2.00
Sanc	ly Pond	- South	1,000	BT	7.00
		k (Constantia)	9,680	STHD	6.00
		(Albion, Orwell)	8,320	STHD	5.50
*1	11		Contraction of the local sectors of the local secto	51110	5.50
		TIOGA	A COUNTY		
Cata	ita Cree	k (Barton)	2,920	BT	7.50
		ers Pond	120	TGRM	8.50
Ower	to Creek	, East Branch (Berkshire,	Richford) 5,280	BT	7.50
1	go creek		" 2,070	BT	7.00
11		West Branch	1,900	BT	8.00
Ħ		IT II	7,400	BT	7.50
				TGRM	8.50
	quehanna -County	River Pond (Richford)	4,600 190	RT	8.50
	1		INS COUNTY		
		<u></u>			
But	termilk	Creek (Ithaca)	500	BT	8.00
	uga Inle		5,000	RT	5.50
-					

Reference 20 Page 1 of 3

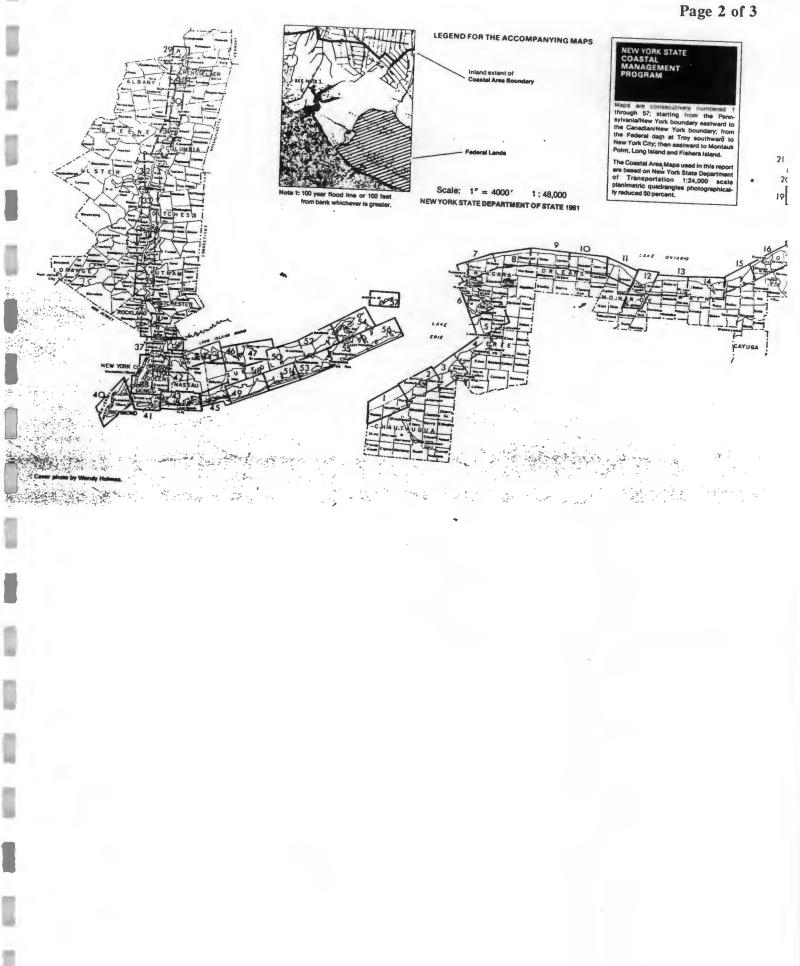
# COASTAL AREA MAPS

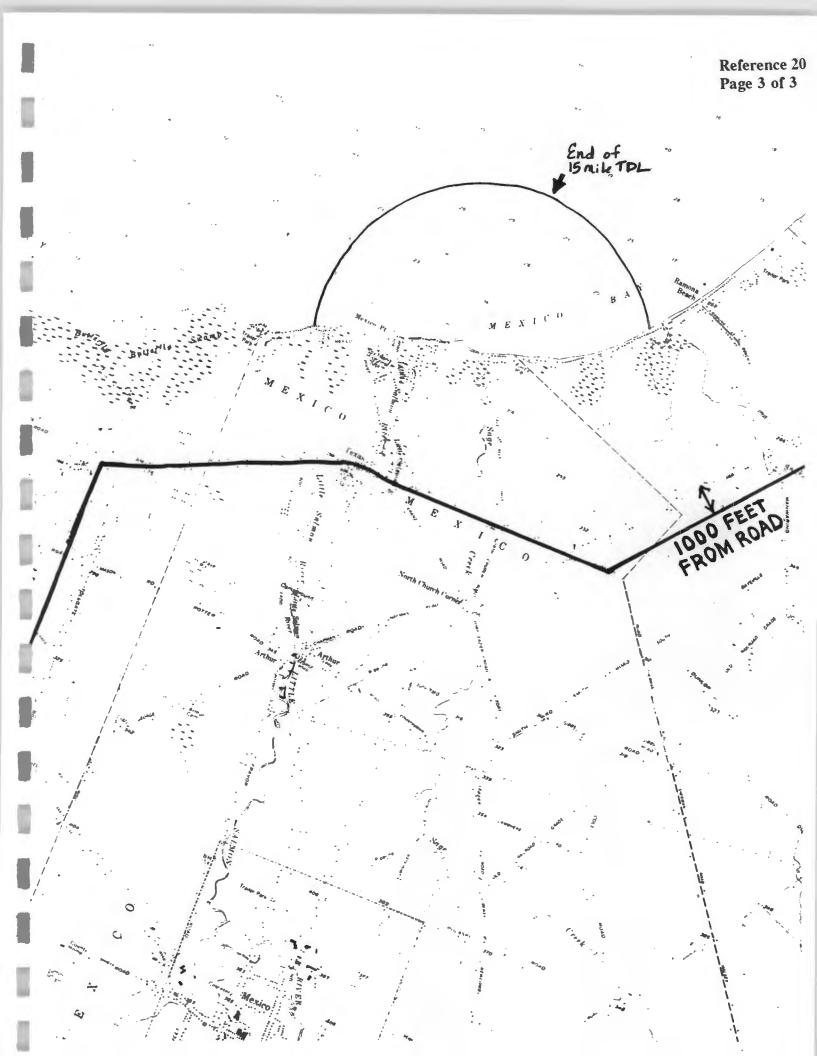
NEW YORK STATE COASTAL MANAGEMENT PROGRAM

HUGH L. CAREY, Governor • BASIL A. PATERSON, Secretary of State

Scale: 1" = 4000'

#### Reference 20 Page 2 of 3





DEPARTMENT OF COMMERCE

Reference 21 E/ Page 1 of 2

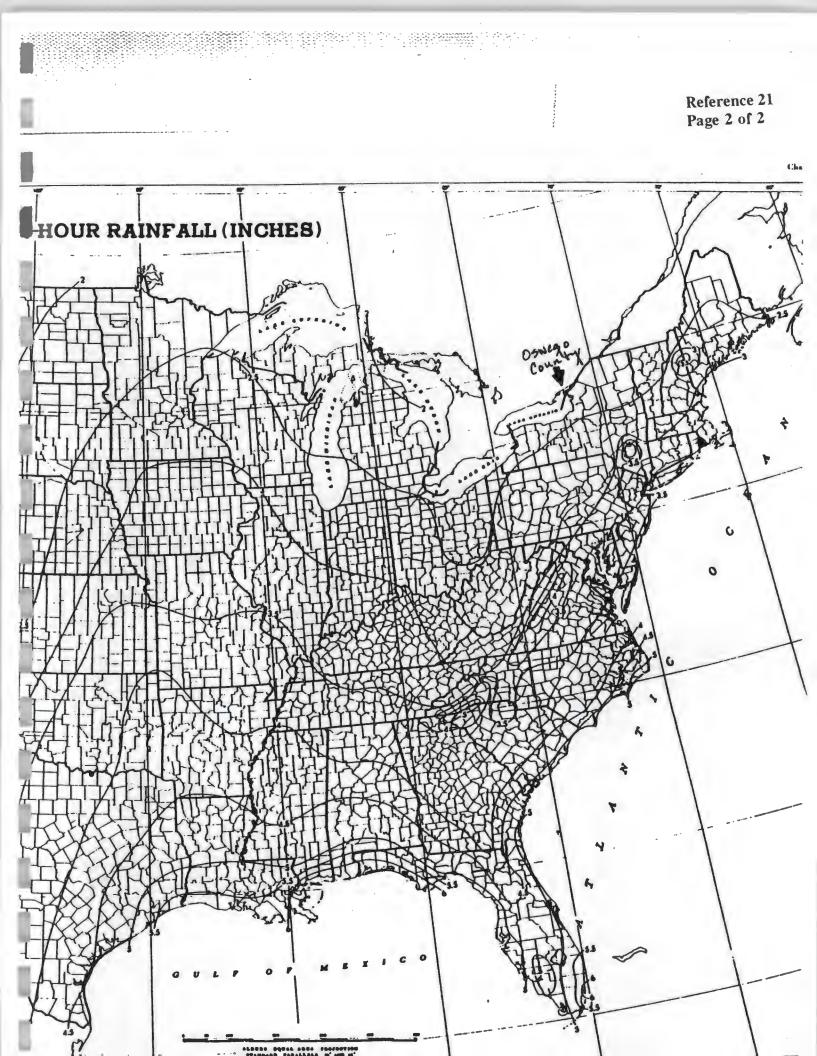
# TECHNICAL PAPER NO. 40

# RAINFALL FREQUENCY ATLAS OF THE UNITED STATES

for Durations from 30 Minutes to 24 Hours and Return Periods from 1 to 100 Years

> Prepared by DAVID M. HERSEFFELD Competative Studies Section, Hydrologic Services Division for Engineering Division, Soil Conservation Service U.S. Department of Agriculture





EBASCO SERVICES INCORPORATED **Reference 22** Page 1 of 1 PROJECT: Mirabito Property/Fulton Sixth Ward /PAS Hol brook TELECON NOTE TIME: 1345 DATE: 12/12/94 PROJECT NO. 8310,0076 DISTRIBUTION: Files PHONE: (315) 426 - 7439 main BETWEEN: Bill McCarthy OF: NysDEC-Region 7 (315) 427-7500 Wate AND: M. Christina -resould DISCUSSION: RE: Wellhead Protection Areas for Osweyo County Bill Mc Carthy is person I need to talk to; not in >left message Called 9:40 on 13 DEC 94. Spoke w/ B. McCarthy. He was asked if any wellinead protection areas for Oswego County. He said that there was not any for that area ACTION ITEMS: EBASCO

	CE INCORPORATED	Reference 23 Page 1 of 1
PROJECT: PAS Holbrook		TELECON NOTE
PROJECT NO. 8310.00 776.0000 5012.6	DATE: 3-10-95	TIME: /200
DISTRIBUTION:		· · · · · · · · · · · · · · · · · · ·
PAS HOI brook		
BETWEEN	OF: Cecos	PHONE:
Phil Hersbrun	International	(716) 282.2674
AND: Amy Braccia DISCUSSION:		
I called Ceeps International to	determine The RCG	2A status of
SCA chemical as of December	1980. Phil told me	That =
Chemical Waste Management	bought Sch in 191	rl. Cecos
is not related TO SCA. I call	ed chemical Was	ite Magmit
in Model City, NY @ (716) 1094-	1303. The Secreta	my at That
office referred me to their		
His name is Michael Cannon.	•	
Called Micheal Cannon on		
message. He called me back	on 17 MAR95C/	050. I explained
Message. He called me back	he RCRA Status	of the SCA
Message. He called me back	he RCRA Status	of the SCA
Message. He called me back that we needed to Know He facility as on DEC 1980. Submitted mc filed a RCRA	He told me that A Part A in No	of the SCA the facility he vernoer 1980, So
Message. He called me back	He told me that A Part A in No	of the SCA the facility he vernoer 1980, So
Message. He called me back that we needed to Know He facility as on DEC 1980. Submitted mc filed a RCRA	He told me that A Part A in No	of the SCA the facility h vember 1980, So
Message. He called me back that we needed to Know He facility as on DEC 1980. Submitted mc filed a RCRA	He told me that A Part A in No	of the SCA the facility h vember 1980, So
Message. He called me back that we needed to Know He facility as on DEC 1980. Submitted mc filed a RCRA	He told me that A Part A in No	of the SCA the facility h vember 1980, So
Message. He called me back that we needed to Know He facility as on DEC 1980. Submitted mc filed a RCRA	He told me that A Part A in No	of the SCA the facility h vember 1980, So
Message. He called me back that we needed to Know He facility as on DEC 1980. Submitted mc filed a RCRA	He told me that A Part A in No	of the SCA the facility h vember 1980, So
Message. He called me back that we needed to Know He facility as on DEC 1980. Submitted mc filed a RCRA	He told me that A Part A in No	of the SCA the facility h vember 1980, So
Message. He called me back that we needed to Know He facility as on DEC 1980. Submitted mc filed a RCRA	He told me that A Part A in No	of the SCA the facility h vember 1980, So
Message. He called me back Hunt we needed to Know He Facility as on DEC 1980. Supmitted mc filed a RCRA In Dec 1980, the facility	He told me that A Part A in No	of the SCA the facility h vember 1980, So
Message. He called me back Hunt we needed to Know He Facility as on DEC 1980. Supmitted mc filed a RCRA In Dec 1980, the facility	He told me that A Part A in No	of the SCA the facility h vember 1980, So

# OSWEGO COUNTY HEALTH DEPARTMENT ENVIRONMENTAL DIVISION

Reference 24 Page 1 of 1

VIOLATION # INVESTIGATION # TAKEN BY OFFICE TIME/C REFERRED TO '30 Holbro Kas COMPLAINTANT 1a AGAINST: ADDRESS: ans ADDRESS: PHONE: (025-VLG, CTY: PHONE: VLG, CTY: COMPLAINT COMPLAINT 55 drumo eing noi DIRECTIONS: 00 28. a SITE SKETCH INITIALINVESTIGATION mag ermino mun 2 nol rare (112 NVESTIGATION INVESTIGATED DATE OWNER OWNER'S AGENT OWNERSHIP VERIFIED VERIFICATION NAME NAME A. COUNTY OFFICE RECEIVED: ADDRESS ADDRESS B. LOCALITY OFFICE VES DNO C. OTHER (EXPLAIN) DATE PHONE PHONE DWELLING INFORMATION: OCCUPANT INFORMATION: A. NO. OF DWELLING UNITS A. NO. ADULTS B. NO. UNITS OCCUPIED B. NO. CHILDREN (UNDER 18) C. NO. FLOORS IN BLDG. C. TOTAL OCCUPANTS D. COMMERCIAL E. OTHER D. TOTAL NO. EMPLOYEES DEGREE OF INVESTIGATION: OTHER AGENCIES INT. OCCUPANTS REC. AID A. FLOORS - INC. ATTIC & CELLAR A. B. UNITS В. C. ROOMS C. CODE ENFORCEMENT MENT A. NOTICE TO: ADDRESS: DATE: B. SCHEDULED: CONFERENCE DATE TIME ENFORCE C. SCHEDULED: HEARING DATE TIME D. OTHER

(-

### EPA REGION II

### SURVEILLANCE & ANALYSIS DIVISION

#### EMERGENCY RESPONSE & INSPECTION BRANCH

Initial Hazardous Waste Site Field Investigation Report

#### I. Background

1. Name of Investigator Donald J. Casey and Lawrence R. Moriarty

6

Reference 25 Page 1 of 7

- 2. Title Physical Science Administrator and Sanitary Engineer
- 3. Date(s) of Field Investigation 1/16/80 and 2/3/80
- 4. Identity of Site Holbrook property
- Location (Streets, Town, County, State) <u>Bangall Road</u>, Town of Parish, Oswego County, New York
- Facility owner and facility operator (corporate name, municipality, corporate address, telephone number
   Gayle Holbrook, Bangall Road, Parish, Oswego County,

New York

- 7. Length of time owned by present owner (Unknown) yrs.
- 8. Prior owner(s) and or operators and years involved Unknown

· · · · · ·		Reference 25 Page 2 of 7
	- 2 -	
9.	Other investigators along (name/title) None	••
	·	
1 - # + 1		
10.	Persons Interviewed:	
	Name Affiliation/Title Telephone Address	
a.	Dan Halton NYS DEC 315-473-8391 Liverpool,	NY 13088
b.		
d.		
		Control of the second se
с.		
τ.		
g.		
II. <u>Nat</u>	cure of Materials Disposed of at Site	**************************************
1.	Types of Wastes: Municiapl Industrial	2000 - 2000 2000 - 2000 2000 - 2000 2000 - 2000
2.	Characterize Wastes by Industry: Unknown	and a second s
3.	Identify Sources of Industrial Wastes if Appropriate and Possible <u>These barrels were originally sent to Pollution</u>	
	Abatement Services in Oswego, New York	
· · · ·		*
4.	Amounts of Hazardous Wastes at Site, Characterized as:	化学
	a. Sludges Deposited Unknown	•••
	b. Liquids Deposited Unknown	· ·
•	c. Solids Deposited Unknown	
	d. Drums (number) Approximately 500	:

10

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5.	Identity	of actual	chemicals	disposed	of	and	amounts	
	if known	and if cr	itical:					

- 3

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	materials originally sent to PAS
. —	
_	
_	
•	
. н	ow comprehensive and accurate is information on the
C	nemicals deposited on site?
ia	. Sparse/Written Records do not Exist
D	
b	Spanco/Intom/20Wod (1000TITV EIKIUSEU
c	. Sparse/Interviewed (identify <u>Enclosed</u>
	)
	)
с	Good/Written Records Exist
c d	. Good/Written Records Exist
c d e	. Good/Written Records Exist

3. Visual description (portion covered by drums, where located, condition of drums; cover on landfill exists; liner exists; other impermeable layer exists; odors present; skin, eye, nose irritation; other symptoms apparently caused by site; color of leachate; extent and location of standing pools; path(s) of runoff or surface leaching (access to site; living or dead vegetation and animals):

See photographs which were taken along the road. Mr.

Holbrook's house burned down sometime ago. Barrels are

scattered all over property.

(

IV. Description of Surrounding Area

a. Closest Residences (indicate distance from site)
 Across road

b. Are Private Wells Used for Water Supply in Surrounding

.

Area? Yes X No \_\_\_\_\_

(Identify Location(s))

d. No surrounding homes have basements (below ground).

Yes

Do

e. Estimate residences, other buildings in immediate and (1000 feet or less)

Five feet

(Indicate on Site Map)

Reference 25 Page 4 of 7

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		٠		
Indicate	on site map)		•	
(Indicace on side map)				

f. Identify surface waters in area indicating any direct

h. Immediate area is: <u>×</u> Residential; <u>Commercial</u>;

\_\_\_\_ Agricultural; X Natural

6.

5

. Geology and Groundwater

Indicate information gained on direction of groundwater flow, soil types near and under the site and their permeabilities, depth of groundwater table, estimate of erosion and runoff

Unconfined aquifer; depth to water table estimated 15';

surface drainage at site is unadjusted due to glaciation.

VI. Sampling and Chemical Analysis of Samples

a. Has anyone taken samples in the past?

Date NO Taken By Analyzed By

Date \_\_\_\_\_ Taken By \_\_\_\_\_ Analyzed By \_\_\_\_\_

Date \_\_\_\_\_ Taken By \_\_\_\_\_ Analyzed By \_\_\_\_\_

Date Taken By Analyzed By

(Request copies of any available reports)

b. Samples taken? No If yes, record on proper forms

*			
÷	- 6 -		Reference 25 Page 6 of 7
Sta	tus of Local, State Involvement	•	
1.	What permits exist for the facility? (indicate number) State would like site cleaned up.	•	
		•	
		• •	•
2.	What previous studies have been sponsored previously? (request a copy)	• .	•
	See enclosed memoranda		•
•			
3.	Has county/local health official investigated and reported on this site? (request a copy)		Britan Bre
	Yes. See enclosed memoranda	·	•
			-
4.	What are local plans regarding this site? Unknown		میں میں میں میں میں میں میں
•			99 4 9 4 99 1
5.	What are State plans regarding this site? Unknown	•	
6.	What are the industry's plans, if any, regarding this		2010 - 10 10 10 10 10 10 10 10 10 10 10 10 10 1
	site?		· . ·
	· · ·		-
Inm	inent Hazard Aspects of Site		
		•	ه <sup>ا (۲</sup> می منه ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹ ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ -
	Fire, spillage.		
	· · · · · · · · · · · · · · · · · · ·		مربع مربع الم
			2
	1. 2. 3. 4.	State would like site cleaned up.         2. What previous studies have been sponsored previously? (request a copy)         See enclosed memoranda         3. Has county/local health official investigated and reported on this site? (request a copy)         Yes. See enclosed memoranda         4. What are local plans regarding this site?         Unknown         5. What are State plans regarding this site?         Unknown         6. What are the industry's plans, if any, regarding this site?         Inminent Hazard Aspects of Site         1. Presence of disease clusters or health problems?	<ol> <li>What permits exist for the facility? (indicate number) <u>State would like site cleaned up.</u> </li> <li>What previous studies have been sponsored previously? (request a copy) <u>See enclosed memoranda</u> </li> <li>Has county/local health official investigated and reported on this site? (request a copy) Yes. See enclosed memoranda         </li> <li>What are local plans regarding this site? <u>Unknown</u> </li> <li>What are State plans regarding this site? <u>Unknown</u> </li> <li>What are the industry's plans, if any, regarding this site? <u>Inminent Hazard Aspects of Site</u> </li> <li>Presence of disease clusters or health problems?</li> </ol>

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2. Potential ecological effects in general or specific wildlife or other natural resources which may be adversely affected.

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- 7 -

Spillage could contaminate soil, possibly groundwater.

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## Reference 25 Page 7 of 7

15%

Reference 26



Reference 26 Page 1 of 7 COMPLETED

POTENTIAL HAZARDOUS WASTE SITE

### PRELIMINARY ASSESSMENT

Holbrook Property Site Name

Print of

EPA Site ID Number

Bangall Road, Parish, New York Address 02-8303-76 TDD Number

Date of Site Visit: None conducted

# SITE DESCRIPTION

The 5 to 7 acres of private property located in Oswego County, N.Y., countained approximately 500 drums of a resinous material which were allegedly earmarked for disposal at PAS in Oswego. The site was cleaned up by the Oswego County Health Department in late November, 1980. All drums and contaminated soil were sent to SCA for disposal. The site is presently wooded or covered by weeds, shrubs and bushes. Well samples taken by the county from nearby residences yielded no detectable traces of organic solvents and heavy metals.

	PRIORITY FOR	FURTHER	ACTION:	High	Medium	Low X
--	--------------	---------	---------	------	--------	-------

### RECOMMENDATIONS

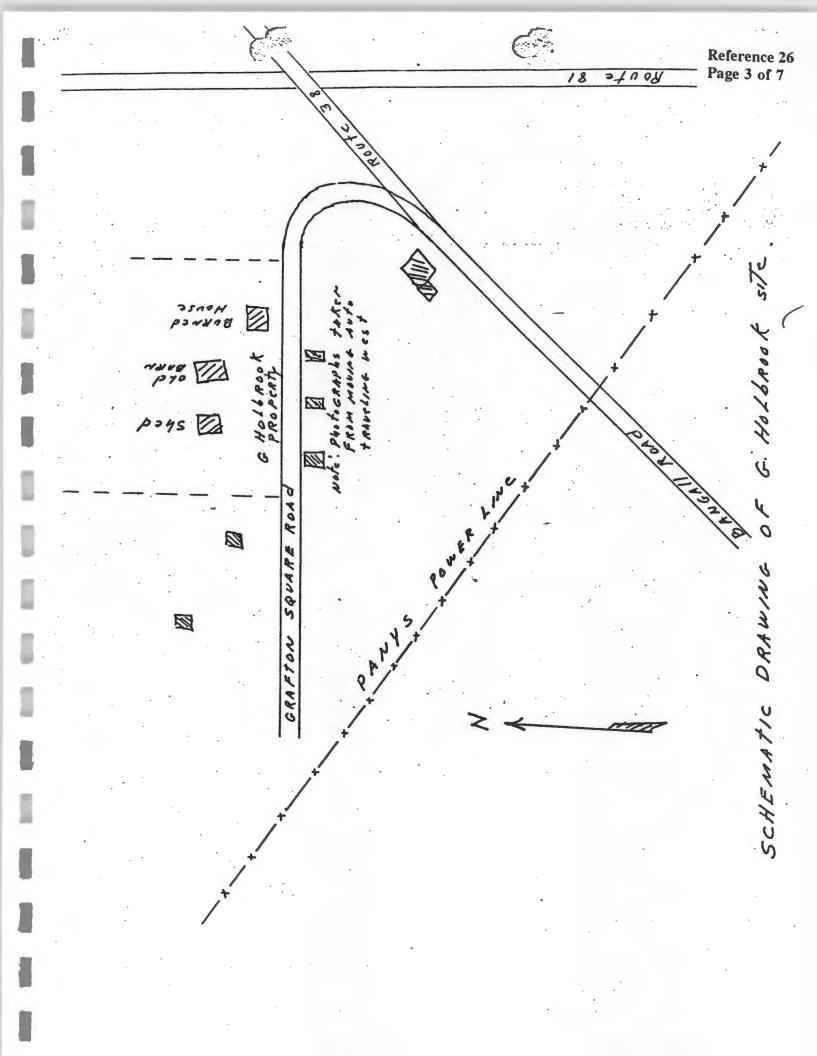
Since the Oswego County Health Department has removed all contaminated material on site, no further action is recommended.

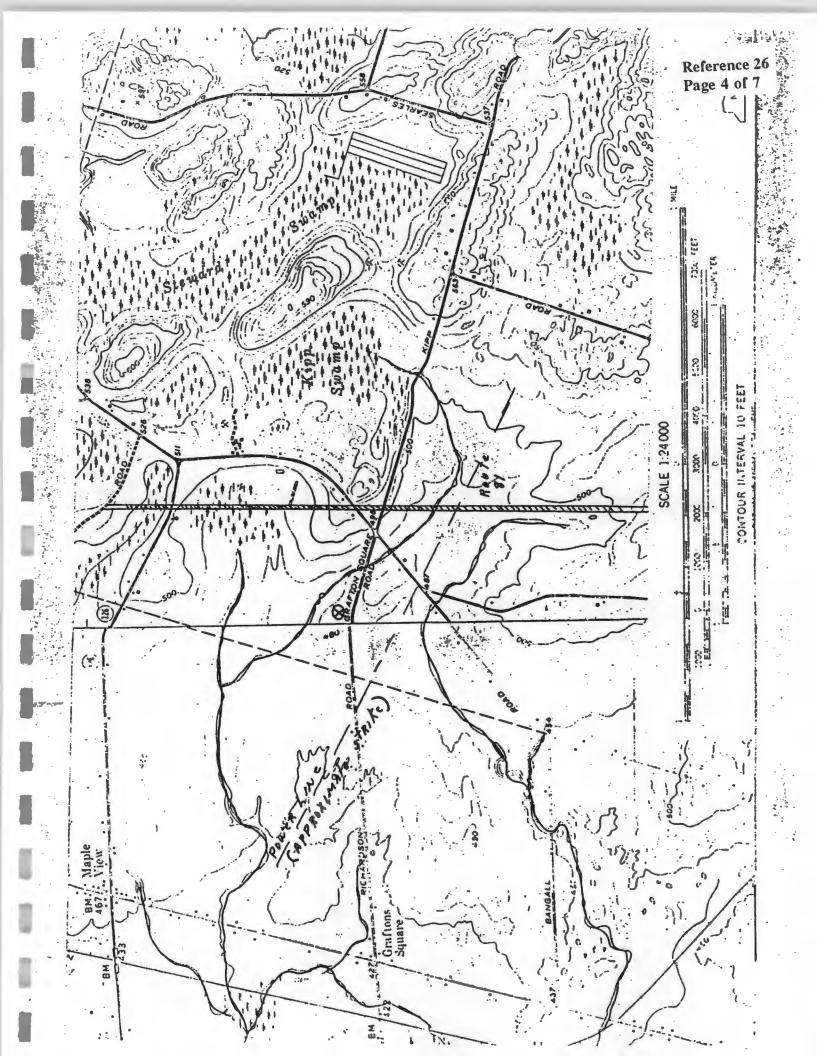
Prepared by: Jerry Cirilli of NUS Corporation Date: 5/24/84

<b>(</b> 4. )			( <u>e</u>	Reference Page 2 o		1420005116		
⇒EPA	WASTE SITI		OI STATE	LIDENTIFICATION I STATE OZ SITE MUMBEA N Y New Site				
IL SITE NAME AND LOCATION		-						
OI SITE NAME (Logal common, or dissolution some of cite)		02 STREE	T. ROUTE NO., OR	SPECIFIC LOCATIO	N DENTIFIER			
Holbrook Property osciry		Banga	11 Road	OS COUNTY		07 COUNTY OB CO		
Parish			13131	Oswego		CODE DIS		
4.30 2.6 0.0".N	LONGITUDE 0 7 60 0 6 0 0 W		1.0.01	USwego .		75 29		
Interstate 81, to exit 34. To proceed for approximately 1 m right side.	ake Rte.104 éast to f ile, then make right	first int onto Gra	ersection. Ifton Square	Make right e Road. Sit	turn on ie is abou	to Bangall Rd, ut 노 mile on		
IL RESPONSIBLE PARTIES								
		1	T (theirest, matting, r					
Wendal Holbrook			II Road	Las martin				
Parish			13131	OB TELEPHON	ar Muhabara			
FGT FSH D7 OPERATOR #I known and allforent from owners		_	13131 T (Brances, martin, m					
Not applicable			a teaching would be					
BOCTY		10 STATE	11 ZP CODE	12 TELEPHON	IF MI IMPER			
A ACRA 3001 DATE RECEIVED: //	HAZARD BY (Cross) of their sector			DATE RECEN	VIED: /	CAY YEAR E C. NON		
DI NO MONTH DAY YEAR	DE. LOCAL HEALTH OF			C. STATE	D. OTHER	CONTRACTOR		
2 SITE STATUS (Cheer ever	CONTRACTOR NAME(S):							
A ACTIVE D & MACTIVE C. UN			late 1970's	-		WN		
Unknown resinous materials.								
Low potential for damage if me by the Oswego County Health De PRIORITY ASSESSMENT	aterial leaked from o opt. in 1980.					is were removed		
PRECRITY FOR INSPECTION (Chose enc. if high or research     A. HIGH     Andreatter required premating     finances	UM SIC.LOW	entresten end Peri Frankske basis	C D. NONE			antan Ayrmg		
L INFORMATION AVAILABLE FROM		-		•				
CONTACT	· 02 OF (Agent) · Organ	rations				OS TELEPHONE NUMBE		
Mark Haulenbeek	U.S. EPA	Region I	I			( 201) 321-6685		
PEASON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	OS ORGA		07 TELEPHON		00 DATE 5 , 24 , 84		
					THE LEVEL	MONTH DAY TEAR		

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€EF	A		ADOUS WASTE ASSESSMENT EINFORMATION	LIDENTIFICATIO			
WASTE ST	ATER, QUANTITHER, AJ		ASTICE	I GO WASTE CHARACTE			
LI A SOLID E SLUMMY C B POWDER, PMES B P. LOUID C C SLUDGE LI Q CAS CUBIC YANDS				SI A TONIC SI & COMOL LI C. RADIOA LI O. PERSIST	ILE LI LINGNLYW TIOUS LI J. EXPLOSE MARLE LI K. REACTW IBLE LI K. REACTW IBLE LI K. NOT APP		
R. WASTE TY	(Secolo)	1		Suspec	ted Characteri	STICS	
CATEGORY	SUBSTANCE	NAME	OI GROBE AMOUNT	DE UNIT OF MEASURE	03 COMMENTS		
SLU	SLUGGE		500	55 gallon dru	the second se	ums were removed	late
OLW	OLY WASTE					December 2, 198	0.
SOL	SOLVENTS				They were	disposed at SCA-	Model City
PSD	PESTICIDES						
000	OTHER ORGANIC C	HENCALS					
IOC	INORGANIC CHEM	and the second					
ACD	ACIDS						
	BASES						
BAS	HEAVY METALS			1			
	OUS SUBSTANCES des			L			
1 CATEGORY	02 SUBSTANCE		OS CAS HUMBER	O4 STOPAGE/OIS	POSAL METHOD	OS CONCENTRATION	CONCENTRAT
	Unknown						
	UNKNOWN						
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						and the second s	
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	CK\$ (200 Augusta by CA8 ibo						
			02 CAS MUMBER		OI FEEDS	TOCK HAME	02 CAS NUM
V. FEEDSTO			O2 CAS MUMBER		OI FEEDS	TOCK HAME	02 CAS MUM
V. FEEDSTO CATEGORY FDS			02 CAS MUMBER	CATEGORY	OI FEEDS	TOCK NAME	02 CAS HUMB
V. FEEDSTO CATEGORY FDS FDS			02 CAS HUMBER	CATEGORY FDS	01 FEEDS	TOCK HAME	02 CAS NUM
V. FEEDSTO CATEGORY FDS			02 CAS MUMBER	CATEGORY FDS FDS	OI FEEDS	TOCK MAME	O2 CAS MUM

Reference 26

U.S. EPA files

EPA FORM 2070-12 (7-81)

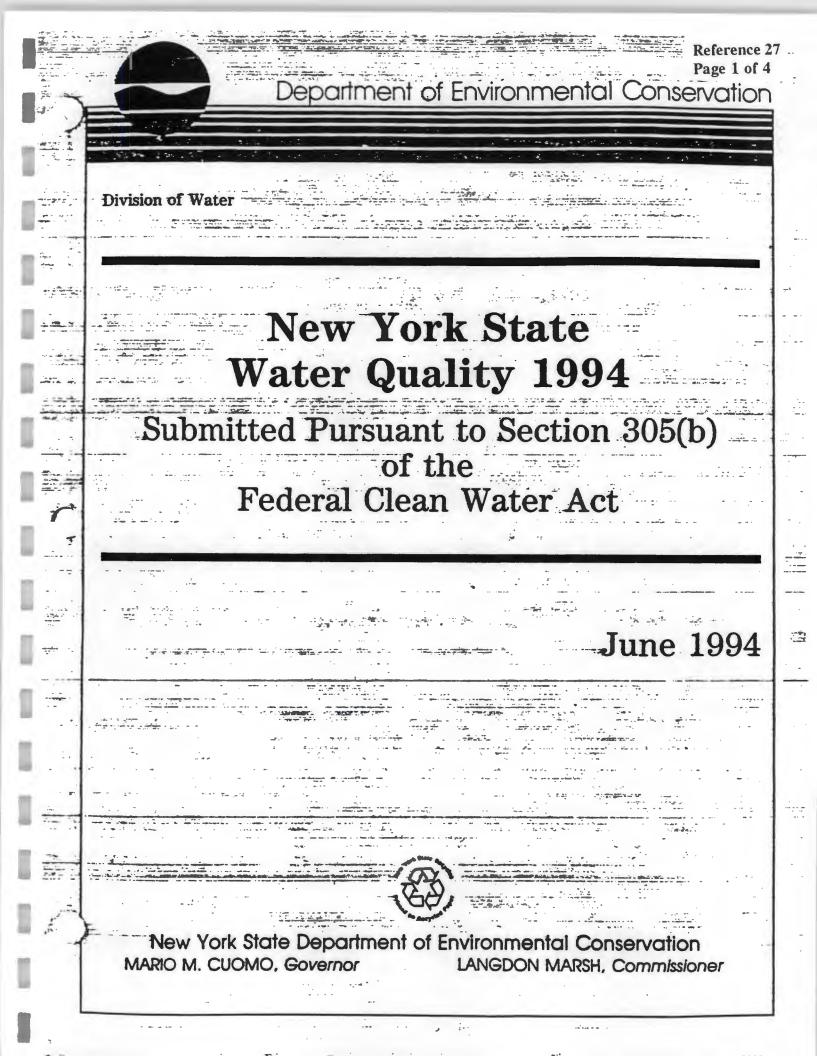
				Pag	ge 6 of 7
	PRELIM	HAZARDOUS WASTE SITE INARY ASSESSMENT AZARDOUS CONDITIONS AND INCIDE	NTS	L IDENTIFIC OI STATE OF N Y N	
HAZARDOUS CONDITIONS AN	D INCIDENTS				
01 CA GROUNDWATER CONTAM 03 POPULATION POTENTIALLY AF Some potential for gro tapping bedrock not th	PECTED: UNKNOWM	02 OBSERVED (DATE:) 04 NARRAITVE DESCRIPTION tion exists, although groundwater tills which would be more accessi	r well	POTENTAL s are belie o contamina	eved to be
01 D B. SURFACE WATER CONTAI 03 POPULATION POTENTIALLY AF	FECTED:	02 (] OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	D	POTENTIAL	O ALLEGED
No potential exists, a	lthough all drums	have been removed from site.			
01 C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AF	FECTED:	02 C OBSERVED (DATE:)	a	POTENTIAL	C ALLEGED
No potential presentl All drums have been r		n June, 1980, faint odors were de	tected	from cert	ain drums.
01 C D. FIRE/EXPLOSIVE CONDIT 03 POPULATION POTENTIALLY AF		02 C) OBSERVED (DATE:) 04 NAPPATIVE DESCRIPTION	C	POTENTIAL	C ALLEGED
No potential exists a	t the present time.	All drums have been removed fr	on sit	.e.	.*
OI D E DIRECT CONTACT OS POPULATION POTENTIALLY AF Site is unoccupied, d		02 OBSERVED (DATE:) 04 NAARATIVE DESCRIPTION oved. Direct contact with waste		POTENTIAL	O ALLEGED
01 & F. CONTAMINATION OF SO 03 AREA POTENTIALLY AFFECTE	0.1	02 () OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	) 0	POTENTIAL	O ALLEGED
		d by the county. Contaminated su	ubsurf	ace soil ma	y still
All visibly contaminat					
All visibly contaminat	MINATION	02 () OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	) (	POTENTIAL	O ALLEGED
All visibly contaminator of D.G. DRINKUNG WATER CONTA 03 POPULATION POTENTIALLY AN No potential for drift in Spring 1980. No	nking water contami organic solvents o	02 () OBSERVED (DATE:	est to	the site w	
All visibly contaminative present. OI D.G. DRINKING WATER CONTA O3 POPULATION POTENTIALLY AN No. potential for driv	nking water contami organic solvents o drock aquifers.	02 CO OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION nation. Five private wells close	est to inking	the site w	were tested
All visibly contaminator or D.G. DRINKING WATER CONTA 03 POPULATION POTENTIALLY AN No potential for drin in Spring 1980. No derived from deep ber 01 D H. WORKER EDPOSUREIN 03 WORKERS POTENTIALLY AFF	AMMATION FFECTED:	02 D OBSERVED (DATE: 04 NARRATIVE DESCRIPTION nation. Five private wells close r heavy metals were detected. Dr 02 D OBSERVED (DATE:	est to inking	the site water is	O ALLEGED were tested
All visibly contaminator pe present. OI D.G. DRINKING WATER CONTA O3 POPULATION POTENTIALLY AN No potential for drin in Spring 1980. No derived from deep ber OI D H. WORKER EDPOSUREIN O3 WORKERS POTENTIALLY AFF	MMMATION FFECTED:	02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION nation. Five private wells close r heavy metals were detected. Dr 02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	est to inking	the site water is	were tested

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Es.		<u>(</u> _;		eference age 7 of
SEPA PART 3-D	POTENTIAL HAZARDOU PRELIMINARY ASSI ESCRIPTION OF HAZARDOUS (	ESSMENT	L'IDENTIFIC	
L HAZARDOUS CONDITIONS AND IN				
01 DE L DAMAGE TO FLORA 04 NAVRATIVE DESCRIPTION	02 🗆 0898	RVED (DATE:)	C POTENTIAL	C ALLEGE
Low potential for damage t	o flora exists via uptake removed. Site is present	from soil of any spil tly half wooded and gr	led contaminants. ass covered.	Visibly
	02 () 0898	RVED (DATE:)		O ALLEGI
No known damage to fauna e	exists.			
01 EL CONTAMINATION OF FOOD CHA	IN 02 () 0896	FIVED (DATE:	B POTENTIAL	C ALLEG
Low potential exists for	contamination of food chai	n via ingestion of veg	getation.	
01 E M. UNSTABLE CONTAINMENT OF		FIVED (DATE:	) E POTENTIAL	
OS POPULATION POTENTIALLY AFFECTE Drums were dumped in a rand some contaminated runoff an	for fashion. Most drums w	nve description ere reported in fair of kage from these drums.	condition althoug	h there w
01 CI N. DAMAGE TO OFFSITE PROPER		ERVED (DATE:		
No damage to offsite prop	erty reported.			
01 [] O. CONTAMINATION OF SEWERS, 04 NARRATIVE DESCRIPTION	STORM DRAINS, WWTPs 02 005	ERVED (DATE:	) CI POTENTIAL	
No potential exists.				
01 (9 P. ILLEGAL/UNAUTHORIZED DUM 04 NARRATIVE DESCRIPTION	PING 02 🗆 0851	ERVED (DATE:	) (2) POTENTIAL	
A potential may exist sin	nce site is unoccupied.			
05 DESCRIPTION OF ANY OTHER KNOW	IN, POTENTIAL, OR ALLEGED HAZARD	23		
None				
IL TOTAL POPULATION POTENTIAL	LY AFFECTED: 100			
IV. COMMENTS	ember 2, 1980, the Oswego	County Health Departm	ent removed appro	ximately
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# Reference 27



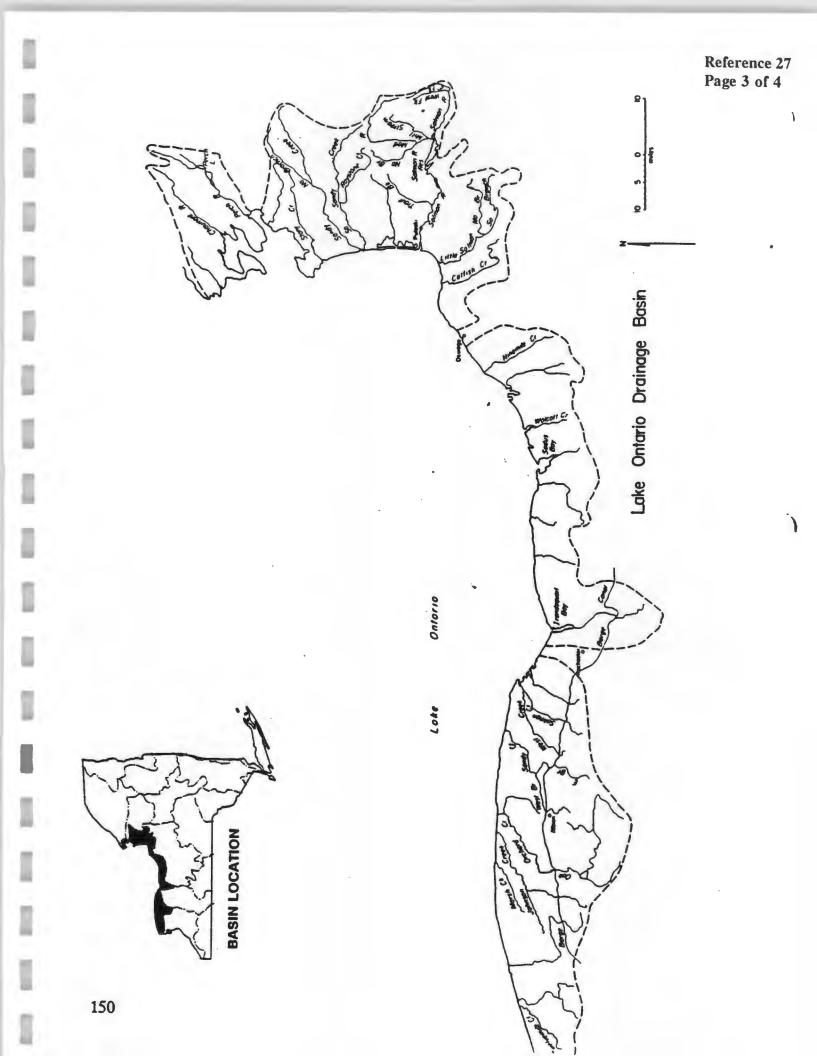
Reference 27 Page 2 of 4

# NEW YORK STATE WATER QUALITY 1994

Submitted Pursuant to Section 305(b) of the Federal Clean Water Act Amendments of 1977 (PL 95-217)

# Prepared by:

Quality Evaluation Section Bureau of Monitoring & Assessment Division of Water New York State Department of Environmental Conservation 50 Wolf Road - Room 328 Albany, N.Y. 12233-3503



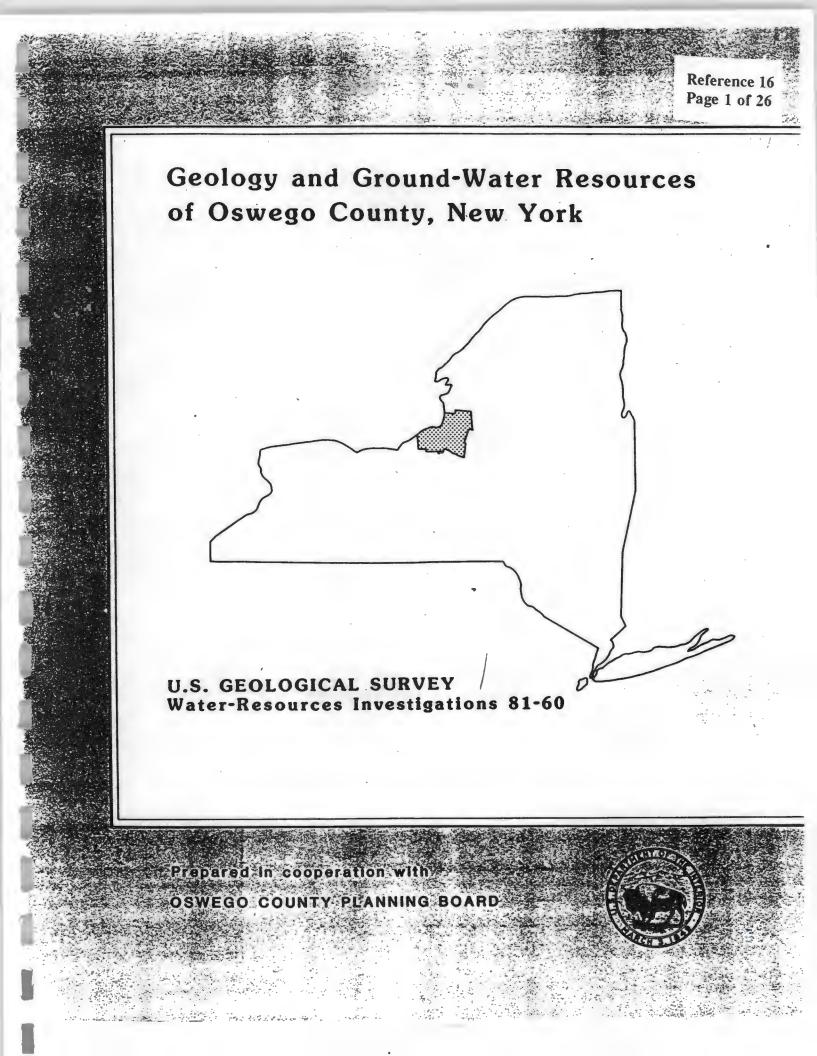
EBASCO SERVICES INCORPORATED **Reference** 14 Page 1 of 1 TELECON NOTE PROJECT: Mirab, to Property & PAS Holbrook TIME: PROJECT NO. 6310,0074 DATE: 13 DEC 94 DISTRIBUTION: File PHONE: OF: BETWEEN: AND: M. Christina DISCUSSION: Call to Oswego County Planners Office (315)349-8292 trea of PAS Holbrook site-No Flood map, Page not Printed, Area in Zone C. No Flood map available. Cull to FEMA, Spoke with Chantel 12/13/94 (800) 358-9616 She confirmed that if the above was on the county Mosiac Map that it is not in a Flood Zone & that no FEMA map is available for the area ACTION ITEMS: EBASCO

Reference 15

	NCORPORATED	Reference 15 Page 1 of 1
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GEOLOGY AND GROUND-WATER RESOURCES OF OSWEGO COUNTY, NEW YORK

By Todd S. Miller

Charles de

Water-Resources Investigations 81-60

Prepared in cooperation with

OSWEGO COUNTY PLANNING BOARD



Ithaca, New York

#### UNITED STATES DEPARTMENT OF THE INTERIOR

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T.

JAMES G. WATT, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For additional information write to:

U.S. Geological Survey 521 W. Seneca Street Ithaca, New York 14850 (607) 272-8722

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#### INTRODUCTION

Oswego County, in north-central New York, has an area of 964 mi<sup>2</sup>. Approximately 70 percent of the county's residents depend on ground water. A thorough knowledge of the local hydrogeology is needed to aid the county in developing and managing its ground-water resources.

#### Purpose and Scope

This report describes the relationship between geology and ground-water occurrence in Oswego County and indicates how much ground water is likely to be available in any given area. It is a companion to a series of 29 maps produced during 1978-80<sup>1</sup> to document the surficial deposits in the county's 29 quadrangles and includes a compilation of data on representative wells in each quadrangle.

#### Methods

Surficial geology and well locations were compiled on the 7.5-minute topographic quadrangle maps cited in the list of references. Well data were collected from well owners, drillers, and public and industrial supply records to document ground-water conditions. Data from selected wells are presented in table 1 (at end of report).

#### Acknowledgments

This study was done in cooperation with the Oswego County Planning Board. Thanks are given to the Oswego County Planning Board, drillers, and individual well owners who provided well information, and to Dr. Ernest H. Muller of Syracuse University for his assistance in mapping and for providing information on geologic conditions.

#### TOPOGRAPHY AND DRAINAGE

Oswego County lies within parts of two physiographic provinces--the Erie-Ontario Plain and the Tug Hill Plateau (fig. 1; also Miller, 1924). The western and central parts (Erie-Ontario Plain) consist of gently rolling hills ranging in altitude<sup>2</sup> from 246 to 600 ft; the northeastern section, which occupies part of the Tug Hill Plateau, slopes northeastward from the former shoreline of proglacial Lake Iroquois at 500 ft to the northeast corner of Oswego County at 1,720 ft (fig. 2). Location of Oswego County in relation to the physiographic provinces of New York State is shown in figure 1.

Glacial deposits overlie most of Oswego County. The Erie-Ontario Plain is characterized by numerous long, parallel, elliptical hills called drumlins; the Tug Hill Plateau contains irregular, low, knobby mounds of ablation moraine overlying drumlins and bedrock.

- 1 Quadrangle maps are listed in references section.
- <sup>2</sup> Altitudes are in feet above National Geodetic Vertical Datum of 1929 (NGVD).

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The entire county lies within the Lake Ontario drainage basin. Stream gradients on the Erie-Ontario Plain are low, but in the Tug Hill region, they range from low to steep. Major factors that control the direction of streamflow are the regional bedrock slope toward Lake Ontario and orientation of the drumlins.

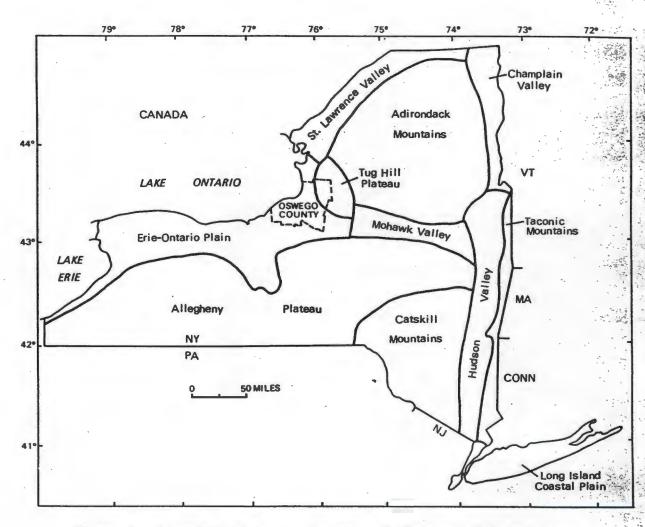
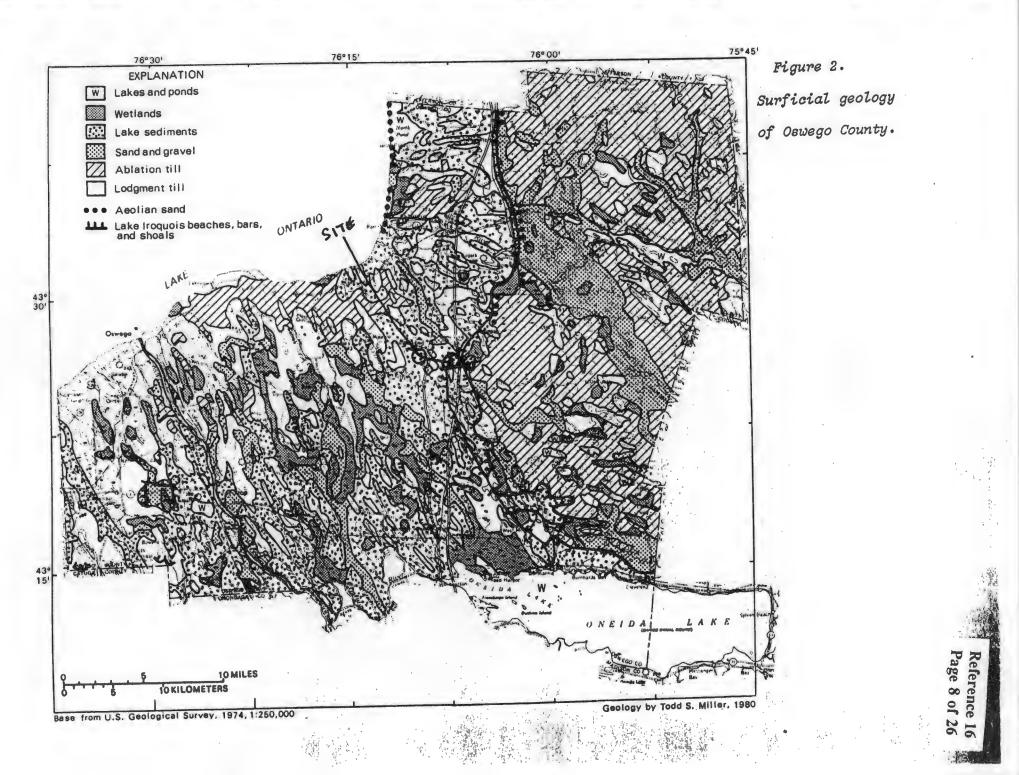


Figure 1.--Location of Oswego County and physiographic provinces of New York (Modified from Miller, 1924.)

#### GEOLOGY

Unconsolidated Quaternary sediments, deposited during and after the last glaciation (Wisconsinan), overlie most of the bedrock surface (fig. 2). Some bedrock is exposed where erosion has removed the overlying glacial sediments along segments of the Lake Ontario shoreline, in glacial meltwater channels on the Tug Hill Plateau, and in some channels of present drainage systems. These exposures indicate that the bedrock surface has a low and gently undulating relief in the Erie-Ontario Plain and a gently sloping surface with many deep ravines incised by glacial meltwater on the Tug Hill Plateau.



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Glacial deposits consist of lodgment and ablation tills; kame, esker, outwash, beach and wave-delta sand and gravels; and proglacial lake deposits of fine sand, silt, and clay. End or recessional moraines deposited at the ice front form arcuate ridges consisting of ablation and lodgment tills. Ground moraine consisting predominantly of lodgment till but commonly having a veneer of ablation till at the surface forms drumlins. The origin of selected types of glacial deposits is depicted in the geologic section in figure 3; the distribution of these deposits is shown in figure 2. The surficial geology is shown in greater detail in the 29 quadrangle maps prepared during this study. (See list of references.)

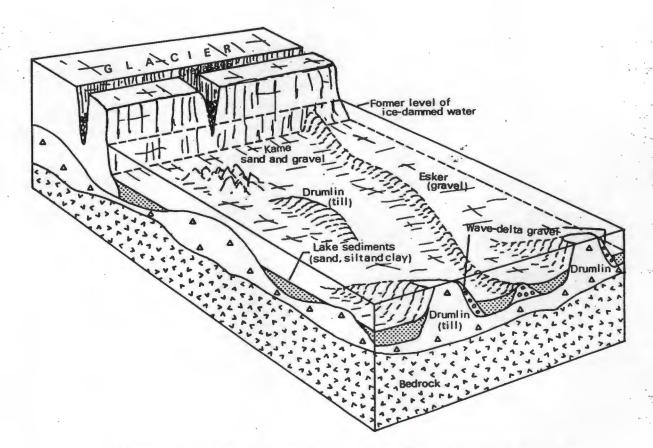
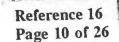


Figure 3.--Mode of deposition of common glacial deposits.

#### Bedrock

The bedrock consists of nearly flat-lying Ordovician and Silurian sedimentary formations that were deposited in marine and terrestrial environments 400 to 500 million years ago (Broughton and others, 1970). Older formations of Late Ordovician age crop out in northern Oswego County, and successively younger formations are exposed from there southward (figs. 4, 5). The younger rock units overlie the older units so that the age of units increases with depth. Bedrock dips to the southwest at approximately 50 ft/mi. A section of the bedrock formations is shown in figure 4.



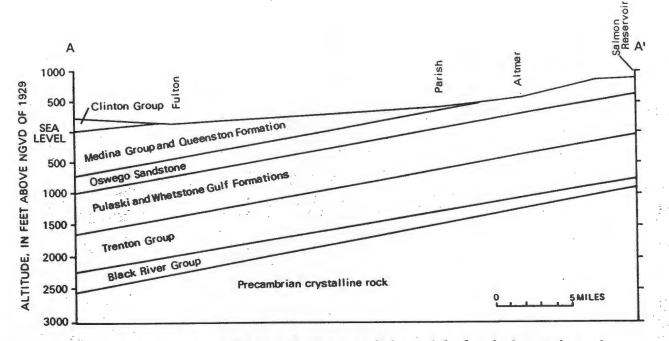


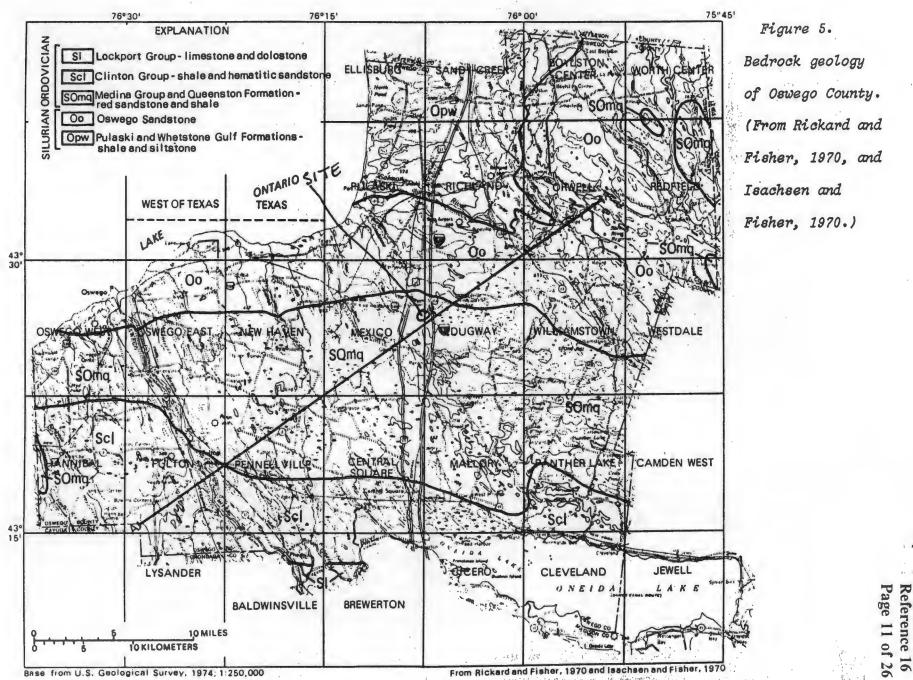
Figure 4.--Section showing relative position of bedrock formations in Oswego County. Location of section is shown in figure 5.

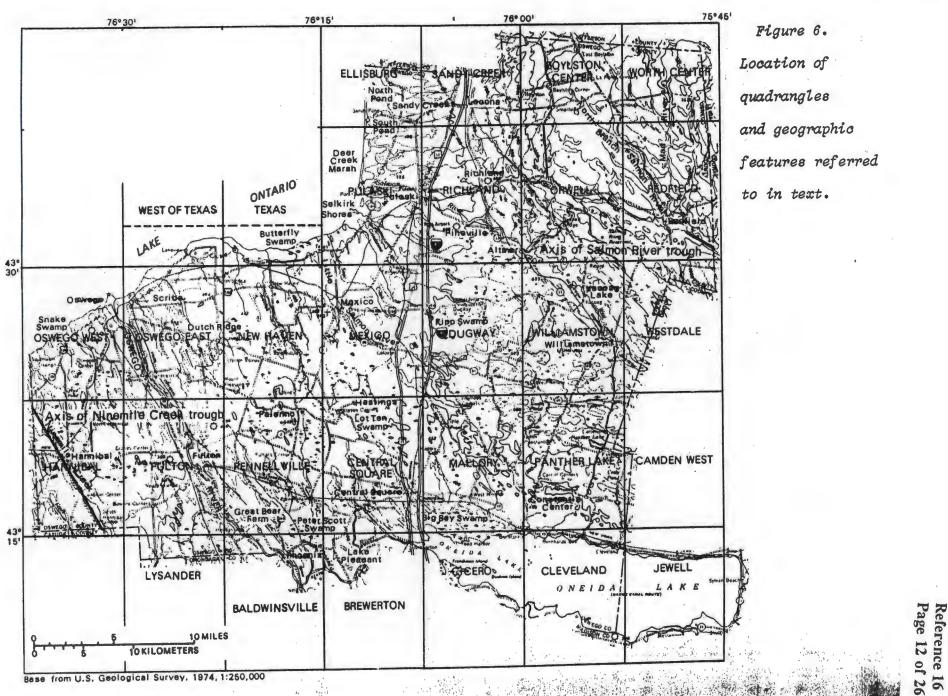
The oldest exposed formations are the fossiliferous Pulaski Formation and the Whetstone Gulf Formation (the local name), which grade upward from predominantly shale in the Whetstone Gulf and lower part of the Pulaski to siltstone in the upper part of the Pulaski (figs. 4 and 5). The overlying Oswego Sandstone grades upward from shale to very fine-grained sandstone in the lower part to fine-grained sandstone in the upper part.

The Queenston Formation and Medina Group (designated Albion Group by the U.S. Geological Survey) are commonly mapped together because they are difficult to differentiate. Both contain red shale, siltstone, and sandstone, and both were deposited under tidal flat and deltaic conditions (Patchen, 1978 p. 368). Exposure of Queenston and Medina sediments to an aerobic environment allowed iron to oxidize and produced the red color. Together the Pulaski, Oswego, and Queenston sequence represents the Queenston Delta, which extended westward from the ancient Taconic Mountains in the eastern part of New York State (fig. 1), the source of sediment for these formations.

Overlying and cropping out south of the Queenston-Medina sequence is the Clinton Group (figs. 4 and 5), which consists of green and gray marine sandstone, siltstone, shale, and hematitic limestone. The Clinton rocks are the youngest in the county.

Two significant bedrock troughs have been noted--the Salmon River trough near the village of Redfield and the Ninemile Creek trough west of the village of Hannibal (fig. 6). These troughs are preglacial valleys that were aligned in the direction of glacier flow and extensively scoured. These troughs are typically U-shaped and contain varying amounts of drift.





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#### Surficial Geology

The unconsolidated materials that cover the bedrock were deposited during and after the advance of Pleistocene ice sheets. The common types of deposits and their mode of formation are described in the paragraphs that follow.

#### Lodgment Till

Lodgment till was deposited beneath the advancing glacier and consists of 'poorly sorted sediments ranging in size from clay to boulders. This compact material was compressed beneath the advancing ice and is typically dense, firm, and relatively impermeable. Lodgment till contains pebbles and cobbles alined in the direction of glacier flow and, when exposed to air, developes a platy structure.

Typically at least 80 percent of the material that forms lodgment till is derived from local bedrock. For example, in the northern part of the county, till overlying the green Oswego Sandstone is olive green, and in the southern part of the county, till overlying red sandstones has a characteristic red color. Particle-size analyses by Soloman (1974) of till matrix from the Lake Ontario shore west of the city of Oswego revealed nearly equal proportions of sand and silt (45 percent each) and about 10 percent clay.

Lodgment till forms most of the 20- to 150-ft high drumlins that dominate the topography. The main axis of drumlins is aligned with the direction of glacier flow (south to southeastward). Their lower parts are commonly covered with lake sediments or wetlands.

### Ablation Till

Ablation till is drift that was carried on top of or within a glacier and was deposited as the ice melted. Ablation till in Oswego County consists of poorly sorted material ranging in size from silt to boulders and tends to be coarser, looser, and more permeable than lodgment till. Stones tend to be broken by frost action and are more angular than those in lodgment till. Till fabric or structure is absent except in local patches of stratified drift showing evidence of washing.

An extensive blanket of ablation moraine overlying lodgment till or bedrock covers a large part of the Tug Hill Plateau and the region just south of it (fig. 2). Till in this region has a silty sand matrix with pebbles and cobbles. Land surface of the Tug Hill area is characterized by a blanket of irregular knobs that are in places aligned in arcuate ridges that mark temporary standstills of the ice front.

Ablation till forms the end moraine in the Texas and West of Texas quadrangles and the northern parts of the Oswego East, New Haven, and Mexico quadrangles (fig. 6). Till in this moraine contains large blocks of Oswego Sandstone and forms well-defined, arcuate, knobby ridges that reflect former ice-margin positions. This belt of ablation till is the result of a minor glacial readvance. Elsewhere, ablation till is present only in small patches of irregular relief.

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#### Sand and Gravel

Sand is detrital material ranging from 0.005 to 0.08 inches in diameter; gravel is made up of particles ranging from 0.08 to 3.0 inches in diameter. Sand and gravel have a high porosity and are unconsolidated except where secondary calcite in ground water has cemented the grains.

In the western and central parts of the county, sand and gravel occurs in irregular patches of conical mounds or as long, sinuous deposits; in the east it occurs as linear deposits and as wide belts (fig. 2). In the detailed quadrangle maps cited in the list of references, sand and gravel deposits are differentiated according to mode of deposition; these forms include kame and esker, outwash, beach, wave-delta, delta, and aeolian deposits. Each of these is described in paragraphs that follow.

Kames and eskers.--Crevasses and openings in a glacier that became filled with sediment left conical mounds of stratified sand and gravel when the ice melted. Such deposits, known as kames, may consist of sand, gravel, or both. When sediments were deposited in streams flowing in subglacial tunnels, they formed long, sinuous ridges called eskers.

Significant kame deposits occur near Fulton in Fulton quadrangle, at Great Bear Farm in Pennelville quadrangle, near Lake Pleasant in Brewerton quadrangle, in areas south and east of Mexico in Mexico quadrangle, at Hastings in Central Square quadrangle, at the eastern margin of Central Square quadrangle, near Constantia Center in Panther Lake quadrangle, and southeast of Redfield in Redfield quadrangle (fig. 6). The largest esker-kame deposit forms a part of a sand and gravel complex also consisting of outwash, beach, and aeolian sediments that extends from Lacona to Williamstown (fig. 2). The Lacona-Williamstown deposit is 20 mi long, 0.5 to 3 mi wide, and 10 to 85 ft thick. This deposit was formed by ice-contact sediments accumulating at a stagnant ice front and by outwash and beach deposition. Sand and gravel deposits accumulated until the glacier's melting rate exceeded its rate of advance and the ice front retreated to the northwest. Smaller kame deposits are common throughout Oswego County.

Most of the kame deposits are associated with eskers. Glacial streams channeled sediment-laden meltwater on top of and within the ice southeastward to the ice margin. In the central part of the county, where subglacial tunnels connected with subglacial caverns, many eskers are associated with large kame deposits.

Also associated with kame deposits are bowl-shaped depressions called kettles, generally 10 to 25 ft deep, which were formed by the melting of buried or isolated ice blocks. When these depressions filled with water, they formed kettle lakes, of which Kasoag Lake in Williamstown quadrangle (fig. 6) is an example.

Outwash.--Stratified sand and gravel deposited by glacial meltwater beyond the ice front is known as outwash. Outwash that was deposited close to the ice front consists of coarse sand and gravel that could not be moved readily; the material at greater distances grades into progressively finer grained deposits. Outwash deposits typically form plains and valley trains having relatively flat surfaces that slope gently away from the former ice front. Because outwash is formed by fluvial processes, it is uncommon in the western and central parts of Oswego County, which were inundated by proglacial Lake Iroquois (fig. 2) below 480 to 500 ft. One end moraine with an associated outwash plain, 1.5 mi east of Scriba in the Oswego East quadrangle (fig. 6), was just above lake level.

On the west margin of the Tug Hill Plateau, which was above Lake Iroquois, ice-marginal streams along the east edge of the retreating Ontario ice lobe deposited much outwash. Meltwater streams flowing south and southwestward along the ice margin carved deep incisions into bedrock and lodgment till and deposited sediments where stream gradients decreased. Outwash deposits left by ice-marginal meltwaters are visible along the west margin of the Tug Hill Plateau in the Sandy Creek, Boylston Center, Redfield, Richland, and Orwell quadrangles (fig. 2). (See also maps cited in list of references.)

The largest outwash deposit is in the preglacial valley of North Branch Salmon River in the Tug Hill Plateau (fig. 6). This valley was parallel to the direction of ice flow and thus received meltwaters carrying outwash for a longer time than the numerous short-lived, ice-marginal meltwaters.

Beaches, bars, and shoals.--Prominent beaches, bars, and shoals developed approximately 12,000 years ago along the shore of proglacial Lake Iroquois, which inundated most of western and central Oswego County. This lake formed in a basin in front of the glacier when the meltwater outlets were dammed by ice and topographic obstructions. Locations of major beaches, bars, and shoals are shown in figure 2; the Lake Iroquois beach roughly parallels the boundary between the Erie-Ontario Plain and Tug Hill Plateau (fig. 1).

In southern Oswego County, features created or modified by wave action, such as beaches, sea cliffs, and wave-cut drumlins, indicate that Lake Iroquois reached a maximum altitude of 480 to 500 ft. The beach rises northward at approximately 4 ft/mi; this rise is attributed to progressively greater crustal rebound to the north after removal of the ice load (Flint, 1971).

The Lake Iroquois beach from Lacona to Pineville (figs. 2 and 6) is exceptionally wide because large quantities of outwash sediments from the Tug Hill Plateau were being deposited in the lake, where they became reworked by wave action to form the beach.

In central and western Oswego County, less prominent shore features at altitudes of 430 to 460 ft, 415 to 425 ft, and 390 to 400 ft (Wright, 1973) represent lower substages of Lake Iroquois. These substages are indicated mainly by flattened drumlin tops, as depicted in figure 3. Dutch Ridge, in Oswego West quadrangle (fig. 6), is a typical drumlin whose top has been eroded to a flat surface (altitude 430 ft). Sutton and others (1972) identified four other post-Iroquois standstills in the coastal area of the eastern Ontario basin at elevations of 290 to 300 ft, 255 ft, and 215 ft. During one stage, the Dune stage (altitude 215 ft), when Lake Ontario was 30 ft lower than its present level, a wide beach developed that provided enough sand for dunes to form on the east side of the beach. These dunes are now partly inundated by Lake Ontario and form barrier beaches along the eastern Lake Ontario shore at North and South Ponds and Deer Creek Marsh (fig. 6).

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Recent beach deposits of Lake Ontario between Oswego County's western boundary and the mouth of Little Salmon River (fig. 6) consist of a coarse cobble gravel with intervening sea cliffs cut into drumlins or bedrock. A sandy beach formed by the reworking of dune sand has developed from the mouth of Little Salmon River to the northern border of the county.

<u>Wave-delta deposits.</u>--Waves on Lake Iroquois, its substages, and other postglacial lakes have eroded the tops of drumlins to altitudes corresponding with lake levels and deposited stratified sand and gravel on the lee side. The presence of gravel on only the east flanks of drumlins indicates that currents flowed from west to east. As a result of winnowing, or separation of fine particles from coarser ones by wave action, a lag of boulders remains on top of the flat-topped drumlins. Wave-delta deposits are found along drumlins in the western and central part of the county. Figure 7 shows an east-west crosssectional view through drumlin, beach, and wave-delta deposits.

Delta deposits.--The delta deposits consist of sediment deposited by meltwater flowing into Lake Iroquois from the Tug Hill Plateau. Coarse stratified sand and gravel was deposited near stream mouths, and finer material was deposited farther out in the lake. A major delta deposit is found near Pineville in Richland quadrangle (fig. 6), where Salmon River flowed into Lake Iroquois.

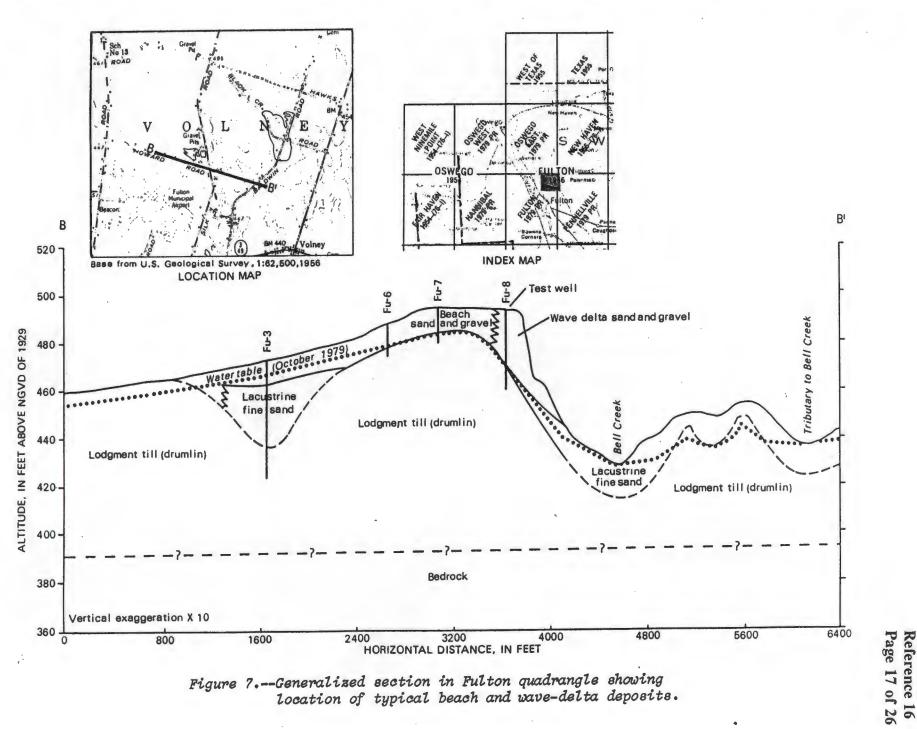
#### Lake Sediments

Lake sediments, also called lacustrine sediments, are deposits of sand, silt, and clay that settled out of suspension in lakes. The sediments of former Lake Iroquois are the most widespread type of surficial deposits in western and central Oswego County (fig. 2). Sand, silt, and clay blanketed the interdrumlin lowlands, the areas offshore from the postglacial beaches, and the mouths of streams that drained the Tug Hill Plateau into Lake Iroquois. The lake sediments generally overlie lodgment till or kame deposits.

Lake currents kept the tops of inundated drumlins free of fine sediment, but fine sand accumulated on their lower flanks. This material grades into finer particles of sand, silt, and clay toward the center of interdrumlin lowlands. A typical interdrumlin deposit is depicted in figure 8. Fine sand predominates just offshore from former high-energy environments such as beaches and deltas; deposits of finer particles consisting of silt and clay formed in the quieter water farther offshore.

#### Aeolian Sand

Lowering of lake levels exposed sand deposits to the wind until vegetation was reestablished. Aeolian sand formed dunes on the landward side of the Lake Iroquois beach from Lacona to Altmar (figs. 2, 6) and mantled the windward side of drumlins, ablation moraine, and kame deposits downwind adjacent to the beach. Sand dunes have also collected along the east shore of Lake Ontario from Selkirk Shores to North Pond (figs. 2, 6).



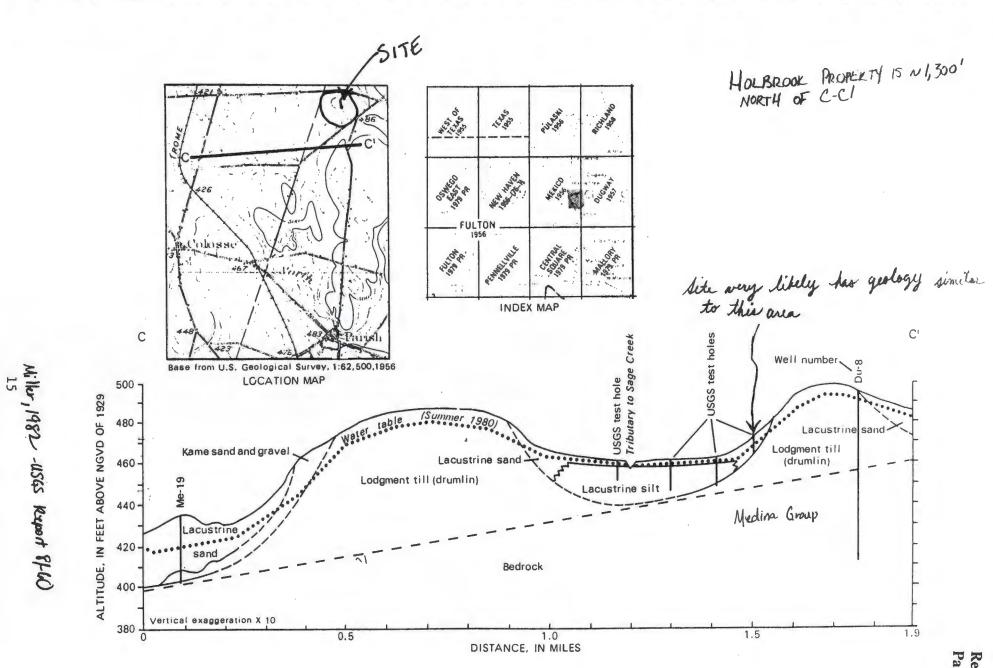


Figure 8.--Cross section of typical drumlin and interdrumlin deposits.

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#### Holocene Deposits

Wetlands.--Oswego County contains hundreds of wetlands, most of which formed during deglaciation, when drainage in low areas became blocked by glacial debris. Wetlands consist of shallow stagnant water, organic material, marl, peat, and muck. Many of the wetlands have been drained for agricultural use during the last two decades.

In the western and central parts of the county, wetlands commonly formed in swales, or depressions between drumlins, when the outlets were dammed by kame moraine, esker, beach, or ablation till deposits. The wetlands southeast of Palermo in Pennellville quadrangle (fig. 6) were created by esker and kame dams, and Kipp Swamp in Dugway quadrangle (fig. 6) formed behind a Lake Iroquois sand bar. Other wetland remnants of Lake Iroquois are Peter Scott swamp in Baldwinsville quadrangle, Big Bay swamp in Mallory quadrangle, and Lot Ten swamp in Mexico quadrangle (fig. 6). Wetlands also formed in former estuaries along Lake Ontario when the lake level rose in response to uplift of the St. Lawrence River outlet (Flint, 1971). Examples of estuary wetlands are Deer Creek marsh in Pulaski quadrangle, Butterfly swamp in Texas quadrangle, and Snake swamp in Oswego West quandrangle (fig. 6).

In the Tug Hill region, wetland formation has been categorized into six types (Jordan, 1978): intramorainal basins, basins related to stratified drift (such as those formed in kettle depressions), interdrumlin basins, bedrock basins, meltwater-channel basins, and large wetland basins (either intramoraine or interdrumlin). The most extensive type of wetland in the Tug Hill region is the intramoraine basin; these wetlands occupy isolated basins that formed between irregular ablation and recessional-moraine zones.

<u>Alluvium.--Alluvium is significant only in the channel of the Salmon River</u> in the reach from Altmar to Pulaski. In other streams, little alluvium has accumulated since postglacial time. Even along the county's largest waterway, the Oswego River, alluvial deposits are absent; this is attributed to gradual erosion.

# GROUND-WATER OCCURRENCE

Ground water is available in most of the county and may be obtained from both bedrock and glacial deposits. Generally, larger water supplies can be obtained from sand and gravel deposits, less from bedrock, and the least from till or silt and clay deposits. Quantities obtainable from properly developed wells range from 0.25 gal/min in till or bedrock units to more than 1,000 gal/min in outwash sand and gravel.

In unconsolidated deposits, water is stored in the openings (pore space) between particles. The amount of pore space (porosity) determines the amount of water that can be stored but not how much can be withdrawn. The amount of water that an aquifer releases from storage is called specific yield. Coarse, wellsorted material such as gravel has high porosity and high specific yield; mixed deposits such as silt and gravel have low porosity and low specific yield, and well-sorted fine particles such as clay have high porosity but low specific yield.

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The ground water is replenished by rain and snowmelt infiltrating through the soil to the saturated zone (water table) and moves downgradient from recharge areas to discharge areas such as streams, lakes, and wetlands. In recharge areas, annual water-level fluctuations are greater (5 to 25 ft) than in low discharge areas, where fluctuations are generally less than 10 ft.

The water table in unconsolidated deposits roughly parallels the land surface and is generally 5 to 30 ft beneath it. The general direction of groundwater movement in bedrock is toward Lake Ontario (Kantrowitz, 1970). Table 1 (at end of report) presents well data and ground-water levels in selected wells.

#### Bedrock

The bedrock is made up of sedimentary rocks in which secondary cementation has closed most of the original intergranular pore space. The total volume of openings in such material seldom exceeds 5 percent. However, bedrock typically contains numerous fractures through which water can move freely, and wells tapping bedrock can draw water from these fractures.

Because fracturing generally decreases with depth, water is obtained principally from the upper levels of a bedrock unit. Fracturing, rather than rock type, is the controlling factor in the water-producing capacity of bedrock. Yields of bedrock wells range from 1 to 125 gal/min, but most average 10 gal/min. Most bedrock is overlain by relatively impermeable lodgment till, which acts as a confining layer, so that water in bedrock is commonly under artesian pressure. Water levels in many wells penetrating bedrock rise above bedrock surface in response to water pressure in the formation. Bedrock units generally provide water adequate for domestic, small farm, and commercial use.

Regional ground-water flow in bedrock is northward to Lake Ontario. Recharge occurs from water infiltration through the overburden and possibly from ground water originating in the Finger Lakes region to the south. Ground water moving toward Lake Ontario becomes brackish as it dissolved materials from the rock, including salts of Silurian evaporite beds (Kantrowitz, 1970).

Chemical quality of water in bedrock depends on the depth of well penetration and rock type. Generally, ground water more than 100 ft below land surface is brackish, whereas ground water above that depth is less mineralized.

In the upper 100 ft of the Oswego Sandstone (figs. 4 and 5), the water is generally of suitable quality for drinking; water from the Queenston-Medina sequence contains some iron, and water from the Clinton Group contains salt, iron, and hydrogen sulfide.

#### Lodgment Till

Lodgment till, with its compactness and poorly sorted matrix of clay, silt, and sand surrounding pebble- to boulder-size material, has a low porosity and low specific yield and therefore does not yield water readily. However, these deposits can generally supply domestic and small farm needs if largediameter dug wells are installed. Dug wells are typically 3 ft in diameter and

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10 to 20 ft deep. Dug wells are successful because they provide a large surface area from which water may drain slowly from the till, and they also provide considerable storage capacity. Sustained yields of a dug well in lodgment till ranges from about 0.25 to 1 gal/min., but, because of the well's large storage capacity, it can be pumped at 10 gal/min for about 30 minutes before becoming dry. It would take 5 to 20 hours for the well to refill.

Movement of water through lodgment till is slow. As an example, water in a till with a silty sand matrix could move about 3.6 ft/yr. The velocity is estimated to be 0.01 ft/d from a hydraulic conductivity of 0.1 ft/d, a hydraulic gradient of 3 ft (vertical) per 100 ft (horizontal), and a porosity of 0.3. The water table in lodgment till roughly parallels land surface. Depth to water typically ranges from 5 to 20 ft.

### Ablation Till

Ablation till is generally too thin and too impermeable to yield large quantities of water but, as a result of its higher sand content and less compact nature, it will yield slightly more water than lodgment till. Thickness typically ranges from 1 to 25 ft. Many areas of ablation till may be seasonally saturated. Ablation till provides sufficient water for domestic and small farm use, generally through dug wells.

# Lake Sediments

Lake deposits are composed of sand, silt, and clay. Sand and silty sand are somewhat permeable and may yield low to moderate amounts of water to wells, but silt and clay are virtually impermeable and are the poorest aquifers in the county. Although silt and clay are porous, the stored water is held as a film by surface tension around the particles, so that water yield is low. In areas of silt and clay, wells must be drilled into an underlying, more permeable, unit such as bedrock.

Well-sorted sand having little or no silt could yield as much as 50 gal/min to wells. The higher the silt content, the poorer the yield. Lake deposits are prevalent in lowlands, where the water table is generally less than 10 ft below land surface and undergoes annual fluctuations of less than 6 ft. Dug and drilled wells can yield water sufficient for domestic and farm use. Dug wells are typically constructed in the late summer or early fall, when water levels are lowest and wells can be dug the deepest.

Assuming a ground-water gradient common to lowlands of 1 ft (vertical) to 100 ft (horizontal) and a porosity of 35 percent, ground-water movement in fine sand is estimated to be 30 ft/yr, and in clayey silt 0.001 ft/yr.

# Aeolian Sand

Sand dunes on the east side of former Lake Iroquois beach are either too thin to yield water or are above the water table, but they serve as recharge areas to the Lacona-Williamstown aquifer (fig. 2). Dunes along the eastern

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Ontario shore from Selkirk to North Pond (figs. 2, 6) yield moderate amounts of water, but excessive withdrawal may induce water of poor quality from Lake Ontario or adjacent swamps.

#### Wetlands

Water from wetlands is typically unsuitable for drinking and domestic use because it may contain relatively high concentrations of iron and decaying organic material. However, wetlands play an important role in the environment by retaining pollutants, storing water during floods, and providing wildlife habitat. Wetlands are generally ground-water discharge areas, and the water level in wetlands commonly represents the water table.

#### Sand and Gravel

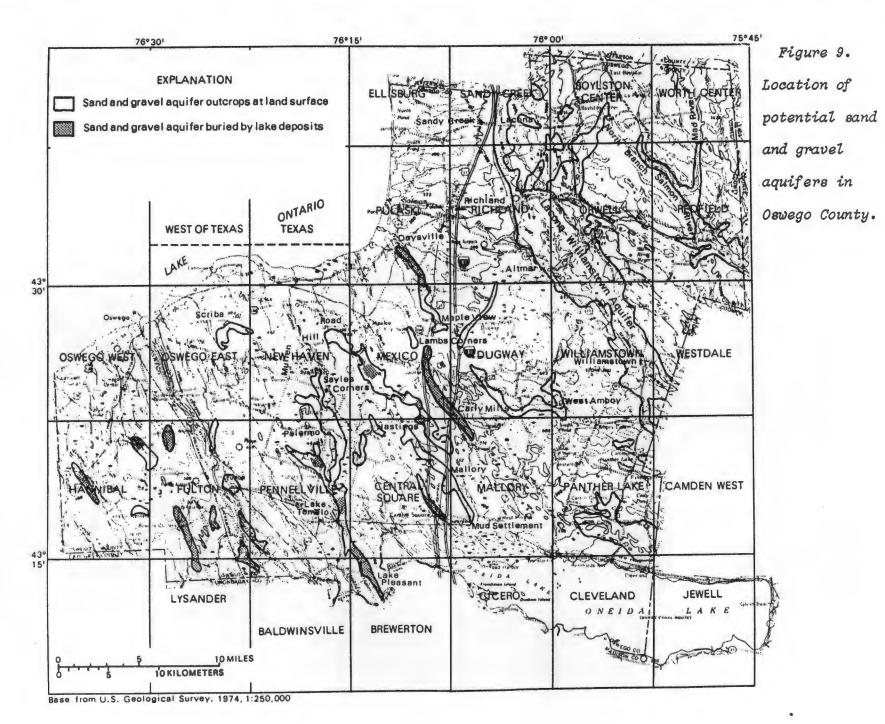
Sand and gravel deposits such as outwash, beaches, kame moraines, and esker-moraine complexes have the greatest potential for ground-water development. These deposits have high porosity and yield large amounts of water to properly constructed wells. Potential well yields range from 50 to 1,500 gal/min.

Most of the townships are underlain by some sand and gravel deposits. Deposits may be at land surface or partly or entirely buried beneath finegrained lacustrine deposits. The maximum thickness shown in well logs was 125 ft at Great Bear Farm in Pennellville quadrangle (fig. 6); elsewhere, average thickness is generally 25 to 50 ft. Thin deposits (5 to 25 ft thick) in topographic highs are usually unsaturated or only seasonally saturated and are not reliable water sources. Useful sand and gravel aquifers are either in topographic lows or are of sufficient thickness to extend tens of feet below the water table. The locations of potential sand and gravel aquifers in Oswego County are shown in figure 9.

The largest sand and gravel aquifer is a beach, outwash, and esker-kame moraine complex extending as a belt from the northern county border north of Lacona to the eastern boundary 2 mi east of Williamstown (fig. 9). The Lacona-Williamstown aquifer is 20 mi long and ranges in width from 0.5 to 3 mi. It is widest near Altmar. Thickness ranges from 10 to 85 ft.

The Lacona-Williamstown aquifer is tapped by three significant well fields; one is owned by the villages of Sandy Creek and Lacona, one by a paper company near Richland, and the other by a State fish hatchery near Altmar. Two wells 1.5 mi north of Lacona (SC-5 and SC-7, table 1) supply Sandy Creek and Lacona. These wells tap a beach deposit about 30 ft thick; their yields are reported to range from 200 to 400 gal/min each.

The paper company's well field at Richland (fig. 6) taps beach and kame moraine deposits; the 12-inch diameter wells (Ri-11 and Ri-13, table 1) are reported to yield 800 gal/min each. Water levels during spring are generally 8 to 10 ft below land surface and decline 25 to 30 ft in late fall. Water quality meets U.S. Environmental Protection Agency drinking standards; hardness ranges from 100 to 200 mg/L.



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The State fish hatchery near Altmar (fig. 9) contains 25 test wells and several production wells that tap a kame moraine deposit. Sand and gravel ranges in thickness from 30 to 85 ft and overlies bedrock and till. Results of five pumping tests (Irving, 1975) indicate that specific capacity (rate of discharge from well per unit of drawdown) ranged from 5.5 to 30 gal/min per ft of drawdown, and transmissivity (rate at which water flows through a unit width of the aquifer under a unit hydraulic gradient) ranged from 60,000 to 100,000 (gal/d)/ft. Well yields ranged from 100 to 400 gal/min.

The valley of the North Branch Salmon River (fig. 9) contains an outwash deposit 6 mi long and about 0.25 mi wide. This aquifer extends another 2 mi eastward into Lewis County as a kame moraine plug in the Salmon River trough. The deposit is thickest where the Mad River, the largest ice margin channel of Oswego County, deposited its sediment load at the confluence of the North Branch Salmon River and Mad River valleys.

Areally extensive but thin (10 to 30 ft thick) outwash aquifers line the west flank of the Tug Hill Plateau. These aquifers are common in Boylston Center, Richland, and Orwell quadrangles (fig. 6), but relatively little hydrologic data are available from these areas.

In the Tug Hill region, most beach and outwash aquifers are in hydraulic contact with streams, and a large percentage of water withdrawn from wells may be induced from these streams. As a result, the wells may be shallow and inexpensive to operate, but the quality of water from such wells is similar to that in the streams. The quality of ground water in the Tug Hill region is generally good. Results of 25 shallow ground-water samples collected and analyzed by U.S. Geological Survey, Oswego County Health Department, and engineering consultants revealed a range of hardness of 60 to 200 mg/L, with 150 mg/L the average, and a range of chloride from 2 to 19 mg/L, with 7 mg/L the average. Because the Tug Hill region is sparsely populated and virtually unindustrialized, the streams and ground water are not subject to significant contamination.

In the central and western part of the county, sand and gravel aquifers consist of kame and kame-esker deposits. Beach and wave-delta deposits in this region are generally unsuitable as aquifers because they are weakly developed or are on topographic highs above the water table. Except for a small area near Scriba (fig. 9), the region contains few outwash deposits because it was inundated by proglacial Lake Iroquois.

Discontinuous kame aquifers are common near Fulton and in the southern part of Fulton quadrangle (fig. 9). Lacustrine sand mantles some of the deposits so that their extent can be determined only from test drilling. Fulton obtains its water supply from kame deposits adjacent to Lake Neahtahwanta, along the east bank of the Oswego River, and at Great Bear Farm (fig. 6). Wells at Great Bear Farm range from 67 to 125 ft in depth and yield 100 to 600 gal/min (Geraghty and Miller, 1967). Wells along the Oswego River south of Fulton are about 40 ft deep and yield 200 to 400 gal/min (Barton, Brown, Clyde and Loguidice, 1967). Water levels and water quality at Great Bear Farm wells indicate that the Oswego River is far enough downgradient from pumping wells that river water is not induced into the wells. Chemical quality of water from the other wells close to the Oswego River (within 200 ft) suggests that the well field south of Fulton may be inducing recharge from the river. The central part of the county contains many small, irregularly distributed kame deposits. These are shown on the 7.5-minute quadrangles cited in the list of references but are too small to be plotted in figure 9. Small deposits may yield enough water for domestic, farm, and small municipal uses. The villages of Hannibal and Central Square obtain water from deposits of this type.

Several esker-kame deposits extend diagonally across central Oswego county from northwest to southeast (fig. 9; detailed maps showing the location of these deposits are cited in the list of references). The larger belts extend (1) from " Sayles Corners through Palermo and through Lake Temalo to Lake Pleasant in Pennellville, Central Square, and Brewerton quadrangles; (2) from Mullen Hill Road at the east border of New Haven quadrangle past and 1.5 mi south of Mexico through Hastings and Mallory to Mud Settlement in Mallory quadrangle; (3) from Lamb's Corners through Carly Mills in Mexico and Mallory quadrangles; (4) from Daysville to Maple View in Pulaski and Mexico quadrangles; and (5) from Parish Center to West Amboy in Dugway and Williamstown quadrangles.

Most esker-kame deposits are poorly defined because they are partly covered by lacustrine deposits, are discontinuous, and have irregular physical characteristics such as varying thickness and width. Little hydrologic data on these deposits are available.

Several communities in Oswego County obtain water from the esker-kame deposits; among them are Phoenix, Mexico, and Central Square (fig: 9). Two Phoenix wells (Br-1 and Br-2, table 1), 1 mi northwest of Lake Pleasant, have reported yields of 700 and 400 gal/min., respectively. Two Mexico wells, about 1.5 mi south of the village, yield 225 and 340 gal/min. The transmissivity of this aquifer is 80,000 (gal/d)/ft (Andrews, 1957).

### SUMMARY AND CONCLUSIONS

Glacial sediments and marshes constitute most of the surface of Oswego County, which has few bedrock outcrops. Lodgment till in the form of drumlins and lake deposits is the most common type of deposit in the central and western part of the county; ablation till overlying lodgment till is the most common type on the Tug Hill Plateau. Extensive kame, outwash, and beach sand and gravel deposits are numerous along the west margin of the Tug Hill Plateau; small, patchy kame and beach deposits are common in the western and central regions. Bedrock consists of nearly flat-lying shale, siltstone, and sandstone.

The principal aquifers are kame, esker-kame, beach, and outwash deposits consisting of sand and gravel. Outwash aquifers are the most common type in the Tug Hill region, whereas kame, esker-kame, and beach aquifers predominate elsewhere. The largest sand and gravel aquifer is the Lacona-Williamstown aquifer, which is 20 mi long, 0.5 to 3 mi wide and 10 to 85 ft thick, and yields from 200 to 800 gal/min.

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Ground water is available everywhere in quantities generally sufficient for domestic and farm use and, in some areas, in quantities sufficient for municipal and industrial supplies. Bedrock, lodgment till, ablation till, and lacustrine sand can yield sufficient quantities of water for farm and domestic use. In bedrock, the extent of fracture development rather than rock type is the major factor affecting water yield. Large-diameter dug wells are the only type that can obtain sufficient water from lodgment till, ablation till, and lacustrine silty sand.

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Reference 17

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# EBASCO SERVICE INCORPORATED

Reference 17 Page 1 of 3

ROJECT: PAS Helbrook		TELECON NOTE
ROJECT NO. 8310.0076.0000. SUIZ LE	DATE: 14 Sept 95	TIME: 1150
STRIBUTION:		
ETWEEN	OF: NYSDEC	PHONE: (467) 753-3095
Dan Bishop/Les Wedge	Fishenes	1001/152-3015
ND: Amy Braicia		
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Catch summary for SAGE CREEK ONT-57

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Dept.	Poone 7 753 3095
Fax#	Fex #

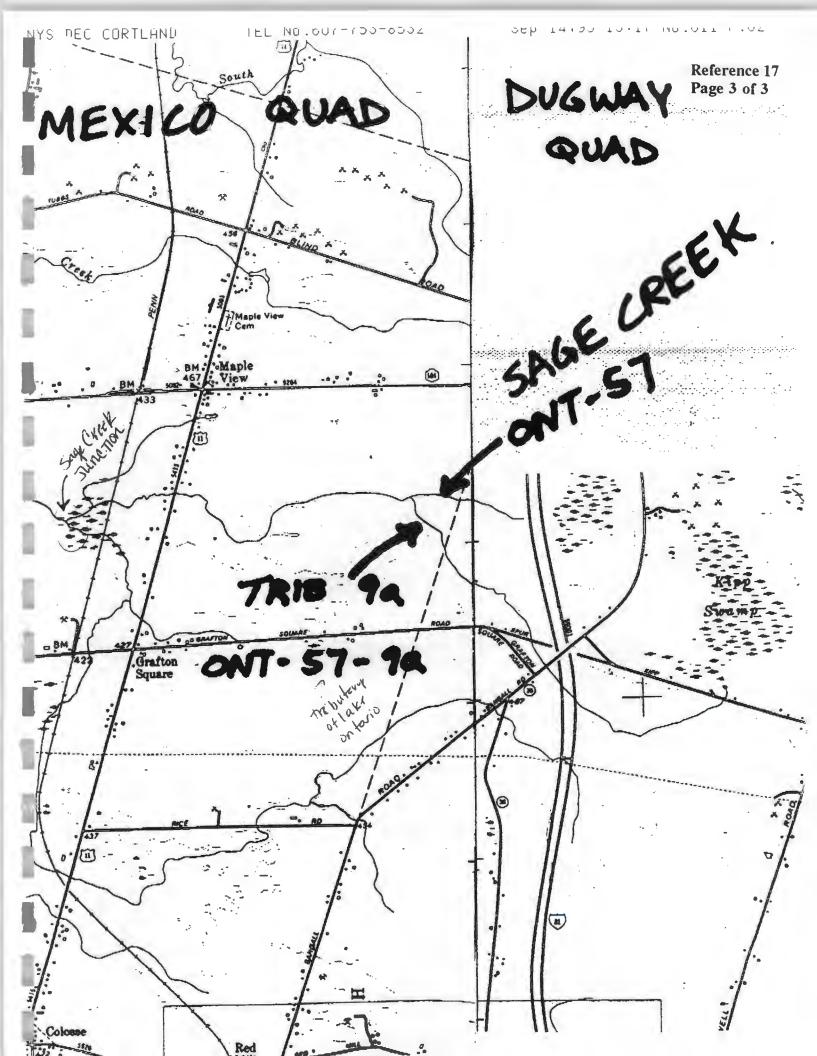
Also - Pike Northern Pike and smelt

sh observed/reported

CKER FAMILY (Spp reported as: Sucker) UNFISH FAMILY (Spp reported as: Bass) ERICAN EEL AIN PICKEREL ROWN BULLHEAD

h caught

INOW & CARP FAMILY (Spp reported as: Minnow) OWN TROUT OMMON SHINER ALLFISH ITE SUCKER OCK BASS MALLMOUTH BASS HNNY DARTER Amy, We did not have flow estimates, sorry. Call if you have any questions. Dan Bishop



Reference 18

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# PAS HOLBROOK PROPERTY SITE LOCAL WATER SUPPLY - PROJECT NOTES SEPTEMBER 1995

- Village of Mexico-The village supplies public water via two groundwater wells located outside the village. The population associated with these wells is approximately 1,555. The water distribution area and the groundwater supply wells are outside of the four mile radius of the site (Source: 12/14/94 telecon between Bob Davis, Village of Mexico, and Amy Braccia, Ebasco; 7/26/95 telecon and fax from Village of Mexico).
- 2. Parish-There are no municipal supply wells in Parish. All residents utilize private water wells for a potable source (Source: 12/13/94 telecon between Kelly Reader, Parish Town Hall, and Amy Braccia, Ebasco).
- 3. Town of Albion and Village of Altmar-There are no municipal supply wells. All residents utilize private water wells for a potable source (Source: 12/15/94 telecon between Sue Brosnam, Albion Town Clerk, and Amy Braccia, Ebasco).
- 4. Town of Richland-There are no municipal supply wells in Richland. All residents utilize private water wells for a potable source (Source: 12/15/94 telecon between Paula O'Brien, Richland Clerk's Office, and Amy Braccia, Ebasco).
- 5. Village of Pulaski-The village supplies public water via three groundwater wells located outside the village, in Richland Township on Richland Road. No known surface water intakes in the area of the surface water TDL. The water distribution area and the groundwater supply wells are outside of the four mile radius of the site (Source: 7/26/95 telecon between Pulaski Town Clerk and Michele Christina, Ebasco).
- SUMMARY: There are no public supply wells located within four miles of the site. There do not appear to be any surface water intakes utilized in the area. All residents living within a four mile radius of the site utilize private wells as a potable water source.

WPDATA\SIP\PASPROJN.LET

Reference 19

Reference 19 Page 1 of 3

# FISH STOCKING LÍST

# N.Y.S. DEPARTMENT OF ENVIRONMENTAL CONSERVATION

### **REGION** 7

# Fish Distribution January 1 - December 31, 1994 Planted in cooperation with County Federated Sportsmen

CODE: ST-Brook Trout; BT-Brown Trout; RT-Rainbow Trout; TGRM-Tiger Muskellunge; CHIN-Chinook Salmon; LLS-Landlocked Salmon; WP-Walleye Pike; COHO-Coho Salmon; STHD-Rainbow Trout Steelhead Strain Rainbow Trout

WATER (TOWNSHIP)	NUMBER	SPECIES	SIZE
BROOME COUN	ITY		
Artic Lake (Sanford) Chenango Lake (Fenton)	2,300 2,750	RT RT	8.00
II II II	7,480	RT	8.00
Dudley Creek (Lisle) (Richfield in Tioga)	190 920	BT RT	8.00
Finch Hollow - Site 15 (Union)	1,840	RT	9.50
Greenwood Lake	190	RT	8.00
Little Coconut Creek Nanticoke Creek (Maine, Nanticoke)	250		8.50
Nancicoke cieek (Maine, Maneicoke,	1,900	BT	7.50
Nanticoke Lake (Lisle)	2,120	RT	8.50
	560	RT	8.00
Oquaga Creek (Sanford)	2,160	BT	7.50
" - Trib 6 (Sanford)	850	BT	7.50
Palmers Pond	190	RT RT	8.00 8.00
Patterson Pond	740 2,400	TGRM	8.50
Susquehanna River Whitney Point Reservoir (Triangle)	3,800	TGRM	9.00
whichey forme Reservoir (121anglo,			
CAYUGA COU	NTY		
Duck Pond	700	TGRM	9.00
Fall Creek (Summer Hill)	960	ST	8.50
II II II II	2,000	ST	4.00
Lake Como	200	TGRM	9.00
Lake Ontario (Fair Haven)	13,160	BT BT	7.00
	17,500 15,000	WP	2.00
" " (Little Sodus Bay)	670	BT	7.50
North Brook (Throop)	1,300,000	WP	Fry
Otter Lake Owasco Inlet, Tr. 17-49 (Moravia, Locke,	2,000,000		1
Groton)	3,100	BT	7.50
	20,000	RT	3.00

Reference 19 Page 2 of 3

				<i>•</i>		
				Region 7	100	* * *
WATER (TO	WNSHI	<u>P)</u>		NUMBER	SPECIES	SIZE
			ONONDAGA	COUNTY (CONT'D)		
Oneida La	ake			6,000	TGRM	9.00
*Onondaga	a Cree	k (Tu	lly)	1,400	BT	8.00
Otisco La	ake (C	tisco	, Spafford)	7,200	TGRM	9.00
* 11	n	11	11	1,750	BT	14.00
* "	0	18	58	2,800	BT	9.25
* "	11	11	11	2,738	BT	7.50
88	11	68	11	22,500	WP	5.00
97	11	11	19	6,450	WP	2.00
88	18	Ħ	88	16,050	WP	1.50
*Pools Bi	rook			500	BT	8.50
* "	н			275	ST	9.00
*Pratt Fa	alls			500	BT	8.25
Skaneatel	les Cr	ceek (	Skaneateles)	23,000	LLS	1.50
* "		11	87	400	BT	13.50
* "		11	11	1,700	BT	8.00
* 11		н	88	3,800	BT	7.50
* II		11	77	3,500	RT	11.00
* "		11	19	1,300	RT	8.00
Skaneate:	les La	ake		2,280	RT	10.00
11		11		21,370	RT	7.00
18				5,000	RT	5.50
FF				5,000	RT	4.00
18				• 5,000	LLS	6.50
*Spafford	d Cree	ek		1,500	BT	8.00
*Spruce				250	ST	15.00
* "	11			625	ST	9.00
* "	17			1,200	RT	8.00
*Tannery	Creel	¢		175	ST	9.25

\*STOCKED BY CARPENTER'S BROOK (ONONDAGA COUNTY) HATCHERY

# OSWEGO COUNTY

Beaverdam	Brook (A	lbion, Orw	ell,			
		illiamstow		91,590	COHO	6.00
19	11			77,780	STHD	6.00
Black Cre	ek (Scrib	a)		1,030	BT	7.50
	reek (Has			3,000	ST	4.50
	k (Willia			2,350	BT	7.50
Grindstor	e Creek.	So. Branch	(Richland,			
011110000			Albion)	3,600	ST	6.00
	11	11	11	4,000	ST	4.50

1333	DIVIS	ION OF LABOR	EPARTMENT OF ATURIES AND R HEALTH CENTER	HE TH ( ESEARCH	Reference 29 Page 44 of 115	
(		RESULTS OF E			,	
LAB ACCESS	IUN NO: 07921	(PAGE 1 YR/MO/DAY/HR	SAMPLE REC'D	: 80/04/22/14		
	AB: 30 SYRACUS				(	
STATION (SC			742 COUNTY .	0.54500		
COORDINATES	S: DEG '	"N, DEG	i iW			
CUMMON NAME	INCL SUBW'SHE	D: VECCHIO R	ESIDENCE RICE	RD	(	
	ING POINT: CWT 1912: OU PWS, R				(	
MO/DAY/HR (	TU: CU (1) RO	OM 00/00 TO		(0) CHEM (1)	,	
PARAME	TER		UNIT	RESULT	NOTATION	
026800	STD PL COUNT			4.		
027000	COLIF ME COL/1	OOML		1.	LT	
			÷			

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This microbiological analysis indicates that the water was was not of a satisfactory sanitary quality when the sample was collected. Oswego County Health Dept.

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DATE COMPLETED: 4/24/80

# RECEIVED

# APR 3 0 1980

OSWEGO COUNTY HEALTH DEPI

PUBLIC HEALTH ENGINEER OSWEGU COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126 the second s

SUBMITTED BY: HCCARTHY

0876	NEW YORK STATE DE DIVISION OF LABORA ENVIRONMENTAL H	TORIES AND RESE	ARCH	Reference 29 Page 45 of 115 $R \subseteq C \subseteq I \lor \subseteq L$ MAY 22 1980
LAB ACCES	RESULTS OF EX (PAGE 1 0 SSION NO: 80518 YR/MO/DAY/HR	IF 1)	<sup>050</sup>	VEGO COUNTY HEALTH DEPT.
PROGRAM: STATION DRAINAGE COORDINA		t nW		
TYPE OF S	MPLING POINT: CW TAP KIT SINK Sample: 00 PWS, RAW WATER R OF SAMPLING: FROM 00/00 TO 0 ENT TO: CO (1) RO (2) LPHE (2)		) CHEM (1)	
-				
	AMETER	ŪNIT	RESULT	NOTATION
		ŨNIT M¢g/l	RESULT	NOTATION
PAR	AMETER			
PAR/ 023609	AMETER 1,1,1-TRICHLOROETHANE	MCG/L	5,	LT
PAR) 023609 036609	AMETER 1,1,1-TRICHLOROETHANE CARBON TETRACHLORIDE	MCG/L MCG/L	5, 5,	LT LT
PAR/ 023609 036609 038909	AMETER 1,1,1-TRICHLOROETHANE CARBON TETRACHLORIDE BRUMODICHLOROMETHANE	MCG/L MCG/L MCG/L	5, 5, 2,	LT LT LT
PAR) 023609 036609 038909 039009	AMETER 1,1,1-TRICHLOROETHANE CARBON TETRACHLORIDE BRUMODICHLOROMETHANE CHLOROFORM	MCG/L MCG/L MCG/L MCG/L	5. 5. 2. 5.	LT LT LT LT
PAR/ 023609 036609 038909 039009 041109	AMETER 1,1,1-TRICHLOROETHANE CARBON TETRACHLORIDE BRUMODICHLOROMETHANE CHLOROFORM TRICHLOROETHYLENE	MCG/L MCG/L MCG/L MCG/L	5, 5, 2, 5, 5,	LT LT LT LT
PAR) 023609 036609 038909 039009 041109 041209	AMETER 1,1,1-TRICHLOROETHANE CARBON TETRACHLORIDE BRUMODICHLOROMETHANE CHLOROFORM TRICHLOROETHYLENE TETRACHLOROETHYLENE	MCG/L MCG/L MCG/L MCG/L MCG/L	5. 5. 2. 5. 5. 2. 5.	LT LT LT LT LT
PAR) 023609 036609 038909 039009 041109 041209 042109	AMETER 1,1,1-TRICHLOROETHANE CARBON TETRACHLORIDE BRUMODICHLOROMETHANE CHLOROFORM TRICHLOROETHYLENE TETRACHLORDETHYLENE BROMOFORM	MCG/L MCG/L MCG/L MCG/L MCG/L MCG/L	5. 5. 2. 5. 5. 2. 5. 2.	LT LT LT LT LT LT
PAR) 023609 036609 038909 039009 041109 041209 042109 042109	AMETER 1,1,1-TRICHLOROETHANE CARBON TETRACHLORIDE BRUMODICHLOROMETHANE CHLOROFORM TRICHLOROETHYLENE TETRACHLOROETHYLENE BROMOFORM DIBROMOCHLOROMETHANE	MCG/L MCG/L MCG/L MCG/L MCG/L MCG/L	5. 5. 2. 5. 5. 2. 5.	LT LT LT LT LT LT

DATE COMPLETED: 5/14/80

THE RESULTS CIRCLED ABOVE DO NOT MEET THE RECOMMENDED STANDARDS SET FORTH IN THE N.Y.S. PART 5 SANITARY CODE

PUBLIC HEALTH ENGINEER OSWEGU COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: NOTGIVEN

1332	NEW( JRK TATE D DIVISION OF LABOR ENVIRONMENTAL	EPARTMENT OF HE	TH( ARCH	Reference 29 Page 46 of 115
T	RESULTS OF E (Page 1 CCESSION NO: 00871 YR/MO/DAY/HR	XAMINATION OF 2)	0/04/22/14	! {
PROGR STATI DRAIN COORD	TING LAB: 33 SYRACUSE LAB AM: 106 TOXIC SUBST. MGT. ON (SOURCE) NO: AGE BASIN: 03 NY GAZETTEER NO: 3 INATES: DEG ' "N, DEG N NAME INCL SUBW'SHED: VECCHIO R	s nw		• (
HO/DA	SAMPLING POINT: CW TAP KIT SINK UF SAMPLE: 00 PWS, RAW WATER Y/HR OF SAMPLING: FROM 00/00 TO T SENT TU: CO (1) RO (2) LPHE (1	04/22/11	CHEM (1)	(
	PARAMETER	UNIT	RESULT	NOTATION
00040	1 FLUORIDE, FREE	MG/L	.1	
00080	1 NITROGEN, NITRATE&NITRITE	MG/L	11.	
00940	1 BARIUM	MG/L	0.5.	LT
01030	9 MERCURY, TOTAL	MCG/L	0.4	LT
01060	1 SILVER	MG/L	-50.0	
30930	9 ARSENIC	ACG/L	10.	LT
30970	9 CADMIUM	MCG/L	2.	LT
30980	9 CHROMIUM	MCG/L	10	LT
31010	9 LEAD	MCG/L	10,	LT
31050	9 SELENIUM	MCG/L	5.	LT
10030	O ODUR, COLD		3.SULFUR	
00190	0 PH (LABORATORY)		7.2	
10150	ALKALINITY, ELECTROM. PH4.5	MG/L	200.	
DATE	COMPLETED: 6/10/80			
				8

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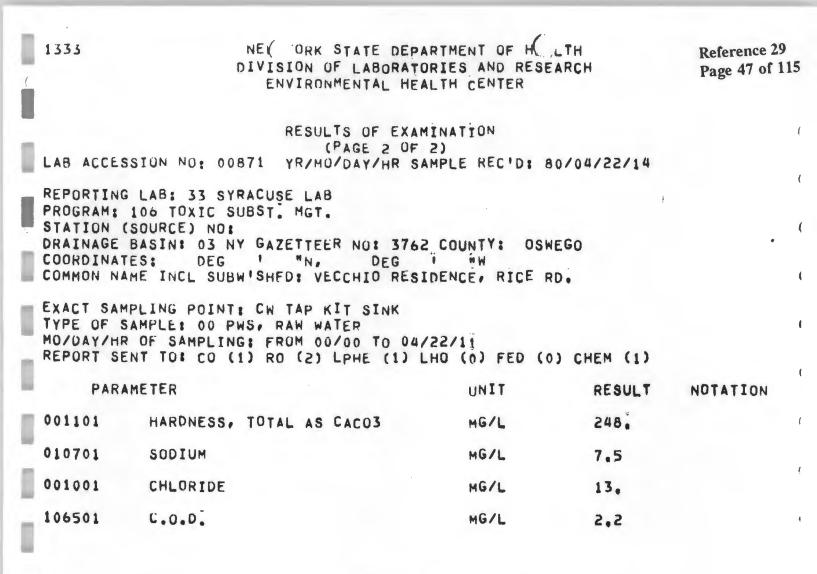
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OSWEGO COUNTY HERITA

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

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SUBMITTED BY: MCCARTHY



THE ABOVE RESOLTS MEET THE RECOMMERCED STANDARDS SFT FORTH IN THE R.Y.S. PART 5 SANITARY CODE

DATE COMPLETED: 6/10/80

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

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0655	NE YOR TATE DEPARTMENT OF H DIVISION OF LABORATORIES AND RE ENVIRONMENTAL HEALTH CENTER	ILALTH	Reference 29 Page 48 of 1	15
LAB ACCESSION NO: 8	RESULTS OF EXAMINATION (PAGE 1 OF 1) 0624 YR/MO/DAY/HR SAMPLE RECID:	80/05/14/14		(
COORDINATES: DEG	SUBST, MGT,	DSWEGO Rish	•	(
EXACT SAMPLING POIN TYPE OF SAMPLE: 00 MO/DAY/HR OF SAMPLI REPORT SENT TO: CO	T: CWT KIT SINK PWS, RAW WATER NG: FROM 00/00 TO 05/13/13 (1) RO (2) LPHE (2) LHO (0) FED	(0) CHEM (1)		(
PARAMETER	UNIT	RESULT	NOTATION	
034409 BENZENE	MÇG/L	1.	LT	(
034509 XYLENES	MCG/L	1.	LT	
039209 TOLUENE	MCG/L	1.	LT	8 9

DATE COMPLETED: 5/23/80

# RECEIV\_D

# JUN 0 4 1980

OSWEGO COUNTY HEALTH DEPT

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: NOTGIVEN

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6	1219	DIVÍ	YORK STATE DEPAR	RIES AND RE		Reference 2	
,		E	NVIRONMENTAL HEAL	TH CENTER		Page 49 of	11:
			RESULTS OF EXAN	Ĩ)			î
	LAB AUCE	SSIUN NU: 80765	YR/HO/DAY/HR SAM	APLE RECIDE 8	0/06/04/10		
Ļ	REPORTIN	G LAB: 17 EHC A 106 TOXIC SUBST	HANY Mgt.				ţ
10		(SOURCE) NOT					
	DRAINAGE	BASINE 03 NY GA	ZETTEER NOI 3762	COUNTY: OSW	EGO		(
_	COORDINA	TESI, DEG	EDI VECCHIO RESIL	N W		•	
				DENCE PARISH			(
	EXACT SA	MPLING POINTE CW	KT.				
	TYPE OF	SAMPLE: 12 WATER	, DRILLED WELL	2747			(
1	REPORT SI	ENT TOI CO (1) R	ROM 00/00 TO 06/0 0 (2) LPHE (1) L	40 (0) FED (0	) CHEM (0)		,
	PAR	AMETER		ŪNIT	RESULT	NOTATION	î
ī	034409	BENZENE		MCG/L	1.	LT	4
	034509	XYLENES		MCG/L	1.	LT	
-	039209	TOLUENE		MCG/L	1.	LT	

THE ABOVE RESULTS MEET THE RECOMMENSED STANDARDS SET FORTH IN THE N.Y.S. PART 5 SANITARY CODE

DATE COMPLETEDI 6/13/80

RECEIVED

JUN 1 9 1980

OSWEGO COUNTY HEALTH DEPT.

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PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: HEERKENS

3236	NEC YORK TATE DEPA DIVIJION C. LABORATO ENVIRONMENTAL HEA	DRIES AND RESE	LTH ARCH	Reference 2 Page 50 of 1	
LAB ACCESSIUN NO: 01	RESULTS OF EXAN (Page 1 OF 647 yr/mu/day/hr s/	1)	0/06/25/09		·
REPORTING LAB; 33 SY PROGRAM: 126 STATION (SOURCE) NO: DRAINAGE BASIN: 03 N COORDINATES: DEG	Y GAZETTEER NUS 3767	е ны	EGO	•	(
EXACT SAMPLING POINT TYPE OF SAMPLE: 12 W MO/DAY/HR OF SAMPLIN REPORT SENT TO: CO (	: CW KT. ATER, DRILLED WELL G: FROM 00/00 TO 06,	/24/11	) CHEM (1)		(
PARAMETER		UNIT	RESULT	NOTATION	(
1					ŧ
202401 SULFATE A	S 504	HG/L	27.		
000801 NITROGEN,	NITRATE&NITRITE	MG/L	3.6		
1					
DATE COMPLETED: 7/0	7/80				ŕ

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: HEERKENS

Reference 29 Page 51 of 115

RECEIVED JUN 2 3 1980 OSWEGO COUNTY HEALTH DEPT.

June 19, 1980

Mr. & Mrs. Lynden Comstock R.D. #1, Bangall Road Parish, NY 13131

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Dear Mr. & Mrs. Comstock:

Attached is a photocopy of an additional laboratory report for a water sample at your home on June 3, 1980. This is the 4th such report that we have sent you. This report indicates the concentrations for Benzene, Xylenes, Toluene were at less than 1 microgram per liter.

If you have any questions, please feel free to call me at 473-8374.

Very truly yours,

James M. McCarthy, P.E. Director of Public Health Engineering

Attachment

cc: Oswego County Health Dept.

Reference 29 Page 52 of 115

RECEIVED JUN121980

OSWEED COUNTY HEALTH DEPT

June 6, 1980

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Mr. & Mrs. Lynden Comstock R.D. #1, Bangall Road Parish, New York 13131

Dear Mr. & Mrs. Comstock:

Attached is a photocopy of an additional laboratory report for a water sample at your home on May 13, 1980. This is the third such report that we have sent you. This report indicates the concentrations for Benzene, Xylenes, Toluene were at less than 1 microgram per liter.

An additional test was taken at your home on June 4, 1980.

If you have any questions, please feel free to call me at 473-8374.

Very truly yours,

James H. McCarthy, P.E. Director of Public Health Engineering

JMM: kfb Attach.

1

cc: Oswego County Health Dept.

Reference 29 Page 53 of 115

May \$0, 1980

Mr. & Mrs. Lynden Comstock RD #1, Bangall Road Parish, N.Y. 13131

Dear Mr. & Mrs. Gomstock:

Attached is a photocopy of an additional laboratory report for a water sample collected at your home on April 22, 1980. You will remember the copy of the bacteriological report that I sent you on May 5, 1980.

The results are all satisfactory except for the positive result reported for Benzene.

As you remember resamples were collected from your home on May 13, 1980 and the laboratory has reported by telephone that reportable levels of Benzene were not present. However, printed copies of these reports are not yet available. They will be sent as soon as possible.

We do not know for sure why the first samples collected from your well had positive levels of Benzene present and the second sample was negative for Benzene. But we are concerned and will resample your home shortly.

The results of some Parameters or chemicals tested are reported as 5 LT which means less than 5 micrograms per liter. This is the lowest value which the laboratory will ever report on the minimum detectable limit.

The following chemicals have a minimum detection of 5 micrograms/liter.

- 1. 1, 1, 1 Trichloroethane
- 2. Carbon Tetrachloride
- 3. Chloroform
- 4. Trichloroethylene
- 5. Bromoform

The following chemicals have a minimum detection limit of 2 micrograms per liter.

- 1. Bromodichloromethane
- 2. Tetrachloroethylene
- 3. Dibromochloromethane

(

- 2 -

The following chemicals have a minimum detection limit of 1 microgram per liter.

1. Benzene

( (

- 2. Xylene
- 3. Toluene

Therefore, a result of 1, 1, 1-Trichloroethane MCG/L 5 LT should be read as less than detectable amounts of 1, 1, 1-Trichloroethane.

A result for Benzene of MCG/L 3 would mean that the sample contained 3 micrograms per liter of Benzene.

If you have any questions please feel free to call me at 473-8374.

Very truly yours,

James M. McCarthy, P.E. Director of Public Health Engineering

JHM: kfb Enc.

cc: Oswego County Health Dept.

1309	NEW JRK ATE DEPAR DIVISION OF LABORATOR ENVIRONMENTAL HEAL	IES AND RESF	,TH ( ARCH'	Reference 29 Page 55 of 1	
í	RESULTS OF EXAMI				
LAR ACCESSION NO. 07	(PAGE 1 UF 1 917 YR/MO/DAY/HR SAM		0/04/22/14		
(					ŧ
REPORTING LAB: 30 SY	-				
PROGRAM: 106 TOXIC S	UBST. MGT.				1
("STATIUN (SOURCE) NO: DRAINAGE BASTN: 03 N	Y GAZETTEER NO: 3762	COUNTY: OSW	EGO	•	·
COORDINATES: DEG		'n₩	-		
COMMON NAHE INCL SUB	W'SHED: COMSTOCK RESI	DENCE			1
FVACT SANGE INC. DOINT	- CHIET				
EXACT SAMPLING POINT TYPE OF SAMPLE: 12 W	ATER, DRILLED WELL				t
MO/DAY/HR OF SAMPLIN	G: FROM 00/00 TO 04/2				
REPORT SENT TU: CO (	1) RO (2) LPHE (1) LH	10 (0) FED (0	) CHEM (1)		ł
PARAMETER		UNIT	RESULT	NOTATION	
026800 STD PL CO	UNT		1.	LT	
				LT	
027000 COLIF MF	CUL/IOOML		1.		

This microbiological analysis indicates that the water (was) was not of a satisfactory sanitary quality when the sample was collected. Oswego County Health Dept.

Lyndi J. Waternan

RECEIVED APR 30 1980

OSWEGO COUNTY HEALTH DEPI

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DATE COMPLETED: 4/24/80

PUBLIC HEALTH ENGINEER OSWEGD COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

1368	Reference Page 56 of	19 11			
	ENVIRONMENTAL HEA				ł
	RESULTS OF EXAN (PAGE 1 OF	2)			(
LAB ACCE	SSION NO: 00874 YR/MO/DAY/HR SA	AMPLE REC'DE 8	0/04/22/14		(
PROGRAM: STATION	BASIN: 03 NY GAZETTEER NO: 3762	DPARISH COUNTY: OSW	EGO		(
COORDINA Common N	TES: DEG "N, DEG AME INCL SUBW'SHED: COMSTOCK RES	SIDENCE			(
	MPLING POINT: CW KT				
TYPE OF	SAMPLE: 12 WATER, DRILLED WELL R OF SAMPLING: FROM 00/00 TO 04/	122/11			(
	ENT TOI CO (1) RO (2) LPHE (1) L		) CHEM (1)		,
PAR	AMETER	UNIT	RESULT	NOTATION	ļ
000401	FLUORIDE, FREE	MG/L	.1		ſ
000801	NITROGEN, NITRATE&NITRITE	MG/L	.1	LT	
009401	BARIUM	MG/L	0.7		
010309	MERCURY, TOTAL	MCG/L	0.4		
010601	SILVER	MG/L	50.0	LT	
309309	ARSENIC	MCG/L	10.	LT	
309709	CADMIUM	MCG/L	2.	LT	
309809	CHROMIUM	HCG/L	10.	LT	
310109	LEAD	MCG/L	10.	LT	
	SELENIUM	HCG/L	5,	LT	
310509	0.0.0		2.SULFUR		
310509 100300	ODOR, COLD				
	DDDR, COLD Ph (LABORATORY)		7.6		
100300		MG/L	7.6 178.		

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PUBLIC HEALTH ENGINEERJUN 1 6 1982OSWEGO COUNTY HEALTH DEPARTMENTOSWEGO COUNTY HEALTH DEPARTMENTBUNNER STREETOSWEGO, N.Y. 13126SUBMITTED BY: MCCARTHY

	.1369 .	NE( YORK STATE DEP DIVISION OF LABORAT ENVIRONMENTAL HE	ORIES AND RESE	ARCH	Reference 29 Page 57 of 1	15
(		RESULTS OF EXA				í
1		(PAGE 2 OF	2)			
-	LAB ACCES	SION NO: 00874 YR/MO/DAY/HR S	AMPLE RECID: 8	0/04/22/14		
	PROGRAM: STATION ( DRAINAGE COORDINAT	LAB: 33 SYRACUSE LAB 106 TOXIC SUBST. MGT. SOURCE) NO: BASIN: 03 NY GAZETTEER NO: 376 ES: DEG ' "N, DEG ME INCL SUBW'SHED: COMSTOCK RE	i iW	EGO	•	1
	TYPE OF S MO/DAY/HR	PLING POINT: CW KT AMPLE: 12 WATER, DRILLED WELL OF SAMPLING: FROM 00/00 TO 04 NT TO: CO (1) RO (2) LPHE (1)	/22/11 LHU (0) FED (0	) CHEM (1)		ŧ
	PARA	METER	UNIT	RESULT	NOTATION	ł
	001101	HARDNESS, TOTAL AS CACO3	MG/L	192.		(
-	010701	SODIUM	MG/L	11.		
	001001	CHLORIDE	MG/L	15.		í
	106501	C.O.D.	MG/L	4.LT	UI	(

THE ABGVE RESULTS MEET THE RECOMMENDED STANDARDS SET FORTH IN THE N.Y.S. PART 5 SANITARY CODE

DATE COMPLETED: 6/10/80

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126 i

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94 305 (B) BASIN INV	ENTORY						******			
SEGNENT	********		SEGNENT	SEGMENT			PRIMARY		PRIMARY	PRIMARY
NAME	SEG ID	COUNTY	TYPE	SITE		CLASS	USE IMPAIRED	SEVERITY	POLLUTANT	SOURCE
			***********	********					****************	******************
AINAGE BASIN: Lake	Ontario									
Sub-Basin: Lake		st						•		
	0301-0012	Niagara	Lake	33.0	A	8	Bathing	Stressed	Nutrients	Agriculture
BOND LAKE		Monroe	G. Lake	6.0	Hi.	8	Boating	Impaired	Silt (Sediment)	Construction
BRADDOCK BAY	0301-0010	Niagara	River	14.7	Hi.	8	Fishing	Impaired	Priority Organics	Contaminated Sed
RIGHTBENNILE CK	0301-0002		River	5.0	Ni.	8	Fieh Propagation	Stressed	Pesticides	Land Disposal
JEDDO CREEK TRIB	0301-0013	Niagara Orleans	River	19.0	Hi.	c	Fishing	Threatened	Silt (Sediment)	Agriculture
JOHNSON CREEK	0301-0007	Niagara	G. Lake	373.9	Hi.	A	Fishing	Impaired	Priority Organics	Contaminated Sed
LAKE ONTARIO	0301-0001	Orleans	River	26.0	Mi.	c	Fishing	Threatened	Water Level/Flow	Hydromodificatio
NYS BARGE CANAL	0301-0008	Orleans	River	5.5	M1.	с	Aesthetics	Stressed	Pathogens	On-site Systems
OAK ORCHARD CREEK	0301-0004	Orleans	River	13.5	Hi.	с	Fishing	Threatened	Nutrients	Agriculture
OAK ORCHARD CREEK	0301-0005	Orleans	River	4.0	Ni.	c	Fish Propagation	Threatened	Nutrients	Agriculture
OAK ORCHARD CREEK	0301-0009	Genesee	River	14.7	Ni.	c	Fishing	Precluded	Nutrients	Agriculture
OAK ORCHARD CREEK		Orleans	River	17.0	Ni.	с	Fishing	Threatened	Unknown Toxicity	Land Disposal
SANDY CREEK TWELVE MILE CREEK	0301-0006	Niagara	River	15.0		B, CT	Fish Propagation	Threatened	Water Level/Flow	Hydromodificatio
	e Ontario				4					
Sub-Basin: Lak	e Ontario C	entral								
ALLEN CREEK	0302-0022	Monroe	River	8.0	Hi.	8	Fishing	Stressed	Nutrients	Urban Runoff
BLIND SODUS BAY	0302-0021	Wayne	G. Lake	3.0	Hi.	B	Bathing	Stressed	Nutrients	On-site Systems
RAST BAY	0302-0011	Wayne	G. Lake	3.0	Ni.	B	Bathing	Stressed	Nutrients	On-site Systems
FIRST CREEK	0302-0008	Wayne	River	3.0	Hi.	с	Fish Propagation	Threatened		Other Source
FOUR MILE CREEK	0302-0006	Honroe	River	5.5	Hi.	C	Fish Propagation	Threatened	Unknown Toxicity	Land Disposal
IRONDEQUOIT BAY	0302-0001	Honroe	G. Lake	14.0	Hi.	8	Bathing	Impaired	Nutriente	Urban Runoff
IRONDEQUOIT CREEK	0302-0024	Nonroe	River	13.0	Mi.	B(T)	Fishing	Stressed	Silt (Sediment)	Construction
LITTLE SODUS BAY	0302-0017	Cayuga	G. Lake	6.8	Hi.	8	Fishing	Impaired	Nutrients.	On-site Systems
	0302-0025	Honroe	River	6.0	Hi.	с	Fishing	Threatened	Priority Organics	Land Disposal
MILL CREEK	0302-0016	Wayne	River	5.5	Mi.	с	Fish Propagation	Stressed	Nutrients	Agriculture
MINK CREBK	0302-0010	Wayne	River	1.7	HI.	с	Fish Propagation	Stressed	Nutriente	Agriculture
MUDGE CREEK		Oswego	River	.0	Ni.		Fishing	Impaired	Aesthetics	On-site Systems
NINEMILE CREEK	0302-0005		G. Lake	7.5			Bathing	Stressed	Nutrients	Agriculture
PORT BAY	0302-0012	Wayne	G. Lake River	7.0			Fish Propagation	Threatened	Nutrients	On-site System:
RED CREEK	0302-0014	Wayne	G. Lake				Bathing	Impaired	Pathogens	CSO' s

Reference 27 Page 4 of 4

# Reference 28

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Wildlife Resources Center 700 Troy-Schenectady Road Latham, NY 12110-2400

(518) 783-3932



Reference 28

Commissioner

January 4, 1995

Amy Braccia Ebasco Environmental 2111 Wilson Blvd., Suite 435 Arlington, VA 22201-3058

Dear Ms. Braccia:

We have reviewed the New York Natural Heritage Program files with respect to your recent request for biological information concerning three Hazardous Waste investigation sites, locations as indicated on your enclosed maps, Oswego County, New York State.

Enclosed is a computer printout covering the area you requested to be reviewed by our staff. The information contained in this report is considered <u>sensitive</u> and may not be released to the public without permission from the New York Natural Heritage Program.

Our files are continually growing as new habitats and occurrences of rare species and communities are discovered. In most cases, site-specific or comprehensive surveys for plant and animal occurrences have not been conducted. For these reasons, we can only provide data which have been assembled from our files. We cannot provide a definitive statement on the presence or absence of species, habitats or natural communities. This information should <u>not</u> be substituted for on-site surveys that may be required for environmental assessment.

This response applies only to known occurrences of rare animals, plants and natural communities and/or significant wildlife habitats. You should contact our regional office, Division of Regulatory Affairs, at the address <u>enclosed</u> for information regarding any regulated areas or permits that may be required (e.g., <u>regulated wetlands</u>) under State Law.

If this proposed project is still active one year from now we recommend that you contact us again so that we can update this response.

> Sincerely, Information Services New York Natural Heritage Program

Encs.

cc: Reg. 7, Wildlife Mgr. Reg. 7, Fisheries Mgr.

#### IR2 page 1

# BIOLOGICAL AND CONSERVATION DATA SYSTEM - ELEMENT OCCURRENCE REPORT, 28 DEC 1994 Prepared by N.Y.S.D.E.C NATURAL HERITAGE PROGRAM

(This report contains sensitive information which should be treated in a sensitive manner. Refer to the users guide for explanation of codes and ranks.)

COUNTY & TOWN	USGS 7 1/2' TOPOGRAPHIC M	AP	LAT./ LONG.	PREC- ISION		EO RANK	SCIENTIFIC NAME	COMMON NAME	ELEMENT TYPE	NY STATUS	FED. STATUS	GLOBAL RANK	STATE RANK	OFFICE	USE
SWEGO															
MEXICO	PULASKI	*	433133 761440	S	1992	D	CHLIDONIAS NIGER	BLACK TERN	BIRD	P SC	C2	G4	s2	4307652	9
MEXICO	PULASKI	*	433137 761425	S	1993	E	RAPTOR OBSERVATION AREA	RAPTOR OBSERVATION AREA	OTHER	U				4307652	17
MEXICO	PULASKI TEXAS MEXICO NEW HAVEN	*	433052 761456	S	1976	E?	WARN WATER FISH CONCENTRATION AREA	WARM WATER FISH CONCENTRATION AREA	OTHER	U				4307652	16
RICHLAND	PULASKI	*	433256 761247	s	1990	D	CHLIDONIAS NIGER	BLACK TERN	BIRD	P SC	C2	G4	<b>\$</b> 2	4307652	10
RICHLAND	PULASKI	×	433205 761326	н	1991	F	CHLIDONIAS NIGER	BLACK TERN	BIRD	P SC	C2	G4	S2	4307652	27

ecords Processed

PAS Holbrook Property

\* These areas have also been designated Significant coastal Fish and Wildlife Habitats by the NYS Dept. of State.

> Reference 28 Page 2 of 4

Reference 28 Page 3 of 4

# USERS GUIDE TO NATURAL HERITAGE DATA

<u>DATA SENSITIVITY</u>: The data provided in these reports is sensitive and should be treated in a sensitive manner. The data is for your in-house use only and may not be released to the general public or incorporated in any public document without prior permission from the Natural Heritage Program.

#### BIOLOGICAL AND CONSERVATION DATA SYSTEM ELEMENT OCCURRENCE REPORTS: COUNTY NAME: County where the element occurrence is located. Town where the element occurrence is located. USGS 7 1/2' TOPOGRAPHIC MAP: Name of 7.5 minute US Geological Survey (USGS) quadrangle map (scale 1:24,000). LAT: Centrum latitude coordinates of the location of the occurrence. Important: latitude and longitude must be used with PRECISION (see below). For example, the location of an occurrence with M (minute) precision is not precisely known at this time and is thought to occur somewhere within a 1.5 mile radius of the given latitude/longitude coordinates. LONG: Centrum longitude coordinates of the location of the occurrence. See also LAT above. PRECISION: S - seconds: Location known precisely. (within a 300' or 1-second radius of the latitude and longitude given. H - minutes: Location known only to within a 1.5 mile (1 minute) radius of the latitude and longitude given. SIZE (acres): Approximate acres occupied by the element at this location. SCIENTIFIC NAME: Scientific name of the element occurrence. CONMON NAME: Common name of the element occurrence. ELEMENT TYPE: Type of element (i.e. plant, community, other, etc.) LAST SEEN: Year element occurrence last observed extant at this location. EO RANK: Comparative evaluation summarizing the quality, condition, viability and defensibility of this occurrence. Use in A-E = Extant: A=excellent, B=good, C=marginal, D=poor, E=extant but with insufficiently data to assign a rank of A - D. F = Failed to find. Did not locate species, but habitat is still there and further field work is justified. = Historic. Historic occurrence without any recent field information. X = Extirpated. Field/other data indicates element/habitat is destroyed and the element no longer exists at this location. NYS STATUS - animals: Categories of Endangered and Threatened species are defined in New York State Environmental Conservation Law section 11-0535. Endangered, Threatened, and Special Concern species are listed in regulation 6NYCRR 182.5. E = Endangered Species: any species which meet one of the following criteria: 1) Any native species in imminent danger of extirpation or extinction in New York. 2) Any species listed as endangered by the United States Department of the Interior, as enumerated in the Code of Federal Regulations 50 CFR 17.11. T = Threatened Species: any species which meet one of the following criteria: 1) Any native species likely to become an endangered species within the foreseeable future in NY. 2) Any species listed as threatened by the U.S. Department of the Interior, as enumerated in the Code of the Federal SC = Special Concern Species: those species which are not yet recognized as endangered or threatened, but for which documented concern exists for their continued welfare in New York. Unlike the first two categories, species of special concern receive no additional legal protection under Environmental Conservation Law section 11-0535 (Endangered and Threatened P = Protected Wildlife (defined in Environmental Conservation Law section 11-0103): wild game, protected wild birds, and U = Unprotected (defined in Environmental Conservation Law section 11-0103): the species may be taken at any time without G = Game (defined in Environmental Conservation Law section 11-0103): any of a variety of big game or small game species as stated in the Environmental Conservation Law; many normally have an open season for at least part of the year, and are protected at other times. NYS STATUS - plants: The following categories are defined in regulation 6NYCRR part 193.3 and apply to New York State Environmental Conservation Law section 9-1503. (blank) = no state status E = Endangered Species: listed species are those with: 5 or fewer extant sites, or 1) fewer than 1,000 individuals, or restricted to fewer than 4 U.S.G.S. 7 1/2 minute topographical maps, or 4) species listed as endangered by U.S. Department of Interior, as enumerated in Code of Federal Regulations 50 CFR 17.11 T = Threatened: listed species are those with: 6 to fewer than 20 extant sites, or 1) 1,000 to fewer than 3,000 individuals, or restricted to not less than 4 or more than 7 U.S.G.S. 7 and 1/2 minute topographical maps, or 2) listed as threatened by U.S. Department of Interior, as enumerated in Code of Federal Regulations 50 CFR 17.11. 3) 4) R = Rare: "listed species have: 1) 20 to 35 extant sites, or 3,000 to 5,000 individuals statewide. V = Exploitably vulnerable: listed species are likely to become threatened in the near future throughout all or a significan U = Unprotected portion of their range within the state if causal factors continue unchecked. NYS STATUS - communities: At this time there are no categories defined for communities.

**Reference 28** Page 4 of 4

Users Guide to Natural Heritage Data

page 2 FEDERAL STATUS (plants and animals): The categories of federal status are defined by the United States Department of the EDERAL STATUS (Plants and antimate). The Species Act (see Code of Federal Regulations 50 CFR 17). The species listed under Interior as part of the 1974 Endangered Species Act (see Code of Federal Regulations 50 CFR 17). this law are enumerated in the Federal Register vol. 50, no. 188, pp. 39526 - 39527.

- (blank) = No Federal Endangered Species Act status.
- LE = The taxon is formally listed as endangered.
- LT = The taxon is formally listed as threatened.
- LELT = The taxon is formally listed as endangered in part of its range and threatened in other parts.
- PE = The taxon is proposed as endangered.
- PI = The taxon is proposed as threatened.
- C1 = Candidate, category 1 There is sufficient information to list the taxon as endangered or threatened.
- C2 = Candidate, category 2 The taxon may be appropriate for listing but more data are needed.
- 3A = The taxon considered extinct by the U. S. Fish and Wildlife Service.
- 38 = The taxon is no longer considered taxonomically distinct by the U.S. Fish and Wildlife Service & thus not appropriate
- 3C = The taxon has been shown to be more abundant, widespread, or better protected than previously thought and therefore not in need of official listing.
- \* = The taxon is possibly extinct.
- \*\* = The taxon is thought to be extinct in the wild but extant in cultivation.

(C2NL) = Heritage code indicating that the taxon is a candidate in some areas, not listed in other areas. (E/SA) = Heritage code indicating that the taxon is endangered because of similarity of appearance to other endangered species or subspecies.

FEDERAL STATUS (communities): At this time there are no categories defined for communities.

GLOBAL AND STATE RANKS (animals, plants, communities and others): Each element has a global and state rank as determined by the NY Natural Heritage Program. These ranks carry no legal weight. The global rank reflects the rarity of the element throughout the world and the state rank reflects the rarity within New York State. Infraspecific taxa are also assigned a taxon rank to reflect the infraspecific taxon's rank throughout the world.

#### GLOBAL RANK:

- G1 = Critically imperiled globally because of extreme rarity (5 or fewer occurrences), or very few remaining acres, or miles of stream) or especially vulnerable to extinction because of some factor of its biology.
- G2 = Imperiled globally because of rarity (6 20 occurrences, or few remaining acres, or miles of stream) or very vulnerable
- to extinction throughout its range because of other factors. G3 = Either rare and local throughout its range (21 to 100 occurrences), or found locally (even abundantly at some of its locations) in a restricted range (e.g. a physiographic region), or vulnerable to extinction throughout its range because
- G4 = Apparently secure globally, though it may be quite rare in parts of its range, especially at the periphery.
- G5 = Demonstrably secure globally, though it may be quite rare in parts of its range, especially at the periphery.
- GH = Historically known, with the expectation that it might be rediscovered.
- GX = Species believed to be extinct.
- GU = Status unknown.

STATE RANK:

- S1 = Typically 5 or fewer occurrences, very few remaining individuals, acres, or miles of stream, or some factor of its biology making it especially vulnerable in New York State.
- S2 = Typically 6 to 20 occurrences, few remaining individuals, acres, or miles of stream, or factors demonstrably making it
- very vulnerable in New York State. S3 = Typically 21 to 100 occurrences, limited acreage, or miles of stream in New York State.
- S4 = Apparently secure in New York State.
- S5 = Demonstrably secure in New York State. SH = Historically known from New York State, but not seen in the past 15 years.
- SX = Apparently extirpated from New York State.
- SA = Accidental or casual in the state.
- SE = Exotic, not native to New York State. SP = Element potentially occurs in the state but there are no occurrences reported.
- SR = Reported in the state but without persuasive documentation.

TAXON (T) RANK: The T-ranks (T1 - T5) are defined the same way the Global ranks (G1 - G5) are but the T-rank only refers to the rarity of the subspecific taxon of the species as a whole.

- T1 through T5 = See Global Rank definitions above.
  - Q = Indicates a question exists whether or not the taxon is a good taxonomic entity.
  - ? = Indicates a question exists about the rank.

OFFICE USE: Information for use by the Natural Heritage Program.

# SIGNIFICANT HABITAT REPORTS:

Significant habitat file code. REPORT ID: NAME OF AREA: Site name where the significant habitat is located.

TYPE OF AREA: Type of significant habitat.

COUNTY/TOWN OR CITY: County and town where the significant habitat is located.

- Name of the USGS 7.5 minute topographic map where the significant habitat is located. Latitude coordinates (degrees, minutes, seconds) for the location of the significant habitat. QUADRANGLE:
- Longitude coordinates for the location of the significant habitat. LATITUDE: LONGITUDE:

Reference 29

## PAS Holbrook Property Site Residential Well Sampling Summary - Project Notes Ebasco Services, Inc. October 1995

Name/Address	Date	microbial	physical parameters	inorganics	organics	petroluem products	Notes - NY Water Standards Exceedences
Clark Residence	May-80	x	X	X	X		Turbidity = 5.6 NTU; chloride = 290 mg/l; iron = 0.38 mg/l
Bangall Road							
Scott Residence	May-80				x	x	Garage tap and basement sink sampled; no exceedences noted.
R.D. #1							
Davis Residence	Jun-80	X	X				Exceedence for color
Ruffos Residence	Apr-80	X	X	X	X		Benzene = 4.0 ug/l
R.D. #1	May-80				X		No detections
Grafton Square Road	Jun-80		X		X		No detections/exceedences
	Dec-87				X		Detections included: benzene = 10 ug/l; toluene = 23 ug/l; naphthalene = 2 ug/l
	Jan-88				X		No detections
Stacey Residence	May-80	X	X	X			Microbial exceedences
Bangall Road						1.	
Fernstein Residence	Jun-80				X		No detections
Vecchio Residence	Apr-80	X	X	X	X		Benzene = 3 ug/l; nitrogen = 11mg/l
Rice Road	May-80				X		No detections
	Jun-80		X		X		No detections
Comstock Residence	Apr-80	X	X	X	, X		Benzene = 3 ug/l
Bangall Road	May-80				X		No detections
	Jun-80				X		No detections
Forkhamer Residence	Apr-80	X	X	X	X		Benzene = 2 ug/l
Route 38	May-80				X		No detections
	Jun-80				X		No detections
Parker Residence	Apr-80	X	X	X	X		Benzene = 6 ug/l
Bangall Road	May-80				X		No detections
	Jun-80		X		X		No detections
Miller Residence R.D. #1, Box 111A	May-80				X	X	No detections
Cook Residence Box 197	May-80				x	X	No detections

PASWELL.XLS

## PAS Holbrook Property Site Residential Well Sampling Summary - Project Notes Ebasco Services, Inc. October 1995

Name/Address	Date	microbial	physical parameters	inorganics	organics	petroluem products	Notes - NY Water Standards Exceedences
Conrad Residence	Apr-80	X	x	X	X		Benzene = 5 ug/l
Grafton Square Road	May-80	X			X		No detections
	Jun-80	1	X		X		No detections
Ware Residence R.D. #1	May-80			100	X	X	No detections
Minkler Residence R.D. #1	May-80				X	X	No detections
Foote Residence R.D. #1, Rice Road	May-80				x	X	No detections
Smith Residence R.D. #1	May-80				X	x	No detections
Gould Residence R.D. #1, Box 14a	May-80				X	X	No detections
APW High School Village of Parish	Jul-80				x		No detections
Holbrook Residence	Jun-80	1	x	1		12-21	Sampled well at rear of barn; exceedence for color
Bangall Road	Jul-80	1	Line in	X		1	Iron = 0.55 mg/l; manganese = 0.89 mg/l

数色

PASWELL.XLS

Í	0454 NEW YORK STATE DEP DIV( ION OF LABORATO ENVIRONMENTAL HEA	FIES AND RE	L TH AR CH	Reference 2 Page 3 of 1	
(				Tuge o or s	
	RESULTS OF EXAM				
(	(PAGE 1 OF				
	LAB ACCESSION NO: 10545 YR/HO/DAY/HR SI	AMPLE REC*D= 8	0/05/22/09		
7	REPORTING LAB: 30 SYRACUSE LAB	TPARISH	•		
	PROGRAM: 126	> OPPIS.			
	STATION (SOURCE) NO:	. / .			
	DRAINAGE BASIN: 03 NY GAZETTEER NO: 376	COUNTY: OSI	EGO		(
	COORDINATES: DEG "N, DEG	• • •		•	
	COPHEN NAME INCL SUBH"SHED: RAY CLARK RE	ES. P BANGALL R	D		ć
	EXACT SAMPLING POINT: KITCHEN TAP TRAIL	R			,
-	TYPE OF SAMPLE: 12 WATER, DRILLED WELL				
	NO/DAY/HR OF SAMPLING: FROM 00/00 TO 05				(
	REPORT SENT TO: CO (1) RO (2) LPHE (1)	LHO (0) FED (0	) CHEF (1)		
J	PARAHETER	UNIT	RESULT	NOTATION	:
2	026800 STD PL COUNT		8.		
	026900 COLIFORM BAC MPN		2.	LT	
-	526900 COL ORG STUBE HTD NO POS		1.	LT	

This microbiological analysis indicates that the water was not of a satisfactory sanitary quality when the sample was collected. Oswego County Health Dept.

Lyndi J. Waternan

RECEIVED

JUN 0 3 1980

OSWEGO COUNTY HEALTH DEPT.

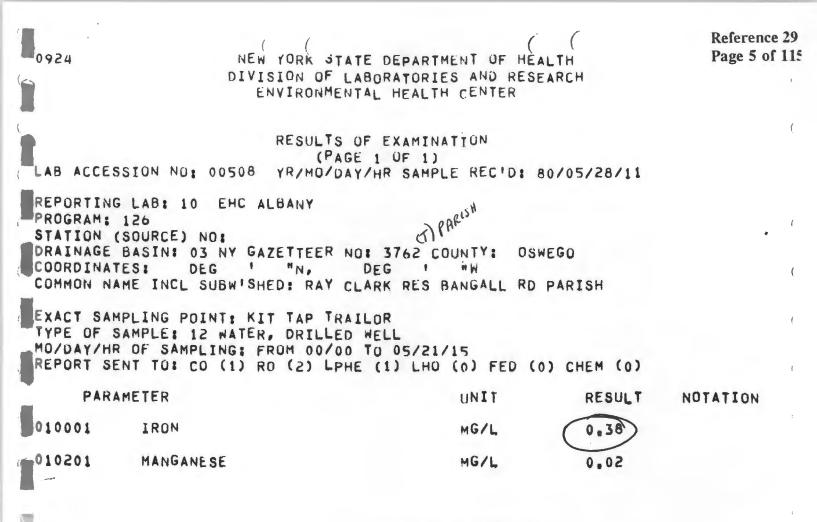
÷

DATE COMPLETED: 5/27/80

PUELIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

1014	NEW YORK STATE DE DIVÍ ON UF LABORA	TORIES AND RE(		Reference 29
(	ENVIRONMENTAL H			Page 4 of 115
LAB ACCES	RESULTS OF EX (PAGE 1 O SSIUN NO: 01169 YR/MO/DAY/HR	F 1)	30/05/22/09	ť
PROGRAM:		ti) PARISIN		
DRAINAGE COORDINAT	(SOURCE) NO: BASIN: 03 NY GAZETTEER NU: 37 IES: DEG ' "N, DEG AME INCL SUBW'SHED: RAY CLARK		ALL RD.	÷
TYPE OF S	APLING POINT: KITCHEN TAP TRAI SAMPLE: 12 WATER, DRILLED WELL R OF SAMPLING: FRUM 00/00 TO 0 ENT TU: CO (0) RO (1) LPHE (2)	5/21/15	)) CHFM (1)	l :
	AMETER	UNIT	RESULT	NOTATION
100200	TURBIDITY, N.T.U.NEPHEL.		5.6	
000100	COLOR (APPARENT)		12.	
100300	UDUR, COLD		3.ROTTEN	1
001900	PH (LABORATORY)		8.3	
101501	ALKALINITY, ELECTROM. PH4.5	MG/L	160.	
001001	CHLORIDE	MG/L	(290.)	
106000	NITROGEN, NITRATE&NITRITE	MG/L	. 1	LT
202401	SULFATE AS SO4	MG/L	7.	
106501	C.O.D.	MG/L	7.2	
I	THE RESULTS CIRCLED ABO DO NOT MEET THE RECOMM STANDARDS SET FORTH IN	ENDED THE		(
1	N.Y.S. FART 5 SANITARY CO	DE F	RECEIVED	)
DATE COMP	PLETED: 5/29/80		JUN 0 4 1980	,
1		120	VEGO COUNTY HEALTH DEP	<b>L</b> i
PURIT				l
OSWEG	C HEALTH ENGINEER			4
	R STREET 50, N.Y. 13126	SUE	MITTED BY: H	EERKENS

. \*



THE RESULTS CIRCLED ABOVE DO NOT MEET THE RECOMMENDED STANDARDS SET FORTH IN THE N.Y.S. PART 5 SANITARY CODE

RECEIVED

JUN 0 9 1980

OSWEGO COUNTY HEALTH DEPT.

DATE COMPLETED: 6/05/80

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: HERRKINS

(	NEW	YORK	STATE	DEPARTMENT OF HEALTH
	DIVIS	ION I	OF LABO	RATORIES AND RESEARCH
	EN	VIRO	NNENTAL	HEALTH CENTER

(

Reference 29 Page 6 of 11:

	RESULTS OF EX (PAGE 1 O			ł.
LAB ACCE	SSION NO: 80648 YR/MO/DAY/HR		0/05/15/09	
				!
	G LAB: 17 EHC ALBANY 106 TOXIC SUBST. NGT.			
	(SOURCE) NO:			Ļ
	BASIN: 03 NY GAZETTEER NO: 37		EGO	*
	TES: DEG . N. DEG	• •₩		(
COMMON N	AME INCL SUBW'SHED: RAY CLARK	RES PARISH		1
EXACT SA	NPLING POINT: CWKT			
	SAMPLE: 12 WATER, DRILLED WELL			(
	R OF SAMPLING: FROM 00/00 TO 0			
REPORT 5	ENT TO: CO (1) RO (2) LPHE (1)	CHO (O) FED (O	I CHEM (I)	t
PAR	AMETER	UNIT	RESULT	NOTATION
023609	1.1.1-TRICHLOROETHANE	HCG/L	5.	LT (
036609	CARBON TETRACHLORIDE	MCG/L	5.	LT
038909	BRONDDICHLOROMETHANE	NCG/L	2.	LT
039009	CHLOROFORM	MCG/L	5.	LT
041109	TRICHLORDETHYLENE	HCG/L	5.	LT
041209	TETRACHLORDETHYLENE	MCG/L	2.	LT
042109	BRONDFORM	HCG/L	5.	LT
044909	DIBRONOCHLORONETHANE	MCG/L	2.	LT
034409	BENZENE	HCG/L	1.	LT
034509	XYLENES	HCG/L	1-	LT
039209	TOLUENE	HCG/L	1.	LT

DATE COMPLETED: 5/30/80

RECEIVED JUNO 4 1980

OSWEGO COUNTY HEALTH DEPT.

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: MCCARTHY

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i.

RECEIVOD JUN231900 LESC HITTH ALTH DEST

(

June 19, 1980

Mr. Leonard Scott R.D. #1 Parish, NY 13131

Dear Mr. Scott:

(77) }

> Attached is a photo copy of a laboratory report for a water sample collected at your home on May 12, 1980. You will remember that we telephoned these results some weeks ago.

> The report indicates that no gasoline, kerosene, fuel oil or lubricating oil was found in your well. Also Benzene, Xylene and Toluene were less than the detection limits of our testing procedure, which is one micro gram per litre.

If you have any questions, please feel free to call me at 473-8374.

Sincerely,

James M. McCarthy Dir. of Public Health Engineering

Attachment

. e .

cc: Oswego County Health Dept.

11 . . . . . . .

1032	NEW YORK STATE DIV DO FLAN ENVIRONMENT	E DEPARTMENT OF HEAL BORATORIES AND RE A AL HEALTH CENTER	r(	Reference 29 Page 8 of 11
LAB ACCE	RESULTS OF PAGE ESSION NOT 80616 YR/MO/DAY	F EXAMINATION I OF 1) Thr sample recid: bo	/05/13/16	(
PROGRAM STATION DRAINAGE COORDINA	NG LAB: 17 EHC ALBANY 106 TOXIC SUBST. MGT. (SOURCE) NO: BASIN: 03 NY GAZETTEER NO TES: DEG 'NN, NAME INCL SUBW'SHED: PARISH	8 3762 COUNTY: OSWE	GO	:
EXACT SA Type of Mo/day/H	MPLING POINT CWT BASEMENT SAMPLE: 12 WATER, DRILLED IR OF SAMPLING: FROM 00/00 SENT TO: CO (1) RO (2) LPHE	WELL	CHEM (1)	(
PAF	RAMETER	ÜNIT	RESULT	NOTATION
007310	GASOLINE	MCL/L	NONE DET	
007410	KEROSENE	MCL/L	NONE DET	
007510	OIL LUBRICATING	MCL/L	NONE DET	
007610	OIL FUEL	MCL/L	NONE DET	
034409	BENZENE	MCG/L	1.	LT
034509	XYLENES	MCG/L	1.	LT
039209	TOLUENE	MCG/L	1.	LT
		THE ABOVE PES RECOMMENDED FORTH IN THE I SANITARY CODI	N.Y.S. PART 5	•
DATE COM	IPLETEDI 6713/80		RECEIV	ED
			JUN 1 9 19	00
-			OSWEGO COUNTY HEAL	rh d <u>c</u> ?t.
OSWE	IC HEALTH ENGINEER Go County Health Department Her Street	Т		
OSWE	GO. N.Y. 13126	SUBM	ITTED BY: N	DTGIVEN
		a the second		

(	1019	DIV(	YORK STATE DEP ION - LABORATO VIRONMENTAL HE	DRIES AND RE .A	R	Reference 29 Page 9 of 115
	REPORTING PROGRAM: 10 STATION (SI DRAINAGE BA COORDINATE: COMMON NAMI EXACT SAMPL TYPE OF SAM MO/DAY/HR (	LAB: 17 EHC AL 06 TOXIC SUBST OURCE) NO: ASIN: 03 NY GAT S: DEG ' E INCL SUBW'SHE LING POINT: GAT MPLE: 10, WATER, OF SAMPLING: FR	MGT. ETTEER NOI 3767 N, DEG DI PARISH RAGE TAP SCOTT F	TI) AMPLE RECIDE BO	GO	•
	PARAM			ÜNIT	RESULT	NOTATION
	007310	GASOLINE		MCL/L	NONE DET.	
	007410	KEROSÉNÉ		MCL/L	NONE DET.	
-	007510	OIL LUBRICATI	NG	MCL/L	NONE DET.	
	007610	OIL FUEL		MCL/L	NONE DET.	
	034409	BENZENE		MCG/L	1.	ĹΤ.
	034509	XYLENES		MCG/L	1.	LT
	039209	TOLUENE		MCG/L	1.	LT
				THE ABOVE	RESULTS MEET TH	ET

RECOMMENDED STANDARD FORTH IN THE N.Y ? FORT 5 SINITARY CODE

> RECEIVED JUN 1 9 1980 DEWEGO COUNTY HEALTH DEPT.

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DATE COMPLETEDE 6713/80

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: MCCARTHY

	DIVISION OF LABOR	DEPARTMENT OF HLALK RATORIES AND RESEARCH HEALTH CENTER	Reference 29 Page 10 of 115
	FESULTS OF E CPAGE 1 LAE ACCESSION NO: 11371 VR/HO/DAY/HE	OF 1)	/16
	REPORTING LAB: 30 SYRACUSE LAB PRCGRA <sup>M</sup> : 126 STATION (SGURCE) NO: DRAINAGE BASIN: 03 NY GAZETTEEF NO: 3 COOFDINATES: DEG * "N, DEC COMMEN NAME INCL SUBM*SHED: ELMER CAN		. (
	EXACT SAMPLING POINT: CHKT TYPE OF SAMPLE: 12 WATER, DRILLED WET MO/DAY/HR OF SAMPLING: FROM 00/CO TO REPORT SENT TO: CG (1) RO (2) LPHE (1)	LL 06/03/12	(1)
	PARAMETER	UNIT RES	ULT NCTATION
	C26800 STD PL COUNT	3.	(
	C27COO COLIF MF COL/100ML	This microbiological enalysis indicates that the water was not of a satisfactory sanitary qualit the sample was collect	
		was was anitary quan satisfactory sanitary quan when the sample was coller Oswego County Health D Oswego County Health D	water non
		office	
			:
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		RECEIV	- D
	DATE COMPLETED: 6/06/80	JUN 1 2 1	
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PUBLIC HEALTH ENGINEER CSNEGO CCUNTY HEALTH DEPARTMENT BUNNER STREET OSNEGO, N.Y. 13126

SUEMITTED BY: HEERKENS

1:48	NEW YORK STATE DEPA DIVÍ .ON OF LABORATO ENVIRONMENTAL HEA	RIES AND REL		Reference 29 Page 11 of 11	5
	RESULTS OF EXAM	T N: A 7 + CLN			5
LAB ACCES	(PAGE 1 OF SIUN NO: 01314 YR/MO/DAY/HR SA	1)	80/06/03/16		ſ
PROGRAM: STATIUN ( DRAINAGE COORDINAT	BASIN: 03 NY GAZETTEER NU: 3762	1 HW	WEGO	•	ť (
TYPE UF S MO/DAY/HR	PLING POINT: CWKT AMPLE: 12 WATER, DRILLED WELL OF SAMPLING: FROM 00/00 TO 06/ NT TO: CO (1) RO (2) LPHE (1) L	03/12 HO (n) FED (	0) CHEM (1)		(
PARA	NETER	ÜNIT	RESULT	NOTATION	ł
					(
100200	TURBIDITY, N.T.U.NEPHEL.		7.2		ł
000100	COLOR (APPARENT)		20.)		(
100300	GDOR, COLD		1.VEG		
001900	PH (LABORATORY)		8.2		ſ
101501	ALKALINTTY, ELECTROM. PH4.5	MG/L	139.		
001101	HARDNESS, TOTAL AS CACO3	₩G/L	140.		
001001	CHLORIDE	MG/L	S.LT	SR	
000801	NITROGEN, NITRATE & NITRITE	MG/L	.1	LT	
106501	C.O.D. THE RECENT	MG/L	4	LT	ę
	THE RESULTS CIRCLE DO NOT MEET THE CON STANDRIDG SET FORTH N.V.S. PILLY 5 SANITAR	D REOVE IOMIEENDED			ł
	- STATER	CODF	RECEIV	- D	ł
DATE COMP	LETED: 6/12/80		JUN 1 7 1		
			OSWEGO COUNTY HEAL		ť
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OSWEGI BUNNEI	C HEALTH ENGINEER O COUNTY HEALTH DEPARTMENT R STREET O, N.Y. 13126		IRMITTED BY: H		* 40 *

SUBMITTED BY: HEERKENS

OSWEGO, N.Y. 13126

Reference 29 Page 12 of 115

RECEIVED JUN 2 3 1980 OSWEGO COUNTY HEALTH DEPT.

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June 19, 1980

Mr. & Mrs. George Ruffos R.D. #1, Grafton Square Rd. Parish, NY 13131

Dear Mr. & Mrs. Ruffos:

Attached is a photocopy of an additional laboratory report for a water sample at your home on June 3, 1980. This is the 4th such report that we have sent you. This report indicates the concentrations for Benzene, Xylenes, Toluene were at less than 1 microgram per liter.

If you have any questions, please feel free to call me at 473-8374.

Very truly yours,

James M. McCarthy, P.E. Director of Public Health Engineering

Attachment

cc: Oswego County Health Dept.

( (

Reference 29 Page 13 of 115

June 6, 1980

Mr. & Mrs. George Ruffos R.D. #1, Grafton Square Road Parish, New York 13131

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Dear Mr. & Mrs. Ruffos:

Attached is a photocopy of an additional laboratory report for a water sample at your home on May 13, 1980. This is the third such report that we have sent you. This report indicates the concentrations for Benzene, Kylenes, Toluene were at less than 1 microgram per liter.

An additional test was taken at your home on June 4, 1980.

If you have any questions, please feel free to call me at 473-8374.

Very truly yours,

James M. McCarthy, P.E. Director of Public Health Engineering

JRM: kfb Attach.

cc: Oswego County Health Dept.

RECEIVED

JUN 1 2 1960

OSWEGO COUNTY HEALTH DEPT

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Reference 29 Page 14 of 115

May 30, 1980

Mr. & Mrs. George E. Ruffos R.D. #1, Grafton Square Road Parish, New York 13131

Dear Mr. & Mrs. Ruffos:

Attached is a photocopy of an additional laboratory report for a water sample collected at your home on April 22, 1980. You will remember the copy of the bacteriological report that I sent you on May 5, 1980.

The results are all satisfactory except for the positive result reported for Benzene.

As you remember resamples were collected from your home on May 13, 1980 and the laboratory has reported by telephone that reportable levels of Benzene were not present. However, printed copies of these reports are not yet available. They will be sent as soon as possible.

We do not know for sure why the first samples collected from your well had positive levels of Benzene present and the second sample was negative for Benzene. But, we are concerned and will resample your home shortly.

The results of some Parameters or chemicals tested are reported as 5 LT which means less than 5 micrograms per liter. This is the lowest value which the laboratory will ever report on the minimum detectable limit.

The following chemicals have a minimum detection of 5 micrograms/liter

- 1. 1, 1, 1 Trichloroethane
- 2. Carbon Tetrachloride
- 3. Chloroform
- 4. Trichloroethylene
- 5. Bromoform

The following chemicals have a minimum detection limit of 2 micrograms per liter.

- 1. Bromodichloromethane
- 2. Tetrachloroethylene
- 3. Dibromochloromethane

- 2 -

The following chemicals have a minimum detection limit of 1 microgram per liter.

- 1. Benzene
- 2. Xylene
- 3. Toluene

Therefore, a result of 1, 1, 1-Trichloroethane MCG/L 5 LT should be read as less than detectable amounts of 1, 1, 1- Trichloroethane.

A result for Benzene of MCG/L 4 would mean that the sample contained 4 micrograms per liter of Benzene.

If you have any questions, please feel free to call me at 473-8374.

Very truly yours,

James M. McCarthy, P.E. Director of Public Health Engineering

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Attachment

cc: Oswego County Health Dept.

1321	DIVISION OF LAN	E DEPARTMENT OF HE BORATORIES AND RESEA AL HEALTH CENTER		Reference 29 Page 16 of 115	5
LAB ACCESSION		F EXAMINATION 1 OF 1) /HR SAMPLE REC'D: 8	0/04/22/14		
PROGRAM: 106 STATION (SOUR DRAINAGE BASI COORDINATES:	3: 30 SYRACUSE LAB TOXIC SUBST. MGT. RCE) NO: [N: 03 NY GAZETTEER NO: DEG ' "N, I INCL SUBW'SHED: RUFFOS	DEG I IW	EGO	•	(
MO/DAY/HP OF	NG POINT: CWKT Le: 10 WATER, DUG WELL Sampling: From 00/00 To: CO (1) RO (2) LPHE		) CHEM (1)		(
PARAMETE	ĸ	UNIT	RESULT	NOTATION	·
026800 51	D PL COUNT		110.		ŧ
027000 CC	DLIF ME COL/100ML		1.	. LT	٠

This microbiological analysis indicates that the water was was not of a satisfictory sanitary quality when the sample was collected. Oswego County Health Dept.

Findi G +. Waterson

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DATE COMPLETED: 4/24/80

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PUBLIC HEALTH ENGINEER OSWEGU COUNTY HEALTH DEPARTMENT BUNGER STREET OSWEGU, N.Y. 13126 OSWEGO COUNTY HEALTH DEPL

1356	NEW DR STATE DEPA DIVISION OF LABORATO ENVIRONMENTAL HEA	DRIES AND RESE	.TK ARCH	Reference 2 Page 17 of	
LAB ACCE	RESULTS OF EXAM (PAGE 1 OF SSION NO: 00873 YR/MO/DAY/HR SA	2)	0/04/22/14		;
REPORTIN PROGRAM: STATION DRAINAGE COORDINA	G LAB: 33 SYRACUSE LAB 106 TOXIC SUBST. MGT. (SOURCE) NO: BASIN: 03 NY GAZETTEER NO: 3762	TIPARISH COUNTY: OSH	IEGO		(
TYPE OF MO/DAY/H	MPLING POINT: CW KT SAMPLE: 10 WATER, DUG WELL R OF SAMPLING: FROM 00/00 TO 04, ENT TO: CO (1) RO (2) LPHE (1) L	/22/10 .HO (0) FED (0	) CHEM (1)		(
PAR	AMETER	UNIT	RESULT	NOTATION	l
000401	FLUORIDE, FREE	MG/L	.1	LT	í
000801	NITROGEN, NITRATE&NITRITE	MG/L	3.1		
009401	BARIUM	MG/L	0.5	LT	
010309	MERCURY, TOTAL	MCG/L	0.4	LT	
010601	SILVER	MG/L	50.0	LT	
309309	ARSENIC	NCG/L	10.	LT	
309709	CADMIUM	MCG/L	2.	LT	
309809	CHROMIUM	MCG/L	10.	LT	
310109	LEAD	MCG/L	10,		
310509	SELENIUM	MCG/L	5.	LT	
100300	ODUR, COLD		1.SULFUR		
001900	PH (LABORATORY)		6.8		
101501	ALKALINITY, ELECTROM. PH4.5	MG/L	139.		Ċ
DATE COM	PLETED: 6/10/80				

RECEIVLE JUNI 6 1980

OSWEGO COUNTY HEATTH DE

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PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: MCCARTHY

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1357	NEW ( RK STATE DEP DIVISION OF LABORAT ENVIRONMENTAL HE	ORIES AND RESE		Reference 29 Page 18 of 115
	RESULTS OF EXA (PAGE 2 OF SSION NO: 00873 YR/MO/DAY/HR S	2)	30/04/22/14	(
REPORTING PROGRAM: STATION DRAINAGE	G LAB: 33 SYRACUŞE LAB 106 TOXIC SUBST. MGT. (SOURCE) NO: BASIN: 03 NY GAZETTEER NO: 376			i
EXACT SAN TYPE OF S MO/DAY/HF	AME INCL SUBW'SHED: RUFFOS RESI MPLING POINT: CW KT SAMPLE: 10 WATER, DUG WELL R OF SAMPLING: FROM 00/00 TO 04	/22/10		e e
REPORT SE	ENT TO: CO (1) RO (2) LPHE (1)	LHO (0) FED (0	)) CHEM (1)	(
PAR	AMETER	UNIT	RESULT	NOTATION
001101	HARDNESS, TOTAL AS CACO3	MG/L	184.	(
010701	SODIUM	MG/L	13,	
001001	CHLORIDE	MG/L	33.	(
106501	C.O.D.	MG/L	5.4	4

THE ABOVE RESULTS MEET THE RECOMMENDED STANDARDS SET FORTH IN THE N.Y.S. PART 5 SANITARY CODE

DATE COMPLETED: 6/10/80

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126 ŧ

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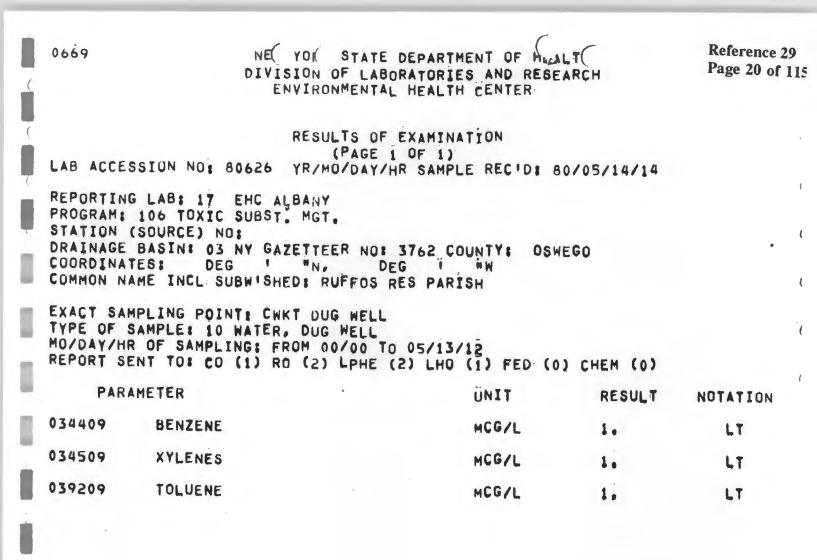
	0882	DIVISION OF LA	TE DEPARTMENT OF HEALTH ABORATORIES AND RESEARCH TAL HEALTH CENTER	Reference 29 Page 19 of 115 MAY 2 2 1980
	LAB ACCESS	(PAGE	DF EXAMINATION E 1 OF 1) M/HR SAMPLE REC'D: 80/04/2	OSWEGO COUNTY HEALTH DEPI
	PROGRAM: 1 STATION (SO DRAINAGE B COORDINATE:	LAB: 17 EHC ALBANY 06 TOXIC SUBST. MGT. DURCE) NO: ASIN: 03 NY GAZETTEER NO S: DEG ' "N. E INCL SUBW'SHED: RUFFO:	DEG WW	• •
	TYPE OF SAI MO/DAY/HR	ING POINT: CWET MPLE: 10 WATER, DUG WELL DF SAMPLING: FROM 00/00 T TO: CO (1) RO (2) LPHE		( (1)
_	PARAM	ETER	UNIT RE	SULT NOTATION
	023609	1,1,1-TRICHLOROETHANE	MCG/L 5.	LT
6	036609	CARBON TETRACHLORIDE	MCG/L 5.	LT
	038909	BROMODICHLOROMETHANE	MCG/L 2.	LT
	039009	CHLOROFORM	HCG/L 5.	LT
	041109	TRICHLOROETHYLENE	HCG/L 5.	LT
	041209	TETRACHLURUETHYLENE	MCG/L 2.	LT
	042109	BROMOFORM	MCG/L 5.	LT
	044909	DIBROMUCHLUROMETHANE	MCG/L 2.	LT
	034409	BENZENE	NCG/L 4.	£
	034509	XYLENES	MCG/L 1.	LT
	039209	TOLUENE	MCG/L 1.	LT
Π				(

DATE COMPLETED: 5/14/80

THE RESULTS CIRCLED ABOVE DO NOT WEET THE RECOMMENDED STANDARDS SET FORTH IN THE N.Y.S. PART & SANITARY CODE

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTHENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: MCCARTHY



DATE COMPLETED: 5/23/80

RECEIVED JUNO 4 1980 OSWEGO COUNTY MEALTH DEPT

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: NOTGIVEN

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	1242	NEW DIV En	YORM STATE DE 10. F LABORA NVIRONMENTAL H	PARTMENT OF HEAD Tories and Re Ealth Center	AR	Reference 29 Page 21 of 115
	LAB ACCES		RESULTS OF EX	AMINATION		
	PROGRAM: STATION ( DRAINAGE COORDINAT	LAB: 17 EHC A 106 TOXIC SUBST Source) No: Basin: 03 Ny Gas Es: Deg i Me Incl Subw'she	NGT. ZETTEER NOT 37	i iW	EGO	•
1	TYPE OF S. MO/DAY/HR	PLING POINT: CW Ample: 10 Water Of Sampling: FF NT TO: CO (1) RC	DUG WELL	6/03/10 LHO (0) FED (0	) CHÉM (1)	
	PARA	METER		ŪNIT	RESULT	NOTATION
	034409	BENZENE		MCG/L	1.	LT
	034509	XYLENES		HCG/L	1.	LT
Í	039209	TOLUENE		MCG/L	1.	LT
Í				THE ABOVE	RESULTS MEET T	HE

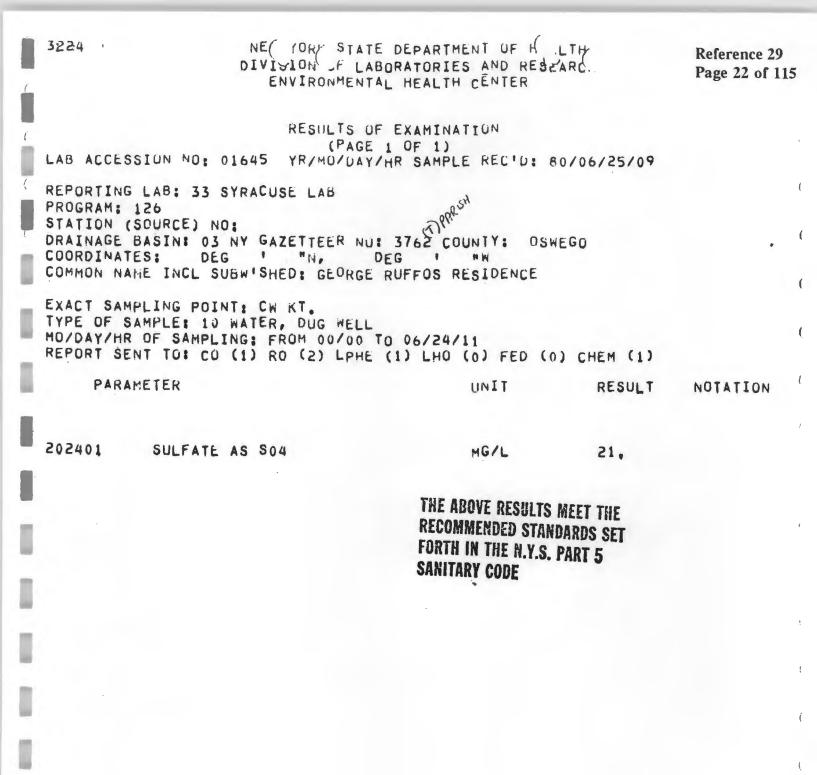
RECOMMENDED STANDARDS SET FORTH IN THE N.Y.S. PART 5 SANITARY CODE

> RECEIVED JUNI 91919

DATE COMPLETED: 6713/80

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: HEERKENS



DATE COMPLETED: 7/07/80

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTHENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: HEERKENS

- An Anap

Reference 29 Page 23 of 115



**OSWEGO COUNTY HEALTH SERVICES** 

PUBLIC HEALTH DEPARTMENT MENTAL HEALTH DEPARTMENT (315) 349-3545

70 BUNNER STREET P.O. BOX 3080 OSWEGO, N.Y. 13126-3080

RUPERT J. COLLINS COMMISSIONER

February 8, 1988

Mr. George Ruffos R.D.# 1, Grafton Sq. Rd. Parish, New York 13131

Dear Mr. Ruffos:

Enclosed please find two (2) sets of sample results from your residence.

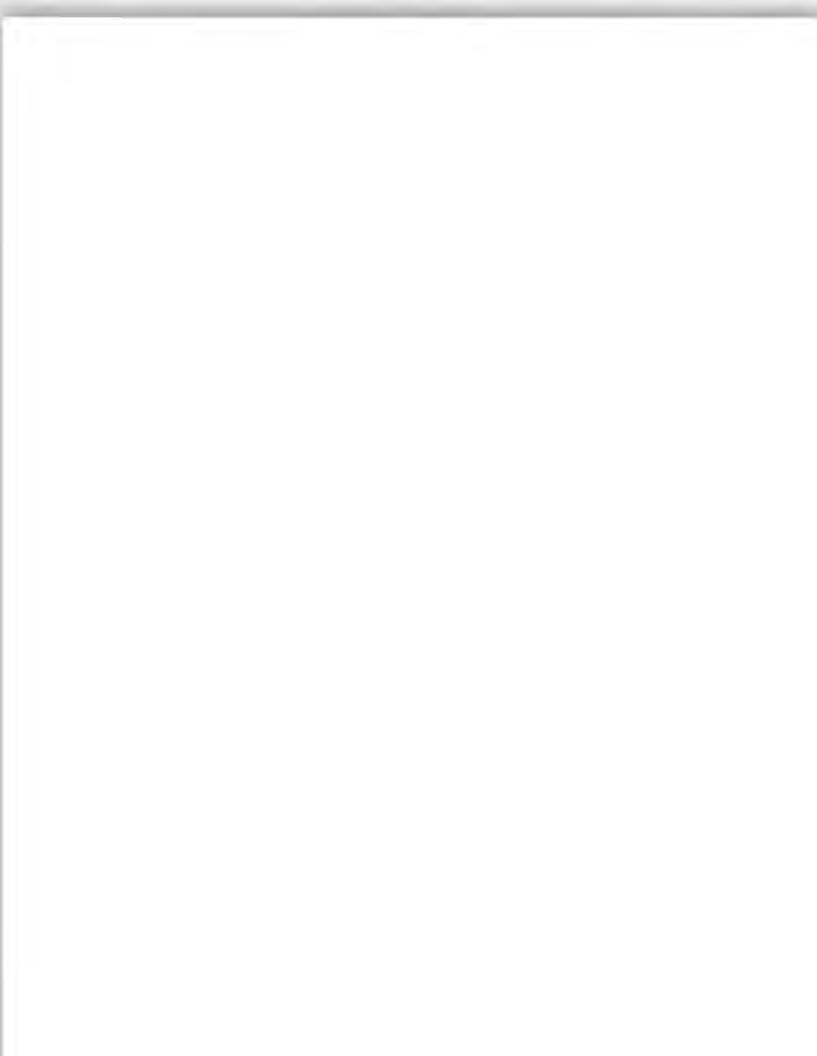
The first set of results corresponds with the sample taken on 12/9/87 by myself in response to your complaint to the New York State Department of Health. These results show a benzene level of 10.0 mcg/l, which is above the State public drinking water standard of 5.0 mcg/l. There were other positive findings as well, chloroform at 1.0 mcg/l, Toluene at 23.0 mcg/l, para-xylene at 5.0 mcg/l, meta-xylene at 11.0 mcg/l, ortho-xylene at 20.0 mcg/l, 1,3,5 trimethylbenzene at 2.0 mcg/l, 1,2,4 trimethyl-benzene at 3.0mcg/l and naphthalene at 2.0 mcg/l. However, none of these exceeded the guideline of 50.0 mcg/l for individual parameters or 100.0 mcg/l for the total concentration of all organics detected (total = 77.0 mcg/l).

As a result of the first sample and its subsequent findings, you were advised on 1/8/88 not to consume the water until a follow-up sample was analyzed. This second sample was collected on 1/11/88. The results from this sample indicate all parameters were less than detectable and meet State Public Drinking Water standards and guidelines. You were notified of this fact on 2/4/88 by Evan Walsh of this Department.

Other points of interest which should be stated:

- 1. The presence of an odor was noted during the 12/9 sample but was not during the 1/11 sample.
- 2. The location of the shallow dug well lends itself to contamination from runoff via the road and/or the driveway.
- 3. The parameters with the highest concentrations (benzene, tolene and the xylenes) are all components of petroleum products, and are commonly associated with such.-
- 4. Pumping of the well between first and second sampling events rendered the water ordorless and apparently clean of contaminants.

. . . .



Ruffos, Feb 8, 1988, Cont.

Although a specific reason for the difference between the two results connot be given, a logical assumption would appear to be that the contamination occurred as a result of runoff from the road or your driveway.

Should the odor problem reappear or any additional questions arise, please do not hesitate to call our office at 349-3561.

Sincerely,

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utiles

Christopher J. Williams Public Health Sanitarian

CJW/mm

Statement - + 2

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0295	NE. YUR	KSTATE	DE	PARTMEN	TOF	he A	LTH			Page 25	of 11
63 A	SWORTH CE	NTER FO	R L.	ABORATO	RIES A	AND	RESE	ARCH			
PAGE 1		RESULTS	UF	EXAMIN	ATION				FI	NAL REPOR	(TT)
2			-							-	2
SAMPLE ID: 8		SAMPL	E RI	ECEIVED	:88/0	1/1	3/		CHARG	E: 7.0	0
PROGRAM: SOURCE ID:	IIV:STALE	DDATNAC	F G	ANALITI ASIN+02	LAL SI	ERV	CAZE	- HR.	L CONT	ract 814-	•224
EPULITICAL SUBDI			L ()	HOTH . VO			COUN			. 3702	7
FLATITUDE:		LONGITU	DE:				2 DI				-ia 19
LUCATION: PAR					PROP						:10
DESCRIPTION : GFO	GE RUFFOS	RES KI	TCH	EN CWT							11 11
REPURTING LAB:	TOX:	LAB FOR	OR	GANIC A	NALYT.	ICA	L CHE	MIST	ŔŸ	4.5 wet a 400.7 m	- '
TEST PATTERN:											:
SAMPLE TYPE:					PLY -	DU	G WEL	6		1 (0.0)	
REASONS FOR SUB									DO FILMES		
SITUE OF SAMPOIN	-: 08/01/1	1 19:30					0.	ATE	PRIMIE	D:88/01/2	21
	INQUIRED							) - :	~~~~	$\langle \rangle$	
: <> >>>>>	INQUIRED	880119	BY	D.E.H.	(SMBO.	3		)	<<<<<	<>	
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PAR	AMETER						RE	SULT			
BENZENE				•			MCG/L	-			:
TRICHLOROFTHEN	F.					-	MCG/L		ur na apunar		
TOLUENE							MCG/L				.'
TETRACHLORCETH	"ME						MCG/L				
ETHYLBENZENE							MCG/L				
1-CHLOROCYCLOH PARA-XYLENF	XENE=1						MCG/I.				
META-XYUENE							MCG/L MCG/L				
CHLOROBENZENE							MCG/L				
ORTHO-XYLENE							MCG/L				
CUMENE						-	MCG/L				
STYPENE						-	MCG/L				
P-BROMOFLITCROB							MCG/L				
N-PRUPYLRENZEN						-	MCG/L				
TERT-BUTYLBENZ						-	MCG/L				
BROMURENZENE							MCG/L MCG/L				
META-CHLORETOL	ENE						MCG/L				
1,3,5-TRIMETHY							MCG/L				
1,2,4-TRIMETHY	PENZENE						MCG/T				
P-CYMENE					<	1.	MCG/L				
1,4-DICHLOROBE							MCG/L				
CYCLUPROPYLBEN							MCG/L				
1,3-DICHLORDEF SEC-BUTYLBENZE						-	MCG/L				
MUC-DULIT REAVE	**** (0)	TINUED	aN	NEY O			MCG/I				
- The Entry											
COPIES SENT TO:	CU(2), RN	(1), 58	HE(	2). EED	().	INF	0-P(	), I	NFU-L(	)	
PUBLIC HEAT	TH ENGINE	SR.									
USAFGO COU											
BUNNER ST.							SUB	AITT	ED BY:	THOMEE	
USWEGO N.Y										1.101 011	

0296 NEW YURK SI WADSWORTH CENTER	TATE DEPARTMENT OF HEALT R FOR LABORATORIES AND R	Reference 29 H Page 26 of 115 ESEARCH
PAGE 2 RESU	JLTS OF EXAMINATION	FINAL REPORT
POLITICAL SUBDIVISION: PARISH	FROM HOLBROOK PROP	1216
PARAMETER		-KESULT
© N-BUTYLBENZENF	< 1. MC < 1. MC	
1,2-DICHLORDBENZENE HEXACHLORDBUTADIENE (C-46) 1,2,4-TRICHLORDBENZENE NAPHTHALENE	< 1. MC < 5. MC < 5. MC < 5. MC < 5. MC	G/L G/L G/L
1,2,3-TRICHLOROBENZENE	<pre>&lt; 5. MC </pre>	G/L
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		25 26
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	0887 NEW YORK STATE DEPAR	TMENT OF HEALTH Reference 29 Page 27 of 115
	WADSWORTH CENTER FOR LABO	RATORIES AND RESEARCH
	PAGE 1 RESULTS OF EX	AMINATION FINAL REPORT
	SAMPLE ID: 875658 SAMPLE RECE	IVED: 87/12/10/ CHARGE: 34.90
	PROGRAMI IUGIBOREAU OF ENVIRONME	NIAL EXPOSURE INVESTIGATION
	SOURCE ID: DRAINAGE BASI	N:03 GAZETTEER CODE: 3762
	LATITUDEA LONGTRUDEA	COUNTIIOSWEGU
	POLITICAL SUBDIVISION: PARISH LATITUDE; LOCATION: TOWN OF PARISH-GED, RUFFOS	DFS 2 DIRECTION
	DESCRIPTION RICHARDSON RD PARISH NY KC	WT ····································
11	REPORTING LAB: TOXILAB FOR ORGAN	
	TEST PATTERN: XPEST-625:ORGANOCHLORIN	E PESTICIDES & PRIORITY POLLUTANTS
	SAMPLE TYPE: 120:PRIVATE WATER	SUPPLY - DRILLED WELL
	REASONS FOR SUBMISSION: TASTE/ODOR	
	TIME OF SAMPLING: 87/12/09 09:30	DATE PRINTED:88/01/29 (
	ANALYSIS: VH05021 VOLATILE HALOG	ENAMED TNDTCAMODE-EDA NETHOD 500 4
	DATE REPORTED:	87/12/31 REPORT MAILED OUT
-	**************************************	RESULT
ini.	CHLOROMETHANE	< 1. MCG/L
н.	BROMONETHANE	< 1. MCG/L
_	VINYL CHLORIDE	< 1, MCG/L
	BROMOMETHANE VINYL CHLORIDE DICHLORODIFLUORONETHANE	
	CHLORODIFLOUROMETHANE CHLOROETHANE METHYLENE CHLORIDE (DICHLOROMETHANE) TRICHLOROFLUOROMETHANE	< 1, MCG/L
-	METHYLENE CHLOBIDE (DICHLOROMETHANE)	<'1, MCG/L
-	TRICHLOROFI.UOROMETHANE	
	1,1-DICHLOROETHENE	< 1, MCG/L
	1,1-DICHLORDETHANE	< 1, MCG/L
	TRANS-1,2-DICHLOROETHENE	< 1, MCG/L
11	CIS-1,2-DICHLOROETHENE	< 1, MCG/L
Ψ.	CHLOROFORM	1, MCG/L
2	1,2-DICHLOROETHANE DIBROMOMETHANE	< 1, MCG/L < 1, MCG/L
	1,1,1-TRICHLORDETHANE	< 1, MCG/L
-	CARBON TETRACHLORIDE	< 1, MCG/L
_	BROMODICHLOROMETHANE	< 1, MCG/L
	2.3-DICHLOROPROPENE	< 1. MCG/L
	1,2-DICHLOROPROPANE	< 1, MCG/L
`	TRANS-1, 3-DICHIOROPROPENE	< 1, MCG/L
	TRICHLOROETHENF	< 1, MCG/L
	1.3-DICHLOROPROPANE	< 1, MCG/L < 1, MCG/L
	DIBROMOCHLOROMETHANE CIS-1, 3-DICHLOROPROPENE	< 1. MCG/L
8	1,1,2-TRICHLOROETHANE	< 1, MCG/L
	1,2-DIBROMOETHANE	< 1. MCG/L
	2-CHLOROETHYLVINYL ETHER	< 1, MCG/L
	BROMOFORM	< 1, MCG/L
	1,1,1,2-TETRACHLOROETHANE	< 1. MCG/L
_	**** CONTINUED ON NE	XT PAGE ****
	COPIES SENT TO: CO(1), RO(1), LPHE(2).	FED( ). INFO-P( ), INFO-L( )
	PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPT.	
	BUNNER_ST.	SUBMITTED BY:WILLIAMS
	OSWEGO.N.Y. 13126	
Course .		

0888	NEW YORK STATE WADSWORTH CENTER FOR	DEPARTMENT OF HEALTH LABORATORIES AND RESEARCH	Page 28 of
PAGE 2		OF EXAMINATION	FINAL REPORT
		RECEIVED: 87/12/10/ C	HARGE: 34.90
LOCATION.	BDIVISION: PARISH	COUNTY:OSWI	260
TIME OF SAMP	TOWN OF PARISH-GEO. R LINC: 87/12/09 09:30	DATE PR	INTED: 88/01/29
	PARAMETER	RESULT	
1.2.3-TRICH	LOROPROPANE	<'1, MCG/L	•
1,1,2,2-TET	RACHLOROETHANE	<'1, MCG/L	
TETRACHLORD	ETHENE	< 1, MCG/L	
PENTACHLORO	ETHANE	< 1, MCG/L	
1-CHLOROCYC	LOHFXENE=1	< 1, MCG/L	
CHLOROBENZE	NE	< 1. MCG/L	
BIS(2-CHLOR	OFTHYL)ETHER	< 1, MCG/L	
1.2-DIBROMO	-3-CHLOROPROPANE	< 1, MCG/L	
BROMOBENZEN	E	< 1. MCG/L	
ORTHO-CHLOR	OTOLUENE.	< 1, MCG/L	
	OISOPROPYL)ETHER	< 1, MCG/L	
1.3-DICHLOR	•	< 1, HCG/L	
1,2-DICHLOR		< 1, MCG/L	
1,4-DICHLOR		< 1. MCG/L	· · · · ·
			RT MAILED OUT
	PARAMETER	RESULT	
BENZENE Toluene		10, MCG/L	
	<b>2</b> 7.	23, MCG/L	
ETHYLBENZEN		< 1, MCG/L	
ETHYLBENZEN PARA-XYLENF		<pre>     &lt; 1, MCG/L     5, MCG/L </pre>	
ETHYLBENZEN PARA-XYLENF META-XYLENF		< 1, MCG/L 5, MCG/L 11, MCG/L	
ETHYLBENZEN PARA-XYLENF META-XYLENF ORTHO-XYLEN		<pre>&lt; 1, MCG/L 5, MCG/L 11, MCG/L 20, MCG/L</pre>	
ETHYLBENZEN PARA-XYLENF META-XYLENF ORTHO-XYLEN CUMENE		<pre>&lt; 1, MCG/L 5, MCG/L 11, MCG/L 20, MCG/L &lt; 1, MCG/L</pre>	
ETHYLBENZEN PARA-XYLENF META-XYLENF ORTHO-XYLEN CUMENE STYRENE	E	<pre>&lt; 1. MCG/L 5. MCG/L 11. MCG/L 20. MCG/L &lt; 1. MCG/L &lt; 1. MCG/L &lt; 1. MCG/L</pre>	
ETHYLBENZEN PARA-XYLENF META-XYLENF ORTHO-XYLEN CUMENE STYRENE P-BROMOFLUO	E	<pre>&lt; 1, MCG/L 5, MCG/L 11, MCG/L 20, MCG/L &lt; 1, MCG/L &lt; 1, MCG/L &lt; 1, MCG/L &lt; 1, MCG/L</pre>	
ETHYLBENZEN PARA-XYLENF META-XYLENF ORTHO-XYLEN CUMENE STYRENE P-BROMOFLUO N-PROPYLBEN	E ROBFNZENE ZENF	<pre>&lt; 1, MCG/L 5, MCG/L 11, MCG/L 20, MCG/L &lt; 1, MCG/L</pre>	
ETHYLBENZEN PARA-XYLENF META-XYLENF ORTHO-XYLENF CUMENE STYRENE P-BROMOFLUM N-PROPYLBEN TERT-BUTYLB	E ROBFNZENE ZENF ENZFNE	<pre>&lt; 1. MCG/L 5. MCG/L 11. MCG/L 20. MCG/L &lt; 1. MCG/L</pre>	
ETHYLBENZEN PARA-XYLENF META-XYLENF ORTHO-XYLENF CUMENE STYRENE P-BROMOFLUO N-PROPYLBEN TERT-BUTYLB O/P-CHLOROT	E ROBFNZENE Zenf Enzfne Olufne	<pre>     &lt; 1, MCG/L     5, MCG/L     11, MCG/L     20, MCG/L     &lt; 1, MCG/L </pre>	
ETHYLBENZEN PARA-XYLENF META-XYLENF ORTHO-XYLENF CUMENE STYRENE P-BROMOFLUO N-PROPYLBEN TERT-BUTYLB O/P-CHLOROT META-CHLOROT	E ROBFNZENE ZENF ENZFNE OLUFNE TOLUENE	<pre>&lt; 1, MCG/L 5, MCG/L 11, MCG/L 20, MCG/L &lt; 1, MCG/L</pre>	
ETHYLBENZEN PARA-XYLENF META-XYLENF ORTHO-XYLENF CUMENE STYRENE P-BROMOFLUO N-PROPYLBEN TERT-BUTYLB O/P-CHLOROT META-CHLOROT 1.3.5-TRIME	E ROBFNZENE ZENF ENZFNE OLUFNE TOLUENE THYLBENZENE	<pre>&lt; 1, MCG/L 5, MCG/L 11, MCG/L 20, MCG/L &lt; 1, MCG/L </pre>	
ETHYLBENZEN PARA-XYLENF META-XYLENF ORTHO-XYLENF CUMENE STYRENE P-BROMOFLUO N-PROPYLBEN TERT-BUTYLB O/P-CHLOROT META-CHLOROT 1.3.5-TRIMF 1.2.4-TRIMF	E ROBFNZENE ZENF ENZFNE OLUFNE TOLUENE THYLBENZENE	<pre>&lt; 1, MCG/L 5, MCG/L 11, MCG/L 20, MCG/L &lt; 1, MCG/L &lt; 3, MCG/L </pre>	
ETHYLBENZEN PARA-XYLENF META-XYLENF ORTHO-XYLENF ORTHO-XYLEN CUMENE STYRENE P-BROMOFLUG N-PROPYLBEN TERT-BUTYLB O/P-CHLOROT 1.3.5-TRIMF 1.2.4-TRIMF P-CYMENE	E ROBFNZENE ZENF ENZFNE OLUFNE TOLUENE THYLBENZENE THYLBENZENE	<pre>&lt; 1, MCG/L 5, MCG/L 11, MCG/L 20, MCG/L &lt; 1, MCG/L </pre>	
ETHYLBENZEN PARA-XYLENF META-XYLENF ORTHO-XYLENF ORTHO-XYLEN CUMENE STYRENE P-BROMOFLUO N-PROPYLBEN TERT-BUTYLB O/P-CHLOROT META-CHLOROT 1.3.5-TRIMF 1.2.4-TRIMF P-CYNENE CYCLOPROPYL	E ROBFNZENE ZENF ENZFNE OLUFNE TOLUENE THYLBENZENE THYLBENZENE BENZENE	<pre>&lt; 1, MCG/L 5, MCG/L 11, MCG/L 20, MCG/L &lt; 1, MCG/L </pre>	
ETHYLBENZEN PARA-XYLENF META-XYLENF ORTHO-XYLENF ORTHO-XYLEN CUMENE STYRENE P-BROMOFLUO N-PROPYLBEN TERT-BUTYLB O/P-CHLOROT META-CHLOROT 1.3.5-TRIMF 1.2.4-TRIMF P-CYNENE CYCLOPROPYL SEC-BUTYLBE	E ROBFNZENE ZENF ENZFNE OLUFNE TOLUENE THYLBENZENE THYLBENZENE BENZENE NZENE	<pre>&lt; 1, MCG/L 5, MCG/L 11, MCG/L 20, MCG/L &lt; 1, MCG/L </pre>	
ETHYLBENZEN PARA-XYLENF META-XYLENF ORTHO-XYLENF CUMENE STYRENE P-BROMOFLUO N-PROPYLBEN TERT-BUTYLB O/P-CHLOROT META-CHLOROT 1.3.5-TRIMF 1.2.4-TRIMF P-CYMENE CYCLOPROPYN SEC-BUTYLBENZ	E ROBFNZENE ZENF ENZFNE OLUFNE TOLUENE THYLBENZENE THYLBENZENE BENZENE NZENE ENE	<pre>&lt; 1, MCG/L 5, MCG/L 11, MCG/L 20, MCG/L &lt; 1, MCG/L </pre>	
ETHYLBENZEN PARA-XYLENF META-XYLENF ORTHO-XYLENF CUMENE STYRENE P-BROMOFLUO N-PROPYLBEN TERT-BUTYLB O/P-CHLOROT META-CHLOROT 1.3.5-TRIMF 1.2.4-TRIMF P-CYMENE CYCLOPROPYN SEC-BUTYLBEN N-BUTYLBEN 2.3-BENZOFU	E ROBFNZENE ZENF ENZFNE OLUFNE TOLUENE THYLBENZENE THYLBENZENE BENZENE NZENE ENE RAN	<pre>&lt; 1, MCG/L 5, MCG/L 11, MCG/L 20, MCG/L &lt; 1, MCG/L </pre>	
ETHYLBENZEN PARA-XYLENF META-XYLENF ORTHO-XYLENF ORTHO-XYLENF CUMENE STYRENE P-BROMOFLUO N-PROPYLBEN TERT-BUTYLBEN META-CHLOROT 1.3.5-TRIMF 1.2.4-TRIMF P-CYNENE CYCLOPROPYL SEC-BUTYLBEN N-BUTYLBEN 2.3-BENZOFH HEXACHLOROP	E ROBFNZENE ZENF ENZFNE OLUFNE TOLUENE THYLBENZENE THYLBENZENE BENZENE NZENE ENE RAN UTADIENE (C-46)	<pre>&lt; 1, MCG/L 5, MCG/L 11, MCG/L 20, MCG/L &lt; 1, MCG/L 2, MCG/L 3, MCG/L &lt; 1, MCG/L </pre>	
ETHYLBENZEN PARA-XYLENF META-XYLENF ORTHO-XYLENF ORTHO-XYLEN CUMENE STYRENE P-BROMOFLUO N-PROPYLBEN TERT-BUTYLBEN O/P-CHLOROT META-CHLOROT 1.3.5-TRIMF 1.2.4-TRIMF P-CYNENE CYCLOPROPYN SEC-BUTYLBEN N-BUTYLBEN 2.3-BENZOFU HEXACHLOROB 1.2.4-TRICH	E ROBFNZENE ZENF ENZFNE OLUFNE TOLUENE THYLBENZENE THYLBENZENE BENZENE NZEWE ENE RAN UTADIENE (C-46) LOROBENZENE	<pre>&lt; 1, MCG/L 5, MCG/L 11, MCG/L 20, MCG/L &lt; 1, MCG/L 2, MCG/L 3, MCG/L &lt; 1, MCG/L </pre>	
ETHYLBENZEN PARA-XYLENF META-XYLENF ORTHO-XYLENF ORTHO-XYLENF CUMENE STYRENE P-BROMOFLUO N-PROPYLBEN TERT-BUTYLBEN META-CHLOROT 1.3.5-TRIMF 1.2.4-TRIMF P-CYNENE CYCLOPROPYL SEC-BUTYLBEN N-BUTYLBEN 2.3-BENZOFH HEXACHLOROP	E ROBFNZENE ZENF ENZFNE OLUFNE TOLUENE THYLBENZENE THYLBENZENE BENZENE NZEWE ENE RAN UTADIENE (C-46) LOROBENZENE	<pre>&lt; 1, MCG/L 5, MCG/L 11, MCG/L 20, MCG/L &lt; 1, MCG/L 2, MCG/L 3, MCG/L &lt; 1, MCG/L </pre>	

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0889	( NFW	VODE CEARE DEDADS	MENT OF UP	(	Reference	: 29
0009	HANGWOOTH	YORK STATE DEPART CENTER FOR LABOR	MENT OF HEA	LTH DECEMBER	Page 29 c	f 1
	WADOWURID	CENTER FUR LABUR	RATURIES ANI	RESEARCH		
PAGE 3		RESULTS OF FYL	MINATION		FINAL REPOR	-
	1.1					
SAMPLE ID:	875658	SAMPLE RECEI	VED: 87/12/1	.0/	CHARGE: 34.9	0
POLITICAL SUE	BDIVISION:	PARISH		COUNTY:0	SWEGO	•
LOCATION:	TOWN OF PA	RISH-GEO. RUFFOS	RES.			
TIME OF SAMPI	LING: 87/1	2/09 09:30		DATE	PRINTED: 88/01/2	9
FOL	LOWING PAR	AMETERS NOT PART	OF TEST PAT			
						,
ANALYSIS:	HERB	HERBICIDES (DES	5 310-3)		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		HERBICIDES (DES Date Reported:	87/12/24	RE	PORT MAILED OUT	1
	PARAMETER-	****				
2,4=D	ANANGI DR-		< 0.5	MCG/L		
SILVEX (2.4	5erD1		< 0.1			
NALYSIS:	XPEST	ORGANOCHLORINE	PESTICIDES	(DES 310-	2)	
		DATE REPORTED:	87/12/17	RE	PORT MAILED OUT	,
	PARAMETER-					
HCH, ALPHA	PARAMETER=	****		RESULT	· • • • • • • • • • • • • • • • • • • •	
HCH, BETA			V. U. U.4	ACGIU		
	THE AND A		< 0.04			
HCH. GAMMA (1	LINDANE J		< 0,04			
HCH, DELTA			< 0.04			
HEPTACHLOR			< 0.05			
ALDRIN			< 0,02			
HEPTACHLOR I			< 0.05			
ENDOSULFAN	• Vp		< 0.05			
DDE -PARA, I	PAKA		< 0.05			
DIELDRIN			< 0.02			
ENDRIN	-		< 0,02			
DDD -PARA.			< 0.05			
ENDOSULFAN :	ΙΤ .		< 0,05			
ENDRIN ALDER			< 0.02			
ENDOSULFAN S			< 0.05	MCG/L		
DDT -PARA.	PARA		< 0.05			
NETHOXYCHLO	R.		< 1.0			
TOXAPHENE				MCG/L		
CHLORDANE			< 0.1			
MIREX			< 0.05	MCG/L		
NALYSIS	625A	ACIDS - F.R. HI	THOD 625 (1	FS 310-81		
	0104	DATE PRINTED:	88/01/29		FINAL REPORT	•
	DARAMETED_	****		BBBBECHT M		
	HUNHELER.		•	MCG/L		
				· · · · · · · · · · · · · · · · · · ·		
PHENOL	NOL					
PHENOL 2-CHLOROPHE			< 10.	MCG/L		
PHENOL 2-CHLOROPHEL 2-NITROPHENO	jr .		< 10. < 10,	MCG/L MCG/L		
PHENOL 2-CHLOROPHEN 2-NITROPHENO 2,4-DIMETHY	LPHFNOL		< 10. < 10, < 10,	MCG/L MCG/L MCG/L		
PHENOL 2-CHLOROPHEN 2-NITROPHEN 2,4-DIMETHYN 2,4-DICHLORO	DL LPHFNOL DPHFNOL	Ôr.	< 10, < 10, < 10, < 10,	MCG/L MCG/L MCG/L MCG/L		
PHENOL 2-CHLOROPHEN 2-NITROPHEN 2,4-DIMETHYN 2,4-DICHLORO 4-CHLORO-3-N	DL Lehenol Dehenol Hethylehen	ŌĿ	< 10, < 10, < 10, < 10, < 10, < 10,	MCG/L MCG/L MCG/L MCG/L MCG/L		
PHENOL 2-CHLOROPHEN 2-NITROPHEN 2.4-DIMETHYN 2.4-DICHLORO 4-CHLORO-3-N 2.4.6-TRICHN	DL Lehenol Dehenol Nethylehen Lorophenol		< 10. < 10. < 10. < 10. < 10. < 10. < 10.	MCG/L MCG/L MCG/L MCG/L MCG/L NCG/L		
PHENOL 2-CHLOROPHEN 2-NITROPHEN 2,4-DIMETHYN 2,4-DICHLORO 4-CHLORO-3-N 2.4.6-TRICHN 2,4,5-TRICHN	DL Lehenol Dehenol Lethylehen Lorophenol Lorophenol		< 10, < 10, < 10, < 10, < 10, < 10, < 10, < 10,	MCG/L MCG/L MCG/L MCG/L MCG/L MCG/L		
PHENOL 2-CHLOROPHEN 2-NITROPHEN 2.4-DIMETHYN 2.4-DICHLORO 4-CHLORO-3-N 2.4.6-TRICHN	DL Lehfnol Dehfnol Methylehen Lorophenol Lorophenol Phenol		< 10, < 10, < 10, < 10, < 10, < 10, < 10, < 10, < 10,	MCG/L MCG/L MCG/L MCG/L MCG/L NCG/L		

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	(	(		Reference 29
0890	NEW Y	ORK STATE DEP	ARTMENT OF HEALTH	Page 30 of 1
	WADSWORTH	CENTER FOR LA	BORATORIES AND RESEA	RCH
PAGE 4		RESULTS OF	EXAMINATION	FINAL REPORT
SAMPLE TO	875658	SAMPLE RE	CEIVED:87/12/10/	CHARGE: 34.90
POLITICAL SU	BDIVISION:P	ARISH		Y:OSWEGO
LOCATION	TOWN OF PAR	ISH-GEO. RUFF		
TIME OF SAMP	LING: 87/12	/09 09:30	DA	TE PRINTED:88/01/29
	PARAMETER		**************************************	
PENTACHLORO	PHENOL		< 10. MCG/L	JON I
ANALYSISI	625BN	BASE/NEUTRAL	S . F.R. METHOD 625	(DES 310-8)
		DATE PRINTED	88/01/29	FINAL REPORT
	6 a			
	PARAMETER-		RES	SULT
N-NITROSODT		INE	< 10, MCG/L	
HEXACHLOROF			< 10, MCG/L	
NITROBENZEN			< 10, MCG/L	
ISOPHORONE			< 10, MCG/L	
BIS(2-CHLOB	Dethoxyjmet	HANE	< 10, MCG/L	
HEXACHLOROC		ENE (C+56)	< 10, MCG/L	
2-CHLORONAPI	HTHALENE		< 10, MCG/L	
2.6+DINITRO			< 10, MCG/L	
ACENAPHTHYL			< 10. MCG/L	
DIMETHYLPHT			< 10, MCG/L	
ACENAPHTHEN			< 10, MCG/L	
2.4-DINITRO	TOLUENE		< 10, MCG/L	
DIETHYLPHTH			< 10, MCG/L	
FLUORENE			< 10, MCG/L	
N-NITROSODT	PHENYLAMINE		< 10. MCG/L	
1.2-DIPHENVI			-< 10, MCG/L	
4-BROMOPHEN		THER	< 10, NCG/L	
HEXACHLOROBI			< 10. MCG/L	
PHENANTHREN			< 10, MCG/L	
ANTHRACENE	-		< 10, MCG/L	
DI-N-BUTYLP	UTUATATE			
FLUORANTHEN			< 10, MCG/L	
PYRENE	5		< 10, MCG/L	
BENZIDINE			< 10, MCG/L	
			< 30, MCG/L	
BUTYL BENZY		•	< 30, MCG/L	
BENZO(A)ANTI	HRACENE		< 30, MCG/L	
3.3 -DICHLO	ROBENZIDINE		< 30. MCG/L	
CHRYSENE			< 30, MCG/L	
BISC2-ETHYL		LATE	< 30, MCG/L	
DI-N-OCTYL	PHTHALATE		< 30. NCG/L	
BENZU(B)FLU			< 30, MCG/L	
BENZO(K)FLII			< 30, MCG/L	
BENZO(A)PYRI			< 30. MCG/L	· · · · · ·
INDEND(1.2.			< 30. MCG/L	
DIBENZO(A.H	ANTHRACENE		< 30, MCG/L	· · · · ·
BENZO(GHI)PI	ERYLENE		< 30. MCG/L	
		**** END	OF REPORT ****	GEE
				E TITTE A.
				A contract of the second

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Bouyous 4 ypb, KCWT. Followigs showed no further contaministion. 6/1980 -

Summer 187 - Drilled vell gipe replaced, & sulfur taste. 9 n 10/87 water tasted had. well cleaned out & chilorond by son. Omproved for awhile. Negative BacT., done privately. 11/87 - Tasted oily, with Jelm. Stopped dunking it. 12/17- Tooled by Osvego G. - Dos. for BTX + naplethalene. 1/87 - Rotested, of San. Survey done by C. Williams (OS. G.) + E. Thomes (NYS- DOH). andos part next to shallow well, which is now used only for showers, diskes (non dunking - vater uses). now, no had taste." Pickin, results from 12/9 - Chloroph 1ppb MX- 11 0x - 20 135 TMB-2 12,4 TMB-3 Phoned the Ruffos: 1/1/87 Mr. R. Celieve that Ngalot - 2 Hollwoh, Juny 450 Barrel-storage eres, (80) is source. Say band were removed, & vell proged prov to 'so desting. So he feels that maximum contamenistion was never documental. also soup that Hollicole dumped material doon an old well, on Rt. 38, and into a cisclen on Mexico Millebut cito (according to negations). Told of results, cautional against dunking lathing in water. Told he will be notified of final results by County, when results come in. !

Page 31 of 115

In person V **Reference 29** By phone Page 32 of 115 Re: Well Survey Date: 1/11/88 Emmy Thomas By: Title PRS JT Russos (inpruston by the Rupe) # of Occupants: 4 veora Address: Richardson Rd, Yrs. at Present Address: '49 · · P. .. Town: Perish Mailing Address (if different): R.D. 1 Graffon Se., Paris 298 - 5/33 Schoeller (W) Tech. Japers) Phone: 625-7129 (H) deep, sulphur task stor; 65' Vell Information: Sumo on cellar floor dra 3:3' to O area Type (Dug, Orilled, Driven) 2 000, Year: 939 Approx. Depth: 760 Feet deo Pump (Submersible/fet Make: for dug und 5 HB; To Age: Approx. Elevation: Feet Depth to Water: Dug -3' dawn Feet 62' down Suilbo Depth of Casing: Both wells are to CWT (kitchen) Depth of Casing: Well Yield: Dr. 100 / pm Feet -Gal/Min. Dug, 1/15/hr. and controlled with values. Currently Water Bearing Material: ? sand gravel red dray Driller: Garish Dig 3-9'drin using "hauled" sake from brothe Drille a next door. Water Treatment Devices: when reck Softener: Can it be bypassed? (Yes/No) Filter (Type): Order Know Other: for sayly. ater Information: If so, when? Shallow well show to recover in summer Water Shortages? (Yes)No) when dry Water Quality: Odor Ules with film Discoloration Clear Taste "Ore" (Describe) (inderulable') Film Lk Duration of Problem: IN 2 mos. after laundry, washes smalled aile Fuel Storage Tanks On-Site? (Yes) No) woods (Above) Below Ground) Capacity Gallons .DN250al Free Remarks: Cellar has gutters around aloges J) Storage drom with old. auto oil comething Promo 20 iagram: Show roads, subject dwelling, compass irection, well location, subsurface disposal  $\mathbf{O}$ Garage area (leachfield), other nearby structures or wellings, fuel storage tank location, and pgradient/downgradient locations. Cellar Lund they Hurt Sviell eptli OCATION: Feet (N/S) of North Latitude Feet (E/W) of West Longitude Downgrout O Aquay gas tark P- pomp F-Surner 08= L2000 Unand

i	WADSWURTH	CENTER FOR LABORA	DEPARTMENT OF LTH	( NRCH	Reference 29 Page 33 of 1
		REQUEST F	OR ANALYS	SIS	
FOR LABORATORY USE ONLY	LAB ACCESSION NO TEST PATTERN _		SAMPLE R		
		PLEASE PRINT ALL INF	ORMATION LEGIBLY IN	INK	
PROGRA		PROGRAM NAME	az, Loste Site	o (Holhreak)	055110
A. SOURCE			COUNTY OSW	600	
B. DRAINAG	BE BASIN 10131 Ont	NEW YORK GA		612 TOWN P	r'sla
LATITUC		L. L. N.		L' LL	″w
Z DIRECTIO	N, ALTITUDE OR DEPTH.				
LOCATION NAME OF L	(CITY, TOWN OR VILLAGE AKE, RIVER OR STREAM	E), WATERSHED, NAME OF	INDUSTRY, TREATME	NT PLANT, OR WATER SL	IPPLY
LPAR	ISH DAN	NGRHDE	FROM HI	60 charac	ter maximum
EXACT DESC	CRIPTION OF SITE, NAME	OF RESIDENT, STREET A	DDRESS. PRECISE SAM	IPLING POINT	SE PRINT)
LE SO LE WT	<u>par Ruf</u>	FOS RES	58 character max (PLEASE PRIN	(imum	<u>N</u>
TIME OF SAMPLING		COMPOSITE FINISH	A MONTH DAY		
TYPE OF SAM	IPLE (SELECT FROM LIST		TION: DIIG INC		1720
D ILLNESS (A		IONS, REASONS FOR SUE DITY (C) INATUR	RAL DISASTER (E) D R ILL (F) D E	ECK IF ROUTINE SURVEIL NEW EQUIP OR D PROC. (G) EQUIP FAILURE (H)	, LLANCE) INTERRUPTION IN CHLORINATION ( OTHER (J)
TO (NO. OF C			Fallerin a	ETX and made	1219187
PRS	PLEASE PRI	(31) 428-2257		Nolly, Kenion 71	
SANITARY BAC TOTAL COLIFC CHLORINATED TOTAL COLIFC UNCHLORINAT TOTAL & FECA NONPOTABLE TOTAL COLIFO POTABLE WATI TOTAL & FECA CHLORINATED	PRMS MF POTABLE WATER PRMS MF & SPC ED POTABLE WATER L COLIFORMS MF SURFACE WATER RMS MPN & SPC	OTHER     Somple 40, HC?	BICIDES S (THM-501) CARBONS (EPA601) ATICS (EPA602) OUNDS (EPA503.1) INTS - 524) INTS - BASE PESTICIDES (EPA625) JCTS	INORGANIC CHEMIS  POTABLE WATER, OG  FLUORIDE  NITRATE  TRACE METALS, SPE  WQSN  PRIMARY STP SECONDARY STP OTHER	CSS-I
WHITE COPY -			the not		

Reference 29 Page 34 of 115

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## MEMORANDUM

TO: File

- FROM: Chris Williams
- SUBJ: Ruffos Res. H<sub>2</sub>O Sample

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DATE: 1/6/88

A water sample was taken at the Ruffos residence on Grafton Square Rd. Tn. of Parish on 12/9/87 in response to a taste/odor complaint. The sample was requested by Henri Hamel of the State Health Dept. in Syracuse.

05:45	DIVY ON OF LABOR	EPARTMENT OF HEA ATORIES AND RE	L T H NRCH	Reference 29	
	ENVIRONMENTAL	HEALTH CENTER		Page 35 of 1	15
6					
	RESULTS OF E	XAMINATION			
(	(PAGE 1				
	CESSION NO: 10389 YR/HO/DAY/HE		0/05/21/09		
END ACC					
	ING LAB: 3C SYRACUSE LAB	(T)PARISH			
PROGRAM		> optis			
	N (SOURCE) NO:	(Z)ki.			
DRATA	GE BASIN: 03 NY GAZETTEER NO: 3	TEZ COUNTY: OSH	EGO		
COORDI				•	
COUNDI	NAME INCL SUBH SHED: ENID STAC		GALL RD		
CUMMUN	NARE INCL SUDA SHEDE CHID STA				
TYLOT I	CANDIANC DOTATE CHT KITCH				
	SAMPLING POINT: CWT KITCH				
ITPE UI	F SAMPLE: 10 WATER, DUG WELL	05/20/15			
MU/DAY	/HR OF SAN <sup>P</sup> LING: FROM 00/00 TO SENT TO: CO (1) RO (2) LPHE (1	1 1 HO (A) EED (A	) CHEN (1)		
REPORT	SERT TU: LU (I) AU (2) LPAC (I		- GHEN VI-		
		UNIT	RESULT	NOTATION	
P 1	ARAHETER	UNIT			
	ATT DE COUNT		560.	EE	
026800	STD PL COUNT				
	COLIFORN BAC HPN		16.	GT	
026900	LULITURA DAL ATA				
	ACL ARE STUDE NTO NO BAS		5.		
526900	COL ORG STUBE MTD NO POS				

This microbiological analysis indicates that the water wee, cas not of a satisfactory sanitary quality when the sample was collected. Oswego County Health Dept.

Lyndi J. Waterman

RECEIVED

JUN 0 3 1980

ISWEGO COUNTY HEALTH DEPT.

DATE COMPLETED: 5/27/80

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

<b>1</b> 009	NEW YORK STATE DE DIV( ON OF LABORA ENVIRONMENTAL H	TORIES AND RE		Reference Page 36 of	
LAB ACCESS	RESULTS OF EX (Page 1 0 SION NO: 01171 YR/MO/DAY/HR	F 1)	0/05/21/09		
PROGRAM: STATION (S DRAINAGE E COORDINATE	SOURCE) NO: BASINE 03 NY GAZETTEER NO: 37	e ew			4
EXACT SAME TYPE OF SA MO/DAY/HR	PLING POINT: CCW KT AMPLE: 10 WATER, DUG WELL OF SAMPLING: FROM 00/00 TO 0 NT TO: CO (1) RO (2) LPHE (1)	5/20/15			t e
PARAN	METER	UNIT	RESULT	NOTATION	l
100200	TURBIDITY, N.T.U.NEPHEL.		1.0		(
100300	ODUR, COLD		1.VEG		t
001900	PH (LABORATORY)		7.3		
101501	ALKALINITY, ELECTROM. PH4.5	MG/L	234.		
001001	CHLORIDE	MG/L	6.		
000801	NITROGEN, NITRATE&NITRITE	MG/L	,35		
	C.O.D.	MG/L THE ABOVE RESUL RECOMMENDED S FORTH IN THE N SANITARY CODE	1.9		:
-					1
DATE COMPL	LETED: 5/29/80		RF	D	(
			JUN 1 4 1:30		ţ.
8			الكليب مسروح ال	DER	×
1					4
	C HEALTH ENGINEER D COUNTY HEALTH DEPARTMENT				é
BUNNER	R STREET D, N.Y. 13126	SUB	MITTED BYE H	EERKENS	

0933	DIVI	TORN STATE DEPARTM SION OF LABORATORIE NVIRONMENTAL HEALTH	S AND RESE		Reference 29 Page 37 of 115
LAB ACCES	SION NO: 00510	RESULTS OF EXAMINA (PAGE 1 OF 1) YR/MO/DAY/HR SAMPL		0/05/28/11	(
PROGRAM: STATION (	SOURCE) NO:	ZETTEER NOI 3762 CO	ARISH DUNTY: OSW	IEGO	•
COORDINAT	ES: DEG !		in W		(
TYPE OF S				)) CHEM (0)	(
PARA	METER		UNIT	RESULT	NOTATION
010001	IRON		MG/L	0.06	(
010201	MANGANESE		MG/L	0.07	(
					5

THE ABOVE RESULTS MEET THE RECOMMENDED STANDARDS SET FORTH IN THE N.Y.S. PART 5 SANITARY CODE

DATE COMPLETED: 6/05/80

#### RECEIVED

JUN 0 9 1980

OSWEGO COUNTY HEALTH DEPT.

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PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

Í	1452	DIV ION OF LABORAT		ARCH	Reference 29 Page 38 of 11	
	REPORTING PROGRAM: STATION C DRAINAGE COORCINAT COMMON NA EXACT SAM TYPE OF S MO/DAY/HR	BASIN: 03 NY GAZETTEER NU: 370	(1) SAMPLE REC.D: 80 (1) PRCSH SZ COUNTY: 05H EIN RES PARISH 6/09/10	EGO	:	
		METER	UNIT	RESULT	NOTATION	
4	023609	1.1.1-TRICHLORGETHANE	HCG/L	5.	LT	
	036609	CARBON TETRACHLORIDE	HCG/L	5.	LT	
1	038909	BROHODICHLOROMETHANE	HCG/L	2.	LT (	
	039009	CHLOROFORM	NCG/L	5.	LT	
н	041109	TRICHLORDETHYLENE	NCG/L	5.	LT	
2	041209	TETRACHLOROETHYLENE	NCG/L	2.	LT	
1	042109	BRONDFORM	NCG/L	5.	LT	
1	044909	DIBRONOCHLOROMETHANE	HCG/L	2.	LT	
U	034409	BENZENE	NCG/L	1.	LT	
ġ,	034509	XYLENES	MCG/L	1.	LT	
	039209	TOLUENE	MCG/L	1.	LT	
1				THEAD	· · · · ·	

DATE COMPLETED: 6/20/80

THE ABOVE RESULTS MEET THE FORTH IN THE STANDARDS SET RECEIVED JUN 2 6 1980

OSWEGO COUNTY HEALTH DEPT.

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: HEERKENS

RECEIVED JUN 2 3 1980 "WESO COUNTY HEALTH DEDT

June 19, 1980

Mr. & Mrs. David Vecchio Rice Road Parish, NY 13131

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Dear Mr. & Mrs. Vecchio:

Attached is a photocopy of an additional laboratory report for a water sample at your home on June 3, 1980. This is the 4th such report that we have sent you. This report indicates the concentrations for Benzene, Xylenes, Toluene were at less than 1 microgram per liter.

If you have any questions, please feel free to call me at 473-8374.

Very truly yours,

James M. McCarthy, P.E. Director of Public Health Engineering

Attachment

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cc: Oswego County Health Dept.

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Reference 29 Page 40 of 115

RECEIVED JUN 271980 OSWEGO COUNT HEALTH DEET.

June 16, 1980

Mr. & Mrs. David A. Vecchio Rice Road Parish, New York 13131

Dear Mr. & Mrs. Vecchiot

Attached are the inorganic chemical results for a sample collected from your well on 4/22/80.

The results indicate that those parameters analyzed are within the standard for public water supplies as specified in Part 5 of the New York State Sanitary Code except for Nitrate which was reported at 11.0 milligrams per liter while the standard for public sources of water calls for no more than 10.0 milligrams per liter. A copy of Part 5 is enclosed and you will find the maximum contaminant levels for inorganic chemicals on Pages 13 and 15.

The significance of Nitrate is that it could cause methemoglobinemia in children less than six months.

The source of Nitrate in the water may be domestic sewage or possibly from fertilizers. We requested that the Oswego County Health Dept. resampleathe well in an attempt to determine the source. We have enclosed some reference material concerning Nitrates in drinking water.

In reviewing the results you will note that the levels specified in the code are in milligrams per liter or part per million, the symbol for which is MG/1. Some of the results are reported in micrograms per liter or parts per billion, the symbol for which is MCG/1. As an example, 0.05 milligrams per liter is equal to 50.0 micrograms per liter.

Also enclosed for your information is the booklet, "Rural Water Supply" which provides some background on well construction and development. As discussed with Mr. Heerkens last week, it is recommended that you locate and unearth the well and inspect it to determine whether it is adequately protected. The Oswego County Health Dept. can help you with this and they may be contacted at 349-3250.

Reference 29 Page 41 of 115

Mr. & Mrs. David A. Vecchio June 16, 1980

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and a

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Should you have any questions, feel free to contact this office at 473-8374.

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Very truly yours,

James McCarthy, P.E. Regional Director of Public Health Engineering

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JMM:kfb Attachment cc: Oswego County Health Dept.

Reference 29 Page 42 of 115

May 30, 1980

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Mr. & Mrs. David Vecchio Rice Road Parish, N.Y. 13131

Dear Mr. & Mrs. Vecchio:

Attached is a photocopy of an additional laboratory report for a water sample collected at your home on April 22, 1980. You will remember the copy of the bacteriological report that I sent you on May 5, 1980.

The results are all satisfactory except for the positive result reported for Benzene.

As you remember resamples were collected from your home on May 13, 1980 and the laboratory has reported by telephone that reportable levels of Benzene were not present. However, printed copies of these reports are not yet available. They will be sent as soon as possible.

We do not know for sure why the first samples collected from your well had positive levels of Benzene present and the second sample was negative for Benzene. But we are concerned and will resample your home shortly.

The results of some Parameters or chemicals tested are reported as 5 LT which means less than 5 micrograms per liter. This is the lowest value which the laboratory will ever report on the minimum detectable limit.

The following chemicals have a minimum detection of 5 microgram/Miter.

- 1. 1. 1. 1 Trichloroethane
- 2. Carbon Tetrachloride
- 3. Chloroform
- 4. Trichloroethylene
- 5. Bromoform

The following chemicals have a minimum detection limit of 2 micrograms per liter.

- 1. Bromodichloromethane
- 2. Tetrachloroethylene
- 3. Dibromochloromethane

Reference 29 Page 43 of 115

The following chemicals have a minimum detection limit of 1 microgram per liter.

1. Benzene

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2. Xylene

3. Toluene

Therefore, a result of 1, 1, 1-Trichloroethane MCG/L 5 LT should be read as less than detectable amounts of 1, 1, 1-Trichloroethane.

A result for Benzene of MCG/3 would mean that the sample contained 3 micrograms per liter of Benzene.

If you have any questions please feel free to call me at 473-8374.

Very truly yours,

James M. McCarthy, P.E. Director of Public Health Engineering

JHM:kfb Attach.

cc: Oswego County Health Dept.

	0869			PARTMENT OF HEAL	Ball	Reference 29 Page 58 of 115
			NVIRONMENTAL H	TORIES AND RESEA	RE	CEIVED
(			RESULTS OF EX	ANTHATION	M.	AY 2 2 1980
ļ	LAB ACCESS	ION NO: 80517	(PAGE 1 0		OSWEGO 104/23/16	COUNTY HEALTH DEPT
1	PROGRAM: 1 STATION (S DRAINAGE B COORDINATE	LAB: 17 EHC AN 06 TOXIC SUBST OURCE) NO: ASIN: 03 NY GA S: DEG ' E INCL SUBW'SH	. MGT. ZETTEER NO: 37 "N, DEG	i i W	GQ	•
1	TYPE OF SA MO/DAY/HR	LING POINT: CHI MPLE: 12 WATER OF SAMPLING: FI T TO: CO (1) RI	, DRILLED WELL ROM 00/00 TO 0		CHEM (1)	
Ľ	PARAM	ETER		UNIT	RESULT	NOTATION
	023609	1.1.1-TRICHLO	ROETHANE	MCG/L	5. 1	LT
	036609	CARBON TETRACI	HLORIDE	MCG/L	5.	LT
	038909	BROMODICHLORO	METHANE	MCG/L	2.	LT
	039009	CHLOROFORM		HCG/L	5.	LT
	041109	TRICHLOROETHY	LENE	HCG/L	5.	LT
	041209	TETRACHLUROET	HYLENE	HCG/L	2.	LT .
17	042109	BROMOFORM		MCG/L	5,	LT
ļ	044909	DIBROMOCHLORO	HETHANE	MÇG/L	2.	LT
1	034409	DENZENE		MCG/L	3.)	
-	034509	XYLENES		MCG/L	1.	LT
	039209	TOLUENE		MCG/L	1.	LT (
1				١	i	(

DATE COMPLETED: 5/14/80

THE RESULTS CIRCLED ABOVE DO NOT MEET THE RECOMMENDED STANDARDS SEX FORTH IN THE N.Y.S. PART & SANITARY CODE

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTHENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: MCCARTHY

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(	0682	DIVI	YORK TATE DEP ISION OF LABORAT ENVIRONMENTAL HE	ORIES AND RESE	LTH( ARCH	Reference 29 Page 59 of 115
	LAB ACCE	SSION NO: 80649	RESULTS OF EXA (PAGE 1 OF YR/MO/DAY/HR S	1)	0/05/15/09	
	PROGRAM: STATION DRAINAGE COORDINA	TESI DEG	TETTEER NOT 376	i iW	EGQ	•
8	TYPE OF MO/DAY/H	MPLING POINT: CH SAMPLE: 12 WATER R OF SAMPLING: F ENT TO: CO (1) F	RT ROM 00/00 TO 05 ROM (2) LPHE (1)	/14/10 LHO (0) FED (0	) CHEM (1)	
	PAR	AMETER		UNIT	RESULT	NOTATION
	034409	BENZENE		MCG/L	1.	LT
-	034509	XYLENES		MCG/L	1.	LT
	039209	TOLUENE		HCG/L	1.	LT
'n		· ·			· The second second	

DATE COMPLETED: 5/23/80

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JUN 0 4 1980

OSWEGO COUNTY HEALTH DEPT.

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: MCCARHTY

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1230       NEW YORK "TATE DEPARTMENT OF HEALTH DIV( JON (LABORATORIES AND REL ARCK ENVIRONMENTAL HEALTH CENTER       Refere Page 6         1230       RESULTS OF EXAMINATION (PAGE 1 OF 1)       Results of Examination (PAGE 1 OF 1)       Refere Page 6         1230       RESULTS OF EXAMINATION (PAGE 1 OF 1)       Refere Page 6       Results of Examination (PAGE 1 OF 1)       Refere Page 6         1230       RESULTS OF EXAMINATION (PAGE 1 OF 1)       Refere Page 6       Refere Page 6       Refere Page 6         1230       RESULTS OF EXAMINATION (PAGE 1 OF 1)       Refere Page 6       Refere Page 6       Refere Page 6         1230       REPORTING LAB: 17 EMC ALBANY PROGRAM: 106 TOXIC SUBST. MGT.       Refere Page 6       Refere Page 6         REPORTING LAB: 17 EMC ALBANY PROGRAM: 106 TOXIC SUBST. MGT.       Station (SOURCE) NO: 005       Source 1 NO: 006/04/10         REPORTING LAB: 17 EMC ALBANY PROGRAM: 106 TOXIC SUBST. MGT.       Station (SOURCE) NO: 005       Source 1 NO: 006/03/10         OGORDINATES: DEG ' MN, DEG ' MH       DEG ' MN       DEG ' MN       Source 1 NO: 006/03/11         EXACT SAMPLING POINT: CWKT       TYPE OF SAMPLE (S END (0) CO (D) FED (O) CHEM (1)       RESULT NOTATI         MC/DAY/HR OF SAMPLE (S END (C) CO (D) RO (C) HO (C) FED (O) CHEM (1)       RESULT NOTATI         034409       BENZENE       MCG/L 1:       LT         034409       BENZENE       <	
(PAGE:1 OF 1)         LAB ACCESSION NOI 80765 YR/MO/DAY/HR SAMPLE RECTD: 80/06/04/10         REPORTING LAB: 17 EHC ALBANY         PROGRAM: 106 TOXIC SUBST. MGT.         STATION (SOURCE) NO:         DRAINAGE: BASIN: 03 NY GAZETTEER NO: 3762 COUNTY: OSWEGO         COORDINATES:       DEG         DEG       N,         DCONDINATES:       DEG         COMMON NAME INCL SUBW'SHED: COMSTOCK RES PARISH         EXACT SAMPLING POINT: CWKT         TYPE OF SAMPLE: 12 WATER, DRILLED WELL         MO/DAY/HR OF SAMPLING: FROM 00/00 TO 06/03711         REPORT SENT TO: CO (1) RO (2) LPHE (1) LHO (0) FED (0) CHEM (1)         PARAMETER         034409       BENZENE         034509       XYLENES	nce 29 0 of 115
PROGRAM: 106 TOXIC SUBST. MGT.         STATION (SOURCE) NO:         DRAINAGE BASIN: 03 NY GAZETTEER NO: 3762 COUNTY: OSWEGO         COORDINATES:       DEG         DEG       "N, DEG         COMMON NAME INCL SUBW'SHED: COMSTOCK RES PARISH         EXACT SAMPLING POINT: CWKT         TYPE OF SAMPLE: 12 WATER, DRILLED WELL         MO/DAY/HR OF SAMPLING: FROM 00/00 TO 06/03/11         REPORT SENT TO: CO (1) RO (2) LPHE (1) LHO (0) FED (0) CHEM (1)         PARAMETER         034409       BENZENE         MCG/L       1.         034509       XYLENES	
DRAINAGE BASINE 03 NY GAZETTEER NOI 3762 COUNTY: OSWEGO COORDINATESE DEG IN, DEG INW COMMON NAME INCL SUBWISHEDE COMSTOCK RES PARISH EXACT SAMPLING POINTECWET TYPE OF SAMPLE: 12 WATER, DRILLED WELL MO/DAY/HR OF SAMPLING: FROM 00/00 TO 06/03/11 REPORT SENT TO: CO (1) RO (2) LPHE (1) LHO (0) FED (0) CHEM (1) PARAMETER UNIT RESULT NOTATI 034409 BENZENE MCG/L 1. LT 034509 XYLENES MCG/L 1. LT	Ę
EXACT SAMPLING POINT: CWKT TYPE OF SAMPLE: 12 WATER, DRILLED WELL MO/DAY/HR OF SAMPLING: FROM 00/00 TO 06/03/11 REPORT SENT TO: CO (1) RO (2) LPHE (1) LHO (0) FED (0) CHEM (1) PARAMETER UNIT RESULT NOTATI 034409 BENZENE MCG/L 1. LT 034509 XYLENES MCG/L 1. LT	•
MO/DAY/HR OF SAMPLING: FROM 00/00 TO 06/03/11 REPORT SENT TO: CO (1) RO (2) LPHE (1) LHO (0) FED (0) CHEM (1)PARAMETERUNITRESULTNOTATI034409BENZENEMCG/L1.LT034509XYLENESMCG/L1.LT	(
034409 BENZENE MCG/L 1. LT 034509 XYLENES MCG/L 1. LT	(
034509 XYLENES MCG/L 1. LT	ON
039209 TOLUENE MCG/L 1. LT	

THE ABOVE RESULTS MEET THE RECOMMENDED STANDARDS SET FORTH IN THE N.Y.S. PART 5 SANITARY CODE

DATE COMPLETEDE 6713780

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126 RECEIVED JUN 1 9 1980 DOWEGO COUNTY HEALTH DEPT. ŧ

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SUBMITTED BY: HEERKENS

Reference 29 Page 61 of 115

RECEIVED JUN 2 3 1980 DSWEGO COUNTY HEALTH DEPT.

June 19, 1980

Mr. & Mrs. James J. Forkhamer R.D. #1, Rt. 38 Parish, NY 13131

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Dear Mr. & Mrs. Forkhamer:

Attached is a photocopy of an additional laboratory report for a water sample at your home on June 3, 1980. This is the 4th such report that we have sent you. This report indicates the concentrations for Benzene, Xylenes, Toluene were at less than 1 microgram per liter.

If you have any questions, please feel free to call me at 473-8374.

Very truly yours,

James M. McCarthy, P.E. Director of Public Health Engineering

(

Attachment

cc: Oswego County Health Department

Reference 29 Page 62 of 115

June 6, 1980

Mr. & Mrs. James J. Forkhamer R.D. #1, Route 38 Parish, New York 13131

1

Dear Mr. & Mrs. Forkhamer:

Attached is a photocopy of an additional laboratory report for a water sample at your home on May 13, 1980. This is the third such report that we have sent you. This report indicates the concentrations for Benzene, Xylenes, Toluene were at less than 1 microgram per liter.

An additional test was taken at your home on June 4, 1980.

If you have any questions, please feel free to call me at 473-8374.

Very truly yours,

James M. McCarthy, P.E. Director of Public Health Engineering

JMM: kfb Attach.

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cc: Oswego County Health Dept.

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JUN 1 2 1960

OSWEGO COUNTY HEALTH DEPT.

Reference 29 Page 63 of 115

May 28, 1980

Mr. & Mrs. James J. Forkhamer RD #1, Route 38 Parish, N.Y. 13131

Dear Mr. & Mrs. Forkhamer:

Attached is a photocopy of an additional laboratory report for a water sample collected at your home on April 22, 1980. You will remember the copy of the bacteriological report that I sent you on May 5, 1980.

The results are all satisfactory except for the positive result reported for Benzene.

As you remember resamples were collected from your home on May 13, 1980 and the laboratory has reported by telephone that reportable levels of Benzene were not present. However, printed copies of these reports are not yet available. They will be sent as soon as possible.

We do not know for sure why the first samples collected from your well had positive levels of Benzene present and the second sample was negative for Benzene. But we are concerned and will resample your home shortly.

The results of some Parameters or chemicals tested are reported as 5 LT which means less than 5 micrograms per liter. This is the lowest value which the laboratory will ever report on the minimum detectable limit.

The following chamicals have a minimum detection of 5 micrograms/liter.

- 1. 1. 1. 1-Trichlorosthane
- 2. Carbon Tetrachloride
- 3. Chloroform
- 4. Trichloroethylene
- 5. Bromoform

The following chemicals have a minimum detection limit of 2 micrograms per liter.

- 1. Bromodichloromethane
- 2. Tetrachloroethylene
- 3. Dibromochloromethane

The following chemicals have a minimum detection limit of 1 microgram per liter.

- 1. Benzene
- 2. Xylene
- 3. Toluene

Therefore, a result of 1, 1, 1-Trichloroethane MCG/L 5 LT should be read as less than detectable amounts of 1, 1, 1-Trichloroethane.

A result for Benzene of MCG/L 2 would mean that the sample contained 2 micrograms per liter of Benzene.

If you have any questions plasse feel free to call me at 473-8374.

Very truly yours,

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James M. McCarthy, P.E. Director of Public Health Engineering

JHM:kfb Attach.

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cc: Oswego County Health Department

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1327	DIVI	( JRK( FATE DEPAR SION OF LABORATOR NVIRONMENTAL HEAL	IES AND RESE	.TH ( ARCH	Reference 29 Page 65 of 115	
LAB ACCES	SION NO: 07920	RESULTS OF EXAM (PAGE 1 UF 1 YR/MO/DAY/HR SAM	)	0/04/22/14	. (	
PROGRAM: STATION ( DRAINAGE COORDINATI	REPORTING LAB: 30 SYRACUSE LAB PROGRAM: 106 TOXIC SUBST. MGT. STATION (SOURCE) NO: DRAINAGE BASIN: 03 NY GAZETTEER NO: 3762 COUNTY: OSWEGO COORDINATES: DEG ' "N, DEG ' "W COMMON NAME INCL SUBW'SHED: FORKHAMER RES					
MO/DAY/HR	AMPLE: 12 WATER OF SAMPLING: F	P PUMP DISCHARGE , DRILLED WELL ROM 00/00 TU 04/2 0 (2) LPHE (1) LH		) CHEM (1)	(	
PARA	HETER		UNIT	RESULT	NOTATION	
026800	STD PL COUNT			3.	1	
027000	COLIF MF COL/	100mL		1.	LT	

This microbiological analysis indicates that the water was wan not of a satisfactory sanitary quality when the sample was collected. Oswego County Health Dept.

grdi J. utite

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OSWEGO COUNTS AF ANT OF

DATE COMPLETED: 4/24/80

PUBLIC HEALTH ENGINEER OSWEGU COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

	0863	DIVI	SION OF LABORAT NVIRONMENTAL HE RESULTS OF EXA (PAGE 1 OF	MINATION	RCH RE MA	Reference 29 Page 66 of 11! CEIVEE Y 2 2 1980			
	REPORTING LAB: 17 EHC ALBANY PROGRAM: 106 TOXIC SUBST. MGT. STATION (SOURCE) NO: DRAINAGE BASIN: 03 NY GAZETTEER NO: 3762 COUNTY: OSWEGO COORDINATES: DEG ' "N. DEG ' HW COMMON NAME INCL SUBW'SHED: FORKHAMER RES PARISH								
	TYPE OF SAI MO/DAY/HR	MPLE: 12 WATER OF SAMPLING: FI	P AT PUMP DISCH DRILLED WELL ROM 00/00 TO 04 D (2) LPHE (1)		CHEM (1)	•			
2	PARAM	ETER		UNIT	RESULT	NOTATION			
	023609	1,1,1=TRICHLO	ROETHANE	MCG/L	5.	LT			
6	036609	CARBON TETRACI	LORIDE	MCG/L	5.	LT			
	038909	BROMODICHLORO	METHANE	MCG/L	2.	LT			
	039009	CHLOROFORM		MCG/L	5.	LT			
-	041109	TRICHLOROETHY	LENE	MCG/L	5,	LT			
	041209	TETRACHLORUET	HYLENE	MCG/L	2.	LT			
	042109	BROMOFORM		MCG/L	5.	LT			
	044909	DIBROMOCHLURO	THANE	MCG/L	2,	LT			
n.	034409	BENZENE		MCG/L	2.)				
1	034509	XYLENES		MCG/L	1.	LT			
	039209	TOLUENE		MCG/L	1.	LT (			
1						(			

DATE COMPLETED: 5/14/80

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126 THE RESULTS CIRCLED ABOVE DO NOT MEET THE RECOMMENDED STANDARDS SET FORTH IN THE N.Y.S. PART 5 SANITARY CODE

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1344	NEW JRK TATE DEPA DIVISION OF LABORATO	RIES AND RESE		Reference 29 Page 67 of 11
	ENVIRONMENTAL HEA	LTH CENTER		
(	RESULTS OF EXAM (PAGE 1 OF			
LAB ACCE	SSION NO: 00872 YR/MU/DAY/HR SA	MPLE REC'DI 8	0/04/22/14	
PROGRAM STATION	IG LAB: 33 SYRACUSE LAB 106 TOXIC SUBST. MGT. (SOURCE) NO:	TIPPARISH		
COORDINA	DASTN. US NT GAZETTEER NUT SIGO	COUNTY: OSH	IEGO	
COMMON N	IAME INCL SUBW'SHED: FURKWARREN R	ES		
	MPLING POINT: TAP PUMP DISCHARGE			
MO/DAY/H	SAMPLE: 12 HATER, DRILLED WELL IR OF SAMPLING: FROM 00/00 TO 04/	22/10	100	
REPORT S	SENT TO: CO (1) RO (2) LPHE (1) L	.HO (0) FED (0	)) CHEM (1)	
PAF	RAMETER	UNIT	RESULT	NOTATION
000401	FLUORIDE, FREE	MG/L	.1	
000801	NITROGEN, NITRATE&NITRITE	MG/L	.1	LT
009401	BARIUM	MG/L	0.5	LT
e 010309	MERCURY, TOTAL	MCG/L	0.4	LT
010601	SILVER	MG/L	0.02	LT
309309	ARSENIC	HCG/L	10.	
309709	CADMIUM	MCG/L	2,	LT
309809	CHROMIUM	HCG/L	10.	LT
310109	LEAD	MCG/L	10.	LT
310509	SELENIUM	HCG/L	5.	LT (
100300	ODUR, COLD		2.SULFUR	2
001900	PH (LABORATORY)		7.8	
101501	ALKALINITY, ELECTROM. PH4.5	MG/L	149.	
DATE COM	PLETED: 6/10/80			
			RECEN	

RECEIVED JUN 1 6 1980 NSWEGO COUNTY HEALTH DEPT.

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: MCCARTHY

1345	NE( 'ORK STATE DEPA DIVISION OF LABORATO ENVIRONMENTAL HEA	RIES AND RESE		Reference 29 Page 68 of 115	\$
LAB ACCES	RESULTS OF EXAM (PAGE 2 OF SSIUN NO: 00872 YR/MO/DAY/HR SA	2)	0/04/22/14		(
PROGRAM: STATION DRAINAGE COORDINA	G LAB: 33 SYRACUSE LAB 106 TOXIC SUBST. MGT. (SOURCE) NO: BASIN: 03 NY GAZETTEER NO: 3762 TES: DEG ' "N, DEG AME INCL SUBW'SHED: FORKWARREN F	a úW	EGO	•	e E
MO/DAY/HE REPORT SE	APLING POINT: TAP PUMP DISCHARGE SAMPLE: 12 WATER, DRILLED WELL R OF SAMPLING: FROM 00/00 TO 04/ ENT TO: CO (1) RO (2) LPHE (1) L	/22/10 .HU (0) FED (0		NOTATION	ŧ
-	METER	UNIT	RESULT	NOTATION	
001101	HARDNESS, TOTAL AS CACO3	MG/L	160.		ł
010701	SODIUM	MG/L	7.1		
001001	CHLORIDE	MG/L	5,	LT	Ļ.
106501	C.O.D.	MG/L	12,09		ŧ
8	THE ABOVE RESU RECOMMENDED S FORTH IN THE N	stanuarud Jei			÷

SANITARY CODE

1.45.8

DATE COMPLETED: 6/10/80

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126 ť

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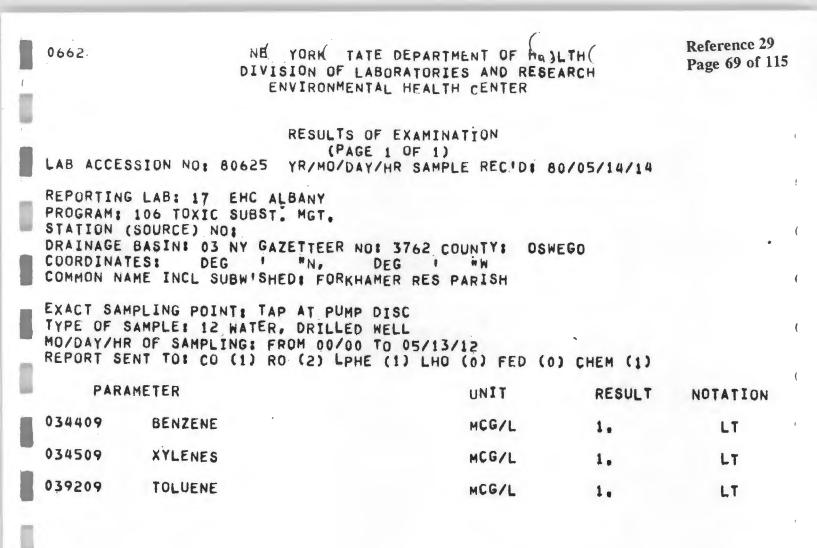
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DATE COMPLETED: 5/23/80

# RECEIVED

## JUNO 4 1980

OSWEGO COUNTY HEALTH DEPT.

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: HCCARTHY

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	1213	DIVI	YORK STATE DEPAR ON LABORATOR NVIRONMENTAL HEAL	IES AND RE		Reference 29 Page 70 of 11	.5
	LAB ACCESS	ION NO1 80762	RESULTS OF EXAMI (PAGE 1 OF 1 YR/MO/DAY/HR SAM	).	0/06/04/10		ł
	PROGRAM: 10 STATION (SC DRAINAGE BA COORDINATES	SINE 03 NY GA	ZETTEER NOI 3762 NOT DEG EDI FORKHAMMER RE	in W	EGO		۲ (
	TYPE OF SAN MO/DAY/HR (	OF SAMPLINGS F	ROM 00/00 TO 06/0 C (2) LPHE (1) LH	3711 10 (0) FED (0	) CHEM (1)		(
	PARAME	ETER		ÜNIT	RESULT	NOTATION	ŧ
	034409	BENZENE		MCG/L	1.	LT'	,
	034509	XYLÈNÈS		MCG/L	1.	LT	
0	039209	TOLUENE		NCG/L	1:	LT	i
Ξ.							

THE ABOVE RESULTS MEET THE RECOMMENDED STANDARDS SET FORTH IN THE N.Y.S. PART 5 SANITARY CODE

DATE COMPLETED: 6/13/80

RECEIVED

JUN 1 9 1980

OSWEGO COUNTY HEALTH DEPT.

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: HEERKENS

Reference 29 Page 71 of 115

June 6, 1980

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Mr. & Mrs. Alfred Parker RD #1, Bangall Road Parish, New York 13131

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Dear Mr. & Mrs. Parker:

Attached is a photocopy of an additional laboratory report for a water sample at your home on May 13, 1980. This is the 3rd such report that we have sent you. This report indicates the concentrations for Benzene, Kylenes, Toluene were atlless than lumicrogram per liter.

An additional test was taken at your home on June 4, 1980.

If you have any questions, please feel free to call me at 473-8374.

Very truly yours,

James M. McCarthy, P.E. Director of Public Health Engineering

JMM: kfb Attach.

cc: Oswego County Health Dept.

RECEIVED

JUN 1 2 1900

USWEED COUNTY HEALTH DEPT

Reference 29 Page 72 of 115

May 28, 1980

(

Mr. Alfred Parker RD #1, Bangall Road Parish, N.Y. 13131

Dear Mr. Parker:

Attached is a photocopy of an additional laboratory report for a water sample collected at your home on April 22, 1980. You will remember the copy of the bacteriological report that I sent you on May 5, 1980.

The results are all satisfactory except for the positive result reported for Benzene.

As you remember resamples were collected from your home on May 13, 1980 and the laboratory has reported by telephone that reportable levels of Benzene were not present. However, printed copies of these reports are not yet available. They will be sent as soon as possible.

We do not know for sure why the first samples collected from your well had positive levels of Benzene present and the second sample was negative for Benzene. But we are concerned and will resample your home shortly.

The results of some Parameters or chemicals tested are reported as 5 LT which means less than 5 micrograms per liter. This is the lowest value which the laboratory will ever report on the minimum detectable limit.

The following chemicals have a minimum detection of 5 micrograms/liter.

- 1. 1, 1, 1-Trichloroethane
- 2. Carbon Tetrachloride
- 3. Chloroform
- 4. Trichloroethylene
- 5. Bromoform

The following chemicals have a minimum detection limit of 2 micrograms per liter.

- 1. Bromodichloromethane
- 2. Tetrachloroethylene
- 3. Dibromochloromethane

The following chemicals have a minimum detection limit of 1 microgram per liter.

1. Benzene

1

2. Xylene

3. Toluene

Therefore, a result of 1, 1, 1-Trichloroethane MCG/L 5 LT should be read as less than detectable amounts of 1, 1, 1-Trichloroethane

A result for Benzene of MCG/L 6 would mean that the sample contained 6 micrograms per liter of Benzene.

If you have any questions please feel free to call me at 473-8374.

Very truly yours,

James M. McCarthy, P.E. Director of Public Health Engineering

JMM:kfb Attach.

cc: Oswego County Health Dept.

1315	DIVI	JRK ( ATE DEPAR SION OF LABORATOR NVIRONMENTAL HEAD	RIES AND RESI	EARCH	Reference 2 Page 74 of	
LAB ACCE	SSIUN NO: 07918	RESULTS OF EXAMI (PAGE 1 OF 1 YR/MU/DAY/HR SAM		80/04/22/14		÷
PROGRAM: STATION DRAINAGE COORDINA	TES: DEG !	ZETTELR NU: 3762	I HW			(
MO/DAY/H				0) CHEM (1)		(
PAR	AMETER		UNIT	RESULT	NOTATION	(
026800	STO PL COUNT			27.		ĺ
027000	COLIF MF COL/	100ML		1.	LT	

This microbiological analysis indicates that the water was was-not-of a estimate of a estimate was collected. Oswege County Health Dept.

Waternan a

DATE COMPLETED: 4/24/80

PUBLIC HEALTH ENGINEER OSHEGU COUNTY HEALTH DEPARTHENT BUNNER STREET OSWEGO, N.Y. 13126 RECEIVER

APR 3 0 1980

OSWEGO COUNTY HEALTH DE

SUBMITTED BY: MCCARTHY

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REPORTING LAB PROGRAM: 106 STATION (SOUR DRAINAGE BASI COORDINATES: COMMON NAME I EXACT SAMPLIN TYPE OF SAMPL MO/DAY/HR OF	NI 04 NY GAZETTEER NOI 3762 C DEG ' "N, DEG ' NCL SUBW'SHED: PARKER RESIDEN G POINT: CWT KITCHEN SINK E: 00 PWS, RAW WATER SAMPLING: FROM 00/00 TO 04/22 OI CO (1) RO (2) LPHE (1) LHO	PLE REC'D: 8 PLE REC'D: 8 PLE REC'D: 8 PLE SANGALL PLE BANGALL PLE CO FED (0	EGO RD.	•
PROGRAM: 106 STATION (SOUR DRAINAGE BASI COORDINATES: COMMON NAME I EXACT SAMPLIN TYPE OF SAMPL MO/DAY/HR OF	TOXIC SUBST. MGT. CE) NO: NI 04 NY GAZETTEER NO: 3762 C DEG ' "N, DEG ' NCL SUBW'SHED: PARKER RESIDEN G POINT: CWT KITCHEN SINK E: 00 PWS, RAW WATER SAMPLING: FROM 00/00 TO 04/22 O: CO (1) RO (2) LPHE (1) LHC	NCE, BANGALL 2/10 0 (0) FED (0	RD.	: • •
TYPE OF SAMPL MO/DAY/HR OF	E: 00 PWS, RAW WATER SAMPLING: FROM 00/00 TO 04/22 O: CO (1) RO (2) LPHE (1) LHO	) (0) FED (0	) CHEM (1)	(
	R			
PARAMETE		UNIT	RESULT	NOTATION
000401 FL	UORIDE, FREE	MG/L	.3	4
000801 NI	TROGEN, NITRATE&NITRITE	MG/L	.1	LT
009401 BA	RIUM	MG/L	0.5	
010309 ME	RCURY, TOTAL	MCG/L	0.4.	LT
010601 SI	LVER	MG/L	50.0	LT
309309 AR	SENIC	MCG/L	19.	
309709 CA	DMIUM	MCG/L	2.	LT
309809 CH	ROMIUM	MCG/L	10-	LT
310109 LE	AD	MCG/L	10.	LT
310509 SE	LENIUM	MCG/L	5.	LT
100300 UD	OR, COLD		2.SULFUR	
001900 PH	(LABORATORY)		7.9	
101501 AL	KALINITY, ELECTROM. PH4.5	HG/L	157.	
DATE COMPLETE				

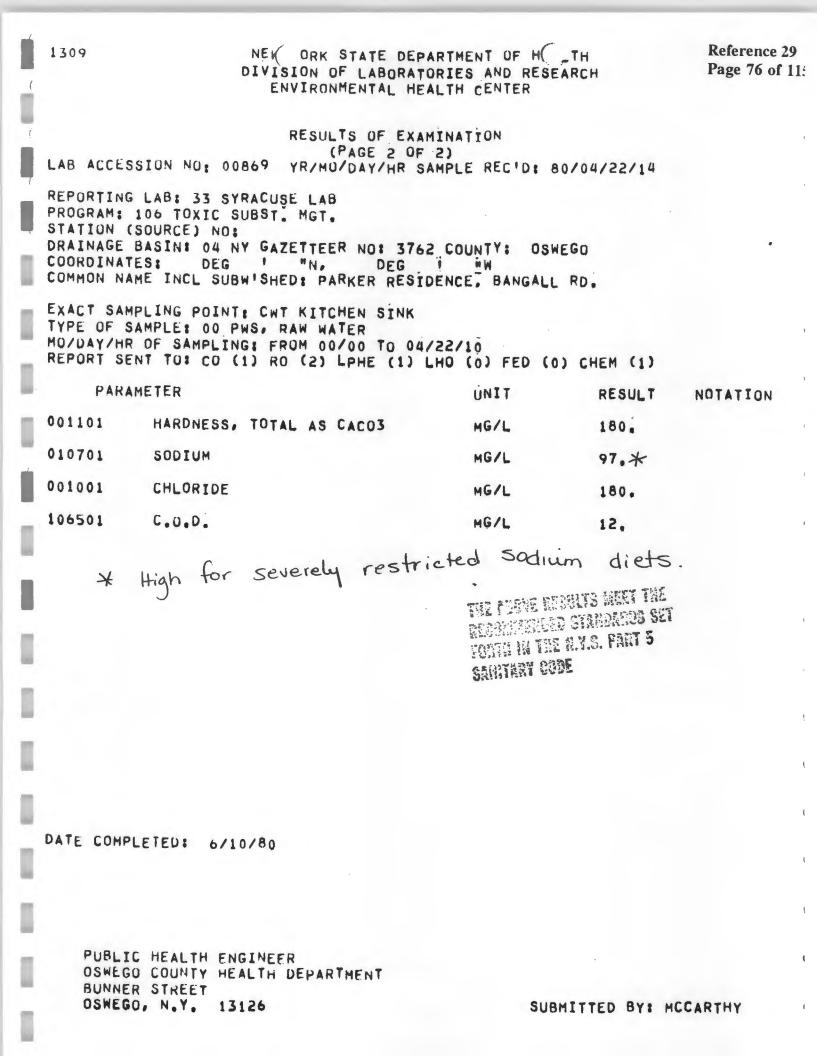
RECEIVED JUN 1 6 1980 Oswego county health dept.

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: MCCARTHY

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	0888	DIVISION OF LAB	DEPARTMENT OF HEALTH ORATORIES AND RESEARCH L HEALTH CENTER	RECE MAY 2:	Reference 29 Page 77 of 115 2 1980
(	LAB ACCESS		EXAMINATION 1 OF 1) HR SAMPLE REC'D: 80/04	WERD CHUNTY	HEALTH DEPT.
Į	PROGRAM: 1 STATION (S DRAINAGE B COORDINATE	ASINE NY GAZETTEER NOE	EGINW		•
	TYPE OF SAMO/DAY/HR	LING POINT: CW TAP KIT SI MPLE: 00 PWS, RAW WATER OF SAMPLING: FROM 00/00 TO T TO: CO (1) RO (2) LPHE	0 04/22/10	EM (1)	ť
1	PARAM	ETER	ÜNIT	RESULT	NOTATION
	023609	1,1,1=TRICHLOROETHANE	MCG/L	5,	LT
ń	036609	CARBON TETRACHLORIDE	MCG/L	5.	LT
1	038909	BROMODICHLOROMETHANE	HCG/L	2.	LT
	039009	CHLOROFORM	MCG/L	5.	LT
	041109	TRICHLOROETHYLENE	MCG/L	5.	LT
	041209	TETRACHLOROETHYLENE	MCG/L	2.	LT
i.	042109	BROMOFORM	MCG/L	5.	LT
ţ	044909	DIBROMOCHLOROMETHANE	MCG/L	2.	LT
	034409	BENZENE	MCG/L	6.	
¥.,	034509	XYLENES		1.	LT
	039209	TOLUENE	MCG/L	1.	LT
in.					

DATE COMPLETED: 5/14/80

THE RESOLTS FIRCLED ABOVE DO NOT MEEX THE RECOMMENDED STANDARDS SET FORTH IN THE N.Y.S. PART 5 SANHARY CODE

PUBLIC HEALTH ENGINEER OSWEGU COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: NOTGIVEN

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	0648	DIVI	SION OF LABOR	DEPARTMENT OF H. A RATORIES AND RESE HEALTH CENTER	LTH( ARCH	Reference 29 Page 78 of 1	15
	LAB ACCESS	SION NO: 80623	RESULTS OF E (PAGE 1 YR/MO/DAY/HF		0/05/14/14		ſ
	PROGRAM: 1 STATION (S DRAINAGE E COORDINATE		. MGT. ZETTEER NO: 3 "N, DEG	5762 COUNTY: OSW			(
	TYPE OF SA MO/DAY/HR	LING POINT: CW MPLE: 00 PWS, OF SAMPLING: F IT TO: CO (1) R	RAW WATER ROM 00/00 TO	05/13/13 2) LHO (0) FED (0	) CHEM (1)		(
1	PARAM	IETER		UNIT	RESULT	NOTATION	Ĭ
	034409	BENZENE		MCG/L	1.	LT	(
	034509	XYLENES		MCG/L	1.	LT	
	039209	TOLUENE		MCG/L	1.	LT	l
m							(

DATE COMPLETED: 5/23/80

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### JUNO 410

OSWEGO COUNTY HE'LL

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: NOTGIVEN

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	224 ·	DIVÍ	YORK STATE DE ON ( LABORA VIRONMENTAL H	PARTMENT OF HEA TORIES AND RE EALTH CENTER	LTH ARCH	Reference 29 Page 79 of 1	
	AB ACCESSION	I NOI 80764	RESULTS OF EX (PAGE 1 O YR/MU/DAY/HR		0/06/04/10		<
P	ROGRAM: 106 TATION (SOUR		BANY MGT. ETTEER NOI 37	62 COUNTY I OSW	EGO		(
	DORDINATES: Ommon name i Kact samplin	DEG I INCL SUBWISHE	"N, DEG D: PARKÉR RES	PARÍSH		•	(
M	DIDAY HR OF	SAMPLING: FR	DRILLED WELL Rom.00/00 To 0 (2) LPHE (1)	6/03/11 LHO (0) FED (0			(
	PARAMETE	R		ŪNIT	RESULT	NOTATION	(
0	34409 BE	NZENE		NCG/L	1.	LT	1
0	54509 X1	LENES		MCG/L	1.	LT	,
0	\$9209 TC	DLUENE		MCG/L	1.	LT.	t
							ł
					E RESULTS MEET	THE	*
				RECOMME FORTH IN	THE N.Y.S. PART		ſ
				SANITAR	CODE		

DATE COMPLETEDE 6713/80

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126 RECEIVED

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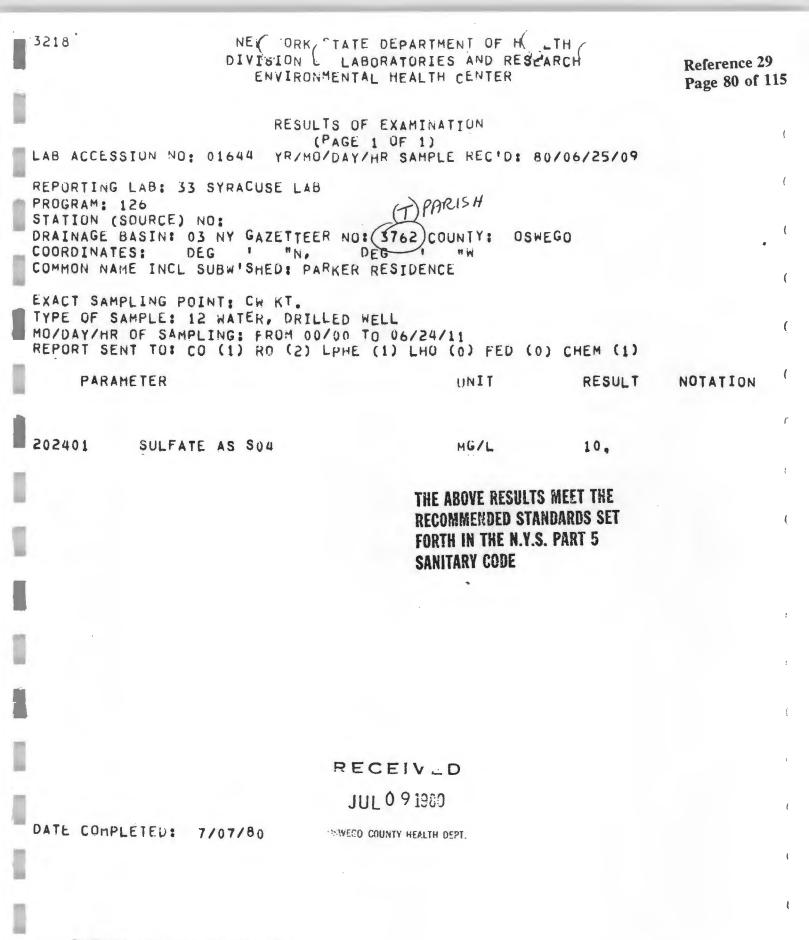
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JUN 1 9 1980

OSWEGO COUNTY HEALTH DEPT.

SUBMITTED BY: HEERKENS



PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: HEERKENS

Reference 29 Page 81 of 115

June 19, 1980

Mr. & Mrs. Gene Miller R.D. #1, Box 111A Parish, NY 13131

Dear Mr. & Mrs. Miller:

Attached is a photocopy of a laboratory report for a water sample collected at your home on May 12, 1980. You will remember that we telephoned these results some weeks ago.

The report indicates that no gasoline, kerosene, fuel oil or lubricating oil was found in your well. Also Benzene, Xylene and Toluene were less than the detection limits of our testing procedure, which is one micro gram per litre.

If you have any questions, please feel free to call me at 473-8374.

Sincerely,

James M. McCarthy, P.E. Director of Public Health Engineering

Attachment

cc: Oswego County Health Dept.

Í	10/	DIV( 10M	RK STATE DEPARTMENT OF HEAL N LABORATORIES AND RE RONMENTAL HEALTH CENTER	ARC	Reference 29 Page 82 of 115
	LAB ACCES		SULTS OF EXAMINATION (PAGE 1 OF 1) MO/DAY/HR SAMPLE RECID: 80	0/05/13/16	1
7	PROGRAM: STATION ( DRAINAGE COORDINAT	LAB: 17 EHC ALBAN 106 TOXIC SUBST. HO SOURCE) NO: BASIN: 03 NY GAZETI ES: DEG I ME INCL SUBW'SHED:	TEER NOI 3762 COUNTYI OSW	EGO	•
I	TYPE OF S MO/DAY/HR REPORT SE		UG WELL 00/00 TO 05/12/12 2) LPHE (2) LHO (0) FED (0		•
	PARA	METER	ÜNIT	RESULT	NOTATION
÷	007310	GASOLINE	MCL/L	NONE DET	•
2	007410	KEROSÈNE	MCLYL	NONE DET	•
n.	007510	OIL LUBRICATING	MCL/L	NONE DET	•
2	007610	OIL FUEL	MCL/L	NONE DET	•
	034409	BENZENE	MCG/L	1:	LT
	034509	XYLENES	MCG/L	1.	LT
	039209	TOLUENE	MCG/L	1.	LT
I				$\langle /$	
2			THE ABO Encomm	DVE RESULTS MEET	THE
		•	FOREN I	IENDED STANDARD	S SET 5
			SANITAD	A CODE	-

DATE COMPLETED: 6713/80

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: NOTGIVEN

RECEIVED

JUN 1 9 1980

OSWEGO COUNTY HEALTH DEPT.

RECEIVED JUN231900 DSWEGO COUNTY HEALTH DEPT.

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June 19, 1980

Mr. Marvin W. Cook Box 197 Parish, NY 13131 ĺ

Dear Mr. Cook:

Attached is a photocopy of a laboratory report for a water sample collected at your home on May 12, 1980. You will remember that we telephoned these results some weeks ago.

The report indicates that no gasoline, kerosene, fuel oil or lubricating oil was found in your well. Also Benzene, Xylene and Toluene were less than the detection limits of our testing procedure, which is one micro gram per litre.

If you have any questions, please feel free to call me at 473-8374.

Sincerely,

James M. McCarthy, P.E. Director of Public Health Engineering

Attachment

cc: Oswego County Health Dept."

( 10:25 -	DIV ION LA	E DEPARTMENT OF HEAL BORATORIES AND RE A AL HEALTH CENTER	TH AR	Reference 29 Page 84 of 115
REPORTIN PROGRAM STATION DRAINAGE COORDIN COMMON EXACT S TYPE OF MO/DAY/	(PAGE ESSION NO: 80615 YR/MO/DAY NG LAB: 17 EHC ALBANY 106 TOXIC SUBST. MGT. (SOURCE) NO: E BASIN: 03 NY GAZETTEER NO ATES: DEG ' "N. NAME INCL SUBWISHED: PARISH AMPLING POINT: REAR TAP COO SAMPLE: 10 WATER, DUG WELL TR OF SAMPLING: FROM 00/00	x RES	EGQ	
_	SENT TUI CO (1) RO (2) LPHE RAMETER	UNIT	RESULT	NOTATION
007310	GASOLINE	MCL/L	NONE DET.	
007410	KEROSENE	MCL/L	NONE DET.	
007510	OIL LUBRICATING	MCL/L	NONE DET.	
007610	OIL FUEL	MCL/L	NONE DET.	
034409	BENZENE	MCG/L	1.	LT
034509	XYLENES	MCG/L	1.	LT
039209	TOLUENE	MCG/L	1.	LT
1			~	
		THE ABOVE BEST RECOMMENDED	ULTS MEET THE STANDARIDS SET	

FORTH IN THE N.Y.S. FART 5 SANITARY CODE

DATE COMPLETEDI 6713/80

RECEIVED

JUN 1 9 1980

OSWEGO COUNTY HEALTH DEPT.

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTHENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: NOTGIVEN

Reference 29 Page 85 of 115

RECEIVED JUN 2 3 1980 OSWEED COUNTY HEALTH DEPT.

(

June 19, 1980

Mr. & Mrs. Allen Conrad Grafton Square Road Parish, NY 13131

N. P.

Dear Mr. & Mrs. Conrad:

Attached is a photocopy of an additional laboratory report for a water sample at your home on June 3, 1980. This is the 4th such report that we have sent you. This report indicates the concentrations for Benzene, Xylenes, Toluene were at less than 1 microgram per liter.

If you have any questions, please feel free to call me at 473-8374.

Very truly yours,

James M. McCarthy, P.E. Director of Public Health Engineering

Attachment

Reference 29 Page 86 of 115

June 6, 1980

Mr. & Mrs. Allen Courad Grafton Square Road Parish, New York 13131

Dear Mr. & Mrs. Conrad:

Attached is a photocopy of an additional laboratory report for a water sample at your home on May 13, 1980. This is the third such report that we have sent you. This report indicates the concentrations for Benzene, Xylenes, Toluane were at less than 1 microgrameper liter.

An additional test was taken at your home on June 4, 1980.

If you have any questions, please fee free to call me at 473-8374.

Very truly yours,

James M. McCarthy, P.E. Director of Public Health Engineering

JAM: kfb Attach.

cc: Oswego County Health Dept.

RECEIVED

JUN 1 2 1990

OSWEGO COUNTY HEALTH DEPT.

Reference 29 Page 87 of 115

May 27, 1980

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Mr. & Mrs. Allen Conrad Grafton Square Road Parish, N.Y. 13131

Dear Mr. & Mrs. Conrad:

Attached is a photocopy of an additional laboratory report for a water sample collected at your home on April 22, 1980. You will remember the copy of the bacteriological report that I sent you on May 5, 1980.

The results are all satisfactory except for the positive results reported for Benzene.

As you remember resamples were collected from your home on May 13, 1980 and the laboratory has reported by telephone that reportable levels of Benzene were not present. However, printed copies of these reports are not yet available. They will be sent as soon as possible.

We do not know for sure why the first samples collected from your well had positive levels of Benzene present and the second sample was negative for Benzene. But we are concerned and will resample your home shortly.

The results of some Parameters or chemicals tested are reported as 5 LT which means less than 5 micrograms per liter. This is the lowest value which the laboratory will ever report on the minimum detectable limit.

The following chemicals have a minimum detection of 5 micrograms/liter.

- 1. 1, 1, 1 Trichloroethane
- 2. Carbon Tetrachloride
- 3. Chloroform
- 4. Trichloroethylene
- 5. Bromoform

The following chemicals have a minimum detection limit of 2 micrograms per liter.

- 1. Bromodichloromethane
- 2. Tetrachloroethylene
- 3. Dibromochloromethane

Reference 29 Page 88 of 115

- 2 -

The following chemicals have a minimum detection limit of 1 microgram per liter.

1. Benzene

2. Xylene

3. Toluene

Therefore, a result of 1, 1, 1-Trichloroethane MCG/L 5 LT should be read as less than detectable amounts of 1, 1, 1-Trichloroethane.

A result for Banzens of MCG/L 5 would mean that the sample contained 5 micrograms per liter of Benzena.

Also, attached is a copy of a laboratory report which shows that the bacteriological quality of your water supply was acceptable (less than 2.2 coliform bacterial per 100 m.) at the time the sample was collected.

If you have any questions, please feel free to call me at 473-8374.

Very truly yours,

James M. McCarthy, P.E. Director of Public Health Engineering

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JMM: kfb Attach.

1338	DIVISION OF LA	E DEPARTMENT OF H( BORATORIES AND RESEA AL HEALTH CENTER	TH ( ARCH	Reference 29 Page 89 of 115	
LAB ACCESSI		F EXAMINATION 1 OF 1) 7HR SAMPLE REC'D: 80	)/04/22/14		
PROGRAM: 10 STATION (SO DRAINAGE BA COORDINATES COMMON NAME EXACT SAMPL TYPE OF SAM MO/DAY/HR O	AB: 30 SYRACUŞE LAB 6 TOXIC SUBST. MGT. URCE) NO: SIN: NY GAZETTEER NO : DEG ' "N, INCL SUBW'SHED: HHFELE (CONRA ING POINT: CWT KIT SINK PLE: S7 SURV., PWS, F SAMPLING: FROM 00/00 TU: CO (0) RO (2) LPHE	DEG I HW RES GRAFTON SQUARE D) MISCELL. To 04/22/10	RD		c t
PARAME		UNIT	RESULT	NOTATION	
026800	STD PL COUNT		360.	EE	
027000	COLIF MF COL/100ML		BG.		

Inconclusive Lyndi J. Waternan

RECEIVED

APR 3 0 1980

OSWEGO COUNTY HEALTH DEPT

DATE COMPLETED: 4/24/80

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: MCCARTHY

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	1318	NE( /ORK TATE DEPARTM DIVISION OF LABORATORIE ENVIRONMENTAL HEALTH	S AND RESEARC	(	Reference 29 Page 90 of 115
(	LAB ACCESS	RESULTS OF EXAMINA (PAGE 1 OF 2) ION NO: 00870 YR/MO/DAY/HR SAMPL		4/22/14	4
	PROGRAM: 1 STATION (S DRAINAGE B COORDINATE	E INCL SUBW'SHED: WHEELER RESIDEN	is W		•
	TYPE UF SA MO/DAY/HR	(CONRAD) LING POINT: CW TAP KIT SINK MPLE: 00 PWS, RAW WATER OF SAMPLING: FROM 00/00 TO 04/22/ T TU: CO (0) RO (2) LPHE (2) LHO		HEM (1)	ć
2	PARAM	ETER	ÜNIT	RESULT	NOTATION
1	000401	FLUORIDE, FREE	MG/L	0.1	'
7	000801	NITROGEN, NITRATE&NITRITE	MG/L	0.1	LT
	009401	BARIUM	MG/L	0.5	LT
e	010309	MERCURY, TOTAL	MCG/L	0.4	LT
	010601	SILVER	MG/L	50.0	
m	309309	ARSENIC	MCG/L	10.	LT
2	309709	CADMIUM	MCG/L	2.	LT
1	309809	CHROMIUM	MCG/L	10.	LT
1	310109	LEAD	MCG/L	10,	LT
	310509	SELENIUM	MCG/L	5,	LT '
	100300	ODOR, COLD		1.VEG	
	001900	PH (LABORATORY)		8.0	(
	101501	ALKALINITY, ELECTROM. PH4.5	MG/L	124.	(
	DATE COMPL	ETED: 6/10/80			

RECEIVED

JUN 1 6 1980

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

COWEDO COUNTY HEALTH DEDT

SUBMITTED BY: MCC

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	1319	NE( TORK STATE DEPA			Reference 29 Page 91 of 1	
(		DIVISION OF LABORATO ENVIRONMENTAL HEA		ARCH	Fage 91 01 1	
(		RESULTS OF EXAM				1
10	1.40 40050	(PAGE 2 OF				
1	LAB ALLES	SSION NU: 00870 YR/HU/DAY/HR SA	AMPLE RELIDE 8	0/04/22/14		c.
Ţ	PROGRAM: STATION	LAB: 33 SYRACUSE LAB 106 TOXIC SUBST. MGT. (SOURCE) NO:				(
	DRAINAGE			EGO		
	COORDINA1	TES: DEG ' "N, DEG AME INCL SUBW'SHED: WHEELER RESI		N SQUARE RD.		(
11		PLING POINT: CW TAP KIT SINK				
-		SAMPLE: 00 PWS, RAW WATER R OF SAMPLING: FROM 00/00 TO 04/	122/10			1
-		ENT TO: CO (0) RO (2) LPHE (2) L		) CHEM (1)		
	DAD	METER	UNIT	RESULT	NOTATION	(
	FARA	AMETER	UNAT	REQUEI	NUTATION	
	001101	HARDNESS, TOTAL AS CACO3	MG/L	128.		(
	010701	SODIUM	MG/L	3.4		
10						ı
	001001	CHLORIDE	MG/L	5.	LT	
-	106501	C.O.D.	MG/L	4.LT	UI	t

THE ABOVE RESULTS MEET THE RECOMMENDED STANDARDS SET FORTH IN THE N.Y.S. PART 5 SANITARY CODE

DATE COMPLETED: 6/10/80

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

854	NEW . RK . ATE DEP DIVISION OF LABORAT ENVIRONMENTAL HE RESULTS OF EX. (PAGE 1 DE	TURIES AND RESE EALTH CENTER AMINATION		Reference 2 Page 92 of 3	
AB ACCES	SION NOI 80515 YR/HU/DAY/HR	SAMPLE REC'D: 8	0/04/23/16		( )
ROGRAM: STATION ( DRAINAGE OORDINAT	TES: DEG ' "N, DEG AME INCL SUBWISHED: THE ELER RE	i nW			( (
YPE OF S MO/DAY/HP EPORT SE	(Convod) APLING POINT: CW TAP KIT SINK SAMPLE: 00 PWS, RAW WATER R OF SAMPLING: FROM 00/00 TO 0 ENT TO: CU (1) RO (2) LPHE (2) AMETER	4/22/10 LHO (0) FED (0 UNIT	) CHEM (1) Result	NOTATION	<b>^</b>
23609	1,1,1-TRICHLURUETHANE	MCG/L	5.	LT	
036609	CARBON TETRACHLORIDE	MCG/L	5.	LT	.*
38909	BROMODICHLOROMETHANE	HCG/L	2.	LT	
139009	CHLOROFORM	HCG/L	5.	LT	•
		MCG/L	5.	LT	•
041109	TRICHLOROFTHYLENE	MCG/L	2.	LT	
41209	TETRACHLORUETHYLENE .				
042109	BROMUFORM	MCG/L	5,	LT	
44909	DIGROMOCHLORUMETHANE	MCG/L	2.	LT	
034409	BENZENE	MCG/L	5.		~
034509	XYLENES	HCG/L	1.	LT	
39209	TOLUENE	HCG/L	1.	LT	^

REGIONAL DIRECTOR OF P.H. ENGINEERING NEW YORK STATE DEPARTMENT OF HEALTH 351 SOUTH HARREN STREET SYRACUSE NEW YORK 13202

SUBMITTED BY: MCCARTHY

	0856	NEW YORK STATE DE DIVISION OF LABORA		and a second sec	Reference 29 Page 93 of 115 CEIVED
		ENVIRONMENTAL H			AX 5 2 1980
	LAB ACCES	RESULTS OF EX (PAGE 1 C SSION NO: 80515 YR/MO/DAY/HR	0F 1)		COUNTY HEALTH DEPT.
	PROGRAM: STATION DRAINAGE COORDINA COMMON N EXACT SAU TYPE OF MO/DAY/HU		S GRAFTON SQUARE	RD MEXICO	•
	PAR	AMETER	ÛNIT	RESULT	NOTATION
E.	023609	1,1,1-TRICHLOROETHANE	MCG/L	5.	LT
<b>(</b> (·	036609	CARBON TETRACHLORIDE	MCG/L	5.	LT
	038909	BROMODICHLUROMETHANE	MCG/L	2.	LT
	039009	CHLOROFORM	MCG/L	5.	LT
	041109	TRICHLORUETHYLENE	MCG/L	5.	LT
	041209	TETRACHLORDETHYLENE	MCG/L	2.	LT
1	042109	BROMUFORM	MCG/L	5.	LT
1	044909	DIBROHOCHLORUMETHANE	MCG/L	2.	LT
	034409	BENZENE	MCG/L	5.	
	034509	XYLENES	MCG/L	1.	LT
	039209	TOLUENE	MCG/L	1.	LT

DATE COMPLETED: 5/14/80

THE RESULTS CURCLED ABOVE DO NOT MXET THE RECOMMENDED STANDARDS SET FORTH IN THE N.Y.S. PART 5 SANITARY CODE

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: MCCARTHY

0170.NE( 'ORK TATE DEPARTMENT OF H' LTH' DIVISION OF LABORATORIES AND RESEARCH ENVIRONMENTAL HEALTH CENTERReference 29 Page 94 of 115RESULTS OF EXAMINATION (PAGE 1 OF 1)RESULTS OF EXAMINATION (PAGE 1 OF 1)(LAB ACCESSION NO; 09547 YR/MO/DAY/HR SAMPLE RECID: 80/05/13/09(REPORTING LAB: 30 SYRACUSE LAB PROGRAM: 106 TOXIC SUBST. MGT. STATION (SOURCE) NO; DRAINAGE BASINI 03 NY GAZETTEER NO: 3762 COUNTY: OSWEGO COORDINATES: DEG ' "N, DEG ' "W COMMON NAME INCL SUBWISHED; U EXACT SAMPLE: 12 WATER, DRILLED WELL MO/DAY/HR OF SAMPLE: 12 WATER MOTATION MEN 1 RESULT NOTATION MOTATION MOTATION MOTATION MOTATION 22.2 LT							
(PAGE 1 OF 1)LAB ACCESSION NO: 09547 YR/H0/DAY/HR SAMPLE RECID: 80/05/13/09REPORTING LAB: 30 SYRACUSE LAB PROGRAM: 106 TOXIC SUBST. MGT. STATION (SOURCE) NO: DRAINAGE BASIN: 03 NY GAZETTEER NO: 3762 COUNTY: OSWEGO COORDINATES: DEG ' "N, DEG ' "WCOMMON NAME INCL SUBW'SHED: UEXACT SAMPLING POINT: CWT BATHROOM TAP CONRAD RESIDENCE TYPE OF SAMPLE: 12 WATER, DRILLED WELL MO/DAY/HR OF SAMPLING: FROM 00/00 TO 05/12/14 REPORT SENT TO: CO (1) RO (2) LPHE (2) LHQ (0) FED (0) CHEM (1)PARAMETERUNIT026800STD PL COUNT026900COLIFORM BAC MPN2,2LT	0170	NE( DIVIS ENT	ORK TATE DEP Ion of Laborat Vironmental He	ARTMENT OF H ORIES AND RE ALTH CENTER	LTH( DEARCH		
DRAINAGE DASINT US NT GAZETTEER NOT 3762 COUNTTE USWEGU         COORDINATES:       DEG       1       N,       DEG       1       NW         COMMON NAME INCL SUBWISHED;       U       (         EXACT SAMPLING POINT; CWT BATHROOM TAP CONRAD RESIDENCE       (         TYPE OF SAMPLING; POINT; CWT BATHROOM TAP CONRAD RESIDENCE       (         MO/DAY/HR OF SAMPLING; FROM 00/00 TO 05/12/14       (         REPORT SENT TO; CO (1) RO (2) LPHE (2) LHQ (0) FED (0) CHEM (1)       (         PARAMETER       UNIT       RESULT NOTATION         026800       STD PL COUNT       710,       EE         026900       COLIFORM BAC MPN       2,2       LT	LAB ACCES		(PAGE 1 OF	1)	80/05/13/09		ł
TYPE OF SAMPLE: 12 WATER, DRILLED WELL: MO/DAY/HR OF SAMPLING: FROM 00/00 TO 05/12/14 REPORT SENT TO: CO (1) RO (2) LPHE (2) LHO (0) FED (0) CHEM (1)PARAMETERUNITRESULTNOTATION026800STD PL COUNT710,EE026900COLIFORM BAC MPN2,2LT	PROGRAM: STATION DRAINAGE COORDINAS	106 TOXIC SUBST. (SOURCE) NO: BASINI 03 NY GAZI TES: DEG '	"N, DEG	E COUNTY: 0	SWEGO		(
026800         STD PL COUNT         710.         EE           026900         COLIFORM BAC MPN         2.2         LT	MO/DAY/HE	AMPLE: 12 WATER, OF SAMPLING: FR	DRILLED WELL	/12/14			(
026900 COLIFORM BAC MPN 2.2 LT	PARA	METER	•	UNIT	RESULT	NOTATION	·
	026800	STD PL COUNT			710.	EE	ţ
526900 COL ORG STUBE MTO NO POS	026900	COLIFORM BAC M	PN		2.2	LT	
	526900	COL ORG STUBE	NTO NO POS			LT	

This microbiological analysis indicates that the water way was not of a satisfactory sanitary quality when the sample was collected. Oswego County Health Dept.

Lyndi J. Waterman

DATE COMPLETEDE 5/19/80

RECEIVED MAY 2 2 1980

SWEGO COUNTY HEALTH DEPT

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PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BYS MCCARTHY

	0675	NE DIVI	YOR JTATE DEPA SION OF LABORATO NVIRONMENTAL HEA	RTMENT OF HEAL RIES AND RESEA	TH RCH	Reference 29 Page 95 of 1	
	LAB ACCESS	SION NOT 80627	RESULTS OF EXAM (PAGE 1 OF YR/MO/DAY/HR SA	1)	/05/14/14		t t
	PROGRAM: 1 STATION (S DRAINAGE E COORDINATE	ES: DEG 1		i iW			(
	TYPE OF SA MO/DAY/HR	NT TO: CO (1) R		13712 HO (0) FED (0)	CHEM (1)		(
-	PARAN	ETER		ŪNIT	RESULT	NOTATION	
0	034409	BENZENE		MCG/L	1.	LT	1 1
	034509	XYLENES		MCG/L	1.	LT	
-	039209	TOLUENE		MCG/L	1.	LT	

DATE COMPLETED: 5/23/80

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JUNO 4 1900 OSWEGO COUNTY HEALTH DEPT

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: NOTGIVEN

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	DIV	ION LABORA	PARTMENT OF HEA TORIES AND RE EALTH CENTER	ARCK	Reference 29 Page 96 of 115
		RESULTS OF EX	AMINATION		
LAB ACCE	SSION NOT 80766	YR/MO/DAY/HR	SAMPLE RECIDE 8	0/06/04/10	
PROGRAM	G LAB: 17 EHC A 106 TOXIC SUBST (SOURCE) NO:	HGT.			
DRAINAGE	BASINE 03 NY GA	ZETTEER NOI 37	57 COUNTY: OSH	EGO	•
COMMON N	TES: DEG I AME INCL SUBWISH	TEDE ALLAN CONR			
TYPE OF MO/DAY/H	MPLING POINT: CH Sample: 12 Hater R OF Sampling: F Ent To: co (1) R	ROM 00/00 TO 0	6/03/12	) CHEM (1)	
	AMETER		ŪNIŢ	RESULT	NOTATION
PAR	DENESAR		MCG/L	1.	LT
934409	BENZENE				
	XYLENES		MCG/L	1	LT

THE ABOVE RESULTS MEET THE RECOMMENDED STANDARDS SET FORTH IN THE N.Y.S. PART 5 SANITARY CODE (

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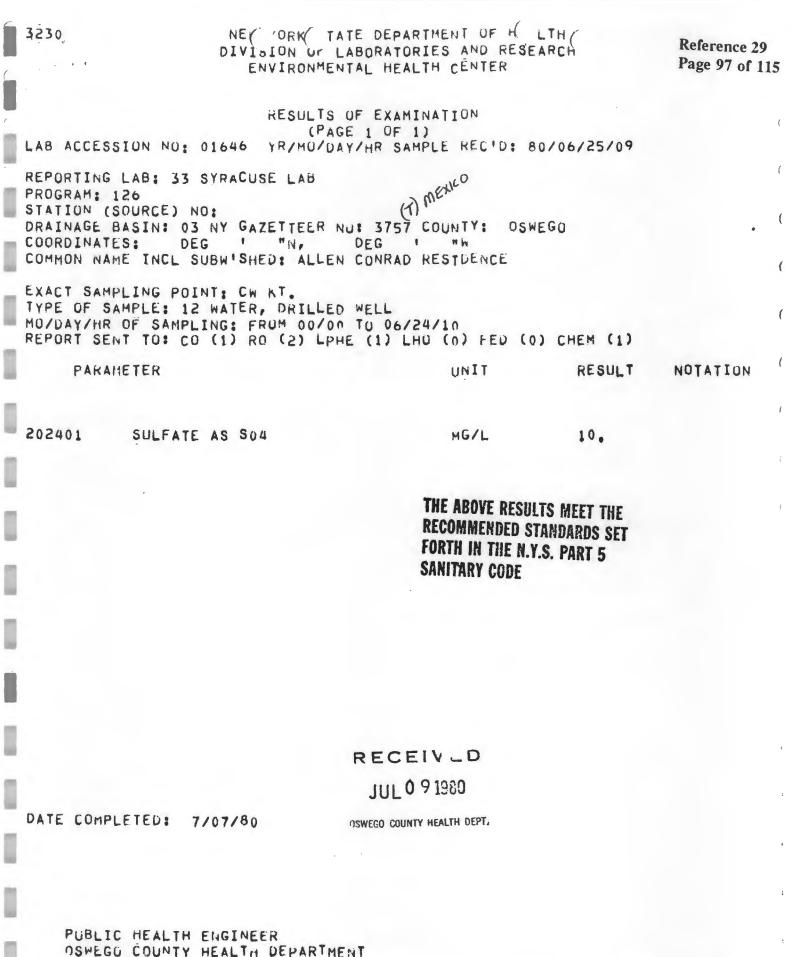
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DATE COMPLETED: 6713/80

RECEIVLD JUN 1 9 1900 OSWEGO COUNTY HEALTH DEPT.

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: HEERKENS



BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: HEERKENS

Reference 29 Page 98 of 115

PECEIVED JUN 23 1983

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June 19, 1980

Mr. & Mrs. Lloyde Ware R.D. #1 Parish, NY 13131

Dear Mr. & Mrs. Lloyde Ware:

Attached is a photocopy of a laboratory report for a water sample collected at your home on May 12, 1980. You will remember that we telephoned these results some weeks ago.

The report indicates that no gasoline, kerosene, fuel oil or lubricating oil was found in your well. Also Benzene, Xylene and Toluene were less than the detection limits of our testing procedure, which is one micro gram per litre.

If you have any questions, please feel free to call me at 473-8374.

Sincerely,

James M. McCarthy, P.E. Director of Public Health Engineering

Attachment

2010 J	DIV LON FLABO	DEPARTMENT OF HEALTH CENTER	AR(	Reference 29 Page 99 of 115
	(PAGE.)	HR SAMPLE RECID: 8	0/05/13716	
PROGRAM: STATION DRAINAGE	106 TOXIC SUBST. MGT. SOURCE) NO: BASIN: 03 NY GAZETTEER NO:		EGO	•
TYPE OF SEMO/DAY/HF	PLING POINT: CWET BAMPLE: 12 WATER, DRILLED WE OF SAMPLING: FROM 00/00 TO ENT TO: CO (1) RO (2) LPHE	0.05/12/12 (1) LHO (0) FED (0	) CHEM (1)	
TYPE OF SEMO/DAY/HF	AMPLE: 12 WATER, DRILLED WE	05/12/12	) CHEM (1) Result	NOTATION
TYPE OF SEMO/DAY/HF	AMPLE: 12 WATER, DRILLED WE OF SAMPLING: FROM 00/00 TO INT TO: CO (1) RO (2) LPHE	0.05/12/12 (1) LHO (0) FED (0		NOTATION
TYPE OF S MO/DAY/HF REPORT SE PAR/	AMPLE: 12 WATER, DRILLED WE OF SAMPLING: FROM 00/00 TO INT TO: CO (1) RO (2) LPHE METER	05/12/12 (1) LHO (0) FED (0 ŪNIT	RESULT	NOTATION
TYPE OF S MO/DAY/HF REPORT SE PAR/ 007310	GASOLINE	05/12/12 (1) LHO (0) FED (0 ŪNIT MCL/L	RESULT Noné det.	NOTATION
TYPE OF S MO/DAY/HF REPORT SE PAR/ 007310 007410	AMPLE: 12 WATER, DRILLED WE OF SAMPLING: FROM 00/00 TO INT TO: CO (1) RO (2) LPHE METER GASOLINE KEROSENE	05/12/12 (1) LHO (0) FED (0 ŪNIT MCL/L MCL/Ľ	RESULT Noné det. Noné det.	NOTATION
TYPE OF S MO/DAY/HF REPORT SE PAR/ 007310 007410 007510	AMPLE: 12 WATER, DRILLED WE OF SAMPLING: FROM 00/00 TO INT TO: CO (1) RO (2) LPHE METER GASOLINE KEROSENE OIL LUBRICATING	05/12/12 (1) LHO (0) FED (0 ŪNIT MCL/L MCL/L MCL/L	RESULT NONE DET. None Det. None Det.	NOTATION
TYPE OF S MO/DAY/HF REPORT SE PAR/ 007310 007410 007510 007610	AMPLE: 12 WATER, DRILLED WE OF SAMPLING: FROM 00/00 TO INT TO: CO (1) RO (2) LPHE METER GASOLINE KEROSENE OIL LUBRICATING OIL FUEL	05/12/12 (1) LHO (0) FED (0 ŪNIT MCL/L MCL/Ľ MCL/Ľ MCL/L	RESULT NONÉ DET. Noné det. Noné det. Noné det.	

THE ABOVE RESULTS MEET THE RECOMMENDED STANDARDS SET FORTH IN THE N.Y.S. PART 5 SANITARY CODE

> RECEIVED JUN 1 9 1980 OSWEGO COUNTY HEALTH DEPT.

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MDATE COMPLETED: 6/13/80

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: MCCARTHY

Reference 29 Page 100 of 115

JUN 23 1980 The G IS WITY HEALTH DEPT.

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#### June 19, 1980

Mr. & Mrs. Minkler % Mrs. Lynden Comstock R.D. #1 Parish, NY 13131

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Dear Mr. & Mrs. Minkler:

Attached is a photocopy of a laboratory report for a water sample collected at your home on May 12, 1980. You will remember that we telephoned these results some weeks ago.

The report indicates that no gasoline, kerosene, fuel oil or lubricating oil was found in your well. Also Benzene, Xylene and Toluene were less than the detection limits of our testing procedure, which is one micro gram per litre.

If you have any questions, please feel free to call me at 473-8374.

Sincerely,

James M. McCarthy, P.E. Director of Public Health Engineering

Attachment

1953	DIV	YORK -TATE DEPAR JON ( LABORATOR NVIRONMENTAL HEAL	IES AND RE.	ARCH	Reference 29 Page 101 of 115
REPORTING PROGRAM: 1 STATION (S DRAINAGE E COORDINATE COMMON NAME EXACT SAME	LAB: 17 EHC A 106 TOXIC SUBST SOURCE) NO: BASIN: 03 NY GA S: DEG ' ME INCL SUBW'SH PLING POINT: CW	ZETTEER NOI 3762	) PLE RECHDE BA COUNTY: OSWI		1 ( • •
MO/DAY/HR	OF SAMPLING: F	ROM 00/00 TO 05/1 0 (2) LPHE (2) LH	2/14	) CHEM (1)	(
PARAN	TER		ÜNIT	RESULT	NOTATION
007310	GASOLINE		MCL/L	NONE DET	•
007410	KEROSENE		MCL/L	NONE DET	•
007510	OIL LUBRICAT	ING	MCL/L	NONE DET	•
007610	OIL FUEL		MCL/L	NONE DET	
034409	BENZENE		MCG/L	1.	LT
034509	XYLENES		HCG/L	1.	LT
039209	TOLUENE		MCG/L	1.	LT
1			L.COMM	VE RESULTS MEET ENDED STANDARDS THE M.Y.S. PART CODE	CET
1			/	/	(
DATE COMPL	ETED: 6713/80			RECE JUN 1	
				ONWEGO COUNTY	
	HEALTH ENGINE				(
BUNNER	D COUNTY HEALTH R_STREET D, N.Y. 13126	DEPARTMENT	SUB	MITTED BY: N	OTGIVEN

Reference 29 Page 102 of 115

RECEIVED JUN 2 3 1980 COMPESO COUNTY HEALTH DEST.

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June 19, 1980

Mr. & Mrs. Nathan Foote R.D. #1, Rice Rd. Parish, NY 13131

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Dear Mr. & Mrs. Foote:

Attached is a photocopy of a laboratory report for a water sample collected at your home on May 12, 1980. You will remember that we telephoned these results some weeks ago.

The report indicates that no gasoline, kerosene, fuel oil or lubricating oil was found in your well. Also Benzene, Xylene and Toluene were less than the detection limits of our testing procedure, which is one micro gram per litre.

If you have any questions, please feel free to call me at 473-8374.

Sincerely,

James M. McCarthy, P.E. Director of Public Health Engineering

Attachment

1060	NEW YORK STAT	E DEPARTMENT OF HEAL	TH	Reference 29
	ENVIRONMENT	AL HEALTH CENTER		Page 103 of 115
REPORTIN PROGRAM STATION DRAINAGE COORDIN COMMON EXACT S TYPE OF MO/DAY/	RESULTS OF (PAGE) ESSION NO: 80620 YR/MO/DAY NG LAB: 17 EHC ALBANY 106 TOXIC SUBST. MGT. (SOURCE) NO: E BASIN: 03 NY GAZETTEER NO ATES: DEG 'N' NAME INCL SUBW'SHED: FOOTE T AMPLING POINT: CWKT SAMPLE: 12 WATER, DRILLED T HR OF SAMPLING: FROM 00/00	EXAMINATION I OF I) THR SAMPLE RECIDE SU AND AND AND AND AND AND AND AND AND AND	EGO	•
REPORT	SENT TOI CO (1) RO (2) LPHE	(1) LHO (0) FED (0	) CHEM (1)	
PAI	RAMETER	ŪNIT	RESULT	NOTATION
007310	GASOLINE	MCL/L	NONE DET	•
007410	KEROSENE	MCL/L	NONE DET	
007510	OIL LUBRICATING	MCL/L	NONE DET	
007610	OIL FUEL	MCL/L	NONE DET	· •
034409	BENZENE	MCG/L	1.	LT
034509	XYLENES	MCG/L	1.	LT
039209	TOLUENE	MCG/L	1.	LT
	•	THE ABOVE R RECOMMEND FORTH IN TH SANITARY C	ESULTS MEET THE ED STANDARDS SI IE N.Y.S. PART 5 ODE	T

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DATE COMPLETEDI 6/13/80

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JUN 1 9 1980

OSWEGO COUNTY HEALTH DEPT.

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER\_STREET OSWEGO, N.Y. 13126

SUBMITTED BY: MCCARTHY

Reference 29 Page 104 of 115

RECEIVED JUN 2 3 1980 OSWEGO COUNTY HEALTH DEOT.

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### June 19, 1980

Mr. Arthur R. Smith R.D. #1 Parish, NY 13131

(

Dear Mr. Smith:

Attached is a photocopy of a laboratory report for a water sample collected at your home on May 12, 1980. You will remember that we telephoned these results some weeks ago.

The report indicates that no gasoline, kerosene, fuel oil or lubricating oil was found in your well. Also Benzene, Xylene and Toluene were less than the detection limits of our testing procedure, which is one micro gram per litre.

If you have any questions, please feel free to call me at 473-8374.

Sincerely,

James M. McCarthy, P.E. Director of Public Health Engineering

Attachment

1366	DIVI OK FLAB	DEPARTMENT OF HEA DRATORIES AND RE L HEALTH CENTER	AR	Reference 29 Page 105 of 115
		EXAMINATION 1 OF 1).	0/05/13/16	
REPORTIN	G LAB: 17 EHC ALBANY 106 TOXIC SUBST. MGT.	AN SAMPLE NEO DE O		
STATION DRAINAGE COORDINA	(SOURCE) NO: BASIN: 03 NY GAZETTEER NO: TES: DEG ' "N, D AME INCL SUBW'SHED: ARTHUR	EG I NW		•
COMMUN N	AME INCL. SUBWISHEDT ARTHUR	R SMITH RES MEXICU		
	MPLING POINT CWET			
TYPE OF MO/DAY/H	MPLING POINTE CWKT SAMPLE: 10 WATER, DUG WELL R OF SAMPLING: FROM 00/00 T ENT TO: CO (1) RO (2) LPHE	0 05/12714 (1) LHO (0) FED (0	) CHEM (1)	
TYPE OF MO/DAY/H Report S	SAMPLE: 10 WATER, DUG WELL R OF SAMPLING: FROM 00/00 T	0 05/12714 (1) LHO (0) FED (0 ŪNIT	) CHEM (1) Result	NOTATION
TYPE OF MO/DAY/H Report S	SAMPLE: 10 WATER, DUG WELL R OF SAMPLING: FROM 00/00 T ENT TO: CO (1) RO (2) LPHE	(1) LHO (0) FED (0		NOTATION
TYPE OF MO/DAY/H Report S Par	SAMPLE: 10 WATER, DUG WELL R OF SAMPLING: FROM 00/00 T ENT TO: CO (1) RO (2) LPHE AMETER	(1) LHO (0) FED (0 Unit	RESULT	NOTATION
TYPE OF MO/DAY/H Report S Par 007310	SAMPLE: 10 WATER, DUG WELL R OF SAMPLING: FROM 00/00 T ENT TO: CO (1) RO (2) LPHE AMETER GASOLINE	(1) LHO (Õ) FED (O Ünit MCL/L	RESULT NONE DET.	NOTATION
TYPE OF MO/DAY/H REPORT S PAR 007310 007410	SAMPLE: 10 WATER, DUG WELL R OF SAMPLING: FROM 00/00 T ENT TO: CO (1) RO (2) LPHE AMETER GASOLINE KEROSENE	(1) LHO (0) FED (0 ŪNIT McL/L McL/L	RESULT NONE DET. NONE DET.	NOTATION
TYPE OF M0/DAY/H REPORT S PAR 007310 007410 007510	SAMPLE: 10 WATER, DUG WELL R OF SAMPLING: FROM 00/00 T ENT TO: CO (1) RO (2) LPHE AMETER GASOLINE KEROSENE OIL LUBRICATING	(1) LHO (Õ) FED (O ÜNIT MCL/L MCL/L MCL/L	RESULT None det. None det. None det.	NOTATION
TYPE OF MO/DAY/H REPORT S PAR 007310 007410 007510 007610	SAMPLE: 10 WATER, DUG WELL R OF SAMPLING: FROM 00/00 T ENT TO: CO (1) RO (2) LPHE AMETER GASOLINE KEROSENE OIL LUBRICATING OIL FUEL	(1) LHO (Õ) FED (O ÜNIT MCL/L MCL/L MCL/L MCL/L	RESULT NONE DET. None Det. None Det. None Det.	NOTATION

THE ABOVE RESULTS MEET THE RECOMMENDED STANDARDS SET FORTH IN THE N.Y.S. PART 5 SANITARY CODE

DATE COMPLETEDE 6/13/80

## RECEIVED

JUN 1 9 1980

DOWEGO COUNTY HEAVITH DEPT

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: HCCARTHY

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Reference 29 Page 106 of 115

PECEIVED JUN 23 1980

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June 19, 1980

Mr. & Mrs. Henry Gould R.D. #1, Box 14a Parish, NY 13131

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Dear Mr. & Mrs. Gould:

Attached is a photocopy of a laboratory report for a water sample collected at your home on May 12, 1980. You will remember that we telephoned these results some weeks ago.

The report indicates that no gasoline, kerosene, fuel oil or lubricating oil was found in your well. Also Benzene, Xylene and Toluene were less than the detection limits of our testing procedure, which is one micro gram per litre.

If you have any questions, please feel free to call me at 473-8374.

Sincerely,

James M. McCarthy, P.E. Director of Public Health Engineering

Attachment

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	1047. NEW YORM STATE D DIV ION F LABOR ENVIRONMENTAL	EPARTMENT OF HEALT ATORIES AND RE AR HEALTH CENTER	Reference 29 Page 107 of 11	15
	RESULTS OF E	OF 1)		
Ţ	LAB ACCESSION NOT 80618 YR/MO/DAY/HR REPORTING LAB: 17 EHC ALBANY PROGRAM: 106 TOXIC SUBST. MGT.	SAMPLE REC'D: 80/	05/13/16	
	STATION (SOURCE) NO: DRAINAGE BASIN: 03 NY GAZETTEER NO: 3 COORDINATES: DEG NO: DEG	762 COUNTY: OSWEG	0.	
	COMMON NAME INCL SUBWISHED: PARISH EXACT SAMPLING POINT: CWT KIT SINK GO TYPE OF SAMPLE: 12, WATER. DRILLED WELL	ULD RES		
1	MO/DAY/HR OF SAMPLING: FROM 00/00 TO REPORT SENT TO: CO (1) RO (2) LPHE (2	05/12/11	CHEM (1)	
	PARAMETER	ŪNIT	RESULT NOTATION	
	007310 GASOLINE	MCL/L	NONE DET.	
	007410 KEROSENE	HCL/L	NONE DET.	
	007510 OIL LUBRICATING	HCL/L	NONE DET.	
	007610 OIL FUEL	MCL/L	NONE DET.	
	034409 BENZENE	MCG/L	1: LT	
-	034509 XYLENES	MCG/L	1. LT	
	039209 TOLUENE	MCG/L	1. LT	
1		THE ABOVE	RESULTS MEET THE ED STANDARDS SET	
		FORTH KI TH SANITARY C	ien.y.s. part 5	
1		/		
	DATE COMPLETED: 6713/80		RECEIVED	
			JUN 1 9 1980	
1		c	DSWEGO COUNTY HEALTH DEPT.	
	PUBLIC HEALTH ENGINEER OSWEGU COUNTY HEALTH DEPARTMENT BUNNER STREET			
1	OSWEGO, N.Y. 13126	SUBMI	TTED BY: NOTGIVEN	

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Reference 29 Page 108 of 115

September 3, 1980

Mr. Grederick Campbell Superintendent Altmar Parish Williemstown Central Schools Parish, MY 13131

RE: Water Supply APW High School

Dear Mr. Campbell:

Enclosed you will find copies of the results of the water samples collected from the above noted facility on 7/28/80 and analyzed for Benzene, Toluene and Xylene.

These are the results mentioned in my letter of 8/11/80 and as stated at that time, results for each of the parameters tested at all four sampling points were below the detectable level.

Very truly yours,

Ronald Heerkens Senior Senitarian

RH: kb Encloseure

cc: Oswego County Health Dept. V Ron Tramontano

3494	JEH YOR	TATE DEPARTMENT OF HEA	LTH	<b>Reference 29</b>
· · · · ·	DIVISION	LABORATURIES AND RESE	ARC	Page 109 of 115
	ENVIR	ONMENTAL HELLTH CENTER		1 age 109 01 115
	RES	ULTS OF EXAMINATION		~
	ne s	(PAGE 1 OF 1)		
LAB ACCES	SSION NO: 81017 YR/	NO/DAY/HR SAMPLE REC D= 8	0/07/29/08	-7
REPORTING	G LAB: 17 EHC ALBAN	Y		ζ.,
	106 TOXIC SUBST. MG			
	(SOURCE) NO:			
DRAINAGE	BASIN: 03 NY GAZETTI	EER ND: 3762 COUNTY: OSW	EGO	
COORDINAT	TES: DEGN.	DEG . H		•
CONMON N	WE INCL SUBW'SHED:	RPW HIGH SCHOOL		*
EXACT SAI	MPLING POINT: CAFETER	RIA TAP HIXED WATER		
TYPE OF S	SAMPLE: 12 HATER. DR	ILLED WELL		4
HO/DAY/HI	R OF SAMPLING: FROM	00/00 TO 07/28/15		
REPORT SE	ENT TO: CO (1) RO (2)	LPHE (1) LHO (0) FED (0	) CHEM (1)	
				-8°#
PARI	ANETER	UNET	RESULT	NOTATION
334409	BENZENE	HCG/L	1.	LT
34509	XYLENES	NCG/L	1.	LT
039209	TOLUENE			
337237	TULUENE	NCG/L	1-	LT
				4); 
-				
100				

DATE COMPLETED: 8/21/80

REGIONAL DIRECTOR OF P.H. ENGINEERING NEW YORK STATE DEPARTMENT OF HEALTH 351 SOUTH WARREN STREET SYRACUSE NEW YORK 13202 4

4.271	DIVI	YURK TATL DEP ISTON LABORAT ENVIRONMENTAL HE	URIES AND RESE	Lì HÌ Arch	Reference 29 Page 110 of	
-		LAVINGAALATAL AL	ETA CLATER			
		RESULTS OF EXA	NTNATION			+
		(PAGE 1 OF				
AB ACCES	SION NO: 81014	YR/NO/DAY/HR S	-	0/07/29/08		Ē
REPORTING	LAB: 17 EHC	ALBANY				
	106 TOXIC SUBS					
	SOURCE) 'NO:					
		AZETTEER ND: 376	2 COUNTY: OSH	EGO		
	ES: DEG .		• • • W			
		HED: APH HIGH SC	HOOL			
-						
EXACT SAM	PLING POINT: W	ELL TAP PIT SOUL	TH WELL			ć
		R. DRILLED WELL				•
		FROM 00/00 TO 07				
REPORT SE	NT TO: CO (1)	RO (2) LPHE (1)	LHO (0) FED (0	) CHEN (1)		, tr
PARA	METER		UNIT	RESULT	NOTATION	
						~
34409	BENZENE		NCG/L	1-	LT	
34509	XYLENES		MCG/L	1.	LT	
						* *
39209	TOLUENE		HCG/L	1-	LT	
-						4*
÷						

DATE COMPLETED: 8/21/80

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SEP 0 -1 1990

VINCE CONTRACTS HEATTH DEPT

REGIONAL DIRECTOR OF P.H. ENGINEERING NEW YORK STATE DEPARTMENT OF HEALTH 351 SOUTH WARREN STREET SYRACUSE NEW YORK 13202

SUBMITTED BY: HEERKENS

Reference 29 Page 111 of 115

July 29, 1980

Mr. A. Wendell Holbrook Parish, New York 13131

### Re: Holbrook Barrel Site Parish(T), Oswego County

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Dear Mr. Bolbrook:

Attached are photocopies of laboratory reports from the old dug well toward the rear of the bars. The concentration for iron and manganese are both in excess of the drinking water recommended standards.

The concentration of other constitutents are acceptable.

Very truly yours,

James H. McCarthy, P.E. Director of Public Health Engineering

Jei:kfb Attach

cc: Mr. Halton Mr. Tramontano Oswego County Health Dept.

Reference 29 Page 112 of 115

STATE OF NEW YORK DEPARTMENT OF HEALTH OFFICE OF PUBLIC HEALTH

DAVID AXELROD, M.U. Commissioner GLENN E. HAUGHIE, M.D. Director of Public Health

-1.5.

WRACUSE, N.Y. 13202

### SYRACUSE AREA OFFICE

JOSEPH V. BARRY Area Public Health Director

July 15, 1980

Mr. A. Wendell Holbrook Parish, New York 13131

> Re: Holbrook Barrel Site Parish(T), Oswego County

Dear Mr. Holbrook:

Attached are results of chemical testing done on the old dug well on June 24, 1980 toward the rear of your barn on the Bangall Road Farm. The results indicate that the color, 45 units and the odor, 3 units are unsatisfactory for a drinking water supply.

Additional samples were collected on June 25, 1980 which indicated a similar unsatisfactory color intensity, however, the odor was reported to be satisfactory.

If you have any questions please feel free to call me at 473-8374.

Very truly yours,

James M. McGarthy, P/E. Director of Public Health Engineering

JMM:kfb Attach.

cc: Mr. Halton Mr. Tramontano

3205	NEK OF STATE DEPA DIVISION - LABORATO ENVIRONMENTAL HEA	ARTMENT OF HO DRIES AND RESE ALTH CENTER	ARL	Reference 29 Page 113 of 115
LAB ACCES	RESULTS OF EXAM (PAGE 1 OF SSIUN NO: 01639 YR/MO/DAY/HR SA	1)	30/06/24/15	(
PROGRAM: STATION ( DRAINAGE COORDINAT	LAB: 33 SYRACUSE LAB 126 (SOURCE) NO: BASIN: NY GAZETTEER NO: 3767 TES: DEG ' "N, DEG NHE INCL SUBW'SHED: U		WEGO	. (
TYPE OF S	APLING POINT: OLD DUG WELL HOLB SAMPLE: 12 WATER, DRILLED WELL R OF SAMPLING: FROM 00/00 TO 06 ENT TO: CO (1) RO (2) LPHE (2) (	/24/13		
PARA	METER	UNIT	RESULT	NOTATION
100200	TURBIDITY, N.T.U.NEPHEL.		1,2	
000100	COLOR (APPARENT)		(45.)	
100300	ODOR, COLD		3.ALCOH	IOL
001900	PH (LABORATORY)		6.7	
101501	ALKALINITY, ELECTROM.PH4.5	MG/L	42.	
001101	HARDNESS, TOTAL AS CACUS	MG/L	54,	
001001	CHLORIDE	MG/L	29,	
202401	SULFATE AS 504	MG/L	5.	LT
000401	FLUORIDE, FREE	MG/L	. 1	LT
	RECEI	THE DO NO STANDA N.Y.S. PA	RESULTS CIRCLED A T MEET THE RECOM RDS SET FORTH IN RT 5 SANITARY COM	
DATE COM	PLETED: 7/07/80 JUL09	HEALTH DEPT.	MEET THE RECOM RDS SET FORTH IN RT 5 SANITARY COD	THE THE DE
BUNN	IC HEALTH ENGINEER GO COUNTY HEALTH DEPARTMENT ER STREET GO, N.Y. 13126	Su	IBMITTED BY:	MCCRTHY

1518	DIVISION OF	TATE DEPARTMENT OF HEAL LABORATORIES AND RESEL ENTAL HEALTH CENTER	LT( ARCH	Reference 29 Page 114 of 115
LAB ACCES	RESULT (P SSION NO: 00688 YR/HO/	S OF EXAMINATION AGE 1 OF 1) Day/hr sample rec'd: 8	0/07/01/11	(
PROGRAM: STATION DRAINAGE COORDINA	(SOURCE) NO: BASIN: NY GAZETTEER	NOI 3762 COUNTY: OSW Deg i WW Ish	EGO .	( • • ( (
HO/DAY/H	MPLING POINT: OLD DUG W Sample: 12 water, drill R OF Sampling: From 00/ Ent to: co (1) ro (2) L	ED WELL 00 To 06/24/13		(
PAR	AMETER	UNIT	RESULT	NOTATION
010001	IRON	MG/L	0.55	(
010201	MANGANESE	MG/L	0.89	
309709	CADMIUM	MCG/L	2.	LT
309809	CHROMIUM	MCG/L	10.	LT (
310109	LEAD	MCG/L	10.	LT
309309	ARSENIC	MCG/L	10.	LT
009401	BARIUM	MG/L	0.5	LT
010309	MERCURY, TOTAL	MCG/L	0.4	LT
010901	ZINC	MG/L	0.05	,
-				,
		RECE	IVED	ţ
			1 1980	ł
DATE COM	PLETED: 7/16/80			
1		OSWEGO COUN THE RESULTS CIRCL DO NOT MEET THE STANDARDS SET FO N.Y.S. PART 5 SAN	RECOMMENDED RTH IN THE	(
PUBL:	IC HEALTH ENGINEER	N.T.J. PART J SAM	ILUIT VVVI	(

PUBLIC HEALTH ENGINEER OSWEGO COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BYE NOTGIVEN

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2468 (	NEW ORK STATE DE DIVILON & LABOR ENVIRONMENTAL RESULTS OF E	ATORIES AND RES. HEALTH CENTER XAMINATION	YTH (	Reference 29 Page 115 of 115
REPORTING PROGRAM: STATION ( DRAINAGE COORDINAT COMMON NA EXACT SAM TYPE OF S	(PAGE 1 SSION NO: 01670 YR/MO/DAY/HR LAB: 33 SYRACUSE LAB 106 TOXIC SUBST. MGT. SOURCE) NO: BASIN: 03 NY GAZETTEER NO: 3 TES: DEG ' "N. DEG ME INCL SUBW'SHED: U APLING POINT: DIP SAMPLE HOLB SAMPLE: S7 SURV., PWS, MIS OF SAMPLING: FROM 00/00 TO	SAMPLE REC'D: 8 762 COUNTY: OSW WW ROOK DUG WELL CELL.		•
REPORT SE	ENT TO: CU (1) RO (2) LPHE (2 AMETER		) CHEM (1) Result	NOTATION
000100 100300 001900 101501	COLOR (APPARENT) UDOR, COLD PH (LABORATORY) ALKALINITY,ELECTROM.PH4.5	MG/L	42. 1.VEG 6.5 45.	ta.
		THE RESULTS CIRCLED A DO NOT MEET THE RECO STANDARDS SET FORTH N.Y.S. PART 5 SANITARY	BOVE MMENDED IN THE	
DATE COM	PLETED: 6/30/80	JUL	CEIV – D 3 1980 UNTY HEALTH DEPT.	

PUBLIC HEALTH ENGINEER OSWEGD COUNTY HEALTH DEPARTMENT BUNNER STREET OSWEGO, N.Y. 13126

SUBMITTED BY: MCCARTHY