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Report No.: 8003-355


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FINAL
SITE INSPECTION REPORT
NORTH BLOOMFIELD
LIMA, LIVINGSTON COUNTY, NEW YORK

PREPARED UNDER
WORK ASSIGNMENT NO. 038-2JZZ
CONTRACT NO. 68-W9-0051
REV. NO. 2

November 30, 1994
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Volume: 1 of 4

SUBMITTED BY:


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8106

SITE SUMMARY

The North Bloomfield Site is located in the North Bloomfield section of Lima Township, Livingston County, New York. The site was originally comprised of residential properties along Ideson Road, Martin Road, and Bragg Street. The site has been expanded to include the Enarc-O Machine Products, Inc. (Enarc-O) facility, 22 residences, which have been impacted by contamination of their drinking water wells, and an additional 10 residences at risk of contamination. Enarc-O is owned by Kaddis Manufacturing Corporation, which is in turn owned by Country Lane Associates. The site is bounded to the east and north by Honeoye Creek, to the west by agricultural land and residential properties along Martin Road, and to the south by farmland. The immediate site area is generally residential. However, in addition to Enarc-O, another commercial establishment (Crane's Collision, Inc.) is located on Bragg Street. The area surrounding the site consists mainly of farmland.

In 1985, a total of 38 residential drinking water wells, as well as the Enarc-O supply well, were sampled by the New York State Department of Health (NYSDOH) and the Livingston County Department of Health (LCDOH). Contaminants found in the private residential wells include: trichloroethylene (TCE) (318 parts per billion (ppb)); 1,1,1-trichloroethane (1,1,1-TCA) (8 ppb); trans-1,2-dichloroethene (trans-1,2-DCE) (89 ppb); 1,2-dichloroethane (1,2-DCA) (2 ppb); and 1,1-dichloroethane (1,1-DCA) (1 ppb). Sampling of the Enarc-O well revealed the following contaminants in that well: TCE (1,800 ppb); 1,1,1-TCA (560 ppb), trans-1,2-DCE (4 ppb); perchloroethene (PERC) (68 ppb); and 1,1,2,2-tetrachloroethane (1,1,2,2-TCA) (100 ppb). The 38 residential drinking water wells and the Enarc-O well were sampled at the tap between March and November of 1985, by the NYSDOH and LCDOH. Of the 22 impacted wells discovered during the above-mentioned sampling events, three wells were found to have volatile organic compound (VOC) concentrations greater than the USEPA 10-Day Health Advisory Guidelines and four wells exceeded NYSDOH Guidelines for Drinking Water. Data from another 15 wells indicated VOC contamination above quantifiable detection limits.

The USEPA determined that the likely source of contamination was Enarc-O. Enarc-O is a machining facility which manufactures swiss screw-machine products. The facility is located on approximately six acres and is comprised of a production building and a smaller storage building. Site operations include shaping, machining, deburring, and degreasing metal parts. Analytical results of samples collected from the facility well during sampling events performed by the NYSDOH and the LCDOH contained the highest concentrations of VOCs.

A USEPA request in 1986 for information from Enarc-O and Crane's Collision, Inc., revealed that Enarc-O used a substantial amount of TCE between 1960 and 1980, and 1,1,1-TCA between 1980 and 1985 in a vapor degreasing process. The solvents were stored in an aboveground solvent storage tank located adjacent to the facility's loading dock. Since 1985, Stoddard Solvent has been used in this process. Crane's Collision, Inc. did not use chlorinated solvents. Information also indicated that a spill of approximately 5-gallons of 1,1,1-TCA occurred at Enarc-O on June 18, 1985. The spill occurred when a 1,000-gallon aboveground solvent storage tank was overfilled. Soils affected by the spill were excavated to two-feet deep and were spread out on the southeastern corner of the facility parking lot. One record indicates that disposal of spent TCE and 1,1,1-TCA has also occurred on a number of occasions at the Enarc-O facility. However, there is no other documentation which suggests regular disposal of waste occurred on site. Additionally, the USEPA determined that Enarc-O was hydraulically upgradient of the contaminated residential drinking water wells, with groundwater flow presumed to be towards the north-northwest.

On August 15, 1985, the New York State Department of Environmental Conservation (NYSDEC), Division of Solid and Hazardous Waste, requested that the USEPA consider the North Bloomfield groundwater contamination for a CERCLA Removal Action. On November 11, 1985, the USEPA Director of the Emergency Response and Remedial Response Division authorized CERCLA funding for removal activities to provide an alternate safe source of potable water to residents threatened by the contaminated groundwater. On December 2, 1985, bottled water delivery was initiated to each of the residences affected by a contaminated well, as well as other residences considered to be at risk. The USEPA Regional Administrator authorized the installation of public water supply mains, taps, meters, and hook-ups for all the residences in the area threatened by groundwater contamination, under the CERCLA removal action, on June 11, 1986. On June 4, 1987, the USEPA contracting officer signed a contract with the City of Rochester Water Works (RWW) for the construction and installation of the water main to residences in the impacted area. On July 13, 1987, the RWW crews initiated tapping a RWW water main and installing water meter boxes. As of February 2, 1988, a total of 33 homes and 1 business (Enarc-O) were connected to the public water supply, and all testing of the water system and restoration was complete. Response costs incurred by the USEPA for these removal actions were recovered from the potentially responsible parties in 1991.

In July 1987, the USEPA directed Enarc-O to determine the facility's hydrogeologic setting, the nature and extent of contamination at the facility, and if sources on the Enarc-O facility property could be linked to the residential groundwater contamination. A final site assessment workplan was approved in July 1989, and was subsequently appended to an Administrative Order on Consent between the USEPA and Enarc-O's parent company, Kaddis Manufacturing Corp. (Index No. II-CERCLA-90204), dated September 29, 1989.

The Order required Kaddis (Enarc-O) to complete the tasks in the workplan, including an Interim Technical Memorandum (ITM).

An ITM was prepared by O'Brien and Gere Engineers, Inc. (O'Brien and Gere) in December 1989. The ITM included the results of a historical information review, a fracture trace analysis, and a geophysical survey. It also included a plan for completing the tasks of soil sampling and analysis, groundwater monitoring well installation, groundwater sampling and analysis, and data interpretation and report preparation. These tasks were subsequently completed and reported in a Site Assessment report.

The Site Assessment report was prepared by O'Brien and Gere in May 1991. The report summarized the completion of the tasks described above. Soil sampling and analysis was conducted in November, 1990. Sample analyses indicated volatile organic compound (VOC) contamination in the area of Enarc-O's former aboveground solvent storage tank and loading dock. The results reported a tendency of a decrease in VOC concentrations with increasing depth. Additionally, initial contamination was generally encountered at depths greater than two feet. VOC's were not detected in soil samples collected in the parking lot, which includes the area where soils contaminated during the 1,1,1-TCA spill were disposed. Monitoring wells were installed at Enarc-O, and were sampled in January and February, 1991. The monitoring wells contained VOC's. Levels of VOC's in MW-1 and MW-6 were at or near detection limits. MW-1 represents the background well, because it is located to the southwest of the site, cross gradient to the site's groundwater flow direction. MW-6 is located west of the Enarc-O manufacturing building. The highest concentrations of VOC's were noted in wells MW-2 and MW-3, located approximately 80 feet north and 170 feet southeast of the former solvent storage tank, respectively.

CDM Federal Programs Corporation (CDM FPC), collected split samples during both groundwater sampling events and the soil sampling, conducted by O'Brien and Gere. Full Target Compound List (TCL) and Target Analyte List (TAL) parameters were analyzed on several of the split samples. None of the soil sample locations can be considered background, because all were taken on the immediate site property, where site activities may have taken place. The results of metals analyses for soils appeared to be within normal ranges, when compared to a regional New York State soil sample. Additionally, all soil samples contained similar concentrations of metals. VOC results were comparable to those detected in the soils by O'Brien and Gere. Groundwater metals analyses did not reveal significant metals contamination above background levels (MW-1). VOC's in groundwater were comparable to results obtained by O'Brien and Gere.

The NYSDEC is currently conducting a Remedial Investigation/Feasibility Study (RI/FS), which began in April, 1994. The RI/FS is primarily focused on the Enarc-O facility site, with limited off-site work in the

residential area for further groundwater plume delineation. Additional soil, groundwater, septic tank, sump, and residential well water sampling has been performed in conjunction with the RI/FS. Gardiner Cross, a NYSDEC hydrogeologist, and the NYSDEC project manager for the Enarc-O site, indicated the possibility of a pump-and-treat system for groundwater remediation, as well as a soil vapor extraction system at the Enarc-O facility property. Residential well sampling conducted during the RI/FS does not indicate any further migration of the groundwater contamination plume.

The RWW operates a municipal water main 700 feet west of Ideson Road. This main is used as the source of water for residents of Martin Road, Ideson Road, and Bragg Street. Additionally, the Village of Lima, Livonia Center, South Livonia, Hemlock, and the Village of Livonia are supplied by RWW. The RWW system is supplied by a number of surface water intakes in Hemlock Lake and Lake Ontario. A Monroe County Water Authority (MCWA) water main is located on Route 65 on the other side of Honeoye Creek. Residences located east of Honeoye Creek, with the exception of four or five homes utilizing private well water, are on public water supplied by the MCWA. Four private wells on the east side of Honeoye Creek were sampled, and did not contain contaminants above quantifiable detection limits. Additionally, the Towns of Mendon (which includes the Village of Honeoye Falls, Sibleyville, Tomlinson Corners, and Rochester Junction) and Rush are also supplied by MCWA water. West Bloomfield utilizes Hemlock Lake water and water supplied by the MCWA. There are scattered residential areas in Livingston, Ontario, and Monroe Counties which utilize private drinking water wells for their source of water. However, most of the area north and northwest of the North Bloomfield site is serviced by public water. The nearest groundwater drinking well in use is located approximately 950 feet northeast of the site, across Honeoye Creek. This well does not contain VOC's above minimum detection limits. The nearest utilized groundwater drinking well on the same side of Honeoye Creek is approximately 1,800 feet south (upgradient) of the site. There are also residential groundwater drinking wells on Martin Road, approximately 2,500 feet west of the site. The eastern most well on Martin Road currently used for drinking purposes, does not contain VOC's above minimum detection limits.

The Enarc-O property is approximately 400 feet from Honeoye Creek. The two are separated by a private residential property. Honeoye Creek flows (143 to 216 cubic feet per second (cfs)) for 15 miles to the target distance limit. There are no drinking water intakes along this water body. Additionally, there are rapids near the site's probable point of entry and two waterfalls are located approximately 2.1 miles downstream. These features would likely increase volatilization of any VOC contamination being released to Honeoye Creek. Honeoye Creek is a NYSDEC Class B stream, usable for primary contact recreation and light fishing. There are approximately 2.3 miles of wetlands frontage along the surface water pathway. No other sensitive environments are located along the 15-mile surface water pathway. The potential for groundwater to surface

water discharge in the vicinity of the site is low, because the stream appears to be losing water to the groundwater formation in this area.

The potential for soil exposure at the site is low. The Enarc-O facility is currently active. The property serves no recreational use. There are approximately 65 workers at the site. Soil samples collected by O'Brien and Gere do indicate VOC contamination from 0 to 2 feet below the surface. There are no known terrestrial sensitive environments or workers located on the site property. There are no schools or day care centers on or within 200-feet of the site. Eight occupied residential properties are within 200 feet of the site.

No documentation is available to indicate whether a release of contaminants to the air from the site has occurred. There are 9,142 people living within four miles of the site (0 - 0.25 mile, 21; 0.25 - 0.5 mile, 78; 0.5 - 1 mile, 490; 1 - 2 miles, 2,237; 2 - 3 miles, 3,284; 3 - 4 miles, 3,032). Approximately 685 acres of wetlands are located within four miles of the site (0 - 0.25 mile, 0; 0.25 - 0.5 mile, 3; 0.5 - 1 mile, 4; 1 - 2 miles, 31; 2 - 3 miles, 115; 3 - 4 miles, 532). There are no habitats for New York threatened or endangered species within four miles of the site.

SITE ASSESSMENT REPORT: SITE INSPECTION**PART I: SITE INFORMATION**

1. Site Name/Alias North Bloomfield/Enarc-O Machine Products, Inc./Enarc-O
Street 1175 Bragg Street
City Lima State New York Zip 14485
2. County Livingston County Code 051 Cong. Dist. 136
3. EPA ID No. NYD982181414
4. Block No. Map 28, Section 1 Lot No. 20
5. Latitude 42° 56' 14" N Longitude 77° 34' 33" W
USGS Quad. Honeoye Falls, New York
6. Owner Country Lane Associates Telephone No. (716) 624-3070
Street 1175 Bragg Street
City Lima State New York Zip 14485
7. Operator Kaddis Manufacturing Corporation Telephone No. (716) 624-3070
Street 1175 Bragg Street
City Lima State New York Zip 14485
- 7a. Former Operator Enarc-O Machine Products, Inc. Telephone No. (716) 624-3070
Street 1175 Bragg Street
City Lima State New York Zip 14485
- 7b. Former Operator Wesley Crane Telephone No. Unknown
Street Unknown
City Lima State New York Zip 14485
8. Type of Ownership
☒ Private ☐ Federal ☐ State
☐ County ☐ Municipal ☐ Unknown ☐ Other _____

9. Owner/Operator Notification on File

☐ RCRA 3001 ☐ Date _____ ☐ CERCLA 103c Date _____
☒ None ☐ Unknown

10. Permit Information

Permit	Permit No.	Date Issued	Expiration Date	Comments
SPDES	NY0003034	Unknown	Unknown	None

11. Site Status

☒ Active ☐ Inactive

12. Years of Operation 1954 to Present

13. Identify the types of waste sources (e.g., landfill, surface impoundment, piles, stained soil, above- or below-ground tanks or containers, land treatment, etc.) on site. Initiate as many waste unit numbers as needed to identify all waste sources on site.

(a) Waste Sources

Waste Unit No.	Waste Source Type	Facility Name for Unit
1	<u>Contaminated Soil</u>	<u>Contaminated Soil</u>

(b) Other Areas of Concern

Identify any miscellaneous spills, dumping, etc. on site; describe the materials and identify their locations on site.

Machined parts at the Enarc-O facility were degreased using a vapor degreasing process. From the time Enarc-O occupied the present property to 1980, TCE was used as the degreaser. From 1980 to 1985, 1,1,1-TCA was utilized. Since 1985, Stoddard Solvent (Kensol 30), has been used in place of chlorinated solvents, as a degreasing agent. An aboveground storage tank was used to store solvents at Enarc-O. On June 18, 1985, approximately 5-gallons of 1,1,1-TCA were spilled due to overfilling of the tank. The spill was reported to the NYSDEC, which recommended that the affected soils be excavated to a depth of two feet. The soil was then spread out in the southeastern corner of the parking area to allow volatilization to occur. The soils were periodically raked by Enarc-O personnel to enhance volatilization. The solvent storage tank was removed in July of 1986. An Administrative Consent Order indicates that wastes may have been deposited on site on a number of occasions. There are no records in addition to the event described above, detailing additional waste disposal on site.

Ref. Nos. 1; 2, p. 4; 8, pp. 1-3; 13, pp. 1, 14; 23; 28, pp. 4-5, 7-9; 29, pp. 6-7, 45; 30, pp. 8-9; 43; 44; 45; 47

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14. Information available from

Contact Joseph Hudek Agency U.S. EPA Telephone No. (908)-321-6713

Preparer Warren K. Parry Agency Malcolm Pirnie, Inc.

Date November 30, 1994 Updated April 10, 1995

PART II: WASTE SOURCE INFORMATION

For each of the waste units identified in Part I, complete the following items.

Waste Unit 1 - Contaminated Soil

Source Type

<u> </u>	Landfill	<u> X </u>	Contaminated Soil
<u> </u>	Surface Impoundment	<u> </u>	Pile (Specify type: chemical, junk, trash, tailing, etc.)
<u> </u>	Drums	<u> </u>	Land Treatment
<u> </u>	Tanks/Containers	<u> </u>	Other (Specify)

Description:

Enarc-O utilized chlorinated solvents in a machine parts degreasing process, located in the southern portion of the facility's east wing. An aboveground solvent storage tank was located outside of the building in this same area. Three soil borings (B2, B3, and B4), collected from the soils just south of the building's east wing, in the vicinity of the former storage tank, contained VOC contamination from 2 to 11 feet below ground surface. A spill occurred at the storage tank on June 18, 1985. Approximately 5 gallons of 1,1,1-TCA were spilled onto the soils surrounding the tank. The soils were excavated to two feet and moved to the southeastern portion of the parking area located on site. The soils were then raked to allow volatilization. No VOC contamination has been detected in this area.

Hazardous Waste Quantity

The volume of contaminated soil at the site is based upon soil sampling results collected during a soil boring program in November of 1990 by O'Brien and Gere. Soil samples from three borings (B2, B3, and B4) covering an area of approximately 40 feet by 50 feet (2000 ft²) contained TCE. Two borings (B3 and B4) also contained 1,1,1-TCA above minimum detection limits. Therefore, the hazardous waste quantity is assumed to be 2000 ft².

Hazardous Substances/Physical State

Hazardous substances that have been detected in soil samples at the Enarc-O Site according to available analytical data include: TCE; 1,1,1-TCA; trans-1,2-DCE; tetrachloroethene; 1,1-DCA; 1,1-DCE; and 1,2-DCA. These substances were deposited in a liquid state.

Ref. Nos. 29, pp. 12, 37, 45, 144-158; 30, p. 8-9; 31, p. 18

PART III. SAMPLING RESULTS**EXISTING ANALYTICAL DATA**

A total of 38 residential drinking water wells and the Enarc-O supply well were sampled at the tap between June 19, 1985 and October 31, 1985, by the New York State Department of Health (NYSDOH) and the Livingston County Department of Health (LCDOH) (Ref. Nos. 2, p. 5; 5, p. 2; 31, p. 15-16). Twenty-two of the wells were found to have volatile organic compounds above minimum detection limits (Ref. Nos. 3, p. 1; 4, p. 1). The primary compounds found in the wells were 1,1,1-TCA and TCE (Ref. No. 31, pp. 15-16). Three wells were found to have volatile organic compound (VOC) concentrations greater than the USEPA 10-Day Health Advisory Guidelines and four wells exceeded NYSDOH Guidelines for Drinking Water. Data from the other 15 wells indicated VOC contamination above quantifiable detection limits (Ref. No. 3, p. 1). Five of the residential wells were sampled on two separate occasions. They were first sampled on June 19, 1985 and again on July 1, 1985. The two sets of results were comparable for each of the five wells (Ref. No. 31, pp. 15-16).

One fact of interest, is the increased concentration of 1,1,1-TCA and TCE in the Enarc-O supply well between three samples previously collected from the well in 1984 and two of three samples collected in 1985 (Ref. No. 31, pp. 15-16). The highest detected level of TCE in 1984 was 4 ppb and the highest level of 1,1,1-TCA was 120 ppb. In 1985, the highest level of TCE was 1,800 ppb and the highest level of 1,1,1-TCA was 560 ppb. However, there was also a dramatic decrease in TCE and 1,1,1-TCA from March to July of 1985 (1,800 to 8 ppb TCE and 560 to 22 ppb 1,1,1-TCA) (Ref. No. 31, pp. 15-16). The spill of 1,1,1-TCA on June 18, 1985 may have had some effect on these levels, however, an increase in TCE and 1,1,1-TCA levels was noted in March 1985, prior to the spill date, and a decrease in TCE and 1,1,1-TCA was noted after the spill (Ref. Nos. 30, p. 9; 31, pp. 15-16). There is no information available regarding quality assurance/quality control (QA/QC) procedures for that sampling event.

The following table summarizes some of the significant sample results from residential well sampling and Enarc-O well sampling conducted in 1984 and 1985 (Ref. Nos. 29, p. 117; 31, pp. 15-16):

Summary of Significant Groundwater Well Analytical Sample Results - 1984 and 1985
Residential Wells and Enarc-O Supply Well

<u>Sample Location</u>	<u>Sample Date</u>	<u>TCE</u>	<u>1,1,1-TCA</u>	<u>cis-1,2-DCE</u>
Enarc-O	1/18/84	0.6	120	--
Enarc-O	5/08/84	4	6.1	--
Enarc-O	9/06/84	2	5	--
Enarc-O	3/22/85	1800	370	--
Enarc-O	6/19/85	--	560	--
Enarc-O	7/01/85	8	22	4
Garvey	6/19/85	290	8	75
Garvey	7/1/85	318	3	89
Rogers	6/19/85	260	--	75
Rogers	7/1/85	197	2	43
Vellekoop	6/19/85	110	8	41
Vellekoop	7/1/85	92	8	16
Smith	6/19/85	77	1	21
Smith	7/1/85	98	1	17
Hopkins	7/1/85	80	1	4
Years	7/1/85	72	1	19

TCE = trichloroethene; 1,1,1-TCA = 1,1,1-trichloroethane; cis-1,2-DCE = cis-1,2-DCE

All results are in parts per billion (ppb)

-- = Not detected or not analyzed.

Entire set of sample results can be found in the references provided.

O'Brien and Gere performed sampling events in November 1990, January 1991, and February 1991 (Ref. Nos. 29, pp. 11-17; 32, p. 3). The data for these sampling events were validated using USEPA data validation guidelines for inorganic and organic analyses (Ref. No. 29, pp. 119-122). The sampling was performed in conjunction with the installation of soil borings and monitoring wells at the Enarc-O facility to evaluate and determine the sources of volatile organic compounds at the North Bloomfield groundwater contamination site (Ref. No. 29, pp. 11-17). The November 1990 sampling event consists of soil samples collected during soil boring installation (Ref. No. 29, pp. 11-14). Results of these sampling events are provided in the Site Assessment report by O'Brien and Gere (Ref. No. 29, pp. 37, 45). In general, the results indicate that three of the ten soil borings on the Enarc-O site contained volatile organic compounds. The three contaminated borings were advanced near the former solvent storage tank next to the Enarc-O loading dock. The highest levels of volatile organics included: 1,1,1-TCA (860 ppb); 1,1-DCA (16 ppb); 1,1-DCE (76 ppb); 1,2-DCE (total) (900 ppb); tetrachloroethylene (490 ppb); and TCE (1700 ppb). Contaminants found between 0 and 2 feet below ground surface were 1,1,1-TCA (860 ppb), 1,1-DCE (76 ppb), 1,2-DCE (total) (480 ppb), tetrachloroethylene (490 ppb), and TCE (1700 ppb) (Ref. No. 29, pp. 37, 45).

Sampling events in January and February 1991 involved the sampling of newly installed monitoring wells at the Enarc-O site (Ref. No. 29, pp. 14-17). Well MW-1 is located cross-gradient to the site contamination, and is therefore considered to be background (Ref. Nos. 29, pp. 42-43; 30, pp. 43-45). All on-site monitoring wells contained at least trace amounts of volatile organic compounds. TCE was found in all wells, ranging from 1 to 5800 ppb. 1,1,1-TCA was found in monitoring wells 3, 4, and 5 located northwest to northeast of the contaminated boring locations. In addition, cis-1,2-DCE (14-160 ppb) and carbon tetrachloride (3 ppb) were found in monitoring wells on-site (Ref. No. 31, p. 17).

In addition to, and in conjunction with, the sampling above, many of the soil and groundwater samples were split with CDM Federal Programs Corporation (CDM FPC) (Ref. No. 32, p. 3). Those samples split during the November 1990 and January 1991 sampling events were analyzed for full Target Compound List (TCL) and Target Analyte List (TAL) parameters (Ref. No. 32, p. 3). Volatile organic contaminants detected were similar to those detected in the previously mentioned sampling events (Ref. No. 31, pp. 17-18). Soil sample analytical results indicate that all on-site soils contained similar levels of metals. In addition, when compared to a regional sample collected by the U.S. Geological Survey (U.S.G.S.), the metals results appear to be similar to those expected for that part of New York (Ref. Nos. 31, p. 18; 46, pp. 1-6). Monitoring well samples, when compared to MW-1, generally did not contain metals in concentrations greater than three times background levels (Ref. No. 32, p. 11). One exception was the existence of copper in monitoring well MW-5 in concentrations greater than three times background (38.9 ppb) (Ref. No. 32, p. 11). There is no information available regarding QA/QC procedures for the split samples collected by CDM FPC (Ref. No. 32).

Subsequent to the initial 1985 sampling, several occasions of sump and residential well water sampling have been recorded in a summary table of the 2 September to 2 December Quarterly Progress Report by H&A of New York (Ref. No. 31, pp. 15-16). Sample results are recorded for 1991, 1992, 1993, and 1994. Two residential sumps were sampled from 1991 to 1994. Only one of the sumps (located on Martin Road) contained volatile organic compounds (Ref. No. 31, p. 15). VOC's were detected in the following concentrations: TCE (118 ppb); 1,1,1-TCA (4 ppb), and cis-1,2-DCE (65 ppb). The previously mentioned contaminants were found in the sump each year of sampling, at comparable levels. The most noted change was the decrease in TCE from 1991 to 1994 (118 ppb to 26 ppb) (Ref. No. 31, p. 15).

Three residential wells were sampled in 1994. One well is located on Martin Road (a location which can be used to delineate the western extent of contaminant migration), and the other two are located on Ontario Street (on the opposite side of Honeoye Creek) (Ref. No. 31, pp. 15-16). Samples from these wells did not contain volatile organic contaminants during initial sampling in 1985, or during the 1994 sampling event (Ref. No. 31, pp. 15-16). There is no information available regarding QA/QC procedures for the 1991 to 1994 sampling events.

Monitoring wells MW-201D, MW-201S, and MW-202 were installed by H&A of New York (Ref. No. 31, p. 22). All monitoring wells (except MW-201S) were sampled by H&A of New York in July and November of 1994 (Ref. No. 31, p. 17). In all cases where 1985 sampling data is available, except MW-5, levels of TCE, 1,1,1-TCA, and cis-1,2-DCE decreased (Ref. No. 31, p. 17). The greatest decreases were in TCE levels. In MW-5, levels of TCE and 1,1,1-TCA increased up to three times their 1985 levels, while cis-1,2-DCE decreased slightly (Ref. No. 31, p. 17). Samples from the newly installed well near the former solvent storage tank, MW-201D, contain the highest levels of TCE and cis-1,2-DCE on the site. MW-202, installed in the parking area, contained small amounts of each of these contaminants (25 ppb of TCE and 45 ppb of cis-1,2-DCE) (Ref. No. 31, p. 17). There is no information available regarding QA/QC procedures for the monitoring well samples described above.

Soil samples were collected by H&A of New York in May 1994. Four on-site shallow borings (3.3-4.3 feet) and four off-site surface soil samples (0-0.5 feet) were analyzed for volatile organic compounds (Ref. No. 31, p. 18). All on-site borings (exact locations unknown) contained TCE (1500 ppb), 1,1,1-TCA (670 ppb), 1,2-DCE (52 ppb), 1,2-DCA (27 ppb), 1,1-DCE (130 ppb), and 1,1-DCA (83 ppb). None of the off-site borings contained volatile organic compounds above minimum detection limits (Ref. No. 31, p. 18). There is no information available regarding QA/QC procedures for the monitoring well samples described above.

SITE INSPECTION RESULTS

As part of the North Bloomfield Site Inspection, historical records concerning the site, sampling, removal actions, and current NYSDEC activities were reviewed. No sampling was conducted during the Site Inspection because sufficient background information is available to adequately characterize the site.

PART IV. HAZARD ASSESSMENT

GROUNDWATER ROUTE

1. Describe the likelihood of a release of contaminant(s) to the groundwater as follows: observed release, suspected release, or none. Identify contaminants detected or suspected and provide a rationale for attributing them to the site. For observed release, define the supporting analytical evidence.

There is an observed release of contaminants to groundwater. The Enarc-O facility utilized TCE in a vapor degreasing process from 1954 until 1980. From 1980 to 1985, 1,1,1-TCA was used in place of the TCE. Since 1985, Stoddard Solvent (Kensol 30) has been utilized for this process. Additionally, a spill of less than five gallons of 1,1,1-TCA was reported at the Enarc-O site on June 18, 1985. The spill was a result of overfilling an aboveground solvent storage tank. Between March and November of 1985, 39 drinking water wells were sampled by the NYSDOH and LCDOH. Twenty-two of the wells contained volatile organic contaminants above minimum detection limits. The highest concentrations were noted in the Enarc-O supply well located on Enarc-O's property (1,800 ppb of TCE and 560 ppb of 1,1,1-TCA). Off-site wells contained concentrations of TCE ranging from 2 to 318 ppb and 1,1,1-TCA from 1 to 8 ppb. Additional organic compounds were detected in these wells and the Enarc-O well, which probably represent breakdown products of TCE and 1,1,1-TCA. All of the off-site wells mentioned above are downgradient of the Enarc-O well.

In addition to the above sampling, monitoring well samples collected at the Enarc-O site indicate an observed release to groundwater. Groundwater at the site flows to the north/northwest. MW-1 is cross-gradient, and is considered to be background. This well contained a trace amount of TCE (3 ppb). 1,1,1-TCA was not detected at this well. Downgradient wells contained levels of TCE ranging from 15 to 4000 ppb, and 1,1,1-TCA ranging from 15 to 100 ppb.

Ref. Nos. 3, p. 1; 8, pp. 2-4; 9; 28, pp. 7-9; 29, pp. 6-8; 30, pp. 8-10, 43-45; 31, pp. 15-16, 22, 24-77

2. Describe the aquifer of concern; include information such as depth, thickness, geologic composition, areas of karst terrain, permeability, overlying strata, confining layers, interconnections, discontinuities, depth to water table, groundwater flow direction.

The aquifer of concern is the Nedrow member of the Onondaga Limestone, a bedrock aquifer of the Middle Devonian Age. This is a fine to medium grained, grey, crystalline, carbonate rock formation, which contains a low to moderate amount of chert. Additionally, secondary deposits of quartz, calcite, and gypsum were encountered in the bedrock during on-site drilling. Groundwater in the limestone tends to flow through vertical and horizontal fractures within the formation. Groundwater was not encountered in the overburden, but was encountered between 4 and 12 feet below the bedrock surface. Groundwater generally flows to the north/northwest, with the localized flow direction dictated by fractures in the bedrock. Permeability of the bedrock averages approximately 3.3×10^{-2} centimeters/second (cm/sec) through segments that are highly fractured, and 2.7×10^{-5} cm/sec where fractures were not as prevalent. Based upon 40 CFR Part 300, the aquifer is assigned a permeability of 10^{-4} cm/sec, which is reasonable given the actual permeabilities encountered at the site. Regional surface features are indicative of karst terrain, however, there are no indications that karst exists within four miles of the site. Downhole caliper measurements at wells located around the site do not indicate large subsurface openings, and surface features indicating karst have not been encountered within four miles of the site. The Onondaga Limestone is known to be between 10 and 18 feet below the surface at the site, and is approximately 100 feet thick in the vicinity of the site. The tri-layered overburden at the site consists of glacial deposits ranging from clay to boulder size materials. The surface layer is predominantly sand with some

clay, silt, and gravel. The permeability of this layer is 10^{-4} cm/sec, and ranges between 2 and 8 feet in thickness. Next, a 6 to 14 foot thick layer of clayey silt with pebbles underlies the sand layer, and in some areas extends down to bedrock. The permeability of this layer is 10^{-6} cm/sec. The final layer, which was not found at all locations, is a grey, clayey, sandy, gravel ranging up to one foot in thickness. The permeability of this layer is 10^{-2} cm/sec.

Ref. Nos. 28, pp. 10-12; 29, pp. 20-26; 34, pp. 3, 10-15; 36; 42

3. Is a designated well head protection area within 4 miles of the site?

There are designated well head protection areas within 4 miles north and southeast of the site.

Ref. No. 41

4. What is the depth from the lowest point of waste disposal/storage to the highest seasonal level of the saturated zone of the aquifer of concern?

According to soil boring analytical results, TCE and 1,1,1-TCA contamination has been detected up to 11 feet below ground surface (boring B-2). In the same area, bedrock was encountered approximately 13 feet below ground surface. Groundwater is located approximately 10 feet below the top of bedrock in that same location. Therefore, the difference is 11 feet below ground surface to 23 feet below ground surface, or a depth of 12 feet. However, for an observed release to groundwater, this depth is assumed to be 0.

Ref. Nos. 29, pp. 60-73; 30, pp. 42-45; 31, p. 18

5. What is the permeability value of the least permeable continuous intervening stratum between the ground surface and the aquifer of concern?

The least permeable continuous intervening stratum between the ground surface and the aquifer of concern is the middle layer of the glacial till (clayey silt with pebbles). Its permeability is estimated to be 10^{-6} cm/sec

Ref. Nos. 28, pp. 10-12; 29, pp. 20-26; 42

6. What is the distance to and depth of the nearest well that is currently used for drinking purposes?

The nearest potable well that is currently used for drinking purposes is a private well located across Honeoye Creek, north of the site, along Ontario Street. The well is approximately 950 feet northeast of the site, and is estimated to be approximately 100 feet deep. Four to five wells across Honeoye Creek have been sampled previously, and do not have contaminants above background conditions. Groundwater level and stream level measurements indicate that stream elevations are higher than groundwater elevations at the site, therefore indicating that the stream is losing water to the formation, and groundwater is not likely to be flowing toward the stream in this location.

Ref. Nos. 2, p. 49; 3, p. 2; 17; 29, p. 24; 31, pp. 21, 78-82; 33, p. 5

7. If a release to groundwater is observed or suspected, determine the number of people that obtain drinking water from wells that are documented or suspected to be located within the contamination boundary of the release.

There are 22 potable supply wells that are documented to be located within the contamination boundary of the release. An additional 10 wells are considered to be at risk. All wells in the contamination boundary of the release have been closed by the USEPA, and are replaced with public municipal water supply lines. Many of the houses outside of the contamination boundary are supplied by public water, and those houses utilizing wells for their potable water supply did not have contamination above quantifiable detection limits.

Ref. Nos. 3, p. 1; 4, p. 1; 6, pp. 1-26; 31, pp. 15-16

8. Identify the population served by wells located within 4 miles of the site that draw from the aquifer of concern.

<u>Distance</u>	<u>Population</u>
0 - ¼ mi	11
> ¼ - ½ mi	8
> ½ - 1 mi	109
> 1 - 2 mi	253
> 2 - 3 mi	701
> 3 - 4 mi	775

Ref. Nos. 15; 16; 17; 18; 19; 21; 23; 38

State whether groundwater is blended with surface water or with groundwater from other wells. Also provide an explanation on how each ring population was determined.

Groundwater is not blended with surface water supplies, nor are there potable well systems consisting of several groundwater wells. Each ring population was determined by counting the number of houses in the ring that utilize private well water, then multiplying by the number of people per household for each county. Several areas within 4 miles of the site utilize public water. All municipal water systems within 4 miles of the site utilize surface water, however, all surface water intakes are greater than 15 miles downstream from the site. These include Honeoye Falls, the Village of Lima, the Village of West Bloomfield, and most of North Bloomfield, north of the Enarc-O facility. Houses within these public water supply areas were not included in the house count. Three counties are located within four miles of the site, therefore, three separate numbers for people per household were utilized. The population in each ring is provided above.

Ref. No. 15; 16; 17; 18; 19; 21; 23; 38

9. Identify uses of groundwater within 4 miles of the site (i.e. private drinking source, municipal source, commercial, irrigation, unusable).

Groundwater is used for private drinking water.

Ref. Nos. 2, p. 4

SURFACE WATER ROUTE

- 10. Describe the likelihood of a release of contaminant(s) to surface water as follows: observed release, suspected release, or none. Identify contaminants detected or suspected and provide a rationale for attributing them to the site. For observed release, define the supporting analytical evidence.**

A release of contaminants to surface water is suspected. The Enarc-O facility operates a treatment system that discharges into Honeoye Creek under a New York State Pollution Discharge Elimination System (SPDES) permit. Occasionally, the facility has violated their permit discharge limits for copper, lead, and zinc. Volatile organics which may be discharged to Honeoye Creek would volatilize over the many rapids and small water falls located downstream. It is not likely that groundwater is having an impact on the stream since the stream is losing water to the aquifer.

Ref. Nos. 23; 25; 28, p. 22; 29, p. 24; 31, p. 22, 78-82, 91; 47

- 11. Identify the nearest downslope surface water. If possible, include a description of possible surface drainage patterns from the site.**

The nearest downslope surface water is Honeoye Creek, which is located northeast of the site. The majority of site drainage flows east to northeast, based upon topographic contours. Drainage flowing north would likely turn east at Martin Road and discharge into Honeoye Creek where Martin Road crosses the creek. Honeoye Creek then flows at approximately 216 cubic feet per second for 15 miles, to the target distance limit.

Ref. Nos. 22; 23

- 12. What is the distance to the nearest downslope surface water? Measure the distance along a course that runoff can be expected to follow.**

The creek is approximately 400 feet (.08 miles) northeast of the site.

Ref. Nos. 22; 23; 31, p. 22

- 13. Determine the type of floodplain that the site is located within.**

The site is located outside the 500-year flood plain.

Ref. No. 44

- 14. Identify drinking water intakes in surface waters within 15 miles downstream of the site. For each intake identify: the distance from the point of surface water entry, population served, and stream flow at the intake location.**

<u>Intake</u>	<u>Distance</u>	<u>Population Served</u>	<u>Flow (cfs)</u>
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There are no intakes located along the surface water pathway characterized for the site.

Ref. Nos. 19; 20

15. Identify fisheries that exist within 15 miles downstream of the point of surface water entry. For each fishery specify the following information:

<u>Fishery Name</u>	<u>Water Body Type</u>	<u>Flow (cfs)</u>	<u>Saline/Fresh/Brackish</u>
Honeoye Creek	Stream	143 - 216	Fresh

Ref. Nos. 24, pp. 1-4; 29, p. 36; 31, p. 91; 36

16. Identify sensitive environments that exist within 15 miles of the point of surface water entry. For each sensitive environment specify the following:

<u>Sensitive Environment</u>	<u>Water Body Type</u>	<u>Flow (cfs)</u>	<u>Wetland Frontage (miles)</u>
Wetland Frontage	Palustrine Wetland	143 to 216	2.3
Classified Stream	Class B	143 to 216	N/A

Ref. No. 22; 31, p. 9

17. If a release to surface water is observed or suspected, identify any intakes, fisheries, and sensitive environments from question Nos. 14-16 that are or may be located within the contamination boundary of the release.

Intake: None

Fishery: Honeoye Creek

Sensitive Environment: 2.3 miles of Palustrine Wetlands

Ref. Nos. 19; 20; 22; 31, p. 91; 36

SOIL EXPOSURE PATHWAY

18. Determine the number of people that occupy residences or attend school or day care on or within 200 feet of the site property.

There are eight residences within 200 feet of the property. A total population of 26 residents reside within 200 feet of the site boundary.

Ref. No. 2, p. 71; 31, p. 21-22

19. Determine the number of people that work on or within 200 feet of the site property.

There are approximately 65 workers located at the Enarc-O facility.

Ref. No. 2, p. 72

20. Identify terrestrial sensitive environments on or within 200 feet of the site property.

There are no terrestrial sensitive environments on or within 200 feet of the site property.

Ref. Nos. 31, p. 9; 37, p. 1-6

AIR ROUTE

21. Describe the likelihood of release of contaminants to air as follows: observed release, suspected release, or none. Identify contaminants detected or suspected and provide a rationale for attributing them to the site. For observed release define the supporting analytical evidence.

A release of air-borne contaminants from the site is not expected. Volatile organic contamination at the site is located in the groundwater, and is not expected to be leaving the site through the air pathway.

Ref. No. 31, pp. 15-18

22. Determine populations that reside within 4 miles of the site.

<u>Distance</u>	<u>Population</u>
0 - 1/4 mi	21
>1/4 - 1/2 mi	78
>1/2 - 1 mi	490
>1 - 2 mi	2,237
>2 - 3 mi	3,284
>3 - 4 mi	3,032

Ref. No. 35

23. Identify sensitive environments and wetlands acreage within 4 miles of site.

<u>Distance</u>	<u>Wetlands Acreage</u>	<u>Sensitive Environment</u>
0 - 1/4 mi	0	None Identified
>1/4 - 1/2 mi	3	None Identified
>1/2 - 1 mi	4	None Identified
>1 - 2 mi	31	None Identified
>2 - 3 mi	115	None Identified
>3 - 4 mi	> 500	None Identified

Ref. Nos. 22; 40

24. If a release to air is observed or suspected, determine the number of people that reside or are suspected to reside within the area of air contamination from the release.

A release of contaminants from the site to air is not suspected.

Ref. No. 31, pp. 15-18

25. If a release to air is observed or suspected, identify any sensitive environments, listed in question No. 23, that are or may be located within the area of air contamination from the release.

A release of contaminants from the site to air is not suspected.

Ref. No. 31, pp. 15-18

**This Report was conducted
under the following
USEPA Documentation Procedure**

**Guidance for Performing Preliminary
Assessments Under CERCLA
Publication 9345.0-01A**

ATTACHMENT 1

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23. Four-Mile Vicinity Map for the North Bloomfield site based on U. S. Geological Survey Topographic Maps, 7.5 minute series, Quadrangles of "Honeoye Falls, NY", 1971, Photoinspected 1976; "Rush, NY", 1971; and "Victor, NY", 1978.
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REFERENCE NO. 1

RUN DATE: 04/04/94 08:00:50
 CERCLIS DATA BASE DATE: 04/01/94
 CERCLIS DATA BASE TIME: 16:17:44
 VERSION 3.00

** PROD VERSION **
 U.S. EPA SUPERFUND PROGRAM
 ** CERCLIS **
 LIST-8: SITE/EVENT LISTING

PAGE: 449
 CERHELP DATA BASE DATE: N/A
 CERHELP DATA BASE TIME: N/A

SELECTION:
 SEQUENCE: REGION, STATE, SITE NAME

EVENTS: ALL

EPA ID NO.	SITE NAME STREET CITY COUNTY CODE AND NAME	STATE ZIP CONG. DIST.	UPRBL UNIT	EVENT TYPE	EVENT QUAL	ACTUAL START DATE	ACTUAL COMPL DATE	CURRENT EVENI LEAD
NY6170022166	NNCRC-FLOYD BENNETT FLUSHING & WASHINGTON BROOKLYN 047 KINGS	NY 11251	00	OS1 PA1 PA2	NFA NFA		01/01/73 10/01/80 06/25/90	EPA (FUND) FED. FAC. FED. FAC.
NY0932272720	NOAH'S PATH NOAH'S PATH & HALLOCK LANDING ROCKY POINT 103 SUFFOLK	NY 11778	00	RVI		12/11/87	08/10/89	EPA (FUND)
NY0968832728	NORMAN ROGERS CALIFORNIA ROAD (AKA CHURCH ST DELVAN 009 CATTARAUGUS	NY 14042	00	OS1 PA1		06/07/89	06/05/89 06/08/89	STATE(FUND) STATE(FUND)
NY0932181414	NORTH BLOOMFIELD MARTIN RD BRAGG ST IDESON RD LIMA 051 LIVINGSTON	NY 14485	00	IR1 RV2 OS1 PA1 CU1		12/02/85 11/26/90 03/20/87 05/04/87 05/11/89	06/03/86 02/26/91 03/20/87 05/11/87	EPA (FUND) RESP. PARTY EPA (FUND) EPA (FUND) RESP. PARTY
NY0932140116	NORTH COLLINS LF KETCHUM ROAD, NEAR STEARNS RD NORTH COLLINS 029 ERIE	NY 14111	00	OS1 PA1 SII			04/01/80 09/30/80 09/21/87 09/22/87	EPA (FUND) STATE(FUND) EPA (FUND)
NY0932268823	NORTH LUMKIE AVENUE SITE 251 NORTH COMRIE AVENUE JOHNSTOWN 035 FULTON	NY 12095	00	OS1 PA1		05/20/87	05/20/87 06/08/87	STATE(FUND) STATE(FUND)
NY0931580907	NORTH LAWRENCE OIL DUMP MCAUSLEN AND CEMETARY ROADS LAWRENCE 069 ST LAWRENCE	NY 12925	00	OS1 PA1 SII		09/19/86	09/19/86 09/29/86 10/01/86	STATE(FUND) STATE(FUND) STATE(FUND)

REFERENCE NO. 2



U.S. Environmental Protection Agency Region II
Emergency and Remedial Response Division
Response and Prevention Branch

**On-Scene Coordinator's Report
North Bloomfield Groundwater Contamination Site
Lima Township, Livingston / Monroe County, New York**

OSC: Edward J. Makarewicz



Roy F. Weston

MAJOR PROGRAMS DIVISION

In Association with Foster Wheeler Corp., C.C. Johnson
& Malhotra, P.C., Resource Applications, Inc. and
R. E. Sarriera Associates

TAT-02-F-06383

ON-SCENE COORDINATOR'S REPORT
NORTH BLOOMFIELD GROUNDWATER CONTAMINATION SITE
LIMA TOWNSHIP, LIVINGSTON/MONROE COUNTY, NEW YORK

SITE IDENTIFICATION NUMBER: L9
DATE OF ISSUANCE:

Prepared by:

Edward J. Makarewicz
Removal Action Branch
Emergency and Remedial Response Division
U.S. Environmental Protection Agency, Region II
Edison, New Jersey 08837

and

Technical Assistance Team
Roy F. Weston, Inc.
Edison, New Jersey 08837

Released By:

Edward J. Makarewicz
Edward J. Makarewicz, OSC
Response and Prevention Branch
U.S. EPA

Date: *23 Sept. 1991*

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ON SCENE COORDINATOR'S REPORT
NORTH BLOOMFIELD GROUNDWATER CONTAMINATION SITE
LIMA TOWNSHIP
LIVINGSTON/MONROE COUNTY, NEW YORK

LOCATION

The site is located in North Bloomfield, Township of Lima, Livingston/Monroe County, New York. The area of confirmed groundwater contamination includes portions of Martin Road, Ideson Road, and Bragg Street. In general the area is suburban and residential, except for one commercial establishment on Bragg Street.

GEOLOGY

The North Bloomfield site is located within the Paleozoic Era, Middle Devonian Period and lies in the stratigraphic part of the column known as the Onondaga Group of limestones. The groups underlying the formation are as follows:

Salina Group (consists of shales, dolostones, gypsum and salt)

Lockport Group (consists of dolostones)

Clinton Group (consists of shales and limestones)

Medina and Queenston Group (consists of sandstone and shale, siltstone and sandstone).

INITIAL SITUATION

In the fall of 1985, the New York State Department of Environmental Conservation (NYSDEC) formally requested immediate United States Environmental Protection Agency (USEPA) assistance to mitigate the impact of chemically contaminated groundwater and protect impacted residents of North Bloomfield, New York (Figures #1, #2 and #3). The request outlined a serious, well-documented incident of contamination of 34 drinking water wells. The affected residents relied on the wells as their sole source of potable water and, as a result, groundwater contamination posed a significant and immediate threat to human health.

Cause of Discharge:

Sampling and analyses performed by New York State Department of Health (NYSDOH) and the Livingston County Department of Health (LCDOH) identified an incident of contaminated groundwater. Inquiry conducted by the USEPA officially recognized two potentially responsible parties: Enarc-O-Machine Products, Inc., and its parent company, Kaddis Manufacturing Corporation. The Enarc-O-Machine Products, Inc., is a manufacturer of screw machine products, drain and shut-off valves. The highest total

concentrations of contaminants have been found in the well at Enarc-O's facility.

Efforts to Obtain Response by Responsible Parties:

After investigating the case, the USEPA sent notice letters to Enarc-O, Kaddis Mfg. Corporation, and the president of both companies, Ronald Iannuci, requesting they take actions to protect public health. In response to these letters, the potentially responsible parties denied responsibility for the groundwater contamination in the area and also declined to initiate any actions.

THREAT OF EXPOSURE

The major threat at this site was the exposure of residents to volatile organic compounds (VOCs) including trichloroethylene, 1,1,-trichloroethane, trans 1,2-dichloroethene, 1,1,2-trichloroethane, 1,2-dichloroethane and tetrachloroethylene present in the groundwater. Individual private wells tapping this aquifer provided the potable water supply to the residents. In addition to the potential for exposure through drinking or eating food prepared with water, tests conducted at Pomona Oaks, New Jersey, demonstrated that when VOC contaminated water is used for hot showering, the volatilization of the organics is elevated and thus poses an additional hazard by direct contact through skin absorption and inhalation.

From March to November 1985, NYSDOH and LCDOH sampled 38 private residential drinking water wells and one drinking water well utilized by a local industry. VOCs were detected in 22 wells. Four residences were found to have VOC contamination to levels exceeding NYSDOH guidelines for potable water which limit the concentrations total organic compounds to less than 100 ppb and the concentration of single organic compound to less than 50 ppb. Table #1 presents concentrations of the major VOCs exceeding or approaching NYSDOH guidelines, which were found in the residential wells. Figure #4 shows the locations of the sampled residential wells. Figure #5 and Figure #6 summarize the levels of contamination reported for each well based upon the LCDOH sampling data. The NYSDOH and LCDOH advised residents of the affected homes, located within the plume area, not to drink their well water.

REQUEST FOR ACTION

In August 1985, the NYSDEC requested that Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) funding be used to protect the health of residents located within the affected area. Appropriate state, county and local agencies met with EPA's On-Scene Coordinator (OSC), to accumulate data supporting EPA's removal action and to determine the required

scope of work. In addition it was determined at this meeting that the expeditious solution for the drinking water contamination problem would be to extend the City of Rochester's existing water supply system to all affected and potentially affected residences in North Bloomfield.

Organization of the Response:

The course of action proposed in response to the situation consisted of providing an alternate potable water supply to the affected homes. The short-term solution was to provide bottled water to the affected residences. The long-term solution was to extend the existing main down Martin Road, Ideson Road and Bragg Street, thus providing potable water to the residences. Consideration was given to installing activated carbon treatment units, however, the installation of a water main was determined to be the most cost-effective viable alternative. At the request of the OSC, the Rochester Water Works (RWW) was able to provide a schedule for timely installation of the water main.

REMOVAL ACTION RESPONSE

Resources Committed:

On December 19, 1986, the Mayor of Rochester, New York signed a letter contract with the USEPA in the amount of \$354,878, for the purpose of installing a water main to approximately 33 residences and one commercial facility. The work was to be performed by the City of Rochester Water Works.

The USEPA Region II OSC performed the contract coordination and scheduling activities which include that of RWW, their subcontractors and the Technical Assistance Team (TAT). When needed, he made contract specification recommendations and defined the scope of work. TAT inspected the general contractor and subcontractor work in progress and upon completion to see if it conformed to the project's plans, specifications and EPA guidelines.

On July 8, 1987, the OSC initiated a Removal Action coordinated with the City of Rochester Water Works to achieve a timely installation of the water main, taps, meters, service connections and provide potable drinking water to the affected residences.

Water Main Contract:

The installation of the eight-inch diameter water main by RWW was started on July 13, 1987. The sequence of general construction operations for the water main included the following:

- a) A stake-out of all underground utilities was performed prior to commencement of any excavation.

- b) Excavation of pavement and/or subgrade as necessary while the contractor maintained line and grade for placement of the water main pipe and its associated curb shut-off valves.
- c) Dewatered the water main trench excavation as needed.
- d) Recompactd the disturbed subgrade prior to placing any water main pipe.
- e) Placed the eight-inch diameter ductile iron water main pipe, tapped into the main, set the saddles, tied in the curb stop valves and set the riser access cover several inches above the existing ground surface elevation. Finally, the water main was pressure tested, chlorinated and approved. The service connections from the curb shut-off valve to the residence were completed by R. P. Myers, Inc., a subcontractor to RWW.
- f) Backfilled the trench in approximately six inches lifts with sand and gravel and compacted each lift until reaching the desired elevation.
- g) Subsurface earthwork below paved areas was done as above until reaching the desired subgrade elevation for base coarse paving.
- h) Placed cold patch in paved areas for temporary road restoration to get through the winter months until spring.
- i) Returned in the Spring for all earthwork restoration to all needed areas.
- j) Final road-shoulder restoration and paving as needed over the entire work area as delineated in the contract.

For approximately 1,000 feet along Ideson Road, eight mm polycase tubing encasement was placed around the eight-inch ductile iron pipe to protect it from potential chemical corrosion by existing soil conditions.

Two water meter vaults (See Photographs 1 to 8) with a by-pass system were installed by RWW near, 1) City of Rochester's existing water main on Martin Road and near 2) Monroe County Water Authority's existing main on Ontario Street.

The contractor's construction activities during the installation of the ductile iron pipe were monitored and inspected by the OSC with TAT support.

Prior to rock cutting operations along Ideson Road, the water main installed previously along Martin Road, Bragg Street and Ideson

Road was flushed tested at 150 psi, pressure. RWW personnel repaired all leaks by Friday, October 9, 1987. (Photograph #18 to #20 and Photograph #23 to #25).

The installed water main was chlorinated on October 9, 1987. Liquid chlorine was pumped to achieve allowable residual chlorine, the amount of which was determined based upon pipe size and length. The chlorine remained in the water main for approximately 48 hours. Samples were then collected to verify the effectiveness of chlorination.

Simultaneous to the rock cutting operations which began along the remaining portion of Ideson Road on December 1, 1987, the water main was installed and continued as bedrock was excavated and removed. The water main installation was completed by January 19, 1988. (Photograph # 21 and #22).

The water main installed along this portion of Ideson Road was flushed, pressure tested and chlorinated on January 19, 1988. Samples were collected for bacteriological analysis from the sampling points along Ideson Road on January 21, 1988 to verify the effectiveness of chlorination.

Tapping into Water Main and Installing Fire Hydrants:

The RWW crew installed the main, taps, saddles, curb boxes and meters between the water main and the property line. Service connection copper pipe of one-inch diameter was installed to each property by a subcontractor, except Enarc-O-Machine Products where two-inch diameter pipe was installed. To minimize the damage to the public road, a Hole-Hogging system utilizing hydraulic pressure was used to install the curb boxes. This hole-hogging system involved pushing a copper pipe, from one point to another under a public road at a depth of approximately 4.5 feet without any damage to the road (See Photographs #29 through #40). All curb box installations were monitored and inspected by the EPA, with TAT support.

Tapping into the water main for eventual service connections and installation of curb boxes between the water main and the property line was initiated on July 24, 1987, and continued simultaneously with the installation of the water main and was completed on February 3, 1988.

A total of nine fire hydrants were installed by RWW at no cost to EPA. All fire hydrants were flushed, pressure tested (150 psi), and inspected for leaks. The installation of fire hydrants began on July 31, 1987, and continued simultaneously with the installation of the water main and was completed by January 19, 1988.

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Residential Water Services within the Homeowner's Property:

A contractor to RWW, R.P. Myers, Inc., installed two-inch diameter copper service pipe from the curb box into the basement of Enarc-O-Machine Products. Using a backhoe, a trench of approximately two to three feet wide and four to five feet deep was excavated to facilitate the necessary connections at the curb box and inside the basement. A hole-hogging system was utilized to minimize the structural damage to the building, and to avoid unnecessary excavation when a greater distance between the curb box and the basement was encountered. The subgrade was compacted before placing the one inch diameter copper pipe in residences. The trench was then backfilled with sand and gravel and compacted. Then crushed stone placed and also compacted.

The subcontractor's construction activities during the installation of copper pipe for service connections within the property were monitored and inspected by the EPA with TAT support.

Interior Water Service Connections with Water Meter Installation:

R.P. Myers, Inc., a subcontractor to RWW, installed the service connections inside the basements. The original water service pipe from the well to the storage tank inside the basement was disconnected and then capped. The new connections were made tying new pipe to the existing piping system serving the house. A water meter was installed along the new service line as shown in Photographs # 37 to 40.

A TouchRead type meter reading system was installed on the outside wall of the houses. This system enables the meter reader to obtain data without entering the house. Using this equipment, the meter reader can "capture" readings by simply touching the tip of an electronic probe to a touch pad.

The installation of the interior water service connections with water meter and the TouchRead type meter reading system were completed on February 2, 1988. The installation activities were monitored and inspected by the EPA, and an RWW inspector, with TAT support.

Road and Driveway Restoration:

Roadway, driveway restoration and paving was conducted by the City of Rochester Division of Street Maintenance personnel. Approximately three inches of asphalt binder was applied upon the compacted crushed stone surface. On top of the binder, approximately one inch of asphalt top coat was applied. A tack coat was applied along the edge of the road. Broken edges of the road were graded and then repaved.

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All driveways were either repaved or restored with crushed stone depending upon their original conditions. The road and driveway restoration work began on October 21, 1987 and ended on October 30, 1987.

PROBLEMS ENCOUNTERED

During the removal action, various types of problems were encountered. The problems are detailed below:

- a) Homeowners were dissatisfied with the dust generated during the water main installation. The RWW contractor utilized a dust inhibitor which resolved this problem to the satisfaction of the homeowners.
- b) Poor traffic control was observed by EPA during installation of the water main. Even with proper vehicular access prevention measures, adopted by RWW, vehicles were able to access the construction area. The OSC in coordination with RWW enforced strict measures to limit entry of vehicles in construction area to provide public safety. When a significant amount of leakage was detected during pressure testing, some delay in installing the water main occurred.
- c) There were some delays in installing the water main due to the significant amount of leakage detected during pressure testing. Repairing these many leaks caused RWW to fall behind schedule.
- d) For numerous reasons, residents in areas located outside the affected area, also desired the extension of a water main. This situation was resolved by the EPA to the satisfaction of these homeowners.
- e) Residents in the affected area were anxious regarding the availability of potable water. These inquiries were also resolved by the EPA.
- f) RWW frequently changed the schedule for rock cutting operations and subcontracting work for hook up services because of the procedural work such as bidding preparation, advertising and awarding the subcontract. This problem created additional substantial cost for EPA.
- g) Bedrock was encountered along portions of Martin Road and Ideson Road. The RWW crew effectively removed the bedrock along Martin Road without any significant delay in the schedule. The crew was initially unsuccessful in removing bedrock encountered along Ideson Road. This problem caused considerable delay in the project and lead to the problem (f) discussed previously in this section.

It should be noted that the bedrock encountered along portions of Ideson Road was extremely hard dolomitic limestone which made RWW's general excavation methods ineffective. In November 1987, RWW and EPA decided to rent a Jaws II rock cutting machine, with a seven-foot diameter cutting disk fitted with four-inch long carbide steel tipped teeth. Jaws II was used on site for four days, but was also ineffective against the bedrock because of the chert nodules encountered in the limestone. On December 15, 1987, R.P. Myers, subcontractor to RWW, began successful bedrock was excavated using a very large, hydraulic, Allied 770, hoe ram. Within 14 working days, all bedrock was excavated and removed from the pits and trenches.

- h) RWW schedule for the timely installation of the water main was hindered by severe weather, encountering bedrock and their primary commitment to the people of the City of Rochester, New York during any and all water main related emergencies. These above circumstances added to the delays in the water main construction in North Bloomfield, New York.
- i) Delays were also experienced by the fact that RWW was primarily a service maintenance organization and not a pipe laying contractor engaged in a competitive business.
- j) During the installation of a curb box along Ideson Road, a gas line was ruptured. This gas line was not properly staked previously by the local gas company. The RWW crew immediately contacted the gas company which repaired the broken gas pipe with PLEXCO, a two-inch diameter plastic gas pipe. The EPA in coordination with the RWW crew helped minimize any explosion hazard by acting quickly in isolating the area under repair until the gas company emergency crew repaired the break.

EFFECTIVENESS OF REMOVAL ACTION

This installation of the water distribution system began on June 29, 1987 and final hook up services were completed to all 34 occupied structures by February 2, 1988. Delays were encountered due to difficult rock excavation problems and severe weather conditions from December 1987 to February 1988.

This removal action has mitigated the immediate threat to public health by eliminating the use of contaminated well water to all homes within the affected area. The probability of the ground water remaining contaminated eliminates the possibility of well use in the future. Also, the direction and extent of the contaminated plume is related, in part, to the quantity of contaminants released, the geology of the area and other variable factors.

Consideration and analysis were given to the technical and economic factors involved in overcoming the situation. An underground water distribution system installed by the City of Rochester was determined to be the most feasible long-term solution. Such a system should have a life span of at least 100 years. The use of ductile iron pipe and brass fittings may extend the life expectancy of this water distribution system to 150 years. In summation, the public health threat was effectively eliminated and safe drinking water supplied on a permanent reliable basis.

RECOMMENDATIONS

The continued presence of EPA in the affected area allowed the OSC to build a high level of credibility within the community, address all problems promptly and define the EPA role and intent during the Removal Action. This kind of personal contact should continue for future Removal Actions. Better communications and cooperation between the general contractor and EPA should be developed to define the EPA role and avoid any delay in the decision-making process. However, the general contractor held the opinion that certain bidding and procedural guidelines had to be followed in order to rent specific rock cutting equipment and to hire a subcontractor for the installation of service lines to individual homes. Since section 104 (c) of CERCLA, at the time of this project, required a six-month time limit on all immediate Removal Actions, time delays due to procedural constraints by some contractors created problems. This could be resolved by proper planning by the contractor and by holding more frequent meetings between EPA and contractor management in order to expedite the subcontractor's schedule and the procurement of special purpose equipment.

CHRONOLOGY OF EVENTS

March 1985 through November 1985	NYSDOH and the LCDOH sampled drinking water wells in the risk area. Results indicted elevated levels of VOCs.
August 15, 1985	A request for a CERCLA removal at the North Bloomfield site was received by EPA Region II from the Division of Solid and Hazardous Waste Section of the NYSDEC.
November 11, 1985	The Director of the Emergency and Remedial Response Division authorized a removal action which proposed to provide bottled water.
December 2, 1985	EPA initiated bottled water delivery to residents in the contaminated area and area at risk.

June 2, 1986	EPA authorized a request for an exemption from the six month limit in CERCLA removal action.
June 11, 1986	EPA Regional Administrator authorized a CERCLA removal action which proposed to install a water main in the affected area.
June 4, 1987	An EPA contracting officer signed a letter contract with the City of Rochester Water Works (68-62-0029) for the installation of a water main in the risk area.
June 29, 1987	The installation of the water distribution system initiated with construction preparation for a water main at the site.
July 8, 1987	The OSC contacted RWW officials to achieve timely installation of the water main.
July 13, 1987	The RWW contractor initiated water main installation at the North Bloomfield site by tapping into the existing water main.
July 14, 1987	Tapping of existing water main was completed.
July 16, 1987	A pre-cast concrete water meter vault and by-pass system was completed and the Emergency Response Clean-up Services (ERCS) contractor provided a command post.
July 24, 1987	Service connection and curb boxes were initiated.
July 31, 1987	A RWW subcontractor conducted testing borings along Ideson Road, every 50 feet, and determined bedrock was located two to three feet below the surface (Photograph #17).
August 7, 1987	A RWW engineer located and measured the footage for laying service lines from the curb boxes to each house. Four fire hydrants were installed.

August 21, 1987	RWW installed a "T" mechanical joint at the intersection of Martin Road and Bragg Street.
August 28, 1987	RWW installed a 280-foot section of water main along Ideson Road, incorporating an eight mm polycase tubing which covered the pipe and provided additional protection from potential chemical corrosion by existing soil conditions.
September 8, 1987	Exploratory trenches along Martin Road exposed a 700-foot long, dolomitic limestone formation at a depth of five feet below the surface..
September 11, 1987	A hydraulic impact hammer, "HOE-RAM", with an impact energy of 2,000 ft-lbs failed to fracture the rock along Martin and Ideson Road.
September 18, 1987	Bids were submitted by subcontractors to RWW for hook up services to the 33 residences.
October 8, 1987	The RWW flushed, pressure tested, and repaired leaks in the newly installed water main along Martin Road and Bragg Street as outlined in the scope of work.
October 9, 1987	The RWW crew flushed and pressure tested the newly installed water main along Ideson Road. The water main along the rest of Ideson Road could not be installed at this time due to hard dolomitic limestone bedrock. All leaks in the water main were eliminated. The water main installed as of this date was chlorinated.
October 13, 1987	The water main was flushed again and the samples were collected for bacteriological analyses.
October 21, 1987	The City of Rochester Division of Street Maintenance personnel initiated restoration and paving of driveways and roadways.
October 29, 1987	The RWW's subcontractor R.P. Myers Inc., initiated installation of service connections and hook ups to residences.

November 6, 1987	City of Rochester Division of Street Maintenance work was partially completed. All further restoration work along Ideson Road was to be performed after the winter. EPA and RWW met to discuss the arrival of a rock cutting machine, intended for the excavation along the north end of Ideson Road. The rock cutting machine was expected on site during the week of November 16, 1987.
November 8, 1987 through November 14, 1987	Site work was temporarily discontinued while waiting for the rock cutting equipment to arrive from Pennsylvania.
November 18, 1987	The RWW subcontractor, R.P. Myers, resumed service connections to affected homes.
December 1, 1987	RWW's rock cutting machine, Jaws II, arrived on site.
December 7, 1987	Jaws II was ineffectual in cutting limestone bedrock. A tentative decision was reached to abandon use of Jaws II and to utilize R.P. Myers' larger hoe ram, an Allied 770, to excavate bedrock for the remaining eight-inch diameter water main to be installed along Ideson Road.
December 15, 1987	Bedrock excavation along Ideson Road with the Allied 770 hoe ram began. This larger machine was capable of excavating the tough dolomitic limestone.
December 16, 1987	R.P. Myers temporarily completed service connections. Only six homes along Ideson Road remained without water because bedrock still needed to be excavated for water main installation.
January 8, 1987	Bedrock excavation was completed. R.P. Myers demobilized its equipment.
January 10, 1987 through January 15, 1987	Extreme cold forced postponement of pressure testing of the water main installed along Ideson Road from December 1987 to January 1988.

January 16, 1988	An Action Memorandum to request additional funds to complete the removal action was submitted for approval.
January 19, 1988	The water main was completely installed along the remaining portion of Ideson Road, was flushed, pressure tested and chlorinated. Nine fire hydrants were also installed.
January 19, 1988	An Action Memorandum to request additional funds to complete this removal action was approved and signed by the Regional Administrator. This action memorandum increased the project ceiling from \$553,000 to \$842,100.
January 21, 1988	The City of Rochester Department of Environmental Services collected samples for bacteriological analyses.
February 1, 1988	The RWW contractor installed and pressure tested the water meter in the meter vault located on Ontario Street.
February 2, 1988	R.P. Myers, subcontractor to RWW, completed hook ups and necessary connections. All residents began to receive drinking water from the public water supply system.
February 1988	An extension to the RWW's contract was approved.

FINAL FINANCIAL REPORT

Awaiting Final Billing

A.	Total Project Ceiling Authorized	\$842,100
B.	Total Funds Authorized for all Mitigation Contracts	\$669,900
C.	Funds Authorized for Mitigation Contracts (City of Rochester Water Works) for Water Main Installation	\$606,278
D.	Estimated Total Expenditures for RWW Mitigation Contracts through 01/09/88	\$566,000
a.	RWW Contract Costs for Water Main Installation as of 11/14/86	\$401,000

b.	RWW's Subcontractor Cost to install service connections	\$165,000
E.	Balance remaining for RWW contract cost	\$ 40,278
F.	Funds authorized for bottled water delivery ERCS (O.H. Materials) DCN #KCS-305	\$ 54,788
G.	Estimated Total Expenditures for ERCS (O.H. Materials) Contract through 01/09/88	
a.	Estimated ERCS (O.H. Materials) expenditures for delivery of bottled water as of 01/09/88, DCN #KCS-305	\$ 54,750
b.	Balance remaining for ERCS (O.H. Materials) Contract Cost	\$ 38
H.	EPA Intramural Costs (Estimated)	
a.	Total Authorized	\$ 84,839
b.	Estimated Expenditures as of 01/09/88	\$ 81,000
c.	Estimated Balance	\$ 3,839
I.	EPA Extramural (TAT) Costs (Estimated)	
a.	Total Authorized	\$ 58,072
b.	Estimated Expenditures as of 01/09/88	\$ 58,000
c.	Estimated Balance	\$ 78
J.	Other Costs Authorized (Contingency)	
a.	Total Authorized	\$ 72,072
b.	Estimated Expenditures as of 01/09/88	\$ 72,072
c.	Estimated Balance	\$ 0
K.	Total Expenditures as of 01/09/88 and percent of \$2 million	\$759,750 (37.98%)
L.	Percentage of Total Project Ceiling	90.22%

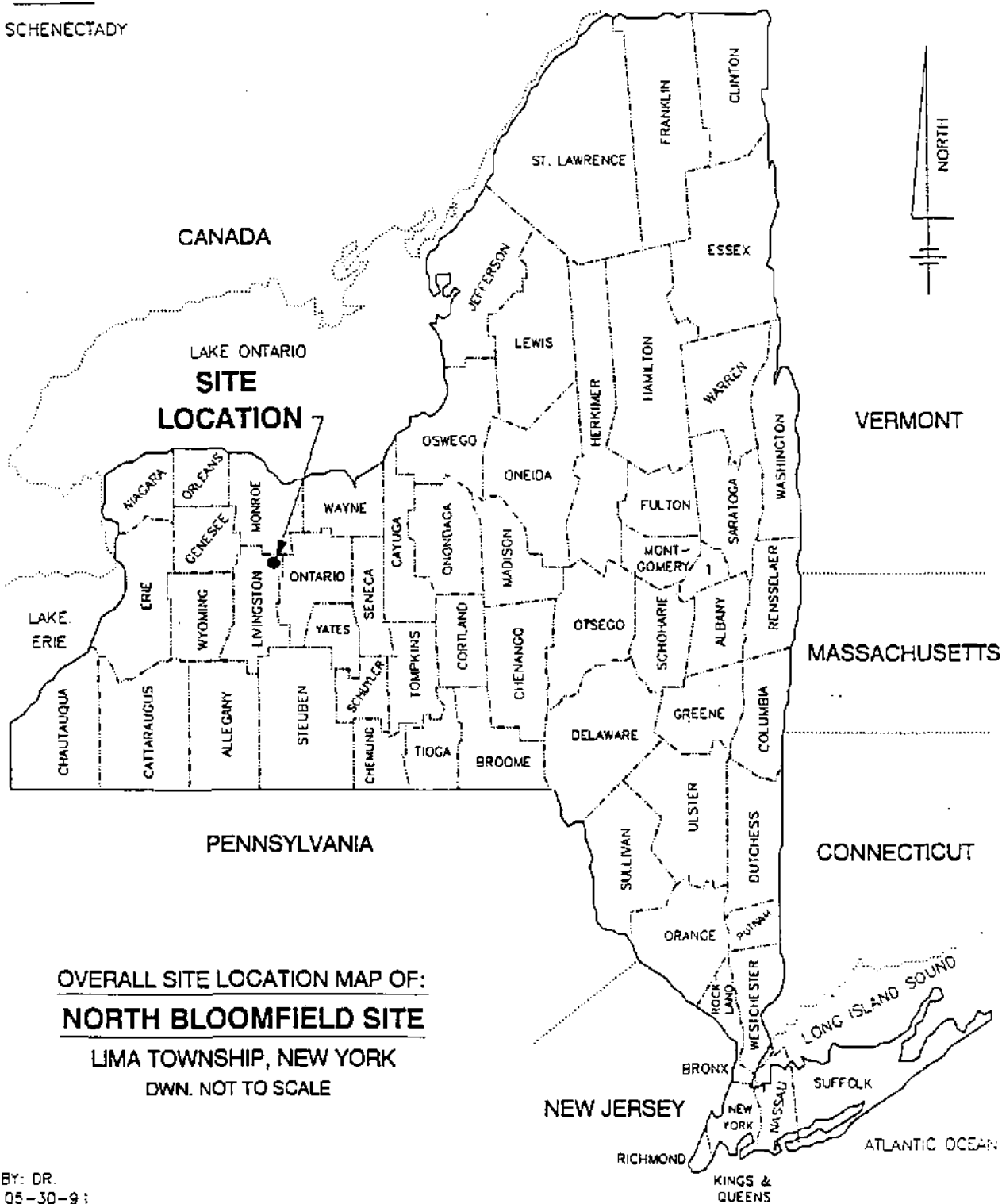
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SECTION 1

MAPS (FIGURES 1, 2, 3, 4, & 5)

INDEX:

1. SCHENECTADY



DWN. BY: DR.
DATE: 05-30-91
DWN. # 1318A



Roy F. Weston, Inc.
MAJOR PROGRAMS DIVISION

IN ASSOCIATION WITH FOSTER WHEELER CORP.,
C.C. JOHNSON & MALHOTRA, P.C., RESOURCE
APPLICATIONS, INC. AND R.E. SARRIERA ASSOCIATES

EPA PM

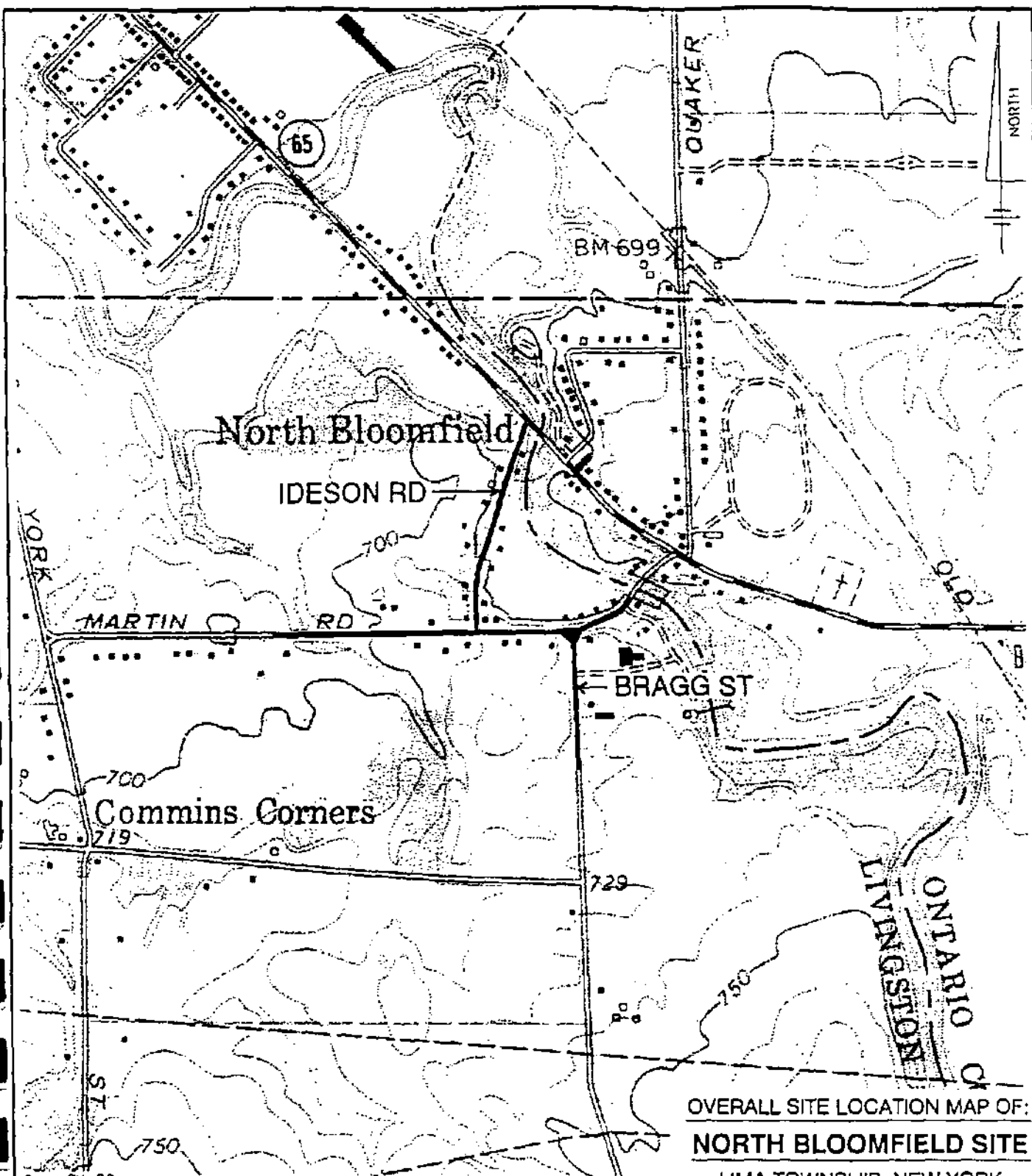
E. Makarewicz

TAT PM

Figure 1

Site Location

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DWN. BY: DR.
DATE: 05-20-91
DWN. # 13188



Roy F. Weston, Inc.
MAJOR PROGRAMS DIVISION

EPA PM

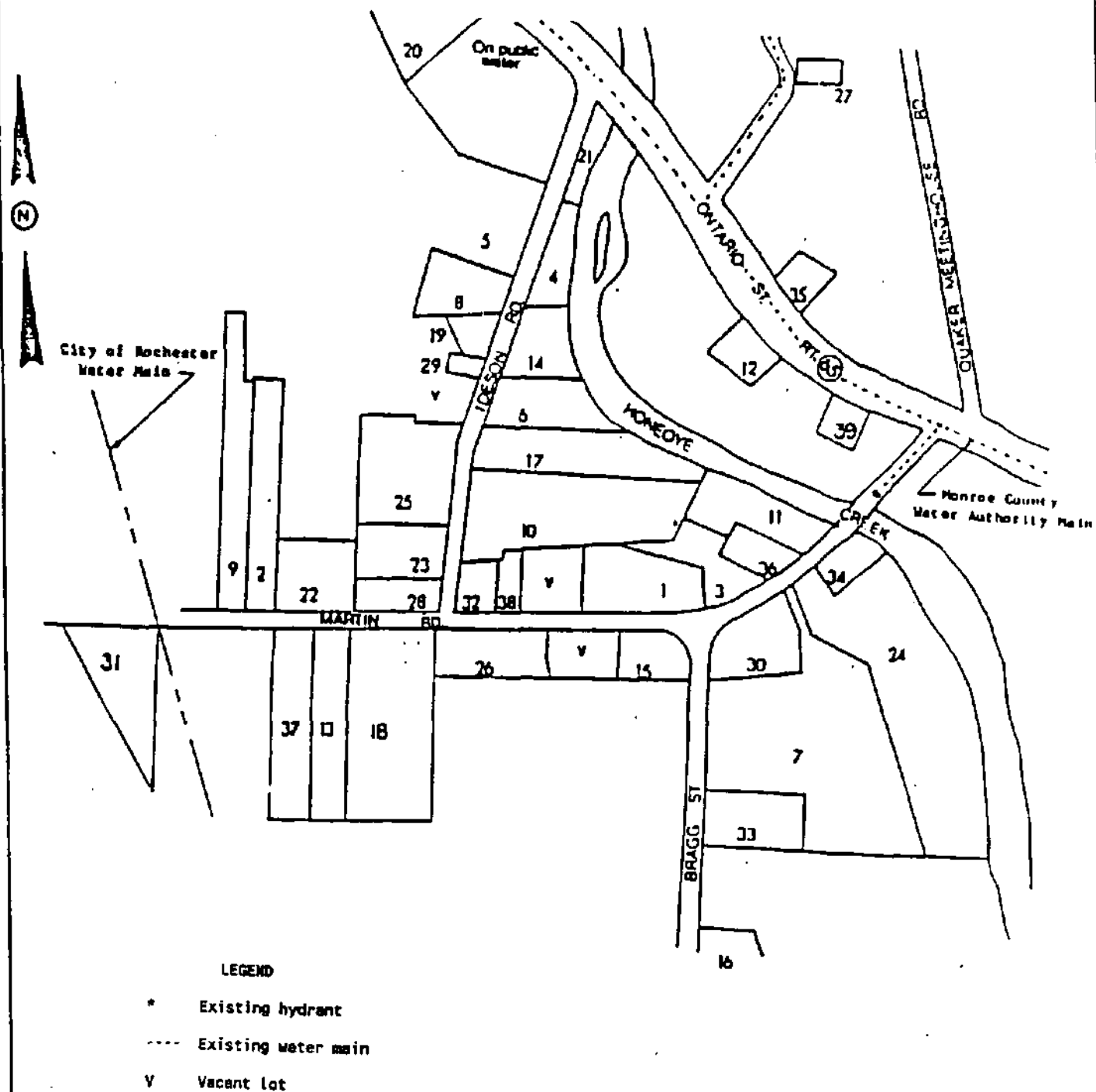
E. Makarewicz

Figure 2

IN ASSOCIATION WITH FOSTER WHEELER CORP.,
C.C. JOHNSON & MALHOTRA, P.C., RESOURCE
APPLICATIONS, INC. AND R.E. SARRIERA ASSOCIATES

TAT PM

Site Map



Not to Scale



Roy F. Weston, Inc.
MAJOR PROGRAMS DIVISION

EPA PM

E. Makarewicz

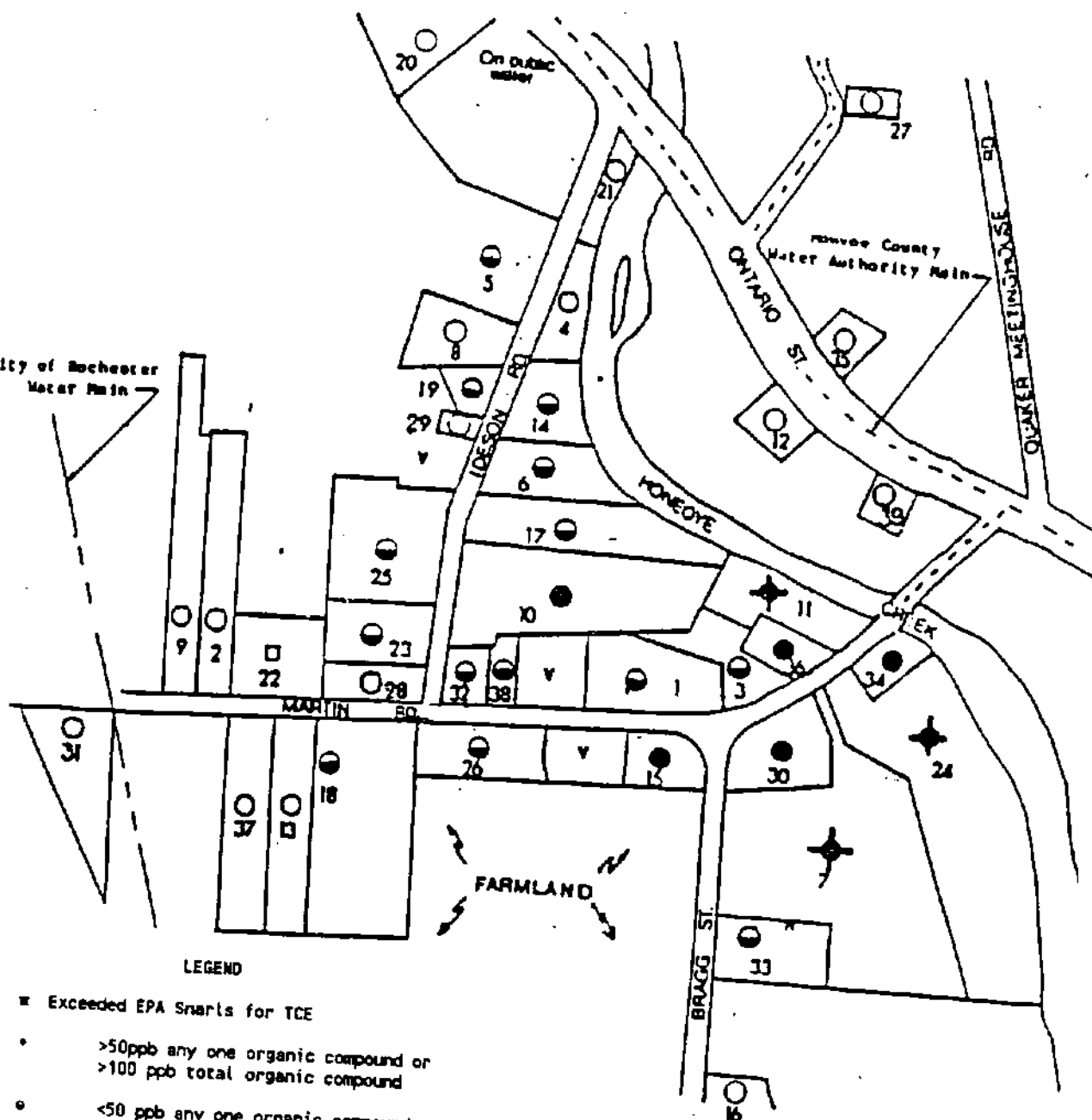
Figure 3

IN ASSOCIATION WITH FOSTER WHEELER CORP.,
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APPLICATIONS, INC. AND R.E. SARRIERA ASSOCIATES

TAT PM

Well Location
Map

City of Rochester
Water Main



LEGEND

- ✱ Exceeded EPA Standards for TCE
- >50ppb any one organic compound or >100 ppb total organic compound
- <50 ppb any one organic compound or <100 ppb total organic compound
- None detected
- Homes to be sampled by NYSDOH
- 2 See address key
- V Vacant lot
- Existing water main

Not to Scale



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EPA PM

E. Makarewicz

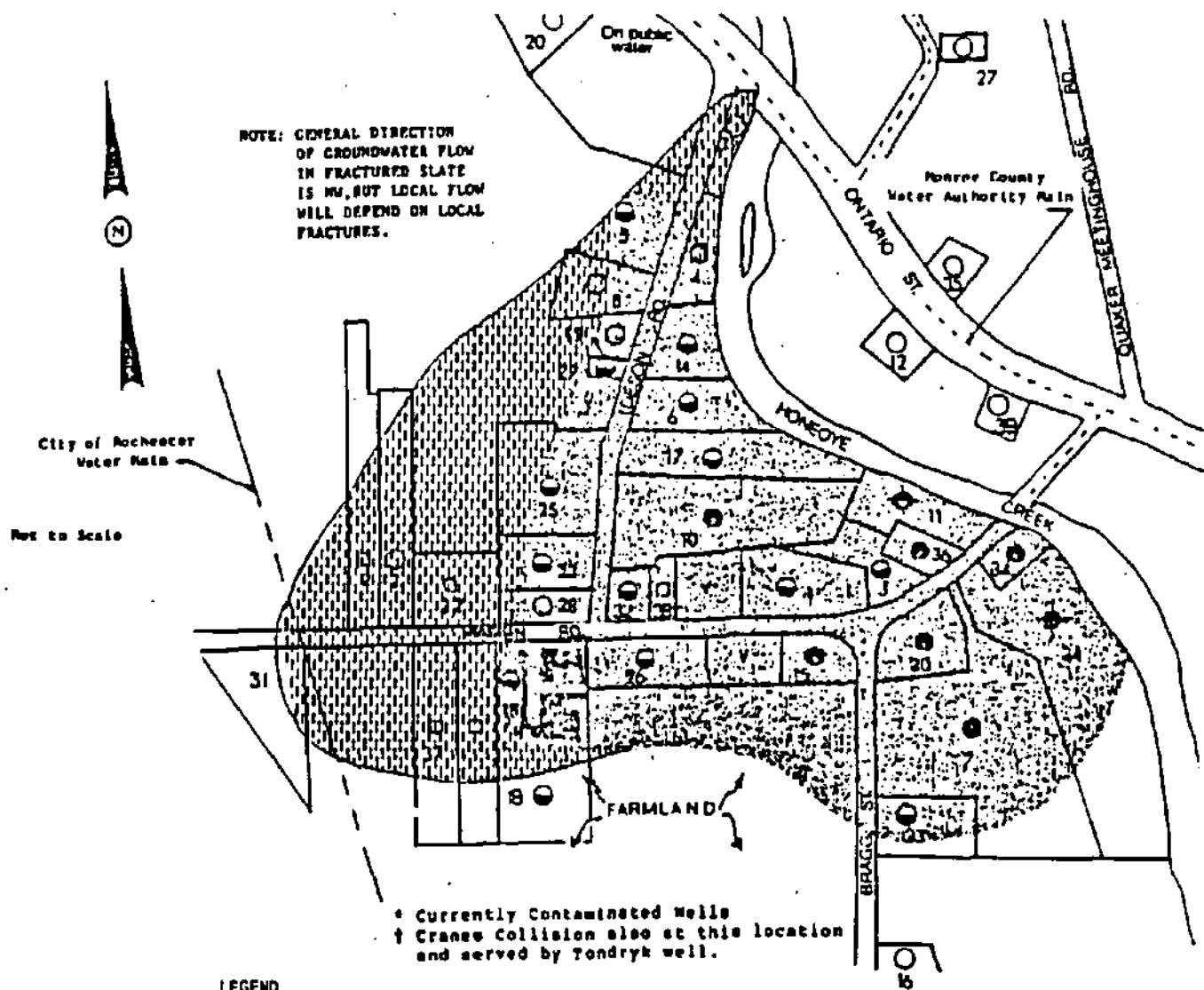
Figure 4

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TAT PM

Groundwater
Quality
Summary

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EPA PM

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Figure 5

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APPLICATIONS, INC. AND R.E. SARRIERA ASSOCIATES

TAT PM

Extent
of
Groundwater

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SECTION 2

TABLE 1

TABLE I

*SUMMARY OF RESIDENTIAL WELL DATA**
*EXCEEDING OR APPROACHING NYSDOH GUIDELINES***
NORTH BLOOMFIELD, TOWNSHIP OF LIMA, NEW YORK

Residential Well	Trichloro-ethylene	1,1,1-Trichloro-ethane	Trans 1,2-Dichloro-ethene	Total Concentration of VOCs
Enarco	1,800	370	—	2,170
Freedman	49	—	—	49
Garvey	318	—	89	412
Hopkins	80	—	—	89
Reano	260	—	—	46
Rogers	260	—	75	335
Smith	98	—	17	115
Vellekoop	110	—	—	159***
Years	72	—	—	72

* All concentrations reported in parts per billion

** Values used are maximum concentrations observed during March, June, July, and August 1985 sampling

*** Total concentrations include contaminants that have not been included on this table

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SECTION 3

PHOTOGRAPHS

PART I

METER VAULT INSTALLATION



Photo 1 - North Bloomfield, N.Y. 7/14/87. The Rochester Water Works (RWW) crew tapping into the existing water main.



Photo 2 - North Bloomfield, N.Y. 7/16/87. Preparation of the subgrade for meter vault installation.

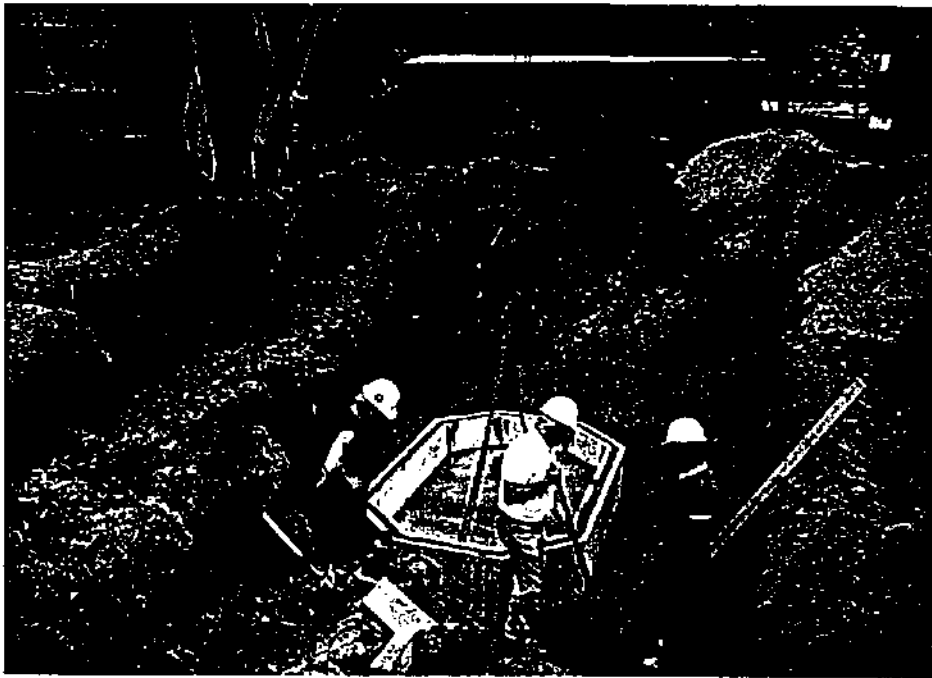


Photo 3- North Bloomfield, N.Y. 7/16/87. A concrete block (base) is being placed in the meter pit at Martin Road.

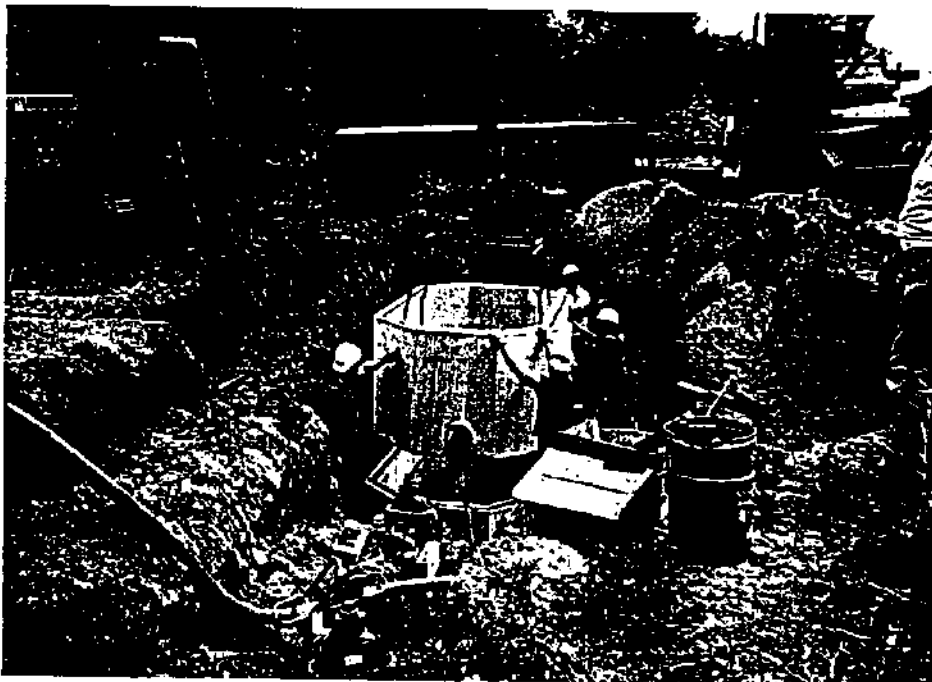


Photo 4 - North Bloomfield, N.Y. 7/16/87. The middle section of the meter vault is being placed.

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Photo 5 - North Bloomfield, N.Y. 7/16/87. A concrete meter vault in place at Martin Road.



Photo 6 - North Bloomfield, N.Y. 1/12/88. By-pass connection is being made at the meter vault on Ontario Street.



Photo 7 - North Bloomfield, N.Y. 1/12/88. Concrete thrust blocks are being placed at the by-pass connection system.

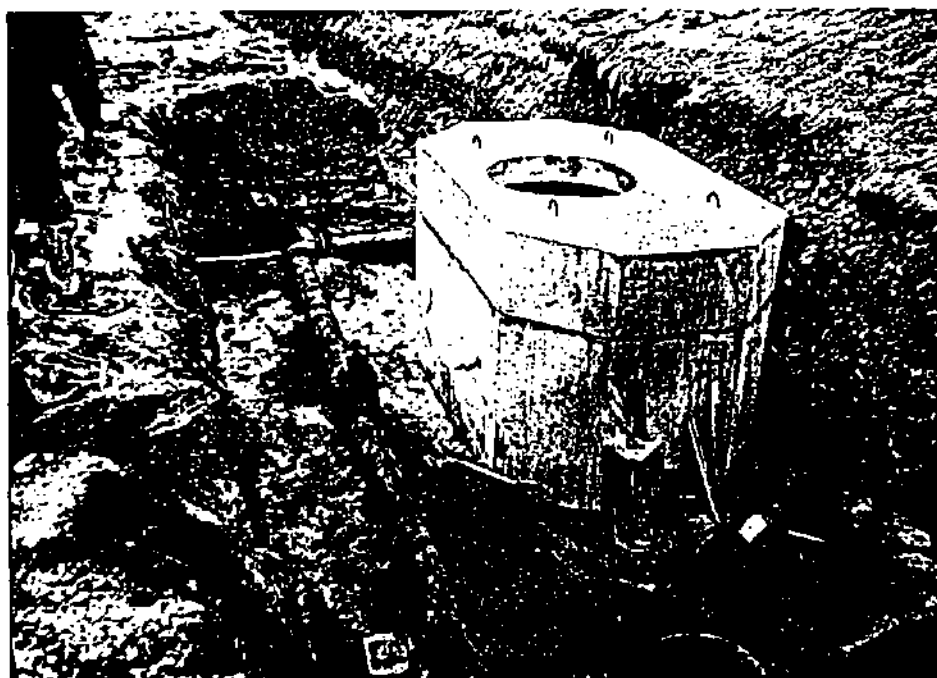


Photo 8 - North Bloomfield, N.Y. 1/12/88. A water meter vault and a by-pass system on Ontario Street.

PART II

WATER MAIN INSTALLATION

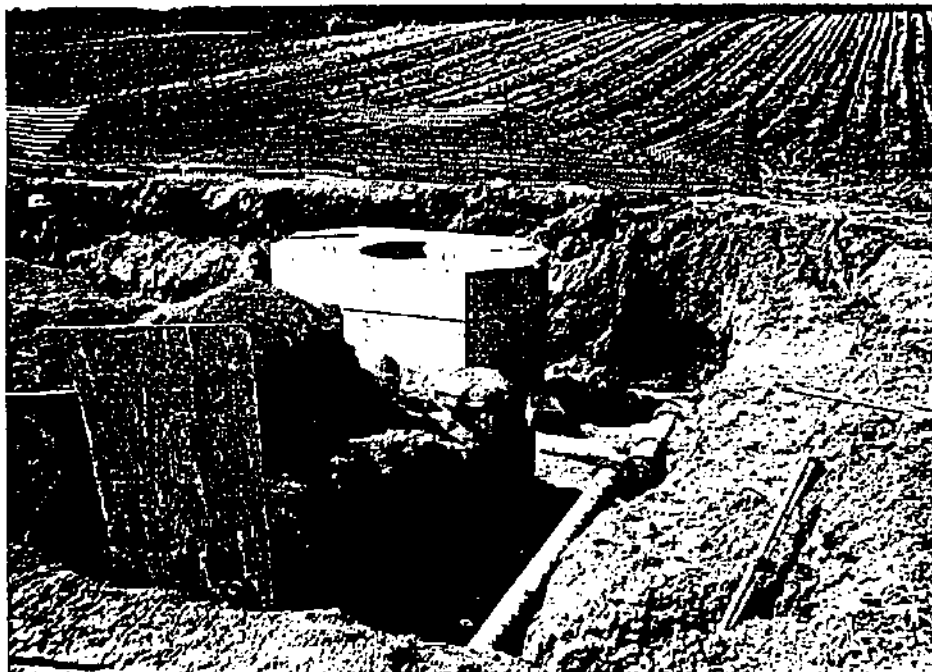


Photo 9 - North Bloomfield, N.Y. 7/16/87. A water main connection to be the by-pass system, and a meter vault on Martin Road.

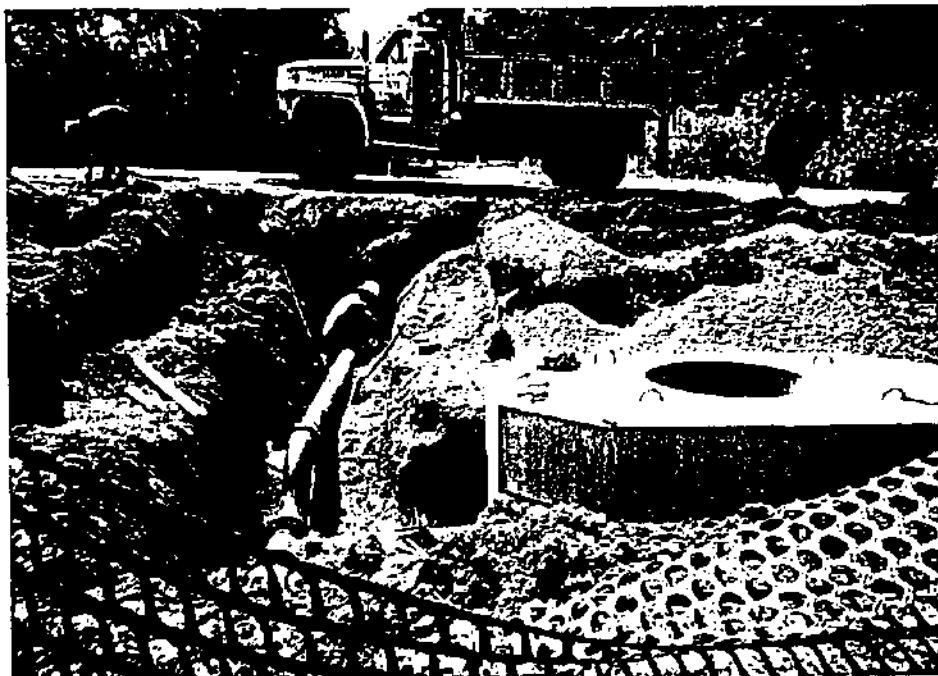


Photo 10- North Bloomfield, N.Y. 7/16/87. The RWW crew installing water main along Martin Road in the westerly direction.



Photo 11- North Bloomfield, N.Y. 7/21/87. Connections of water main installation along Martin Road in the westerly direction.



Photo 12- North Bloomfield, N.Y. 7/21.87. Backfilling operation along Martin Road.



Photo 13- North Bloomfield, N.Y. 7/21/87. Backfilling of the trench in the westerly direction along Martin Road.



Photo 14- North Bloomfield, N.Y. 7/22/87. Installed fire hydrant on Martin Road. Note the appearance of groundwater in the trench.



Photo 15- North Bloomfield, N.Y. 7/22/87. Overall view of installed fire hydrant, backfilling of the trench, and groundwater appearance.



Photo 16- North Bloomfield, N.Y. 7/29/87. Gas service line encountered along Martin Road.

PART III

ROCK CUTTING OPERATION



Photo 17- North Bloomfield, N.Y. 7/30/87. A testing boring operations to determine the depth to bedrock.



Photo 18- North Bloomfield, N.Y. 9/9/87. A broken rock fragment obtained during the rock operation.



Photo 19- North Bloomfield, N.Y. 9/16/87. Rock fragments inside the trench.



Photo 20- North Bloomfield, N.Y. 9/17/87. Rocking cutting operation along Martin Road.

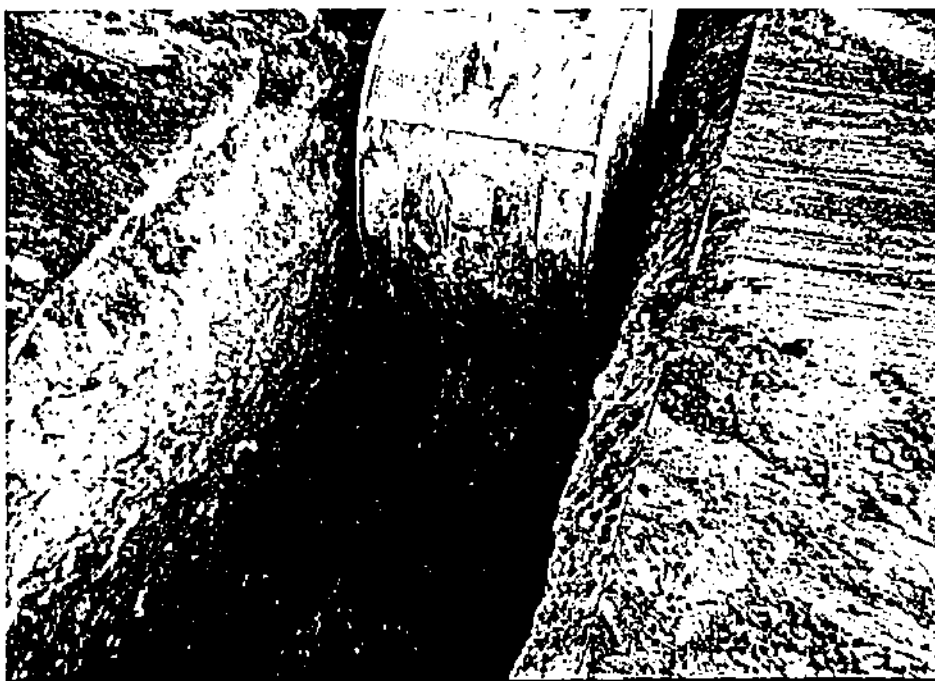


Photo 21- North Bloomfield, N.Y. 1/17/88. Rocking cutting operation along Ideson Road.



Photo 22- North Bloomfield, N.Y. 1/17/88. Rocking cutting operations along Ideson Road.

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PART IV

PRESSURE TESTING AND FLUSHING OPERATION

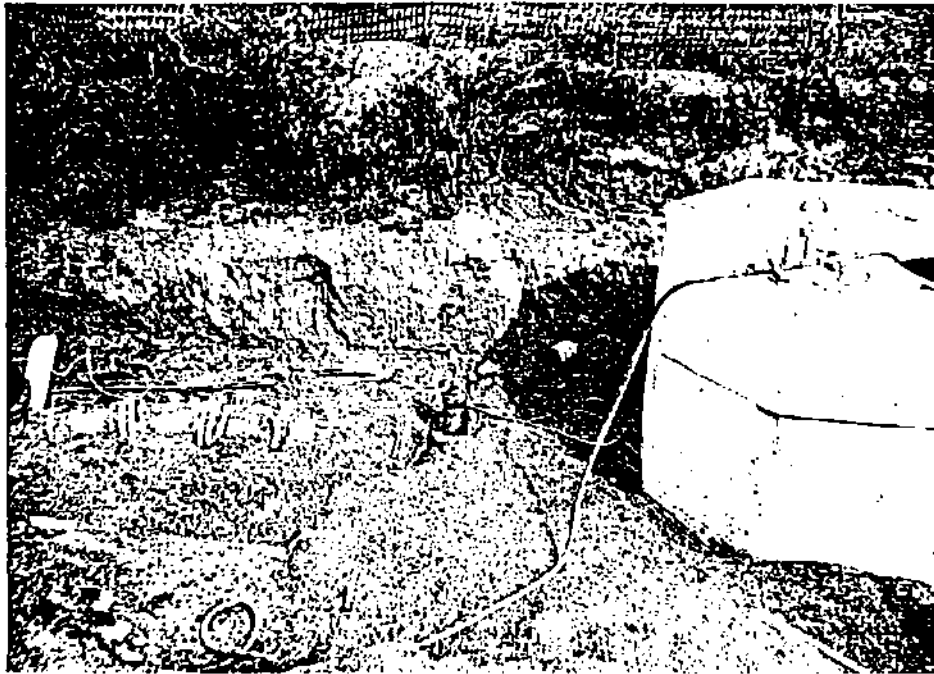


Photo 23- North Bloomfield, N.Y. 9/23/87. A pressure testing device and connections outside the meter vault.



Photo 24- North Bloomfield, N.Y. 9/23/87. A hydrant valve is being opened to flush the water main.

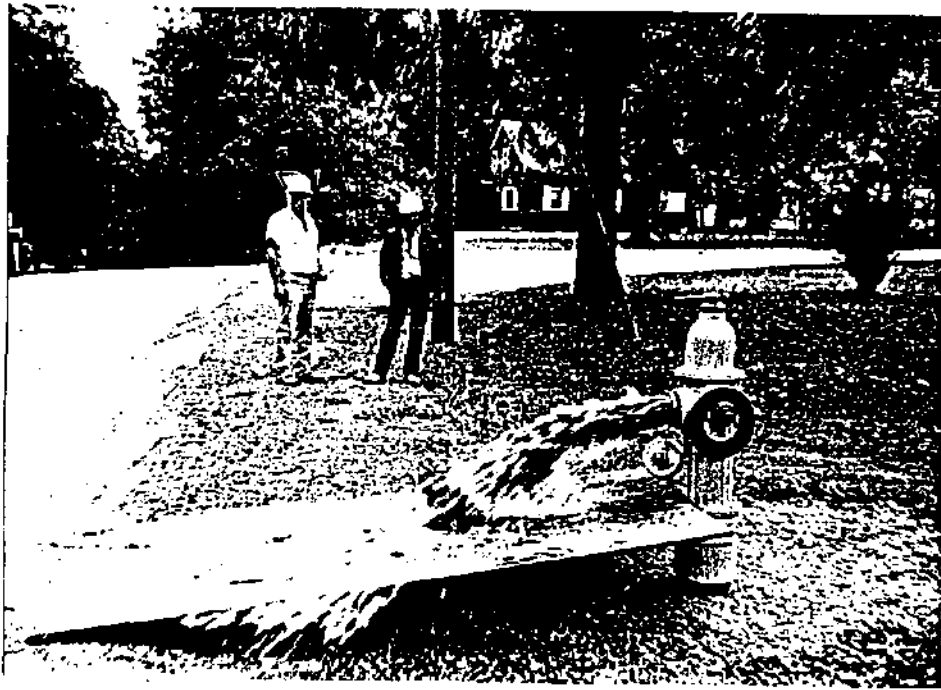


Photo 25- North Bloomfield, N.Y. 9/23/87. A water main is being flushed.



Photo 26- North Bloomfield, N.Y. 9/23/87. A water main is being flushed until clear water is visible.

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Photo 27- North Bloomfield, N.Y. 9/24/87. Connections inside the meter vault for the pressure testing operation.

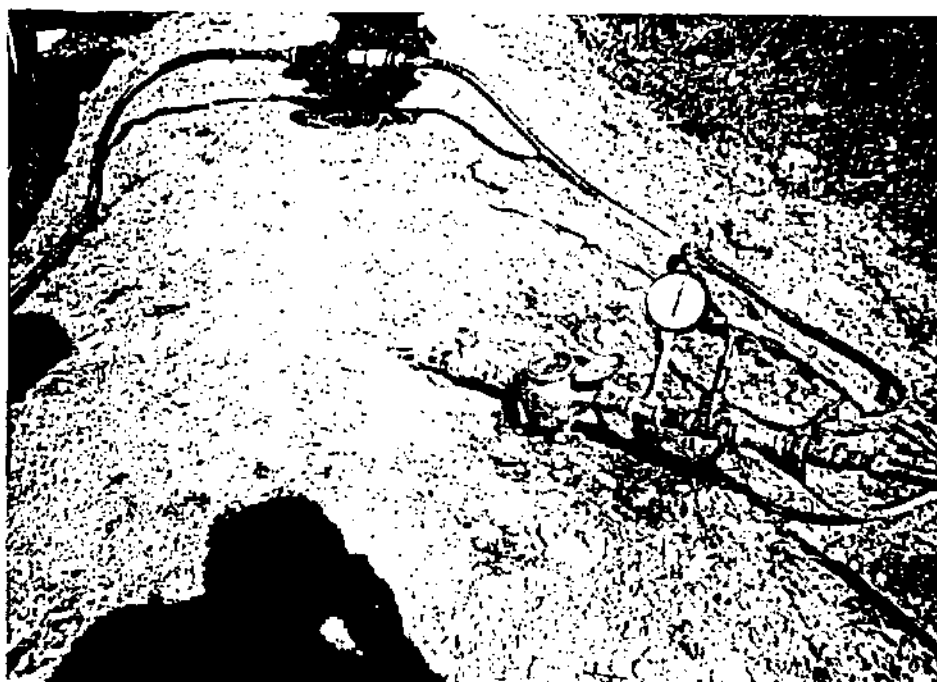


Photo 28- North Bloomfield, N.Y. 9/24/87. An assembly of the pressure testing device.

PART V

SERVICE LINE INSTALLATION USING HYDRAULIC EQUIPMENT



Photo 29- North Bloomfield, N.Y. 9/4/87. Preparation of service line installation at one end.



Photo 30- North Bloomfield, N.Y. 9/4/87. Preparation of service line installation at one end.



Photo 31- North Bloomfield, N.Y. 9/4/87. Hole-hog equipment being lowered into the trench.



Photo 32- North Bloomfield, N.Y. 9/4/87. Rod used in conjunction with the Hole-hog equipment to push through the soil for copper pipe placement.

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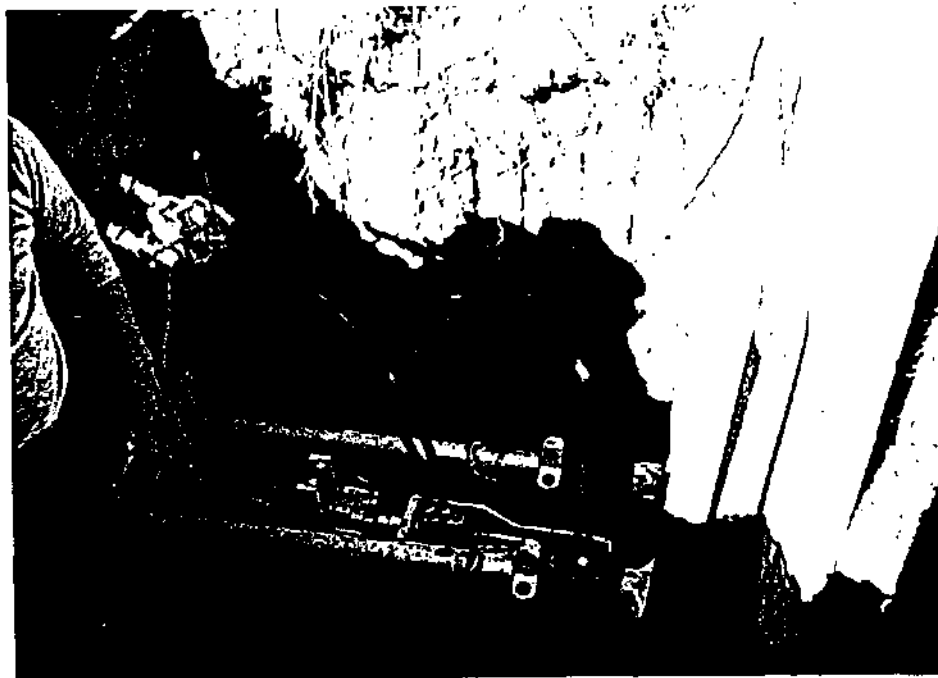


Photo 33- North Bloomfield, N.Y. 9/4/87. Hole-hog equipment placed and supported in the trench prior to pushing through the soil.

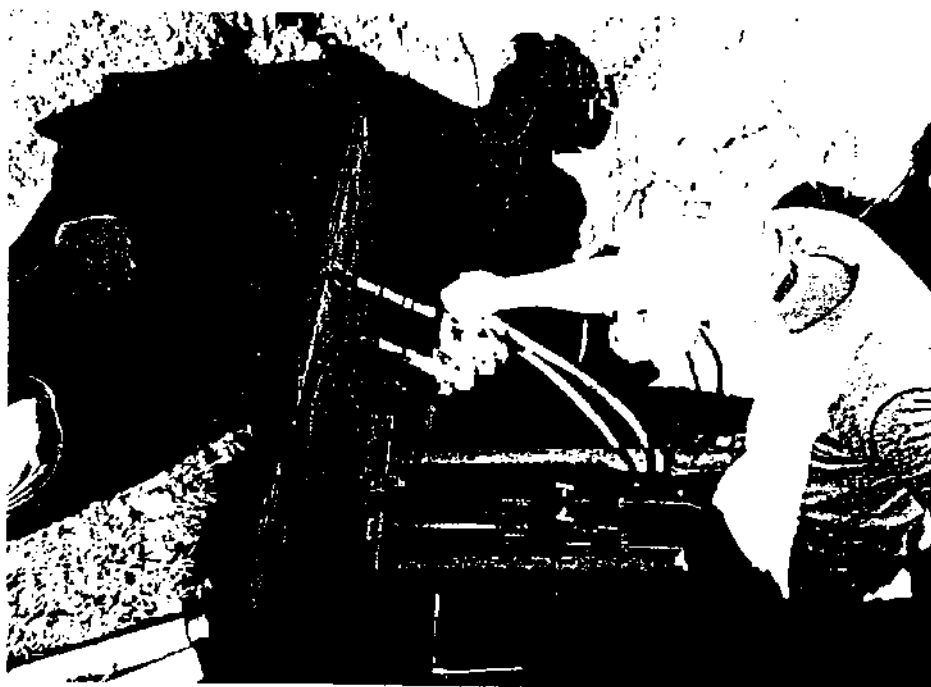


Photo 34- North Bloomfield, N.Y. 9/4/87. The equipment in operation of pushing through the soil (left view).

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Photo 35- North Bloomfield, N.Y. 9/4/87. The equipment in operation of pushing through the soil (right view).

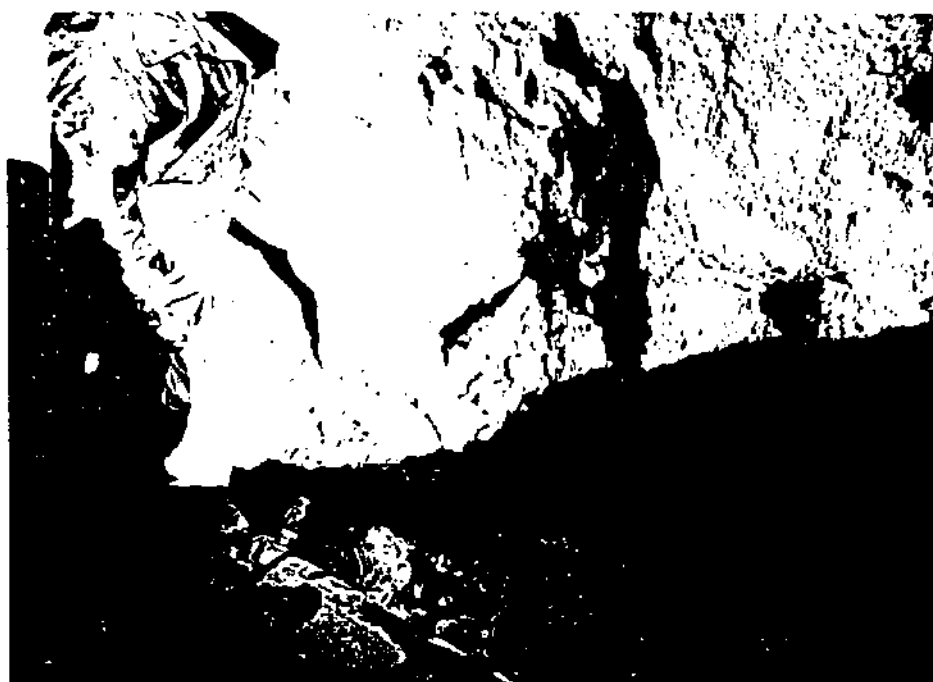


Photo 36- North Bloomfield, N.Y. 9/4/87. Rod emerging at the other end after being pushed hydraulically through the soil.



Photo 37- North Bloomfield, N.Y. 9/4/87. A copper service pipe being attached to the rod to be fed into the hole pushed through the soil by the Hole-hog.



Photo 38- North Bloomfield, N.Y. 9/4/87. A copper service pipe being pushed along with the rods and rods are removed one by one at other end of the hole created by the Hole-hog device.

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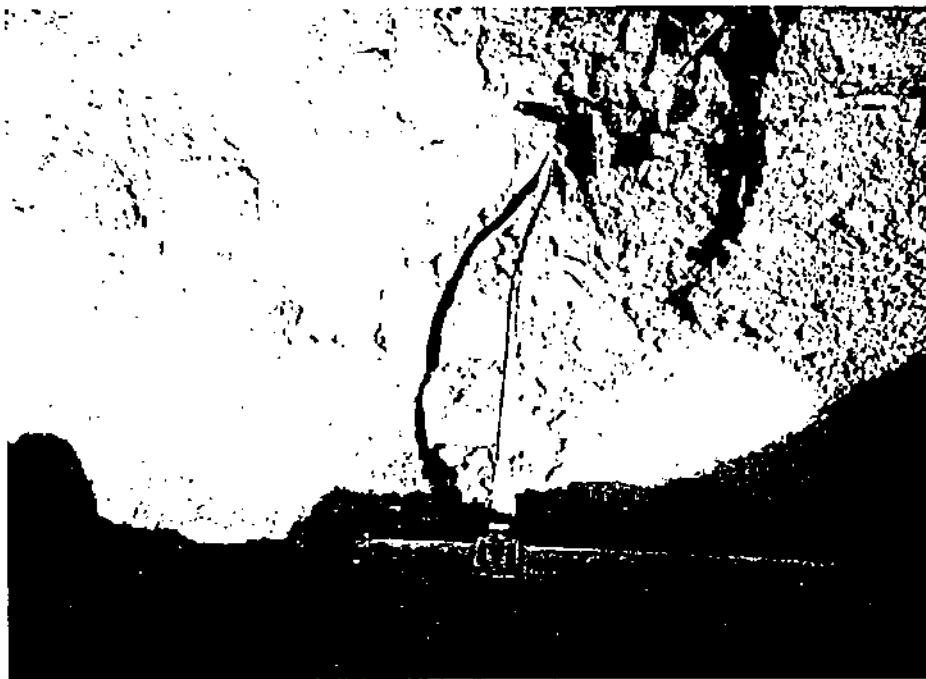


Photo 39- North Bloomfield, N.Y. 9/4/87. A copper service connection pipe at the water main.



Photo 40- North Bloomfield, N.Y. 9/4/87. A copper service pipe installed underneath the road at two ends. One end being where the man in the foreground is holding a shovel. The other end being where the man is compacting soil with a hand-tamper.

SECTION 4

ACTION MEMORANDUM

(MON), 26 Oct. '87 (~~MON~~) 17 AUG. 87

45

Sign.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

NOV 27 1985 27 NOV. 85 REGION II

Immediate Removal Funding Request for North Bloomfield,
Town of Lima, Livingston County, New York - ACTION MEMORANDUM

Joseph Rotola, On-Scene Coordinator
Response and Prevention Branch

William J. Librizzi, Director
Emergency and Remedial Response Division

I. PURPOSE

On August 15, 1985 Norman Nosenchuck, Director of the Division of Solid and Hazardous Waste for the New York State Department of Environmental Conservation (NYSDEC) formally requested that the United States Environmental Protection Agency (EPA) assess a documented groundwater contamination problem affecting residents of North Bloomfield, New York for a CERCLA Immediate Removal Action.

During the months of June through September of 1985, the New York State Department of Health (NYSDOH) and the Livingston County Department of Health (LCDOH) sampled thirty-five private residential drinking water wells and one drinking water well utilized by a local industrial facility. The sampling results were received by this office on August 15, 1985 and on November 1, 1985. The results of these sampling activities indicated that twenty-one of these wells are contaminated with varying concentrations of trichloroethylene, trans 1,2-dichloroethane, 1,1,2-trichloroethane and 1,2-dichloroethane. Of these, two wells exceeded EPA's 10-Day Health Advisory level for trichloroethylene, seven exceeded the NYSDOH guideline limit for potable water, and two more closely approach that limit. The remaining fifteen were found not to be contaminated during the sampling period.

Based on these data and the fact that the affected residential population currently depends on their wells as a sole source of potable water, there is a significant and immediate threat to human health. As such, an Immediate Removal Action under CERCLA is recommended to provide bottled water to residents identified as being in areas of highest risk until a final solution to this problem can be planned and implemented.

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II. BACKGROUND

A. Site Setting/Description

North Bloomfield is a small residential community located in the northwestern portion of the Finger Lakes Region of New York State. The area is rural in nature and is comprised primarily of farmland (a location map is presented in Figure 1). The only industrial/commercial establishments in the area consists of Cranes Collision, an automobile repair shop (located at the Tondryk residence) and Enarc-O-Machine Products, Inc. a manufacturer of screw machine products and drain and shut-off valves.

As illustrated in Figure 2, North Bloomfield is bisected by Honeoye Creek which flows in a northerly direction towards the town of Honeoye Falls. With the exception of approximately five homes, residents to the east of the creek are on a public water system served by the Monroe County Water Authority. The residents located to the west of Honeoye Creek rely on private wells for their drinking water. The location of existing mains are presented in Figure 2.

The area of known groundwater contamination is limited to that portion of North Bloomfield which is included in the Town of Lima and is located west of Honeoye Creek, including Ideson Road and portions of Bragg Street and Martin Road. Four of the five homes located to the east of Honeoye Creek that are known to be on wells have been sampled and results have indicated that contaminants are not present.

B. Quantity and Types of Substances Present

The five major organic contaminants that have been identified during past residential well sampling and analysis activities include:

-3-

<u>Contaminant</u>	<u>Maximum Concentration Found (ppb)</u>	<u>Statutory Source for Designation under CERCLA</u>
Trichloroethylene	318	Clean Water Act Section 311(b)(4)
Trans 1,2-Dichloroethane	89	Clean Water Act Section 307(a)
1,1,1-Trichloroethane	560	Clean Water Act Section 307(a)
1,1,2,2-Tetrachloroethane	68	Clean Water Act Section 307(a)
Tetrachloroethane	100	Clean Water Act Section 307(a)

A summary of the contaminants found to be present in the area's drinking water is presented in Appendix I. Table I summarizes all data collected that exceed EPA Health Advisory levels. Table II presents those contaminants that exceed or approach NYSDOH Drinking Water Standards. A summary of the toxicological characteristics of each contaminant is presented in Table III.

- C. This site is not on the National Priorities List (NPL).

III. THREAT

A. Threat to Public Exposure

Presently available data on the quality of groundwater in the North Bloomfield area indicate that this is a case of actual contamination at the tap in twenty residences and one local industry. In addition, there is the threat that this contamination may affect thirteen additional nearby residences in the immediate future.

The maximum total concentration of contaminants in this area was found at the Enarc-O-Machine site with a total of 728 ppb of organics. Although an EPA Health Advisory level has not been designated for the major contaminant, 1,1,1-trichloroethane, this total greatly exceeds the NYSDOH drinking water guidelines of 100 ppb. (Presently EPA's Recommended Maximum Contaminant Level (RMCL) for this chemical is 200 ppb.) Trichloroethylene

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-4-

has been observed in two wells at levels of 318 ppb and 260 ppb, both exceeding an EPA 10-Day Health Advisory for this contaminant which is 200 ppb. Of the residences affected, seven in total exceed the NYSDOH guidelines limits for potable water. Homes exceeding EPA 10-day Health Advisory level and NYSDOH guidelines are presented in Figure 3.

Due to the nature of the geology in the study area, which consists of shale, vertical and horizontal fractures may result in highly unpredictable contaminant migration. In addition, contaminant strength will vary randomly with time and location. Based on this information, an attempt to characterize the aquifer would require the installation of monitoring wells and the implementation of a long term sampling plan which, due to time considerations, are beyond the scope of an immediate removal action. Therefore, it is recommended that all residences within the contaminated area and area at risk receive bottled water until a permanent alternate water supply can be furnished.

Dimensions of the contaminated area were established by using data on wells showing contamination regardless of concentration. This area includes wells that have tested clean during past sampling but are adjacent to contaminated wells. The area at risk was established as a buffer zone to ensure against any threat to public health caused by potential contaminant migration.

The NYSDOH has agreed to sampling wells of residents outside the contaminated area and area at risk until a permanent solution to this problem is implemented.

B. Evidence of Extent of Release

Sampling and analyses performed by NYSDOH and LCDOH have identified an incidence of contaminated groundwater which is quantitatively described in Section II-B. Due to the nature of the geology in the area, the rate or exact direction of groundwater movement cannot be readily determined. This memorandum will identify the specific area in which contamination exists along with the area at risk.

As presented in Figure 4, the extent of contamination and area at risk includes 34 drinking water wells of which, twenty-one currently have contamination at the tap.

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-5-

C. Previous Actions to Abate Threat

The NYSDOH and LCDOH have advised residents at public meetings and by letter of the concentrations of contaminants found in their drinking water and recommended that they use bottled water or some alternate supply.

In addition, the Health Departments obtained permission from the Monroe County Water Authority to install a spigot at their fire hydrant located on Martin Street (on the east side of the bridge over Boneoye Creek), for use by the affected residents.

D. Current Actions to Abate Threat

On July 12, 1985, the Town of Lima received a Small Cities Grant from the U.S. Department of Housing and Urban Development (HUD). The purpose of the \$600,000 grant was to interconnect Lima's existing water supply system with that of either the Monroe County Water Authority or the City of Rochester. Presently, the Town utilizes two water supply wells that have, over the years, decreased in both quality and yield. As a result of this grant, these wells will eventually be abandoned. The total cost of this project has been estimated to be 1.4 million dollars.

Since the original grant application was made prior to the Town having knowledge of the North Bloomfield water contamination problem, this area was not addressed in the grant application. Recent conversations with Town officials indicate that a modification to the grant has been submitted to HUD to include North Bloomfield in the water supply plan however, this modification will not result in an increase in funding.

The most recent development affecting the town's timeliness in installing this main concerns the NYSDOH's recent decision to require the Town of Lima to utilize the Monroe County Water Authority's water supply system due to quality considerations. The NYSDOH's requirement is based on the City of Rochester's failure to provide adequate filtering to their water prior to distribution. The City of Rochester contests this claim and insists that they should be considered as a potable water source. A letter from Richard Mayberry, an attorney of the Town of Lima is included in Appendix III and expands on this situation.

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Based on this information and legal actions that may result between NYSDOH, the City of Rochester and the Town of Lima, most recent projections for a completion date on the main installation and hookups is December 1986.

IV. ENFORCEMENT

NYSDEC has identified Enarc-O-Machine Products, Inc. as a potentially responsible party. As noted previously, the highest total concentrations of contaminants found in North Bloomfield thus far has been in the well at Enarc-O's facility. The company has also reportedly denied responsibility for the groundwater contamination in the area.

The NYSDEC's Division of Environmental Enforcement (DEE) is conducting further investigations to determine the degree at which the groundwater contamination can be attributed to activities at the Enarc-O-Machine facility. DEE will also be investigating Cranes Collision, referred to in Section II.A. above, as an additional potential source of contamination.

EPA is presently preparing a notice letter that will be issued to Enarc-O-Machine.

V. PROPOSED PROJECT AND COST

A. Objective of the Project

The primary objective of this proposed action is to mitigate the existing threat to public health imposed by contaminants found in the water supply of the residents of North Bloomfield, NY. In order to accomplish this objective, it will be necessary to supply all affected and potentially affected residences with bottled water for drinking and cooking until a permanent alternate water supply can be provided.

The area of major concern is presented in Figure 5 and consists of 33 residences and one industry that will receive bottled water. As previously stated, on-going sampling will be performed by the NYSDOH.

It is recommended that EPA supply each household with one gallon of water per day per occupant and one half gallon of water per employee at any industrial establishments. Appendix II presents a recently completed survey of household size in the North Bloomfield area.

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B. Project Estimated Cost

The quantity and subsequent cost of providing bottled water to the residences identified as being within the area of contaminated groundwater and the area at risk is partially based upon an actual field survey of the residential population of the affected area. Costs are based on delivering bottled water for a period of up to 26 weeks (limit of removal time frame) or by the time the water supply system is installed, whichever comes first.

Estimated project cost for provision of bottled water is as follows:

1. Total business population of 72	
@ 1/2 gallon/day/person	= 36
Total residential population of 116	
@ 1 gallon/day/person	= <u>116</u>
Total	152 gallon/day
Bottled Water = 152 gallons/day X 182 days	
X 1 dollar/gallon	= \$27,664.00
2. Contingency (15% of bottled water cost)	= <u>\$ 4,149.60</u>
SUBTOTAL (contract mitigation costs)	\$31,813.60
3. Intramural EPA Costs	= \$ 1,500.00
4. Extramural (TAT) Costs	<u>\$ 1,500.00</u>
SUBTOTAL	\$34,813.60
5. Other Costs (15% of all costs above)	= <u>\$ 5,222.04</u>
TOTAL ESTIMATED PROJECT COST	<u>\$40,035.64</u>

C. Project Schedule

The project can be initiated immediately upon approval of fund authorization. Potable water supply companies, approved by the NYSDOH could begin providing bottled water to the affected residences one week after receiving notification.

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VI. RECOMMENDATION

Based on recent sampling results of drinking water taken at the tap in residences in the Town of North Bloomfield, it has been determined that this site meets the criteria for an immediate removal action under 40 CFR 300.65(a) of the National Oil and Hazardous Substance Contingency Plan in that, groundwater used by private residences in the area contain contaminants at levels that present an immediate and significant risk of harm to human health.

Since the population at risk currently relies on private wells as their sole source of potable water and since no other mitigative action is known to be planned that will reduce the risk to public health posed by this groundwater contamination within an acceptable timeframe, it is recommended that all of the affected, and potentially affected residences receive bottled water. Based on the information provided in this memorandum, I recommend your approval of this Immediate Removal Request to supply bottled water. The estimated cost of this project is \$40,035.64 of which \$31,813.60 is for mitigation contracting.

Your authority to authorize these funds is pursuant to Deputy Administrator Alvin Alm's April 16, 1984 memorandum, Delegation Number 14-1-A and Richard T. Dewling's Redellegation Order RII 1200.6 of August 29, 1984.

APPROVAL: William Librizzi

DATE: 11/27/85

DISAPPROVAL: _____

DATE: _____

Attachments

cc: (after approval is obtained)

W. Librizzi, 2ERR
 F. Rubel, 2ERR-RP
 G. Zachos, 2ERR-RP ✓
 R. Ogg, 2ERR-SIC
 G. Pavlou, 2ERR-NYCRA
 J. Marshall, 2OEP
 W. Mugdan, 2ORC-WTS
 R. Gherardi, 2OPM-FIN
 S. Wolfe, 2IG
 P. Flynn, PM-214F (EXPRESS MAIL)
 T. Fields, WH-548B
 H. Longest, WH-548
 N. Nosenchuck, NYSDEC

*Approval based upon
 the requirement to evaluate
 the appropriateness of
 providing bottled water
 to P.R.P.*

FIGURES

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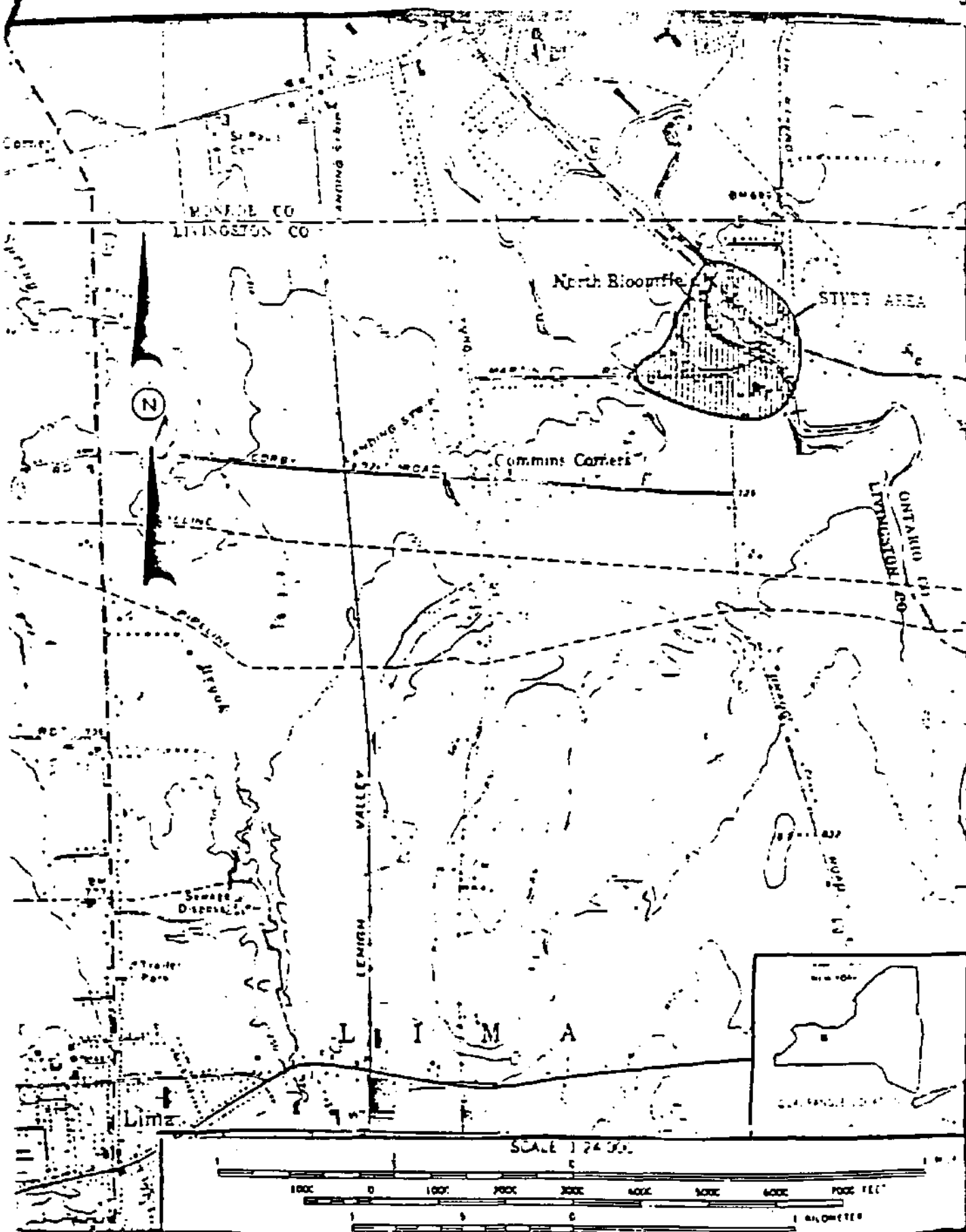


Figure 1
Site Location Map

North Bloomfield, N.Y.

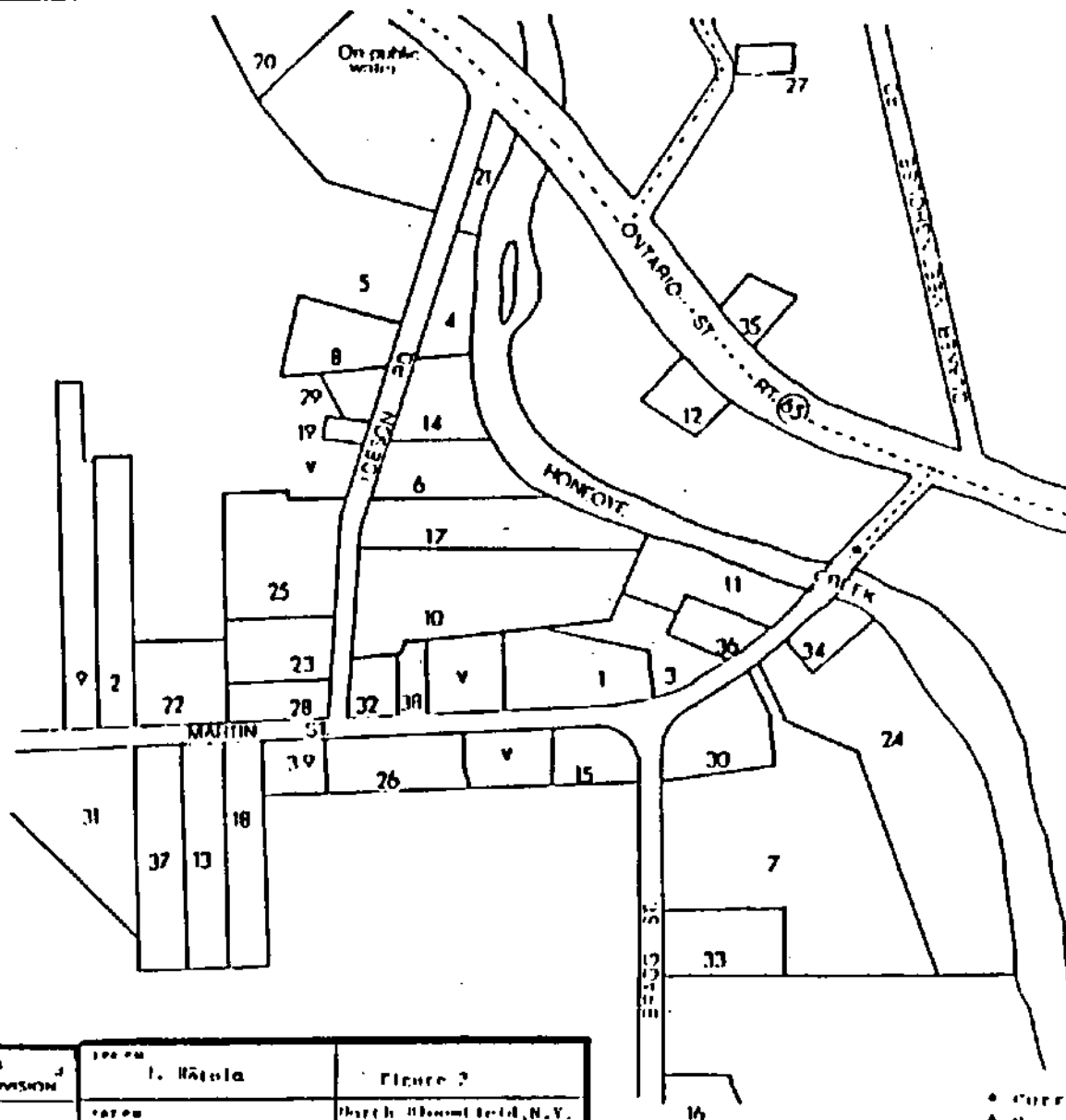
570
225



LEGEND

- Existing hydrant
- Existing water main
- ▼ Warrant lot

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ADDRESS

NUMBER	ADDRESS
1	Boone 2850 Martin
2	Boone 2850 Martin
3	Cavalier 2845 Martin
4	Chambers 1091 Edison
5	Colwell 1090 Edison
6	Cooper 1171 Edison
7	Evans 1175 Repp
8	Fidwell 1108 Edison
9	Frazier 2281 Martin
10	Freeman 1167 Edison
11	Gentry 2881 Martin
12	Gump 2886 Edison
13	Hart 2808 Martin
14	Hart 1111 Edison
15	Hopkins 2852 Martin
16	Horton 1187 Repp
17	Johnson 1179 Edison
18	Johnson 2870 Martin
19	Maloy 1116 Edison
20	Martinez 2190 Edison
21	Melley 1091 Edison
22	O'Brien 2801 Martin
23	Reese 1166 Edison
24	Rogers 2880 Martin
25	Sackett 1160 Edison
26	Sanderson 2838 Martin
27	Sellner 2826 Repp
28	Shelton 1156 Edison
29	Smith 1110 Edison
30	Smith 1167 Repp
31	Swanper 2250 Martin
32	Tompson 1155 Edison
33	Tondyk 1191 Repp
34	Walters 2886 Repp
35	Wagner 1897 Edison
36	Yates 2821 Martin
37	Stale 1176 Martin
38	Repp 2829 Edison
39	Repp 2829 Edison

• Currently Contaminated Wells
 † Crane Collision also at this lot and served by Tondyk well.

WILKIN

SPRINKLER PREVENTION & EMERGENCY RESPONSE DIVISION

In working order with
 W. J. Jacobs Engineering Inc. 8 Town Tech Inc.

1. Katala

N. Du. Road

Figure 2

Church, Belmont Field, N.Y.
 Resident Ltd.
 Bell, Loc. at four Map

NUMBER

ADDRESS

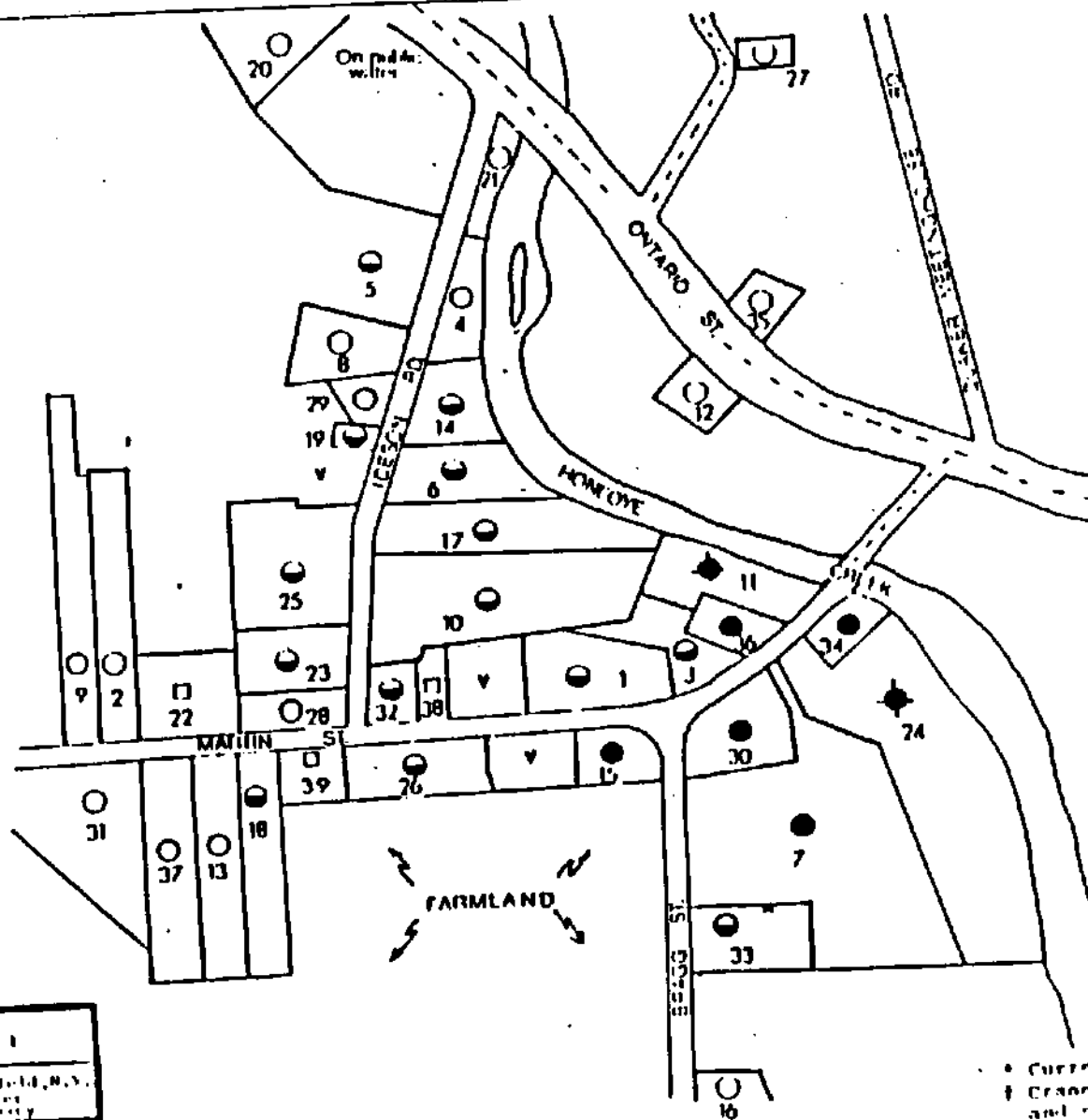
1	1	Rooming	1859	Martin Rd.
2	2	Room	1182	Martin Rd.
3	3	Cavalier	1865	Martin Rd.
4	4	Chambers	1091	Ideam Rd.
5	5	Calcutta	1090	Ideam Rd.
6	6	Cooper	1121	Ideam Rd.
7	7	London	1175	Reapp St.
8	8	Podiatry	1108	Ideam Rd.
9	9	Franklin	1181	Martin Rd.
10	10	Freedman	1147	Ideam Rd.
11	11	Garvey	1883	Martin Rd.
12	12	George	1886	Dubois St.
13	13	Chocklaw	1808	Martin Rd.
14	14	Hart	1111	Ideam Rd.
15	15	Hopkins	1857	Martin Rd.
16	16	Horton	1382	Reapp St.
17	17	Johnson	1129	Ideam Rd.
18	18	Johnson	1820	Martin Rd.
19	19	Maloy	1116	Ideam Rd.
20	20	Hartman	2350	Dubois St.
21	21	Miller	1081	Ideam Rd.
22	22	H. R. Ten	1801	Martin Rd.
23	23	Reano	1156	Ideam Rd.
24	24	Rogers	1880	Martin Rd.
25	25	Sackett	1150	Ideam Rd.
26	26	Sanderson	1818	Reapp St.
27	27	Sellers	1856	Reapp St.
28	28	Shelton	1156	Ideam Rd.
29	29	Smith	1110	Ideam Rd.
30	30	Smith	1147	Reapp St.
31	31	Sunger	2250	Martin Rd.
32	32	Tompson	1155	Ideam Rd.
33	33	Tondryk	1151	Reapp St.
34	34	W. H. Kemp	1886	Martin Rd.
35	35	Wagner	1897	Dubois St.
36	36	Texas	1871	Martin Rd.
37	37	Stella	1176	Martin Rd.
38	38	Re. Ident	1829	Martin Rd.
39	39	Re. Ident	1820	Martin Rd.

* Currently Contaminated Wells
† Cranes Pollution also at this location and served by Tondryk well.



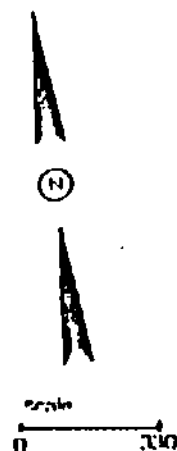
LEGEND

- ◆ Exceeded EPA SNARLS for TCE
- >50ppb any one organic compound or >100ppb total organic compound
- <50ppb any one organic compound or <100ppb total organic compound
- None detected
- Homes to be sampled by NYSDOH
- 2 Sewerless key
- ∇ Vacant lot
- - - Existing water main



100 PM	Figure 1
J. Roberts	
100 PM	North Woodfield, N.Y.
W. H. Kemp	Community

5906
225

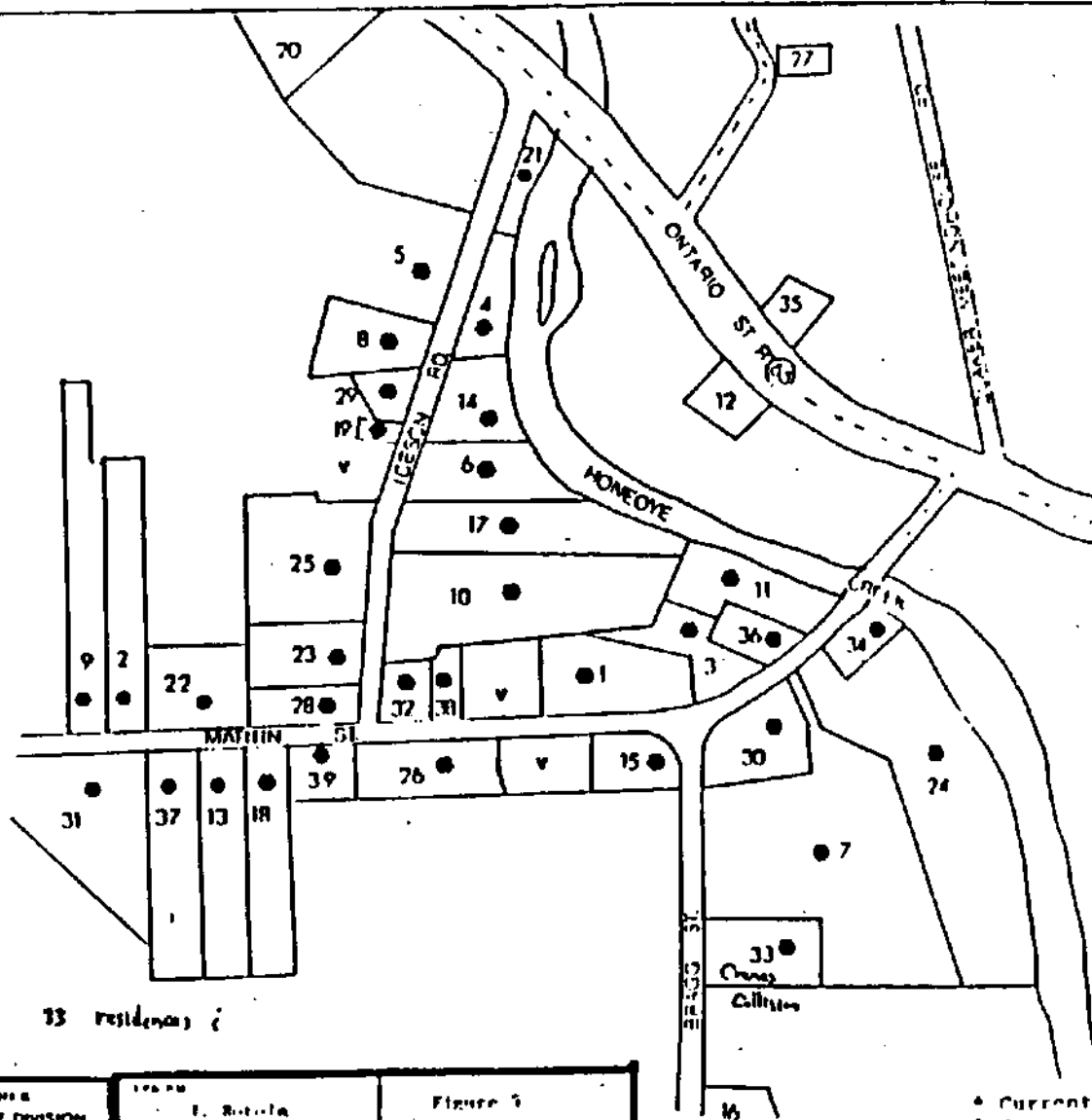


LEGEND

- Wellhead in active fullflow mode
- 2 See address key
- v Vacant lot

--- Existing water main

33 residences



ADDRESS KEY

NUMBER	ADDRESS
1	Buchanan 1859 Martin Rd.
2	Buchanan 1887 Martin Rd.
3	Cawley 1885 Martin Rd.
4	Chambers 1891 Edison Rd.
5	Fullerton 1890 Edison Rd.
6	Cooper 1121 Edison Rd.
7	Emerson 1125 Rapp St.
8	Endicott 1108 Edison Rd.
9	Franklin 1181 Martin Rd.
10	Freeman 1167 Edison Rd.
11	Gentry 1881 Martin Rd.
12	Greene 1886 Ontario St.
13	Grant 1808 Martin Rd.
14	Hart 1111 Edison Rd.
15	Hopkins 1857 Martin Rd.
16	Horton 1182 Rapp St.
17	Johnson 1129 Edison Rd.
18	Johnson 1820 Martin Rd.
19	Meloy 1116 Edison Rd.
20	Murphy 1130 Ontario St.
21	Miller 1881 Edison Rd.
22	O'Brien 1801 Martin Rd.
23	Ross 1166 Edison Rd.
24	Rogers 1880 Martin Rd.
25	Sackett 1160 Edison Rd.
26	Saunders 1818 Martin Rd.
27	Sellers 1656 Peachell Rd.
28	Shelton 1156 Edison Rd.
29	Smith 1110 Edison Rd.
30	Smith 1167 Rapp St.
31	Swanper 1150 Martin Rd.
32	Tompson 1155 Edison Rd.
33	Touhy 1121 Rapp St.
34	Wallace 1886 Martin Rd.
35	Wagner 1877 Ontario St.
36	Yarr 1871 Martin Rd.
37	Slade 1796 Martin Rd.
38	Peddie 1829 Martin Rd.
39	Hartford 1829 Martin Rd.

* Currently Contaminated Wells
 † Cranes Collision also at this location and served by Touhy well.

WSPEN

SOIL PREVENTION & EMERGENCY RESPONSE DIVISION

In association with

ECF, Inc. Jacobs Engineering Inc. & Terra Tech Inc.

175 PM

F. B. B. B.

Figure 5

175 PM

H. B. B. B.

Depth: 1100 ft. (N.Y. State)
 Depth: 1100 ft. (N.Y. State)
 Depth: 1100 ft. (N.Y. State)

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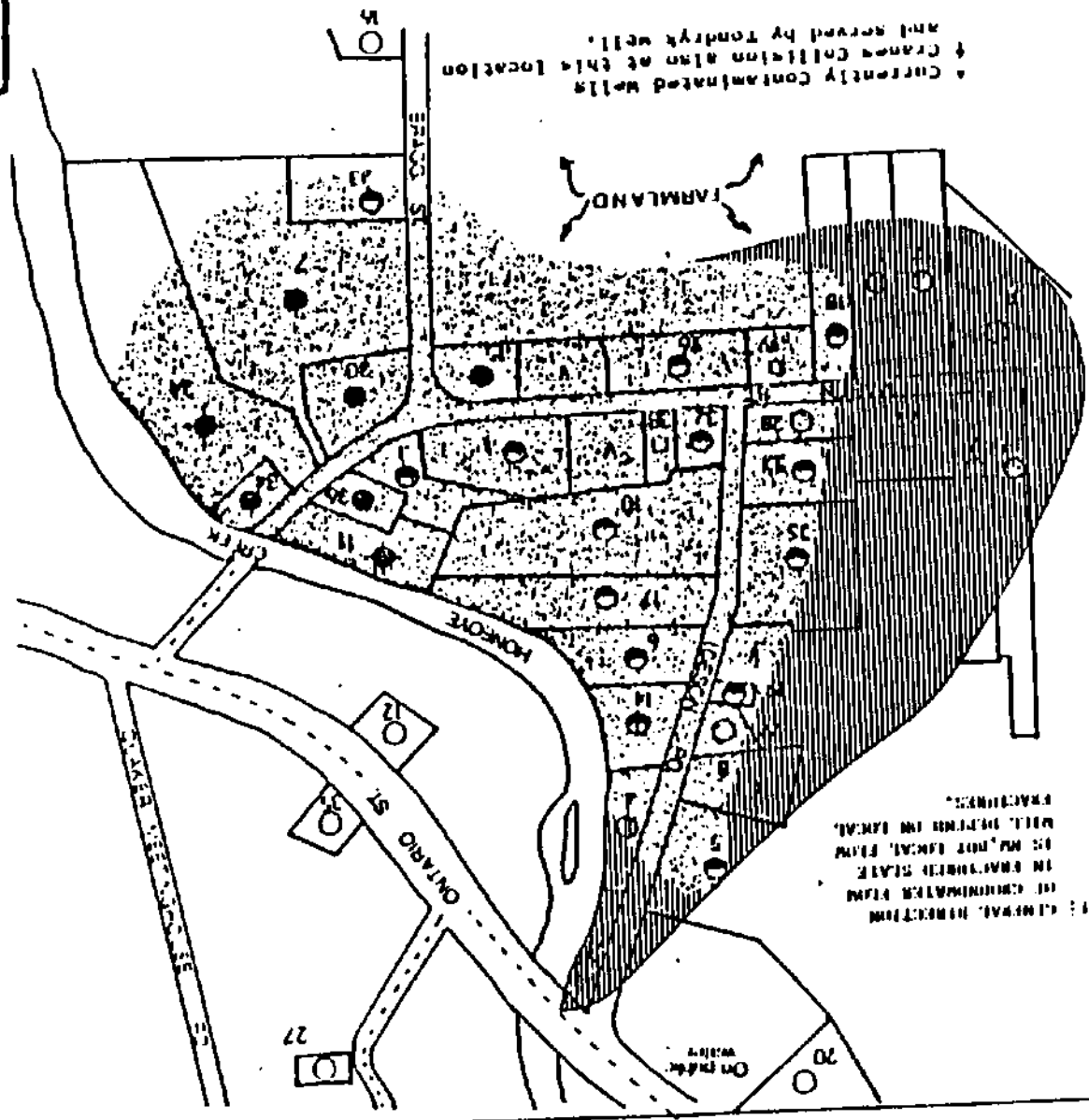
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- LEGEND
- Exceeded LIM SNARLs for TCE
 - >50ppb any one organic compound or >100ppb total organic compound
 - <50ppb any one organic compound or <100ppb total organic compound
 - Name detected
 - Items to be sampled by NYSDOH
 - 2 See address key
 - ▲ Vacant lot
 - AIRFA AT RISK
 - ▲ First of contamination
 - ▲ (all other wells shown)

0 330
Scale



NOTE: GENERAL DIRECTION OF CONTAMINATION FROM WELLS SHOWN IN LOCAL MAP IS NOT KNOWN STATE IN CONTAMINATION FROM WELLS SHOWN IN LOCAL MAP.



Lot No.	Address	Contaminant	Concentration	Notes
1	1000 West 1st St	TCE	1.0	
2	1000 West 1st St	TCE	1.0	
3	1000 West 1st St	TCE	1.0	
4	1000 West 1st St	TCE	1.0	
5	1000 West 1st St	TCE	1.0	
6	1000 West 1st St	TCE	1.0	
7	1000 West 1st St	TCE	1.0	
8	1000 West 1st St	TCE	1.0	
9	1000 West 1st St	TCE	1.0	
10	1000 West 1st St	TCE	1.0	
11	1000 West 1st St	TCE	1.0	
12	1000 West 1st St	TCE	1.0	
13	1000 West 1st St	TCE	1.0	
14	1000 West 1st St	TCE	1.0	
15	1000 West 1st St	TCE	1.0	
16	1000 West 1st St	TCE	1.0	
17	1000 West 1st St	TCE	1.0	
18	1000 West 1st St	TCE	1.0	
19	1000 West 1st St	TCE	1.0	
20	1000 West 1st St	TCE	1.0	
21	1000 West 1st St	TCE	1.0	
22	1000 West 1st St	TCE	1.0	
23	1000 West 1st St	TCE	1.0	
24	1000 West 1st St	TCE	1.0	
25	1000 West 1st St	TCE	1.0	
26	1000 West 1st St	TCE	1.0	
27	1000 West 1st St	TCE	1.0	
28	1000 West 1st St	TCE	1.0	
29	1000 West 1st St	TCE	1.0	
30	1000 West 1st St	TCE	1.0	
31	1000 West 1st St	TCE	1.0	
32	1000 West 1st St	TCE	1.0	
33	1000 West 1st St	TCE	1.0	
34	1000 West 1st St	TCE	1.0	
35	1000 West 1st St	TCE	1.0	
36	1000 West 1st St	TCE	1.0	
37	1000 West 1st St	TCE	1.0	
38	1000 West 1st St	TCE	1.0	
39	1000 West 1st St	TCE	1.0	
40	1000 West 1st St	TCE	1.0	
41	1000 West 1st St	TCE	1.0	
42	1000 West 1st St	TCE	1.0	
43	1000 West 1st St	TCE	1.0	
44	1000 West 1st St	TCE	1.0	
45	1000 West 1st St	TCE	1.0	
46	1000 West 1st St	TCE	1.0	
47	1000 West 1st St	TCE	1.0	
48	1000 West 1st St	TCE	1.0	
49	1000 West 1st St	TCE	1.0	
50	1000 West 1st St	TCE	1.0	
51	1000 West 1st St	TCE	1.0	
52	1000 West 1st St	TCE	1.0	
53	1000 West 1st St	TCE	1.0	
54	1000 West 1st St	TCE	1.0	
55	1000 West 1st St	TCE	1.0	
56	1000 West 1st St	TCE	1.0	
57	1000 West 1st St	TCE	1.0	
58	1000 West 1st St	TCE	1.0	
59	1000 West 1st St	TCE	1.0	
60	1000 West 1st St	TCE	1.0	
61	1000 West 1st St	TCE	1.0	
62	1000 West 1st St	TCE	1.0	
63	1000 West 1st St	TCE	1.0	
64	1000 West 1st St	TCE	1.0	
65	1000 West 1st St	TCE	1.0	
66	1000 West 1st St	TCE	1.0	
67	1000 West 1st St	TCE	1.0	
68	1000 West 1st St	TCE	1.0	
69	1000 West 1st St	TCE	1.0	
70	1000 West 1st St	TCE	1.0	
71	1000 West 1st St	TCE	1.0	
72	1000 West 1st St	TCE	1.0	
73	1000 West 1st St	TCE	1.0	
74	1000 West 1st St	TCE	1.0	
75	1000 West 1st St	TCE	1.0	
76	1000 West 1st St	TCE	1.0	
77	1000 West 1st St	TCE	1.0	
78	1000 West 1st St	TCE	1.0	
79	1000 West 1st St	TCE	1.0	
80	1000 West 1st St	TCE	1.0	
81	1000 West 1st St	TCE	1.0	
82	1000 West 1st St	TCE	1.0	
83	1000 West 1st St	TCE	1.0	
84	1000 West 1st St	TCE	1.0	
85	1000 West 1st St	TCE	1.0	
86	1000 West 1st St	TCE	1.0	
87	1000 West 1st St	TCE	1.0	
88	1000 West 1st St	TCE	1.0	
89	1000 West 1st St	TCE	1.0	
90	1000 West 1st St	TCE	1.0	
91	1000 West 1st St	TCE	1.0	
92	1000 West 1st St	TCE	1.0	
93	1000 West 1st St	TCE	1.0	
94	1000 West 1st St	TCE	1.0	
95	1000 West 1st St	TCE	1.0	
96	1000 West 1st St	TCE	1.0	
97	1000 West 1st St	TCE	1.0	
98	1000 West 1st St	TCE	1.0	
99	1000 West 1st St	TCE	1.0	
100	1000 West 1st St	TCE	1.0	

TABLES

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TABLE I

SUMMARY OF RESIDENTIAL WELL DATA EXCEEDING
EPA SUGGESTED NO ADVERSE RESPONSE LEVEL (SNARL)

<u>CONTAMINANT</u>	<u>RESIDENCE</u>	<u>REPORTED CONCENTRATION (ppb)</u>	<u>EPA SNARL (ppb)</u>		
			<u>1 DAY</u>	<u>10 DAY</u>	<u>CHRONIC</u>
trichloroethylene	Garvey 7883 Martin	318	2000	200	75
	Rogers 7880 Martin	260			

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TABLE II

SUMMARY OF RESIDENTIAL WELL DATA

EXCEEDING OR APPROACHING NYSDOH GUIDELINES†

<u>DWELL/LOCATION</u>	<u>CONCENTRATION¹</u>	<u>CONTAMINANT(S)</u>	<u>CRITERIA</u>
arc-O-Machine	560	1,1,1-Trichloroethane	>50 ppb for any
Products	100	1,1,2,2-Tetrachloroethane	single organic and
75 Bragg	68	Tetrachloroethane	>100 ppb combined
Total	728		
Edman			
147 Ideson	49	Trichloroethylene	approaches NYSDOH guideline of 50 ppb
vey	318	Trichloroethylene	>50 ppb for any
883 Martin	89	Trans-1,2-Dichloroethene	single organic and
Total	412*		>100 ppb combined
opkins	80	Trichloroethylene	>50 ppb for any
52 Martin			single organic
ano	46	Trichloroethylene	approaches NYSDOH guideline of 50ppb
146 Ideson			
gers	260	Trichloroethylene	>50 ppb for any
880 Martin	75	Trans-1,2-Dichloroethene	single organic and
Total	335		>100 combined
mith	98	Trichloroethylene	>50 ppb for any
67 Bragg	17	Trans-1,2-Dichloroethene	single organic and
Total	115		>100 combined
llekoop	110	Trichloroethylene	>50 ppb for any
86 Martin	Total 159*		single organic and
			>100 combined
ars	72	Trichloroethylene	> 50 ppb for any
873 Martin			single organic

FOOTNOTES:

- 1 - All concentrations reported in parts per billion
- * - Total concentrations include contaminants that have not been included on this table.
- † - Values used are maximum concentrations observed during June, July and August 1985 sampling.

APPENDICES

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APPENDIX I
RESIDENTIAL WELL SAMPLES RESULTS
FOR NORTH BLOOMFIELD, NEW YORK 1

	SAMPLING	JUNE 19, 1985				JULY 1, 1985				JULY 24, 1985				AUGUST 7, 1985		
	LOCATION (NAME/ADDRESS)	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C
	Boonstra 7859M					20	4	<1	<1							
	Bush 7787M													<1	<1	<1
	Cavalier 7865M					22	2	1	<1							
	Colavito 10701													2	<1	<1
***	Cooper 11211									24	B	1	<1			
**	Enarch-O 1175B	<10	<10	560	<10	8	4	22	<1							
	Endicott 11081													<1	<1	<1
	Freedman 11471									49	B	1	<1			
	Garvey 7883M	290	75	B	<10	318	B9	3	2							
	George 18860													<1	<1	<1
***	Hart 11111									19	5	1	<1			

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A - Trichloroethylene
B - Trans-1,2-Dichloroethane
C - 1,1,1-Trichloroethane
D - 1,2-Dichloroethane
E - Trichloroethylene

B - Bragg Street
BH - Bean Hill Road
I - Ideson Road
M - Martin Road
O - Ontario Road

- * - Indicates that during August 7, 1985 sampling, chloroform was found to be present when using gas chromatograph.
- ** - Indicates that during June 19, 1985 sampling, 1,1,2,2-Tetrachloroethane and Tetrachloroethene were found at concentrations of 100ppb and 60 ppb, respectively.
- *** - Indicates that during July 24, 1985 sampling, 1,1-Dichloroethane was found at a concentration of 1ppb.
- 1 - All concentrations are reported in ppb.

APPENDIX 1 (Continued)

SAMPLING	JUNE 19, 1985				JULY 1, 1985				JULY 24, 1985				AUGUST 7, 1985			
LOCATION (NAME/ADDRESS)	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
Honeoye Creek					<1	<1	2	<1								
Hopkins 7852M					80	4	1	<1								
Horan 1382B									<1	<1	<1	<1				
Johnson 11271									19	3	<1	<1				
Johnson 1820M									31	4	<1	<1				
* Maloy 11161													A	1	<1	
Mantegna 239 O													<1	<1	<1	
Miller 10811									<1	<1	<1	<1				
Reano 11461													46	A	2	
Rogers 7880M	260	75	<10	<10	197	43	2	2								
Sackett 11401													29	5	1	
Saunders 7838M													22	4	<1	

A - Trichloroethylene
 B - Trans-1,2-Dichloroethene
 C - 1,1,1-Trichloroethane
 D - 1,2-Dichloroethane

B - Bragg Street
 BH - Bean Hill Road
 I - Ideson Road
 M - Martin Road
 O - Ontario Road

- * - Indicates that during August 7, 1985 sampling, chloroform was detected when using gas chromatography
- ** - Indicates that during June 19, 1985 sampling, Tetrachloroethane and Tetrachloroethene were found at concentrations of 100 ppb and 68 ppb, respectively.
- *** - Indicates that during July 24, 1985 sampling, 1, 1-Dichloroethane was found at a concentration of 1 ppb.
- 1 - All concentrations are reporting in ppb.

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APPENDIX I (Continued)

SAMPLING		JUNE 19, 1985				JULY 1, 1985				JULY 24, 1985				AUGUST 7, 1985		
LOCATION (NAME/ADDRESS)		A	B	C	D	A	B	C	D	A	B	C	D	A	B	C
Seltzer	7644DH									<1	<1	<1	<1			
Sheliman	1154I													<5	<5	<5
Smith	1110I													<5	<5	<5
Smith	1167B	77	21	1	2	98	17	1	<1							
Swanger	7750M													<1	<1	<1
* Tompkins	1155I													11	1	2
Tondryk	1191B	4	<2	<2	<2	3	<1	<1	<1							
Vellekoop	7886M	110	41	8	<10	92	16	8	<1							
Wagner	1897D									<1	<1	<1	<1			
Yours	7873M					72	19	1	<1							

A - Trichloroethylene
 B - Trans-1,2-Dichloroethene
 C - 1,1,1-Trichloroethane
 D - 1,2-Dichloroethane

B - Bragg Street
 DH - Dean Hill Road
 I - Ideson Road
 M - Martin Road
 O - Ontario Road

* - Indicates that during August 7, 1985 sampling, chloroform was detected when using gas chromatography.
 ** - Indicates that during June 19, 1985 sampling, 1,1,1-Tetrachloroethane and Tetrachloroethene were found at concentrations of 100 ppb and 68 ppb, respectively.
 *** - Indicates that during July 24, 1985 sampling, 1,1-Dichloroethane was found at a concentration of 1 ppb.
 1 - All concentrations are reported in ppb.

(SEE NOTE ON NEXT PAGE)

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NOTE: On November 1, 1985, the NYSDOH forwarded results of their most recent sampling activity. The results of the sampling indicated that no contaminants were found in the drinking water of the following residents:

<u>RESIDENT</u>	<u>ADDRESS</u>
Fessler	7783 Martin Road
Ghostlaw	7808 Martin Road
Slade	7796 Martin Road
Chambers	1091 Ideson Road

APPENDIX II

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APPENDIX II

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Residential Population by Household
to Receive Bottled Water
for North Bloomfield, New York

<u>Residence - Martin Road</u>	<u># in Household</u>
Garvey (7883)	3
Vallekop (7886)	2
Years (7873)	7
Rogers (7880)	2
Cavalier (7865)	2
Hopkins (7852)	2
Boonstra (7859)	2
Saunders (7838)	3
Johnson (7820)	5
Resident (7830)	4 (estimate)
Resident (7829)	4 (estimate)
Fessler (7793)	4 (estimate)
Bush (7887)	4 (estimate)
O'Brien (7801)	4 (estimate)
Swanger (7750)	4 (estimate)
Slade (7796)	4 (estimate)
Chostlaw (7808)	4 (estimate)

<u>Residence - Bragg Street</u>	<u># in Household</u>
Smith (1167)	4
Tondryk (1191)	4

<u>Residence - Ideson Road</u>	<u># in Household</u>
Shellman (1154)	2
Tompkins (1155)	6
Reano (1146)	2

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Residence - Ideson Road# in Household

Freedman	(1147)	2
Sackett	(1140)	1
Johnson	(1129)	3
Cooper	(1121)	4
Maloy	(1116)	1
Colavito	(1090)	4
Hart	(1111)	7
Chambers	(1091)	4 (estimate)
Endicott	(1108)	4 (estimate)
Smith	(1110)	4 (estimate)

Total # in household

116116
26
138Businesses# of Employees

Enarc-O-Machine

65 (From NYS Industry
Directory)Cranes Collision (on Tondryk residence
property)7

Total # in Businesses

72

116 + 7 = 123

Total # in Businesses = 72 @ 1/2 gallon per person = 36 gallons

Total # in Households = 116 @ 1 gallon per person = 116 gallons

Total # of gallons/day 152 gallons

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APPENDIX III

MAYBERRY, LIGHT & GOLDMAN

S. T. 811

40 SOUTH STREET

ROCHESTER NEW YORK 14614-2500

TELEPHONE

FACSIMILE
IN NEW YORK
FAX

October 28, 1985

Mr. Joseph Rotolo, Coordinator
U.S. Environmental Protection Agency
Woodbridge Avenue - Building 209
Edison, New Jersey 08837

Re: Martin Road/Bragg Street
Water Supply Contamination
Town of Lima, Livingston County, N.Y.

Dear Joe:

Enclosed is a preliminary bar chart schedule for the creation of a water district to supply public water to the Martin Road, Bragg Street and Ideson Road areas of the Town of Lima. It was prepared by the Town Consulting Engineer, Larsen Engineers-Architects (Jack Buholtz). The estimate of development and construction timing assumes that the project is being done by the Town of Lima. It projects, optimistically, the beginning of the supplying of water to the affected households in December of 1986.

Unfortunately, without EPA involvement, I doubt that we can meet that schedule. You will note that under items "2" and "3" engineering is expected to start in early November, and has in fact already been begun on a preliminary basis, and the water supply purchase negotiations are expected to occupy the month of November. In this instance, we have two potential suppliers, the Monroe County Water Authority and the City of Rochester, both of which have mains in the immediate vicinity of North Bloomfield. In order to design a system, our engineer will have to be told which source will be the supplier. The engineer will then design to that main. No meaningful final design can be completed until we have that information.

The status of our situation at this time is that the New York State Department of Health has stated in at least two pieces of correspondence that it would approve only the Monroe County Water Authority as a supplier because of water quality. While the City of Rochester disputes that position, and has done so in writing, that decision on the part of the Department of Health

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Joseph Rotolo, Coordinator

October 20, 1981

Page 1

...ould militate in favor of tying to the Water Authority system. The Department of Health would be expected to oppose tying to the City system.

The City has promised to oppose during the approval process the tying to the Water Authority system.

On a local basis, I must make an application for water source approval to the Water Resources Bureau of the New York State Department of Environmental Conservation. Notwithstanding that organization has promised to act expeditiously because of the emergency status in this area, any opposition to the water source application will absorb time and potentially require hearings. The bar chart schedule does not provide for an extended approval process. I do not know whether the depth of feeling on the part of the City and the Department of Health is sufficient to warrant litigation by the losing party. In any case, design will certainly be held up until a final determination of a supplier is made.

What I appear to be currently facing are two emergencies. First, I face the emergency of approximately forty households surviving without potable water. Second, I face the emergency of being a very small pawn in a chess game between larger political entities. As you know, I also am facing the clock running on the HUD grant for the larger project which will supply the Village of Lima from the North Bloomfield area and will resolve its inadequate supply problems. That can't go forward until the North Bloomfield situation is resolved.

In summary, my message to you is: HELP!

Very truly yours,

Richard S. Mayberry
Town Attorney
Town of Lima

BSM:mss

Enc.

cc: See Attached List

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contaminant. Of the residences affected, seven (7) in total, including the three above, exceed the NYSDOH guideline limits for potable water. Homes exceeding EPA 10-day Health Advisory levels and NYSDOH guidelines are presented in Figure 3.

On November 13, 1985, a Maximum Contaminant Level (MCL) of 5 ppb was proposed for trichloroethylene. MCL's are enforceable levels established under the Safe Drinking Water Act which specify acceptable concentration's of volatile organics in public potable water supplies. The MCL is set as close as feasible to the Recommended Maximum Contaminant level (RMCL), a concentration that would result in no known or anticipated health effect. EPA has established an RMCL for trichloroethylene of 0. Of the twenty-two (22) wells that have been found to contain contaminants, nineteen (19) exceed the proposed MCL for trichloroethylene.

In addition to the potential for exposure through drinking or eating food prepared with water, tests have been conducted at Pomona Oaks, New Jersey which show that when showering with water contaminated with volatile organics, the levels of the contaminants in the air become significantly elevated and thus pose an additional hazard by direct contact (skin absorption) and by inhalation.

The presence of several chlorinated hydrocarbons within the groundwater also poses a potential for synergistic toxic effects resulting from exposure to a combination of these compounds.

Due to the nature of the geology in the study area, which consists of shale, vertical and horizontal fractures may result in highly unpredictable contaminant migration. In addition, soil overlying the shale and in the immediate vicinity of Enarc-O-Machine Products (the suspected source of contamination) belongs to the Palmyra fine sandy loam series. Having developed from a parent material of glacial outwash consisting of sand and gravel, this soil is well drained down to the water table or rock. Such characteristics indicate a high potential for contaminant migration.

An attempt to characterize the aquifer would require the installation of monitoring wells and the implementation of a long term sampling plan which, due to time considerations, are beyond the scope of an immediate removal action. Therefore, it is recommended

that all residences within the contaminated area and area at risk be included and connected to the proposed new watermain (See Figure 4).

B. Evidence of Extent of Release

Sampling and analyses performed by NYSDOH and LCDOH have identified an incidence of contaminated groundwater which is quantitatively described in Section II-B.

As presented in Figure 4, the extent of contamination and area at risk includes 33 drinking water wells of which, twenty-two currently have contamination at the tap.

C. Previous Actions to Abate Threat

The NYSDOH and LCDOH have advised residents at public meetings and by letter of the concentrations of contaminants found in their drinking water and recommended that they use bottled water or some alternate supply.

On December 2, 1985, EPA initiated bottled water delivery at residences in the contaminated area and area at risk. This action will continue until a permanent alternate water supply can be provided.

Regional management decisions concerning provision of bottled water to commercial establishments resulted in not supplying Enarc-O-Machine Company or Crane's Collision.

D. Current Actions to Abate Threat

On July 12, 1985, the Town of Lima received a Small Cities Grant from the U.S. Department of Housing and Urban Development (HUD). The purpose of the \$600,000 grant was to interconnect Lima's existing water supply system with that of either the Monroe County Water Authority or the City of Rochester. Presently, the town utilizes two water supply wells that have, over the years, decreased in both quality and yield. As a result of this grant, these wells will eventually be abandoned. The total cost of this project has been estimated to be between 1.4 and 1.7 million dollars.

On February 12, 1986, the Town of Lima and one of the potentially responsible parties in this matter, Enarc-O-Machine Products, Inc., made a proposal to EPA whereby the Town would install water mains and resi-

dential hookups to serve the residents at risk in North Bloomfield with the help of a \$100,000 contribution from Enarc-O. The Town's willingness to undertake this project, however, was contingent upon the outcome of a public referendum regarding the issue of whether a local water district should be created. This referendum was defeated on April 8, 1986. It now appears doubtful, at best, that the Town could install water mains in North Bloomfield in a timely manner.

IV. ENFORCEMENT

EPA's enforcement efforts thus far officially recognize three potentially responsible parties: Enarc-O-Machine Products, Inc., Enarc-o's parent company, Kaddis Manufacturing Corp., and the president of each of those companies, Ronald Iannucci. As noted previously, the highest total concentrations of contaminants found in North Bloomfield thus far have been in the well at Enarc-O's facility. EPA has sent notice letter to Enarc-O, Kaddis Manufacturing and Ronald Iannucci. In response to these letters, the PRP's have denied responsibility for the groundwater contamination in the area and have declined to volunteer to undertake, on their own, either the provision of bottled water to the residents at risk or the installation of water mains. As noted above, Enarc-O has offered to help the Town fund the water main project for North Bloomfield should the Town undertake this project itself. As stated above, however, it does not appear that the Town would be able to install the mains in a timely manner.

V. PROPOSED PROJECT AND COST

A. Objective of the Project

The primary objective of this proposed action is to mitigate the existing threat to public health imposed by contaminants found in the water supply of the residents of North Bloomfield, NY. In order to accomplish this objective, it will be necessary to extend the existing water main and provide hookups to residents in the risk area (Figure 4).

The area of major concern is presented in Figure 5 and consists of 32 residences and one industry that are proposed to be included in this action.

The installation of the main can be accomplished by contracting one of two public water authorities. Both the city of Rochester and the Monroe County Water Authority (MCWA) have existing mains at the site and are both capable of extending their systems through the use of on line contractors.

Until recently, the NYSDOH recommended against using the City of Rochester due to their failure to meet state drinking water requirements for turbidity. However, due to strong opposition from the city and potential delays in the main installation, the NYSDOH requested a meeting between NYSDEC, the Town of Lima, MCWA and the City of Rochester. At the meeting, all parties agreed that the most expeditious solution for resolving the current drinking water contamination problem would be to extend the City of Rochester's system to all affected and potentially affected residents in North Bloomfield. During times when the City of Rochester's water could not meet state standards for turbidity, the Town of Lima would purchase filtered water from the MCWA via a connection on Ontario Street.

A letter from the NYSDOH which summarizes the results of this meeting is presented in Appendix III.

B. Project Estimated Cost

The estimated costs for water distribution system are stated below and include taps, meters, and hookups to all 33 affected and potentially affected dwellings on private wells. In addition to costs provided below, a detailed cost breakdown is provided in Table IV.

The 1700' of 12" pipe included in the project costs is required to allow sufficient flow in the project area while maintaining adequate water pressure during periods when the Monroe County Water Authority is used as a source of potable water. This pipe would be installed on Ideson Rd. to it's intersection with Martin Rd. and then West to the City of Rochester water main.

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Estimated project costs are as follows:

1) Materials - Ref. Page 21	\$170,532
2) Equipment - Ref. Page 21	41,846
3) Labor - - Ref. Page 21	<u>83,354</u>
	\$295,732
4) 20% Contingency of items #1, #2, and #3	<u>59,146</u>
Subtotal (Mitigation Contract Costs)	\$354,878
5) Extramural (TAT) Costs	\$36,000
6) Intramural EPA Costs	<u>\$20,000</u>
Subtotal	\$410,878
7) Other Costs 15% of all above costs	<u>61,632</u>
Total Estimated Project Cost	\$472,510
Monies authorized to date on previous removal action (bottled water)	<u>40,036</u>
TOTAL	<u>\$512,546</u>

C. Project Schedule

The provision of bottled water was approved on November 27, 1985, with the first shipment of water to the residents taking place on December 2, 1985.

Mobilization of equipment and materials for the installation of the water main by the City of Rochester is expected to take 2 weeks. The City has agreed to work with the design previously completed for the North Bloomfield area by the City of Lima's consulting engineers.

Excavation, placement of piping and backfilling is estimated to require 5 months, depending on the extent of rock in the area. Household connections will also be installed during this time period.

The City of Rochester has also proposed to phase the main installation. The first phase would extend the existing main down Martin Road and provide potable water to those residents with the highest concentrations of contaminants. This portion of the work can be completed in approximately 2.5 months.

A prerequisite for the successful completion of the above work will be the prior agreement of each homeowner to pay for their own water.

Consideration was given to installing activated carbon treatment units instead of a water main. However, this option was rejected based on the following reasons:

1. The presence of fractured rock presents a high potential for long term contamination to exist. The high potential for random intermittent releases exists and systems would have to be maintained and operated for an extended period of time.
2. Conditions described above would require the implementation of a long term monitoring program to ensure against breakthrough. In addition to frequent sampling, the provision of costly virgin carbon would be necessary.
3. Without funding by EPA, the state and the county have not agreed to maintain and operate the proposed activated carbon treatment systems beyond the CERCLA six-month time limit. Without a proper maintenance, operation and monitoring program, it is likely that, over an extended period of time, many of the homes would show breakthrough contamination. Prior EPA experience with long term state and county maintenance and operation of such systems has been unsatisfactory (i.e., Olean, NY).
4. The total estimated contracting cost to provide filters and associated sampling for the 32 homes and one industry in question is estimated at \$348,000 (See Appendix V). This cost exceeds the \$295,732 contracting costs for installation of the watermain.

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It appears from the above that the installation of a water main is the most cost effective viable action alternative. It will result in a rapid and permanent solution to drinking water contamination in the North Bloomfield, NY area.

I therefore recommend your approval of the mains extension installation described above to provide a safe supply of drinking water to the residents of the North Bloomfield, NY area.

The estimated cost of this project is \$472,510, of which \$354,878 are for mitigation contracting. Approval would bring the authorized contracting funding to \$386,692 and the total authorized funding to \$512,546.

\$354,878 + \$157,660 =
(b)(4)(D)-(E)

It is understood that pending reauthorization of CERCLA, funding for this project is not now available. Therefore, implementation of this action cannot be started until funds are available. Meanwhile, bottled water will continue to be provided.

Your authority to authorize these funds is pursuant to Deputy Administrator Alvin Alm's April 16, 1984 memorandum, Delegation Number 14-1-A.

Approval:

Christopher A. Degett

Date: JUNE 11, 1986

Disapproval: _____

Date: _____

cc: W. Librizzi, 2ERR
F. Rubel, 2ERR-RP
G. Zachos, 2ERR-RP ✓
S. Luftig, 2ERR-SIC
G. Pavlou, 2ERR-NYCRA
J. Marshall, 2OEP
L. Diamond, 2ORC-SUP
R. Gherardi, 2OPM-FIN
P. McKechnie, 2IG
P. Flynn, PM-214F (EXPRESS MAIL)
T. Fields, WH-548B
H. Longest, WH-548
N. Nosenchuck, NYSDEC

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION II

84

DATE:

10/10/86

SUBJECT: Request for a Ceiling Increase for Removal Activities at North
Bloomfield, Town of Lima, Livingston County, New York

FROM: Joseph D. Rotola, OSC
Response and Prevention Branch

Joseph D. Rotola

TO: Christopher J. Daggett
Regional Administrator

THRU: Stephen D. Luftig, Acting Director
Emergency and Remedial Response Division

Steve Luftig

ISSUE

The intent of this ceiling increase request is to extend bottled water delivery to residents of North Bloomfield, New York, that either have contaminated drinking water or are located in an area at risk. The provision of bottled water will continue until a water main and distribution system is installed.

Although an action memorandum which proposes the installation of the water main was approved on June 11, 1986, construction was delayed due to on-going legal proceedings between EPA and the Potentially Responsible Party (PRP) (Enarc-O-Machine Products), the unavailability of funding, and complications relating to the establishment of a water district in the affected area.

The total authorized funding was increased on June 11, 1986, from \$40,036 for bottled water to \$512,546. This amount included our estimate of funds necessary to install a water main in the affected area as well as our estimate of funds needed to continue to provide bottled water. Due to delays beyond our control, in order to continue bottled water delivery until the water main is installed, a ceiling increase of \$40,454 is necessary. This increase will result in a new total project ceiling of \$553,000 of which \$418,500 will be for mitigation contracting.

BACKGROUND

North Bloomfield is a small residential community located in the north western portion of the Finger Lakes Region of New York State. Past sampling of residential wells in this area has identified an area at risk which includes 32 residences; of which, twenty-two wells are contaminated with varying concentrations of volatile organic compounds. Of these, two exceed EPA's 200 ppb 10-Day Health Advisory for trichloroethylene, five exceed the New York State Department of Health Guideline limits for potable water and two more closely approach that guideline.

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-2-

This problem is compounded by the geology of the area which consists of fractured shale. Vertical and horizontal fractures may result in highly unpredictable contaminant migration.

RESPONSE HISTORY

EPA has been providing bottled water to 32 residences and one commercial establishment since December 2, 1985. Since all legal efforts to date have failed, EPA will initiate removal activities by contracting to the City of Rochester for the installation of the water main and distribution system. To date, \$29,898.12 of the \$40,036 previously authorized for bottled water has been expended.

SUMMARY OF COSTS

A summary of both current and proposed costs are presented below:

	<u>Current Ceiling</u>	<u>Proposed Ceiling</u>
Water main installation (includes: TAT, EPA and mitigation contracting cost	\$472,510	\$472,510
Provision of Bottled Water	<u>40,036</u>	<u>80,072</u>
Total Project Ceiling	<u>\$512,546</u>	<u>\$552,582</u> say \$553,000

RECOMMENDATION

The increase in funding requested in this memorandum will ensure that the affected residents in North Bloomfield will have a source of potable water until a water main is installed and becomes operable. The anticipated completion date of the main installation is November 1987.

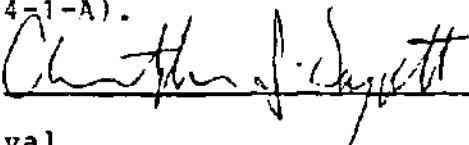
I, therefore, recommend your approval of this ceiling increase of \$40,454. Your approval would raise the total project ceiling for this site from \$512,546 to \$553,000 of which \$418,500 is for mitigation contracting. You may indicate your approval or disapproval by signing below.

84 of 225

-3-

Your authority to authorize these funds is pursuant to Deputy Administrator Alvin Alm's April 16, 1984 memorandum, Delegation Number (4-1-A).

Approval

Date March 16, 1987

Disapproval _____

Date _____

cc: S. Luftig, 2ERR
F. Rubel, 2ERR-RP
B. Sprague, 2ERR-RP
G. Zachos, 2ERR-RP
J. Czapor, 2ERR-SC
J. Marshall, OEP
B. Adler, 2ORC-ARC
R. Gherardi, 2OPM-FIN
P. Flynn, PM-214F (EXPRESS MAIL)
T. Fields, WH-514B
H. Longest, WH-548
N. Nosenchuck, NYSDEC

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SECTION 5

POLLUTION REPORTS

U.S. ENVIRONMENTAL PROTECTION AGENCY

POLLUTION REPORT

DATE: June 18, 1986

Region II

Response and Prevention Branch
Edison, New Jersey 08837

TO: Data Base Manager

C. Daggett, EPA

W. Librizzi, EPA

F. Rubel, EPA

J. Marshall, EPA

J. Czapor, EPA

G. Pavlou, EPA

N. Nosenchuck, EPA

R. Tramontano, NYSDOH

E. Schaaf, EPA

ERD, Washington (Data-gram)

NRC

TAT

201-321-6656 Office (FTS 340-6656)
201-548-8730 24-Hour Emergency (Also FTS)

POLREP NO.: One (1) (Phase II)
SITE NAME: North Bloomfield, NY
SITE #: L9

POLLUTANT: Volatile Organics

CLASSIFICATION: Major

SOURCE: Potentially Responsible Party

LOCATION: North Bloomfield, Town of Lima, Livingston County, NY

1. SITUATION:

A. On November 11, 1985, the Director of the Emergency and Remedial Response Division authorized a removal action which proposed to provide bottled water to 32 residences in North Bloomfield, NY. Drinking water wells in this area were found to be contaminated with varying concentrations of volatile organic compounds. Bottled water delivery began on December 2, 1986. 1985 ✓

B. On June 2, 1986, the Regional Administrator authorized a request for an exemption from the six month limit on CERCLA removal actions. Presently, bottled water delivery has been extended to December 30, 1986. (A)

C. On June 11, 1986, the Regional Administrator authorized a CERCLA removal action which proposes to install a water main in the affected area and area at risk. However, this action is contingent upon CERCLA reauthorization and the availability of funding. ✓

2. ACTION TAKEN:

A. Bottled water is being delivered to 32 residences on a weekly basis.

B. The Town of Lima has initiated activities necessary to establish a water district in the North Bloomfield area. This district will consist of only the residences in the affected area and area at risk.

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- C. EPA is presently working with local officials on the establishment of a contracting mechanism for construction activities.

3. FINANCIAL ACCOUNTING:

A. Total Projected Ceiling Authorized	\$40,036.
B. Total Funds Authorized for Mitigation Contracts	\$31,814.
C. Estimate of Total Expenditures to Date For an Mitigation Contract DCN# KCS-305	\$13,670.
D. Unobligated Balance Remaining for Contract Mitigation.	\$18,144.
E. Other Extramural Cost	
1. TAT Expenditures (Salary and Travel) thru 6/2/86)	\$585.07
F. Intramural Removal Costs	Not Available
G. Total Expenditures (D, F, G)	\$14,255.00
H. Percent of Ceiling	35.6%

4. FUTURE PLANS AND RECOMMENDATIONS:

- A. The OSC will maintain contact with local and state officials while a water district is being established.
- B. Actual construction awaits reauthorization of CERCLA.

FINAL POLREP _____ Further POLREPS FORTHCOMING X
(TAT)

Submitted by:

Joseph Rotola
Joseph Rotola, OSC
Response and Prevention Branch

June 25, 1986
Date Released

88 of 225

U.S. ENVIRONMENTAL PROTECTION AGENCY

POLLUTION REPORT

DATE: August 20, 1986

Region II

Response and Prevention Branch
Edison, New Jersey 08837

TO: Data Base Manager

C. Daggett, EPA
J. Marshall, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Czapor, EPA
G. Pavlou, EPA
E. Schaaf, EPA
N. Nosenchuck, NYSDEC
ERD, Washington (Data-gram)
R. Tramontano, NYSDOH
TAT

201-321-6656 Office (FTS 340-6656)
201-548-8730 24-Hour Emergency (Also FTS)

POLREP NO.: Two (2) Phase II
INCIDENT/SITE NO.: North Bloomfield, N.Y.
POLLUTANT: Volatile Organics
CLASSIFICATION: Major
SITE/SPILL NO.: L9
SOURCE: Potentially Responsible Party
LOCATION: North Bloomfield, Town of Lima, Livingston County, NY

1. SITUATION:

- A. On June 2, 1986, the Regional Administrator authorized a request for an exemption from the six month limit for the CERCLA removal action which was providing bottled water to residents in North Bloomfield, New York. Presently bottled water delivery has been extended to December 30, 1986.
- B. On June 11, 1986, the Regional Administrator authorized a CERCLA removal action which proposes to install a water main in the affected area and area at risk. However, this action is contingent upon CERCLA reauthorization and the availability of funding.

2. ACTION TAKEN:

- A. Bottled water is being delivered to 32 residences on a weekly basis.
- B. The Town of Lima has initiated activities necessary to establish a water district in the North Bloomfield area. This district will consist of only the residences in the affected area and area at risk.
- C. Insurance companies of The potentially responsible party are presently discussing the possibility of funding the installation of the water main in the affected area.

- C. EPA is presently working with local officials on the establishment of a contracting mechanism for construction activities.

7
3. FINANCIAL ACCOUNTING:

A. Total Project Ceiling Authorized	\$ 40,036.00
B. Total Funds Authorized for Mitigation Contracts	\$ 31,814.00
C. Estimate of Total Expenditures to Date for Mitigation Contract DCN# KCS-305	\$ 17,170.00
D. Unobligated Balance Remaining for Contract Mitigation.	\$ 14,644.00
E. Other Extramural Cost	\$ 722.95
F. Intramural Removal Costs	\$ 2,429.00
G. Total Expenditures (D, E, F)	\$ 17,795.95
H. Percent of Ceiling	44.4%

4. FUTURE PLANS AND RECOMMENDATIONS:

- A. The OSC will maintain contact with local and state officials while a water district is being established.
- B. Actual construction awaits reauthorization of CERCLA.

FURTHER
POLREPS
FINAL POLREP _____, FORTHCOMING X

SUBMITTED BY

Joseph Rotola
OSC

Joseph Rotola, OSC
Response & Prevention Branch

DATE OSC RELEASED:

8/23/86

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: July 7, 1987

Region II

Response & Prevention Branch
Edison, NJ 08837

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
ERD, Washington,
(E-Mail)
W. Mugdan, EPA
W. Andrews, EPA
N. Nosenchuck, NYSDEC
D. Axelrod, NYSDOH
TAT

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

POLREP NO.: Four (4) Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATION: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima,
Livingston County, New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION:

A. On November 11, 1985, the Director of the Emergency and Remedial Response Division authorized a removal action which proposed to provide bottled water to 32 residences in North Bloomfield, N.Y. Drinking water wells in this area were found to be contaminated with varying concentrations of volatile organic compounds. Bottled water delivery began on December 2, 1985.

B. On June 11, 1986, the Regional Administrator authorized a CERCLA removal action which proposes to install a water main in the affected area and area at risk. However, this action is contingent upon CERCLA authorization and the availability of funding.

2. ACTION TAKEN:

A. Bottled water is being delivered to 32 residences on a weekly basis.

B. On June 4, 1987, EPA executed a letter contract with the City of Rochester to install a water main in the affected area.

C. On June 25, 1987, EPA held a meeting with the personnel from the City of Rochester Water Works and discussed scheduling and planning for the installation of the water main in the affected area. EPA also visited the site.

D. On June 29, 1987, the City of Rochester initiated construction preparation for the water main at the site.

3. FUTURE PLANS AND RECOMMENDATIONS:

A. Bottled water will continue to be provided by the EPA to affected homes until the homes in the risk area are connected to the City of Rochester water supply system.

B. The ERCS contractors will provide a command post for EPA personnel at the site.

4. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 512,546
B. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	354,878
C. Funds Authorized for Bottled Water Delivery (O.H. Materials) DCN #KCS-305	31,814
D. Total Funds Authorized for all Mitigation Contracts	386,692
1.a. Estimated Expenditures for delivery of bottled water as of 06/30/87	29,000
1.b. Balance Remaining	1,814
E. Estimated Total Expenditures to Date for All Mitigation Contracts as of 06/30/87	29,000
F. Extramural Costs	
1. TAT Salary/Travel as of 06/30/87	723
G. Intramural Costs (Estimated)	
1. EPA Salary/Travel as of 06/30/87	5,200

H. Total Expenditures as
of 06/30/87 and %
of 1 million

\$ 34,923
(3.49% 1M)

I. Percentage of Total Project
Ceiling

6.81%

FINAL POLREP _____ FURTHER
POLREPS
FORTHCOMING X SUBMITTED BY _____
(TAT) C. Agnihotri, OSC
Response & Prevention
Branch

Date Released _____

U.S. ENVIRONMENTAL PROTECTION AGENCY

POLLUTION REPORT

DATE: July 20, 1987

Region II
Response and Prevention Branch
Edison, New Jersey 08837

201-548-8730 - Commercial & FTS
24-Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
B. Adler, EPA
W. Andrews, EPA
N. Nosenchuck, NYSDEC
D. Axelrod, NYSDOH
ERD, Washington WH-548B
TAT

POLREP NO.: Five (5) Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATION: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye Falls,
Livingston/Monroe County, New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION:

- A. On November 11, 1985, the Director of the Emergency and Remedial Response Division authorized a removal action which proposed to provide bottled water to 32 residences in North Bloomfield, New York. Drinking water wells in this area were found to be contaminated with varying concentrations of volatile organic compounds. Bottled water delivery began on December 2, 1985.
- B. On June 11, 1986, the Regional Administrator authorized a CERCLA removal action which proposed to install a water main in the affected area and area at risk.
- C. Over the past year, the installation of the water main has been delayed due to the unavailability of CERCLA funds, the towns difficulty in establishing a water district, and attempts to reach settlement with a suspected potentially responsible party.

2. ACTION TAKEN:

- A. Bottled water is being delivered to 32 residences on a weekly basis.
- B. The City of Rochester Water Works mobilized construction equipment and other materials (main pipes, hydrants, valves, etc) at the site.
- C. On July 13, 1987, the City of Rochester Water Works (RWW), a contractor to USEPA, commenced installation of a water main at the site. A tapping into the existing water main was initiated by the contractor.
- D. A tapping into the City of Rochester's existing water main was completed on July 14, 1987.

E. On July 15, 1987, the RWW contractor initiated preparation for the installation of a water meter vault and a bypass system.

F. A precast concrete meter vault and a bypass system was completed on July 16, 1987.

G. The ERCS contractor provided a command post on July 16, 1987.

3. FUTURE PLANS AND RECOMMENDATIONS:

A. Bottled water will continue to be provided by the EPA to affected homes until the homes in the risk area are connected to the City of Rochester water supply system.

B. The RWW contractor will continue to install a water main according to the scope of work outlined in the contract.

4. FINANCIAL ACCOUNTING:

A. Total Project Ceiling Authorized	\$ 553,000
B. Funds Authorized for Mitigation Contracts (City of Rochester Water Works) for Water Main Installation	\$ 418,500
C. Funds Authorized for Bottled Water Delivery (O.H. Materials) DCN #KCS-305	\$ 47,720
D. Total Funds Authorized for all Mitigation Contracts	\$ 466,220
E. Estimated Total Expenditures for all mitigation contracts thru 07/17/87	\$ 52,000
1a. Estimated expenditures for delivery of bottled water as of 07/17/87	\$ 32,000
1b. Balance remaining for ERCS Contract Cost	\$ 15,720
2a. RWW Contract Cost for Water Main Installation as of 07/17/87	\$ 20,000
2b. Balance Remaining for RWW Contract Cost	\$ 398,500
F. EPA Extramural Costs	
1. Total Authorized	\$ 36,000
2. Estimated Expenditures as of 07/17/87	\$ 3,700
3. Estimated Balance	\$ 32,300
G. EPA Intramural Costs (Estimated)	
1. Total Authorized	\$ 20,000
2. Estimated Expenditures as of 07/17/87	\$ 7,200
3. Estimated Balance	\$ 12,800

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H. Other Costs Authorized	\$ 30,780
I. Total Expenditures as of 07/17/87 and percentage of \$ 1 Million	\$ 62,900 6.29%
J. Percentage of Ceiling	11.3%

FINAL FURTHER
POLREP POLREPS
FORTHCOMING X SUBMITTED BY: C.B. Agnihotri
Chaitanya B. Agnihotri, On-Scene Coordinator
Response and Prevention Branch

DATE: 7/21/87

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: July 24, 1987

Region II
Response & Prevention Branch
Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
ERD, Washington,
(E-Mail)
B. Alder, EPA
W. Andrews, EPA
N. Nosenchuck, NYSDEC
D. Axelrod, NYSDOH
TAT

POLREP NO.: Six (6) Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATION: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye Falls
Livingston/Monroe County, New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

A. Situation remains the same as described in POLREP Number Five, Phase II.

B. Bottled water is being delivered to 32 residences in the affected area on a weekly basis.

C. On July 17, 1987, the City Of Rochester Water Works (RWW), a contractor to U.S. EPA, initiated water main installation in the westerly direction on Martin road from the City of Rochester's existing water main.

D. The RWW contractor completed installing 481 feet of water main by July 22, 1987 up to Mr. Swanger's residence at #7750 Martin Road. The water main was extended for 30 feet beyond #7750 Martin Road and then blinded as a provision for future water supply to additional homes in the westerly direction on Martin Road.

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E. An installation of water main in an easterly direction on Martin Road from the City of Rochester's existing water main was initiated on July 23, 1987. A total of 223 feet of water main was installed by July 24, 1987.

F. All the pipe line trenches have been backfilled and leveled with soil and gravel.

G. EPA/TAT command post trailer though locked, was found broken in with telephone equipment missing. Also, an unsuccessful attempt was made to break into the RWW's command post trailer. The County Sheriff was contacted regarding this matter.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. Bottled water will continue to be provided by the EPA to affected homes until the homes in the risk area are connected to the City of Rochester water supply system.

B. The RWW contractor will continue to install a water main according to the scope of work outlined in the contract.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 553,000
B. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	418,500
C. Funds Authorized for Bottled Water Delivery (O.H. Materials) DCN #KCS-305	47,720
D. Total Funds Authorized for all Mitigation Contracts	466,220
E. Estimated Total Expenditures For All Mitigation Contracts thru 07/24/87	70,000
1a. Estimated expenditures for delivery of bottled water as of 07/24/87 DCN# KCS-305	34,000
1b. Balance remaining for ERCS Contract Cost	13,720
2a. RWW Contract Cost For Water Main Installation as of 07/24/87	36,000

2b. Balance remaining for RWW Contract Cost	382,500
F. EPA Extramural Costs (Estimated)	
1. Total Authorized	36,000
2. Estimated Expenditures as of 07/24/87	6,300
3. Estimated Balance	29,700
G. EPA Intramural Costs (Estimated)	
1. Total Authorized	20,000
2. Estimated Expenditures as of 07/24/87	8,000
3. Estimated Balance	12,000
H. Other Costs Authorized	30,780
I. Total Expenditures As Of 07/24/87 and % of 1 Million	84,300 (8.43% 1M)
J. Percentage of Total Project Ceiling	15.2%

FINAL POLREP _____ FURTHER
 POLREPS
 FORTHCOMING X SUBMITTED BY C. Agnihotri 8/78)
 (TAT) C. Agnihotri, OSC
 Response & Prevention
 Branch

Date Released _____

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: August 3, 1987

Region II
Response & Prevention Branch
Edison, NJ 08837

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
ERD, Washington,
(E-Mail)
B. Alder, EPA
W. Andrews, EPA
N. Nosenchuck, NYSDEC
D. Axelrod, NYSDOH
TAT

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

POLREP NO.: Seven (7) Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATION: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye Falls
Livingston/Monroe County, New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

A. Situation remains the same as described in POLREP Number Six, Phase II.

B. Bottled water is being delivered to 32 residences in the affected area on a weekly basis.

C. The City of Rochester Water Works (RWW), a contractor to U.S. EPA, continued to install the water main in an easterly direction on Martin Road from the City of Rochester's existing water main. The RWW contractor has installed a total of 1100 feet of water main as of July 31, 1987.

D. Service connections were tapped into the water main and extended to the curb of the 7801 and 7808 Martin road.

E. Two fire hydrants have been installed along Martin Road as of July 31, 1987.

F. All the pipe line trenches have been backfilled and leveled with soil and gravel.

G. Test borings were conducted along Ideson Road every 50 feet in order to determine soil conditions. At some locations rocks were encountered at a depth of 2 to 3 feet.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. Bottled water will continue to be provided by the EPA to affected homes until the homes in the risk area are connected to the City of Rochester water supply system.

B. The RWW contractor will continue to install a water main according to the scope of work outlined in the contract.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 553,000
B. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	418,500
C. Funds Authorized for Bottled Water Delivery (O.H. Materials) DCN #KCS-305	47,720
D. Total Funds Authorized for all Mitigation Contracts	466,220
E. Estimated Total Expenditures For All Mitigation Contracts thru 07/31/87	84,200
1a. Estimated expenditures for delivery of bottled water as of 07/31/87 DCN# KCS-305	36,000
1b. Balance remaining for ERCS Contract Cost	11,720
2a. RWW Contract Cost For Water Main Installation as of 07/31/87	48,200
2b. Balance remaining For RWW Contract Cost	370,300

F. EPA Extramural Costs (Estimated)

1. Total Authorized	36,000
2. Estimated Expenditures as of 07/31/87	8,300
3. Estimated Balance	27,700

G. EPA Intramural Costs (Estimated)

1. Total Authorized	20,000
2. Estimated Expenditures as of 07/31/87	9,000
3. Estimated Balance	11,000

H. Other Costs Authorized 30,780

I. Total Expenditures As 101,500
Of 07/31/87 and % of (10.1% 1M)
1 Million

J. Percentage of Total Project Ceiling 18.3%

FINAL POLREP _____ FURTHER
POLREPS
FORTHCOMING X SUBMITTED BY C. Agnihotri 8/4/87
(TAT) C. Agnihotri, OSC
Response & Prevention
Branch

Date Released _____

Desai

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: August 10, 1987

Region II

Response & Prevention Branch
Edison, NJ 08837

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
ERD, Washington,
(E-Mail)
B. Alder, EPA
W. Andrews, EPA
N. Nosenchuck, NYSDEC
D. Axelrod, NYSDOH

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

~~DATE~~

POLREP NO.: Eight (8) Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATION: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye Falls
Livingston/Monroe County, New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

- A. Situation remains the same as described in POLREP Number Seven. Phase II.
- B. Bottled water is being delivered to 32 residences in the affected area on a weekly basis.
- C. The City of Rochester Water Works (RWW), a contractor to U.S. EPA, continued to install the water main on Ideson Road.
- D. As of August 7, 1987, the RWW contractor has installed a total of 1700 feet of water main in the affected area.
- E. A total of seven (7) service connections; five (5) along Martin Road, and two (2) along Ideson Road, have been tapped into the water main as of August 7, 1987.
- F. A total of four (4) fire hydrants; three (3) along Martin Road, and one (1) along Ideson Road, have been installed as of August 7, 1987.

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G. The RWW Engineer located and measured the footage for laying service lines from the curb boxes to each house. This data will be used for preparing and obtaining bids for the service connections subcontract.

H. All the pipe line trenches have been backfilled and leveled with soil and gravel.

I. Additional test borings were conducted along Ideson Road at 50 foot increments in order to determine soil conditions.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. Bottled water will continue to be provided by the EPA to affected homes until the homes in the risk area are connected to the City of Rochester water supply system.

B. The RWW contractor will continue to install the water main according to the scope of work outlined in the contract.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 553,000
B. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	418,500
C. Funds Authorized for Bottled Water Delivery (O.H. Materials) DCN #KCS-305	47,720
D. Total Funds Authorized for all Mitigation Contracts	466,220
E. Estimated Total Expenditures For All Mitigation Contracts thru 08/07/87	99,500
1a. Estimated expenditures for delivery of bottled water as of 08/07/87 DCN# KCS-305	38,000
1b. Balance remaining for ERCS Contract Cost	9,720
2a. RWW Contract Cost For Water Main Installation as of 08/07/87	61,500

2b. Balance remaining For 357,000
RWW Contract Cost

F. EPA Extramural Costs (Estimated)

1. Total Authorized	36,000
2. Estimated Expenditures as of 08/07/87	10,300
3. Estimated Balance	25,700

G. EPA Intramural Costs (Estimated)

1. Total Authorized	20,000
2. Estimated Expenditures as of 08/07/87	11,000
3. Estimated Balance	9,000

H. Other Costs Authorized 30,780

I. Total Expenditures As 120,800
Of 08/07/87 and % of (12.1% 1M)
1 Million

J. Percentage of Total Project 21.8%
Ceiling

FINAL POLREP _____ FURTHER
(TAT) POLREPS FORTHCOMING X SUBMITTED BY C. Agnihotri
C. Agnihotri, OSC
Response & Prevention
Branch

Date Released 8/10/87

Rec. 26 Oct. 8 1987 J.R.

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: August 17, 1987

Region II
Response & Prevention Branch
Edison, NJ 08837

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
ERD, Washington,
(E-Mail)
B. Alder, EPA
W. Andrews, EPA
N. Nosenchuck, NYSDEC
D. Axelrod, NYSDOH
TAT

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

POLREP NO.: Nine (9) Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATION: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye Falls
Livingston/Monroe County, New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

A. Situation remains the same as described in POLREP Number Eight, Phase II.

B. Bottled water is being delivered to 32 residences in the affected area on a weekly basis.

C. The City of Rochester Water Works (RWW), a contractor to U.S. EPA, continued to install the water main on Martin Road.

D. As of August 14, 1987, the RWW contractor has installed a total of 2400 feet of water main in the affected area.

E. A total of ten (10) service connections; eight (8) along Martin Road, and two (2) along Ideson Road, have been tapped into the water main as of August 14, 1987.

F. A total of five (5) fire hydrants; four (4) along Martin Road, and one (1) along Ideson Road, have been installed as of August 14, 1987.

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G. The RWW contractor took steps necessary to control the dirt and dust generated by the required excavation and construction.

H. All the pipe line trenches have been backfilled and leveled with soil and gravel.

I. Temporary asphalt was utilized to improve street conditions along Martin Road in locations disturbed by water main installation.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. Bottled water will continue to be provided by the EPA to affected homes until they are connected to the City of Rochester water supply system.

B. The RWW contractor will commence installation of the water main along Bragg Road, and continue to install the water main according to the scope of work outlined in the contract.

C. The RWW contractor will provide equipment necessary to reestablish the grade along Martin and Ideson Roads.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 553,000
B. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	418,500
C. Funds Authorized for Bottled Water Delivery (O.H. Materials) DCN #KCS-305	47,720
D. Total Funds Authorized for all Mitigation Contracts	466,220
E. Estimated Total Expenditures For All Mitigation Contracts thru 08/14/87	115,500
1a. Estimated expenditures for delivery of bottled water as of 08/14/87 DCN# KCS-305	40,000
1b. Balance remaining for ERCS Contract Cost	7,720

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2a. RWW Contract Cost For Water Main Installation as of 08/14/87	75,500
2b. Balance remaining For RWW Contract Cost	343,000
F. EPA Extramural Costs (Estimated)	
1. Total Authorized	36,000
2. Estimated Expenditures as of 08/14/87	12,300
3. Estimated Balance	23,700
G. EPA Intramural Costs (Estimated)	
1. Total Authorized	20,000
2. Estimated Expenditures as of 08/14/87	13,000
3. Estimated Balance	7,000
H. Other Costs Authorized	30,780
I. Total Expenditures As Of 08/14/87 and % of 2 Million	140,800 (7.0% 2M)
J. Percentage of Total Project Ceiling	25.5%

FINAL POLREP _____ FURTHER POLREPS FORTHCOMING X SUBMITTED BY C. Aguihorri, OSE For
 (TAT) Response & Prevention Branch

Date Released _____

108 of 225

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: August 17, 1987

Region II
Response & Prevention Branch
Edison, NJ 08837

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
ERD, Washington,
(E-Mail)
B. Alder, EPA
W. Andrews, EPA
N. Nosenchuck, NYSDEC
D. Axelrod, NYSDOH
TAT

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

POLREP NO.: Nine (9) Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATION: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye Falls
Livingston/Monroe County, New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

A. Situation remains the same as described in POLREP Number Eight, Phase II.

B. Bottled water is being delivered to 32 residences in the affected area on a weekly basis.

C. The City of Rochester Water Works (RWW), a contractor to U.S. EPA, continued to install the water main on Martin Road.

D. As of August 14, 1987, the RWW contractor has installed a total of 2400 feet of water main in the affected area.

E. A total of ten (10) service connections; eight (8) along Martin Road, and two (2) along Ideson Road, have been tapped into the water main as of August 14, 1987.

F. A total of five (5) fire hydrants; four (4) along Martin Road, and one (1) along Ideson Road, have been installed as of August 14, 1987.

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G. The RWW contractor took steps necessary to control the dirt and dust generated by the required excavation and construction.

H. All the pipe line trenches have been backfilled and leveled with soil and gravel.

I. Temporary asphalt was utilized to improve street conditions along Martin Road in locations disturbed by water main installation.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. Bottled water will continue to be provided by the EPA to affected homes until they are connected to the City of Rochester water supply system.

B. The RWW contractor will commence installation of the water main along Bragg Road, and continue to install the water main according to the scope of work outlined in the contract.

C. The RWW contractor will provide equipment necessary to reestablish the grade along Martin and Ideson Roads.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 553,000
B. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	418,500
C. Funds Authorized for Bottled Water Delivery (O.H. Materials) DCN #KCS-305	47,720
D. Total Funds Authorized for all Mitigation Contracts	466,220
E. Estimated Total Expenditures For All Mitigation Contracts thru 08/14/87	115,500
1a. Estimated expenditures for delivery of bottled water as of 08/14/87 DCN# KCS-305	40,000
1b. Balance remaining for ERCS Contract Cost	7,720

2a. RWW Contract Cost For Water Main Installation as of 08/14/87	75,500
2b. Balance remaining For RWW Contract Cost	343,000
F. EPA Extramural Costs (Estimated)	
1. Total Authorized	36,000
2. Estimated Expenditures as of 08/14/87	12,300
3. Estimated Balance	23,700
G. EPA Intramural Costs (Estimated)	
1. Total Authorized	20,000
2. Estimated Expenditures as of 08/14/87	13,000
3. Estimated Balance	7,000
H. Other Costs Authorized	30,780
I. Total Expenditures As Of 08/14/87 and % of 2 Million	140,800 (7.0% 2M)
J. Percentage of Total Project Ceiling	25.5%

FINAL POLREP _____ FURTHER
 (TAT) POLREPS FORTHCOMING X SUBMITTED BY _____
 C. Agnihotri, OSC
 Response & Prevention
 Branch

Date Released _____

Desai

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: August 24, 1987

Region II

Response & Prevention Branch

Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
ERD, Washington,
(E-Mail)
B. Alder, EPA
W. Andrews, EPA
N. Nosenchuck, NYSDEC
D. Axelrod, NYSDOH

POLREP NO.: Ten (10) Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATION: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye Falls
Livingston/Monroe County, New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

A. Situation remains the same as described in POLREP Number Nine, Phase II.

B. Bottled water is being delivered to 32 residences in the affected area on a weekly basis.

C. The City of Rochester Water Works (RWW), a contractor to U.S. EPA, continued to install the water main on Bragg Road.

D. As of August 21, 1987, the RWW contractor has installed a total of 3,000 feet of water main in the affected area.

E. A total of twelve (12) service connections; eight (8) along Martin Road, two (2) along Ideson Road, and two (2) along Bragg Road have been tapped into the water main as of August 21, 1987.

F. A total of six (6) fire hydrants; four (4) along Martin Road, one (1) along Ideson Road, and one (1) along Bragg Road have been installed as of August 21, 1987.

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G. The RWW contractor installed a "T" Mechanical Joint at the intersection of Martin Road and Bragg Road.

H. All trenches excavated for water main installation are backfilled and leveled with soil and gravel on a daily basis.

I. Temporary asphalt was utilized to improve street conditions along Martin Road in locations disturbed by water main installation.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. Bottled water will continue to be provided by the EPA to affected homes until they are connected to the City of Rochester water supply system.

B. The RWW contractor will complete installation of the water main along Bragg Road, and continue to install the water main according to the scope of work outlined in the contract.

C. The RWW contractor will provide equipment necessary to reestablish the grade along Martin and Ideson Roads.

D. The RWW contractor will test the effectiveness of existing equipment by extricating test trenches along Ideson Road to explore the changing soil and suspected bedrock conditions.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 553,000
B. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	418,500
C. Funds Authorized for Bottled Water Delivery (O.H. Materials) DCN #KCS-305	47,720
D. Total Funds Authorized for all Mitigation Contracts	466,220
E. Estimated Total Expenditures For All Mitigation Contracts thru 08/21/87	138,000
1a. Estimated expenditures for delivery of bottled water as of 08/21/87 DCN# KCS-305	42,000

1b. Balance remaining for ERCS Contract Cost	5,720
2a. RWW Contract Cost For Water Main Installation as of 08/21/87	96,000
2b. Balance remaining For RWW Contract Cost	322.500
F. EPA Extramural Costs (Estimated)	
1. Total Authorized	36,000
2. Estimated Expenditures as of 08/21/87	15,000
3. Estimated Balance	21,000
G. EPA Intramural Costs (Estimated)	
1. Total Authorized	20,000
2. Estimated Expenditures as of 08/21/87	13,200
3. Estimated Balance	6,800
H. Other Costs Authorized	30,780
I. Total Expenditures As Of 08/21/87 and % of 2 Million	166,200 (8.3% 2M)
J. Percentage of Total Project Ceiling	30.0%

FINAL POLREP _____ FURTHER POLREPS FORTHCOMING ☒ SUBMITTED BY *[Signature]* FOR
 (TAT) C. Agniberti OSC
 Response & Prevention Branch

Date Released _____

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: August 31, 1987

Region II
Response & Prevention Branch
Edison, NJ 08837

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
ERD, Washington,
(E-Mail)
B. Alder, EPA
W. Andrews, EPA
N. Nosenchuck, NYSDEC
D. Axelrod, NYSDOH
TAT

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

POLREP NO.: Eleven (11) Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATION: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye Falls
Livingston/Monroe County, New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

A. Situation remains the same as described in POLREP Number Ten, Phase II.

B. Bottled water is being delivered to 32 residences in the affected area on a weekly basis.

C. The City of Rochester Water Works (RWW), a contractor to U.S. EPA, completed installing the water main on Bragg Street.

D. As of August 28, 1987, the RWW contractor has installed a total of 3,400 feet of water main in the affected area.

E. A total of fourteen (14) service connections; eight (8) along Martin Road, four (4) along Ideson Road, and two (2) along Bragg Street have been tapped into the water main as of August 28, 1987.

F. A total of six (6) fire hydrants; four (4) along Martin Road, one (1) along Ideson Road, and one (1) along Bragg Street have been installed as of August 28, 1987.

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G. All trenches excavated for water main installation are backfilled and leveled with soil and gravel on a daily basis.

H. The RWW Contractor installed 280' of water main along Ideson Road incorporating an 8 mm polycase tubing.

This encasement will provide additional protection from potential chemical corrosion by existing soil conditions along Ideson Road.

I. Exploration trenches along Ideson Road exposed a regional flat lying dolomitic limestone. The depth of this rock varied from 2'-5' with dip along the approximate 700 remaining feet.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. Bottled water will continue to be provided by the EPA to affected homes until they are connected to the City of Rochester water supply system.

B. The RWW contractor will resume installation of the water main along Martin Road and continue to install the water main according to the scope of work outlined in the contract.

C. The RWW contractor will provide equipment necessary to reestablish the grade along Martin and Ideson Roads.

D. The RWW contractor will solicit subcontractors to prepare and submit bids for the disruption and removal of the limestone encountered during test trench excavations along Ideson Road.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 553,000
B. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	418,500
C. Funds Authorized for Bottled Water Delivery (O.H. Materials) DCN #KCS-305	47,720
D. Total Funds Authorized for all Mitigation Contracts	466,220
E. Estimated Total Expenditures For All Mitigation Contracts thru 08/28/87	152,000

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1a. Estimated expenditures for delivery of bottled water as of 08/28/87 DCN# KCS-305	44,000
1b. Balance remaining for ERCS Contract Cost	3,720
2a. RWW Contract Cost For Water Main Installation as of 08/28/87	108,000
2b. Balance remaining For RWW Contract Cost	310,500
F. EPA Extramural Costs (Estimated)	
1. Total Authorized	36,000
2. Estimated Expenditures as of 08/28/87	17,000
3. Estimated Balance	19,000
G. EPA Intramural Costs (Estimated)	
1. Total Authorized	20,000
2. Estimated Expenditures as of 08/28/87	15,000
3. Estimated Balance	5,000
H. Other Costs Authorized	30,780
I. Total Expenditures As Of 08/28/87 and % of 2 Million	184,000 (9.2% 2M)
J. Percentage of Total Project Ceiling	33.3%

FINAL POLREP _____ FURTHER POLREPS FORTHCOMING ☒ SUBMITTED BY _____
 (TAT)

[Signature]
 G. Agnietri, OSC
 Response & Prevention
 Branch

Date Released _____

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S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: August 31, 1987

Region II

Response & Prevention Branch
Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
ERD, Washington,
(E-Mail)
B. Alder, EPA
W. Andrews, EPA
N. Nosenchuck, NYSDEC
D. Axelrod, NYSDOH
TAT

POLREP NO.: Eleven (11) Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATION: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye Falls
Livingston/Monroe County, New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

A. Situation remains the same as described in POLREP Number Ten, Phase II.

B. Bottled water is being delivered to 32 residences in the affected area on a weekly basis.

C. The City of Rochester Water Works (RWW), a contractor to U.S. EPA, completed installing the water main on Bragg Street.

D. As of August 28, 1987, the RWW contractor has installed a total of 3,400 feet of water main in the affected area.

E. A total of fourteen (14) service connections; eight (8) along Martin Road, four (4) along Ideson Road, and two (2) along Bragg Street have been tapped into the water main as of August 28, 1987.

F. A total of six (6) fire hydrants; four (4) along Martin Road, one (1) along Ideson Road, and one (1) along Bragg Street have been installed as of August 28, 1987.

G. All trenches excavated for water main installation are backfilled and leveled with soil and gravel on a daily basis.

H. The RWW Contractor installed 280' of water main along Ideson Road incorporating an 8 mm polycase tubing.

This encasement will provide additional protection from potential chemical corrosion by existing soil conditions along Ideson Road.

I. Exploration trenches along Ideson Road exposed a regional flat lying dolomitic limestone. The depth of this rock varied from 2'-5' with dip along the approximate 700 remaining feet.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. Bottled water will continue to be provided by the EPA to affected homes until they are connected to the City of Rochester water supply system.

B. The RWW contractor will resume installation of the water main along Martin Road and continue to install the water main according to the scope of work outlined in the contract.

C. The RWW contractor will provide equipment necessary to reestablish the grade along Martin and Ideson Roads.

D. The RWW contractor will solicit subcontractors to prepare and submit bids for the disruption and removal of the limestone encountered during test trench excavations along Ideson Road.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 553,000
B. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	418,500
C. Funds Authorized for Bottled Water Delivery (O.H. Materials) DCN #KCS-305	47,720
D. Total Funds Authorized for all Mitigation Contracts	466,220
E. Estimated Total Expenditures For All Mitigation Contracts thru 08/28/87	152,000

1a. Estimated expenditures for delivery of bottled water as of 08/28/87 DCN# KCS-305	44,000
1b. Balance remaining for ERCS Contract Cost	3,720
2a. RWV Contract Cost For Water Main Installation as of 08/28/87	108,000
2b. Balance remaining For RWV Contract Cost	310,500
F. EPA Extramural Costs (Estimated)	
1. Total Authorized	36,000
2. Estimated Expenditures as of 08/28/87	17,000
3. Estimated Balance	19,000
G. EPA Intramural Costs (Estimated)	
1. Total Authorized	20,000
2. Estimated Expenditures as of 08/28/87	15,000
3. Estimated Balance	5,000
H. Other Costs Authorized	30,780.
I. Total Expenditures As Of 08/28/87 and % of 2 Million	184,000 (9.2% 2M)
J. Percentage of Total Project Ceiling	33.3%

FINAL POLREP _____ FURTHER POLREPS FORTHCOMING X SUBMITTED BY *[Signature]* FOR
 (TAT) C. Agnietty, OSC
 Response & Prevention Branch

Date Released _____

U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

Region II
Response & Prevention Branch
Edison, NJ 08837

DATE: September 8, 1987

(201) 548-8730- Commercial and FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapot, EPA
ERD, Washington,
(E-Mail)
B. Alder, EPA
W. Andrews, EPA
N. Nosenchuck, NYSDEC
D. Axelrod, NYSDOH
TAT ✓

POLREP NO.: Twelve (12) Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATION: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye Falls
Livingston/Monroe County, New York
AMOUNT: Unknown
WATER BODY: Groundwater

I. SITUATION/ACTION TAKEN:

A. Situation remains the same as described in POLREP
Number Eleven, Phase II.

B. Bottled water is being delivered to 32 residences
in the affected area on a weekly basis.

C. As of September 8, 1987, the RWW contractor has installed
a total of 3,550 feet of water main in the affected area.

D. A total of seventeen (17) service connections; ten (10)
along Martin Road, five (5) along Ideson Road, and two (2)
along Bragg Street have been tapped into the water main as of
September 8, 1987.

E. A total of six (6) fire hydrants; four (4) along Martin Road,
one (1) along Ideson Road, and one (1) along Bragg Street have
been installed as of September 8, 1987.

F. All trenches excavated for water main installation are
backfilled and leveled with soil and gravel on a daily basis.

C. Exploration trenches along Martin Road exposed a regional flat lying dolomitic limestone at a depth of five (5) feet.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. Bottled water will continue to be provided by the EPA to affected homes until they are connected to the City of Rochester water supply system.

B. The RWV contractor will resume installation of the water main along Martin Road and continue to install the water main according to the scope of work outlined in the contract.

C. The RWV contractor will provide equipment necessary to reestablish the grade along Martin and Ideson Roads.

D. The RWV contractor will use a "Hoe-Ram" in conjunction with existing equipment to attempt to fracture and remove the rock encountered along Martin Road.

E. The RWV contractor will solicit subcontractors to prepare and submit bids for the disruption and removal of the limestone encountered during test trench excavations along Ideson Road.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 553,000
B. Funds Authorized for Mitigation Contracts (City of Rochester Water Works) for Water Main Installation	418,500
C. Funds Authorized for Bottled Water Delivery (O.H. Materials) DCN #KCS-305	47,720
D. Total Funds Authorized for all Mitigation Contracts	466,220
E. Estimated Total Expenditures For All Mitigation Contracts thru 09/08/87	164,000
1a. Estimated expenditures for delivery of bottled water as of 09/08/87 DCN# KCS-305	46,000
1b. Balance remaining for ERCS Contract Cost	1,720
2a. RWV Contract Cost For Water Main Installation as of 09/08/87	118,000
2b. Balance remaining For RWV Contract Cost	300,500

F. EPA Extramural Costs (Estimated)

1. Total Authorized	36,000
2. Estimated Expenditures as of 09/08/87	19,200
3. Estimated Balance	16,800

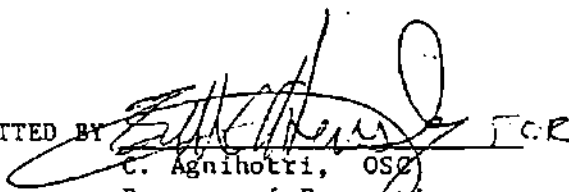
G. EPA Intramural Costs (Estimated)

1. Total Authorized	20,000
2. Estimated Expenditures as of 09/08/87	16,000
3. Estimated Balance	4,000

H. Other Costs Authorized 30,780

I. Total Expenditures As
Of 09/08/87 and % of 199,200
2 Million (9.96% 2M)

J. Percentage of Total Project
Ceiling 36.0%

FINAL POLREP _____ FURTHER
(TAT) POLREPS FORTHCOMING ☒ SUBMITTED BY  ICR
C. Agnihotri, OS2
Response & Prevention
Branch

Date Released _____

U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

Region II
Response & Prevention Branch
Edison, NJ 08837

DATE: September 14, 1987

(201) 548-8730- Commercial and FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
ERD, Washington,
(E-Mail)
B. Alder, EPA
W. Andrews, EPA
N. Nosenchuck, NYSDEC
D. Axelrod, NYSDOH
TAT

POLREP NO.: Thirteen (13) Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATION: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye Falls
Livingston/Monroe County, New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

A. Situation remains the same as described in POLREP
Number Twelve, Phase II.

B. Bottled water is being delivered to 32 residences in the
affected area on a weekly basis.

C. As of September 11, 1987, the RWW contractor has installed a
total of 3570 feet of water main in the affected area.

D. A total of nineteen (19) service connections; twelve (12) along
Martin Road, five (5) along Ideson Road, and two (2) along
Bragg Street have been tapped into the water main as of
September 11, 1987.

E. A total of six (6) fire hydrants; four (4) along Martin Road,
one (1) along Ideson Road, and one (1) along Bragg Street have
been installed as of September 11, 1987.

F. All trenches excavated for water main installation are
backfilled, compacted, and leveled with soil and gravel on a
daily basis.

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G. Demonstration of a hydraulic impact hammer, "HOE-RAM", with an impact energy of 2000 ft.lbs/2710 n.m. proved ineffective in the attempt to sufficiently fracture & remove the rock encountered along Ideson & Martin Road.

2. FUTURE PLANS AND RECOMMENDATIONS:

- A. Bottled water will continue to be provided by the EPA to affected homes until they are connected to the city of Rochester water supply system.
- B. The RWV contractor will provide equipment necessary to reestablish the grade along Martin and Ideson Roads.
- C. The RWV contractor will modify the meter vault on Martin Road to initiate testing of the water main previously installed. This would permit the RWV contractor to expedite the availability of a potable water supply to approximately 80% of the affected homes. Work will continue in areas where the presence of rock has hindered the progress of water main installation.
- D. The RWV contractor will continue to solicit alternatives for the disruption and removal of the rock encountered during test trench excavations along Ideson & Martin Roads.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 553,000
B. Funds Authorized for Mitigation Contracts (City of Rochester Water Works) for Water Main Installation	418,500
C. Funds Authorized for Bottled Water Delivery (O.H. Materials) DCN #KCS-305	47,720
D. Total Funds Authorized for all Mitigation Contracts	466,220
E. Estimated Total Expenditures For All Mitigation Contracts thru 09/11/87	215,000
1a. Estimated expenditures for delivery of bottled water as of 09/11/87 DCN #KCS-305	47,000
1b. Balance remaining for ERCS Contract Cost	720
2a. RWV Contract Cost For Water Main Installation as of 09/11/87	168,000
2b. Balance remaining for RWV Contract Cost	250,000

125 of 225

F. EPA Extramural Costs (Estimated)

- | | |
|--|--------|
| 1. Total Authorized | 36,000 |
| 2. Estimated Expenditures
as of 09/11/87. | 21,000 |
| 3. Estimated Balance | 15,000 |

G. EPA Intramural Costs (Estimated)

- | | |
|---|--------|
| 1. Total Authorized | 20,000 |
| 2. Estimated Expenditures
as of 09/11/87 | 17,500 |
| 3. Estimated Balance | 2,500 |

H. Other Costs Authorized

- | | |
|---|---------------------|
| I. Total Expenditures As
Of 09/11/87 and % of
2 Million | 253,500
(12.67%) |
|---|---------------------|

J. Percentage of Total Project Ceiling

FINAL POLREP FURTHER
POLREPS
FORTHCOMING x SUBMITTED BY

B. Hensley, OSC
Response & Prevention
Branch

Date Released

U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

Region II
Response & Prevention Branch
Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

DATE: September 21, 1987

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
ERD, Washington,
(E-Mail)
B. Alder, EPA
W. Andrews, EPA
N. Nosenchuck, NYSDEC
D. Axelrod, NYSDOH
TAT

POLREP NO.: Fourteen (14) Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATIONS: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye Falls
Livingston/Monroe County, New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

A. Situation remains the same as described in POLREP Number Thirteen (13).

B. Bottled water is being delivered to 32 residences in the affected area on a weekly basis.

C. As of September 18, 1987, the RWW contractor has installed a total of 3,750 feet of water main in the affected area.

D. A total of twenty service connections; thirteen (13) along Martin Road, five (5) along Ideson Road, and two (2) along Bragg Street have been tapped into the water main as of September 18, 1987.

E. A total of seven (7) fire hydrants; five (5) along Martin Road, one (1) along Ideson Road, and one (1) along Bragg Street have been installed as of September 18, 1987.

F. All trenches excavated for water main installation are backfilled, compacted, and leveled with soil and gravel on a daily basis.

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G. Bids have been submitted by the subcontractors to the City of Rochester Water Works for hook up services to 32 homes.

H. A portion (\$ 12,072) of the other monies authorized (\$ 72,072) pertaining to item H contained in the financial accounting was distributed between EPA Intramural & Extramural costs.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. Bottled water will continue to be provided by the EPA to affected homes until they are connected to the City of Rochester water supply system.

B. The RWW contractor will provide equipment necessary to reestablish the grade along Martin and Ideson Roads.

C. The RWW contractor will modify the meter vault on Martin Road to initiate testing of water main previously installed. This would permit the RWW contractor to expedite the availability of a potable water supply to approximately 80% of the affected homes. Work will continue in areas where the presence of rocks has hindered the progress of water main installation.

D. The RWW contractor will continue to solicit alternatives for the disruption and removal of the rock encountered during test trench excavations along Ideson Road.

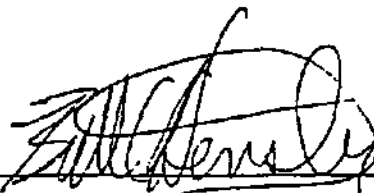
3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 553,000
B. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	354,878
C. Funds Authorized for Bottled Water Delivery (O.H. Materials) DCN #KCS-305	63,627
D. Total Funds Authorized for all Mitigation Contracts	418,505
E. Estimated Total Expenditures For All Mitigation Contracts thru 09/18/87	225,500
1a. Estimated expenditures for delivery of bottled water as of 09/18/87 DCN# KCS-305	47,500
1b. Balance remaining for ERCS Contract Cost	16,127

2a.	RWW Contract Cost For Water Main Installation as of 09/18/87	178,000
2b.	Balance remaining for RWW Contract Cost	176,878
F.	EPA Extramural (TAT) Costs (Estimated)	
1.	Total Authorized	41,072
2.	Estimated Expenditures as of 09/18/87	22,500
3.	Estimated Balance	18,572
G.	EPA Intramural Costs (Estimated)	
1.	Total Authorized	33,000
2.	Estimated Expenditures as of 09/18/87	12,072
3.	Estimated Balance	13,500
H.	Other Costs Authorized (Contingency)	
1.	Total Authorized	72,072
2.	Estimated Expenditures as of 09/18/87	12,072
3.	Estimated Balance	60,000
I.	Total Expenditures As Of 09/18/87 and % of 2 Million	267,500 (13.37%)
J.	Percentage of Total Project Ceiling	48.4%

FINAL POLREP _____ FURTHER
POLREPS
FORTHCOMING x SUBMITTED BY

(TAT)


B. Hensley, OSG
Response & Prevention
Branch

Date Released 22 SEPT 87

U.S. ENVIRONMENTAL PROTECTION AGENCY. REGION II

POLLUTION REPORT

DATE: September 28, 1987

Region II

Response & Prevention Branch
Edison, NJ 08837

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
ERD. Washington,
(E-Mail)
B. Alder, EPA
W. Andrews, EPA
N. Nosenchuck, NYSDEC
D. Axelrod, NYSDOH
TAT

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

POLREP NO.: Fifteen (15) Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATION: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye Falls
Livingston/Monroe County, New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

A. Situation remains the same as described in POLREP Number Fourteen (14).

B. Bottled water is being delivered to 32 residences in the affected area on a weekly basis.

C. As of September 25, 1987, the RWW contractor has installed a total of 3,800 feet of water main in the affected area.

D. A total of twenty two (22) curb boxes previously referred as service connections; fifteen (15) along Martin Road, five (5) along Ideson Road, and two (2) along Bragg Street have been tapped into the water main as of September 25, 1987.

E. A total of seven (7) fire hydrants; five (5) along Martin Road, one (1) along Ideson Road, and one (1) along Bragg Street have been installed as of September 25, 1987.

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F. All trenches excavated for water main installation are backfilled, compacted, and leveled with soil and gravel on a daily basis.

G. The RWW contractor flushed the water main installed along Martin Road and Bragg Street at a pressure of 45 psi. A leak of 0.03 gpm was detected from the unidentified section of the water main.

H. The RWW contractor conducted pressure test of the water main installed along Bragg Street at a pressure of 150 psi. No leak was detected in this section of the water main.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. Bottled water will continue to be provided by the EPA to affected homes until they are connected to the City of Rochester water supply system.

B. The RWW contractor will provide equipment necessary to reestablish the grade along Martin and Ideson Roads.

C. The RWW contractor will modify the meter vault on Martin Road to initiate testing of the water main previously installed. This would permit the RWW contractor to expedite the availability of a potable water supply to approximately 80% of the affected homes. Work will continue in areas where the presence of rocks has hindered the progress of water main installation.

D. The RWW contractor will continue to solicit alternatives for the disruption and removal of the rock encountered during test trench excavations along Ideson Road.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 553,000
B. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	354,878
C. Funds Authorized for Bottled Water Delivery (O.H. Materials) DCN #KCS-305	63,627
D. Total Funds Authorized for all Mitigation Contracts	418,505

E.	Estimated Total Expenditures For All Mitigation Contracts thru 09/25/87	236.000
1a.	Estimated expenditures for delivery of bottled water as of 09/25/87 DCN# KCS-305	48,000
1b.	Balance remaining for ERCS Contract Cost	15,627
2a.	RWW Contract Cost For Water Main Installation as of 09/25/87	188,000
2b.	Balance remaining For RWW Contract Cost	166,878
F.	EPA Extramural (IAT) Costs (Estimated)	
1.	Total Authorized	41,072
2.	Estimated Expenditures as of 09/25/87	24,500
3.	Estimated Balance	16,572..
G.	EPA Intramural Costs (Estimated)	
1.	Total Authorized	33,000
2.	Estimated Expenditures as of 09/25/87	20,000
3.	Estimated Balance	13,000
H.	Other Costs (Contingency)	
1.	Total Authorized	72,072
2.	Estimated Expenditures as of 09/25/87	12,072
3.	Estimated Balance	60,000
I.	Total Expenditures As Of 09/25/87 and % of 2 Million	280,500 (14.02%)
J.	Percentage of Total Project Ceiling	50.72%

FURTHER
POLREPS
FINAL POLREP _____ FORTHCOMING X SUBMITTED BY D.H. Jordan, for
(TAT) B. Hensley, OSC
Response & Prevention
Branch

Date Released Sept. 29, 1987

Disai

U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: October 5, 1987

Region II

Response & Prevention Branch
Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
J. Rotola, EPA
ERD, Washington,
(E-Mail)
W. Andrews, EPA
E. Sullivan, NYSDEC
D. Axelrod, NYSDOH
TAT

POLREP NO.: Sixteen (16), Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATIONS: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye
Falls, Livingston/Monroe County,
New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

A. Situation remains the same as described in POLREP Number Fifteen (15).

B. Bottled water is being delivered to 32 residences in the affected area on a weekly basis.

C. As of October 3, 1987, the RWV contractor has installed a total of 3,800 feet of water main in the affected area.

D. A total of twenty five (25) curb boxes (previously referenced as service connections), eighteen (18) along Martin Road, five (5) along Ideson Road and two (2) along Bragg Street have been tapped into the water main as of October 3, 1987.

E. Estimated Total Expenditures For All Mitigation Contracts thru 10/3/87	236,000
1a. Estimated expenditures for delivery of bottled water as of 10/3/87 DCN #KCS-305	48,500
1b. Balance remaining for ERCS Contract Cost	15,127
2a. RWW Contract Cost For Water Main Installation as of 10/3/87	193,000
2b. Balance remaining For RWW Contract Cost	161,878
F. EPA Extramural (TAT) Costs (Estimated)	
1. Total Authorized	41,072
2. Estimated Expenditures as of 10/3/87	27,500
3. Estimated Balance	13,572
G. EPA Intramural Costs (Estimated)	
1. Total Authorized	33,000
2. Estimated Expenditures as of 10/3/87	22,400
3. Estimated Balance	10,600
H. Other Costs Authorized (Contingency)	
1. Total Authorized	72,072
2. Estimated Expenditures as of 10/3/87	12,072
3. Estimated Balance	60,000
I. Total Expenditures As Of 10/3/87 and % of 2 Million	291,400 (14.57%)
J. Percentage of Total Project Ceiling	52.69%

E. A total of seven (7) fire hydrants, five (5) along Martin Road, one (1) along Ideson Road and one (1) along Bragg Street have been installed as of October 3, 1987.

F. A total of three (3) leaks were found at the mechanical joints in the water main installed along Martin Road. These leaks were eliminated by Rochester Water Works (RWW). However, additional leaks still exist which have not been identified by RWW.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. Bottled water will continue to be provided by the EPA to affected homes until they are connected to the City of Rochester water supply system.

B. RWW will provide equipment necessary to reestablish the grade along Martin and Ideson Roads.

C. RWW will continue to monitor and eliminate the leaks, until they fall within the allowable limit by code.

D. RWW will be choosing rock cutting subcontractor, for cutting out the bedrock encountered along Ideson Road. They expect to pick this subcontractor within the week beginning 11 October 1987.

E. RWW's subcontractor will mobilize for the installation of the service connections to homes immediately upon the approval, of RWW, to begin work. They expect to have the contractor mobilize by 19 October 1987.

F. RWW plans to have both subcontractors, for rock and service connections, work simultaneously in order to accelerate the project completion date.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 553,000
B. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	354,878
C. Funds Authorized for Bottled Water Delivery (O. H. Materials) DCN #KCS-305	63,627
D. Total Funds Authorized for all Mitigation Contracts	418,505

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FURTHER
POLREFS X
FINAL POLREP _____ FORTHCOMING _____ SUBMITTED BY *E. J. Makarewicz*
E. Makarewicz, OSC
CTAD) Response and
Prevention Branch

Date Released 8 Oct. 1987

U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: October 5, 1987

Region II
Response & Prevention Branch
Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
J. Rotola, EPA
ERD, Washington,
(E-Mail)
W. Andrews, EPA
E. Sullivan, NYSDEC
D. Axelrod, NYSDOH
TAT

POLREP NO.: Sixteen, (16), Phase II
INCIDENT/SITE NO.: North Elbowfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATIONS: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye
Falls, Livingston/Monroe County,
New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

- A. Situation remains the same as described in POLREP Number Fifteen (15).
- B. Bottled water is being delivered to 32 residences in the affected area on a weekly basis.
- C. As of October 3, 1987, the RMW contractor has installed a total of 3,800 feet of water main in the affected area.
- D. A total of twenty five (25) curb boxes (previously referenced as service connections), eighteen (18) along Martin Road, five (5) along Ideson Road and two (2) along Bragg Street have been tapped into the water main as of October 3, 1987.

E. A total of seven (7) fire hydrants, five (5) along Martin Road, one (1) along Ideson Road and one (1) along Bragg Street have been installed as of October 3, 1987.

F. A total of three (3) leaks were found at the mechanical joints in the water main installed along Martin Road. These leaks were eliminated by Rochester Water Works (RWW). However, additional leaks still exist which have not been identified by RWW.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. Bottled water will continue to be provided by the EPA to affected homes until they are connected to the City of Rochester water supply system.

B. RWW will provide equipment necessary to reestablish the grade along Martin and Ideson Roads.

C. RWW will continue to monitor and eliminate the leaks, until they fall within the allowable limit by code.

D. RWW will be choosing rock cutting subcontractor, for cutting out the bedrock encountered along Ideson Road. They expect to pick this subcontractor within the week beginning 11 October 1987.

E. RWW's subcontractor will mobilize for the installation of the service connections to homes immediately upon the approval, of RWW, to begin work. They expect to have the contractor mobilize by 19 October 1987.

F. RWW plans to have both subcontractors, for rock and service connections, work simultaneously in order to accelerate the project completion date.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 553,000
B. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	354,878
C. Funds Authorized for Bottled Water Delivery (D. H. Materials) DCN #KCS-305	63,627
D. Total Funds Authorized for all Mitigation Contracts	418,505

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E.	Estimated Total Expenditures For All Mitigation Contracts thru 10/3/87	236,000
1a.	Estimated expenditures for delivery of bottled water as of 10/3/87 DCN HKCS-303	48,500
1b.	Balance remaining for ERCS Contract Cost	15,127
2a.	RWW Contract Cost For Water Main Installation as of 10/3/87	193,000
2b.	Balance remaining For RWW Contract Cost	161,878
F.	EPA Extramural (TAT) Costs (Estimated)	
1.	Total Authorized	41,072
2.	Estimated Expenditures as of 10/3/87	27,500
3.	Estimated Balance	13,572
G.	EPA Intramural Costs (Estimated)	
1.	Total Authorized	33,000
2.	Estimated Expenditures as of 10/3/87	22,400
3.	Estimated Balance	10,600
H.	Other Costs Authorized (Contingency)	
1.	Total Authorized	72,072
2.	Estimated Expenditures as of 10/3/87	12,072
3.	Estimated Balance	60,000
I.	Total Expenditures As Of 10/3/87 and % of 2 Million	291,400 (14.57%)
J.	Percentage of Total Project Ceiling	52.69%

FURTHER
POLREP'S X
FINAL POLREP _____ FORTHCOMING _____
(EAT)

SUBMITTED BY *E. J. Maherewicz*
E. Maherewicz, OSC
Response and
Prevention Branch

Date Released 8 Oct. 1987

Desai

U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: October 10, 1987

Region II
Response & Prevention Branch
Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapora, EPA
J. Rotola, EPA
ERD, Washington,
(E-Mail)
W. Andrews, EPA
E. Sullivan, NYSDC
D. Axelrod, NYSDOH
TAT

POLREP NO.: Seventeen (17), Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATIONS: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye
Falls, Livingston/Monroe County,
New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

A. Situation remains the same as described in POLREP Number Sixteen (16).

B. Bottled water is being delivered to 32 residences in the affected area on a weekly basis.

C. As of October 10, 1987, the RWW contractor has installed a total of 3,800 feet of water main in the affected area.

D. A total of twenty five (25) curb boxes, eighteen (18) along Martin Road, five (5) along Ideson Road and two (2) along Bragg Street have been tapped into the water main as of October 10, 1987.

E. A total of seven (7) fire hydrants, five (5) along Martin Road, one (1) along Ideson Road and one (1) along Bragg Street have been installed as of October 10, 1987.

142 of 225

F. All leaks found previously in the water main were eliminated by RWW.

G. The 3800 feet of installed water main has been chlorinated by RWW.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. Bottled water will continue to be provided by the EPA to affected homes until they are connected to the City of Rochester water supply system.

B. RWW will provide equipment necessary to reestablish the grade along Martin and Ideson Roads.

C. RWW will be renting a rock cutting machine, for removal of the bedrock encountered along Ideson Road. They expect to arrange for this rental within the week beginning 11 October 1987.

D. RWW's subcontractor will mobilize for the installation of the service connections to homes immediately upon the approval, of RWW, to begin work. They expect to have the contractor mobilize by 19 October 1987.

E. RWW plans to have both subcontractors, for rock and service connections, work simultaneously in order to accelerate the project completion date.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized \$ 553,000

B. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation 354,878

C. Funds Authorized for Bottled Water Delivery (O. H. Materials) DCN #KCS-305 53,627

D. Total Funds Authorized for all Mitigation Contracts 418,505

E. Estimated Total Expenditures For All Mitigation Contracts thru 10/10/87 247,000

1a. Estimated expenditures for delivery of bottled water as of 10/10/87 DCN #KCS-305 49,000

1b. Balance remaining for ERCS Contract Cost 14,627

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2a. RWW Contract Cost For Water
Main Installation as of
10/10/87

198,000

2b. Balance remaining For RWW
Contract Cost

156,878

F. EPA Extramural (TAT) Costs (Estimated)

1. Total Authorized

41,072

2. Estimated Expenditures as of
10/10/87

29,500

3. Estimated Balance

11,572

G. EPA Intramural Costs (Estimated)

1. Total Authorized

33,000

2. Estimated Expenditures
as of 10/10/87

23,800

3. Estimated Balance

9,200

H. Other Costs Authorized (Contingency)

1. Total Authorized

72,072

2. Estimated Expenditures as of
10/10/87

12,072

3. Estimated Balance

60,000

I. Total Expenditures As Of
10/10/87 and % of 2 Million

300,300
(15.01%)

J. Percentage of Total Project
Ceiling

54.30%

FURTHER

POLREPS

X

FORTHCOMING

SUBMITTED BY

E. Makarewicz OSC

Response and
Prevention Branch

Date Released 14 Oct. 1987

144 of 225

U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: October 10, 1987

Region II
Response & Prevention Branch
Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
J. Rotola, EPA
ERD, Washington,
(E-Mail)
W. Andrews, EPA
E. Sullivan, NYSDEC
D. Axelrod, NYSDOH
TAT

POLREP NO.: Seventeen (17), Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATIONS: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye
Falls, Livingston/Monroe County,
New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

A. Situation remains the same as described in POLREP Number Sixteen (16).

B. Bottled water is being delivered to 32 residences in the affected area on a weekly basis.

C. As of October 10, 1987, the RWW contractor has installed a total of 3,800 feet of water main in the affected area.

D. A total of twenty five (25) curb boxes, eighteen (18) along Martin Road, five (5) along Ideson Road and two (2) along Bragg Street have been tapped into the water main as of October 10, 1987.

E. A total of seven (7) fire hydrants, five (5) along Martin Road, one (1) along Ideson Road and one (1) along Bragg Street have been installed as of October 10, 1987. 145 of 225

F. All leaks found previously in the water main were eliminated by RWW.

G. The 3800 feet of installed water main has been chlorinated by RWW.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. Bottled water will continue to be provided by the EPA to affected homes until they are connected to the City of Rochester water supply system.

B. RWW will provide equipment necessary to reestablish the grade along Martin and Ideson Roads.

C. RWW will be renting a rock cutting machine, for removal of the bedrock encountered along Ideson Road. They expect to arrange for this rental within the week beginning 11 October 1987.

D. RWW's subcontractor will mobilize for the installation of the service connections to homes immediately upon the approval, of RWW, to begin work. They expect to have the contractor mobilize by 19 October 1987.

E. RWW plans to have both subcontractors, for rock and service connections, work simultaneously in order to accelerate the project completion date.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 553,000
B. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	354,878
C. Funds Authorized for Bottled Water Delivery (O. H. Materials) DCN #KCS-305	63,627
D. Total Funds Authorized for all Mitigation Contracts	418,505
E. Estimated Total Expenditures For All Mitigation Contracts thru 10/10/87	247,000
1a. Estimated expenditures for delivery of bottled water as of 10/10/87 DCN #KCS-305	49,000
1b. Balance remaining for ERCS Contract Cost	14,627

146 of 225

2a.	RWW Contract Cost For Water Main Installation as of 10/10/87	198,000
2b.	Balance remaining For RWW Contract Cost	156,878
F.	EPA Extramural (TAT) Costs (Estimated)	
1.	Total Authorized	41,072
2.	Estimated Expenditures as of 10/10/87	29,500
3.	Estimated Balance	11,572
G.	EPA Intramural Costs (Estimated)	
1.	Total Authorized	33,000
2.	Estimated Expenditures as of 10/10/87	23,800
3.	Estimated Balance	9,200
H.	Other Costs Authorized (Contingency)	
1.	Total Authorized	72,072
2.	Estimated Expenditures as of 10/10/87	12,072
3.	Estimated Balance	60,000
I.	Total Expenditures As Of 10/10/87 and % of 2 Million	300,300 (15.01%)
J.	Percentage of Total Project Ceiling	54.30%

FINAL POLREP _____ FURTHER FOLREPS _____ X _____ SUBMITTED BY *E. J. Makarewicz*
 (TAT) _____ FORTHCOMING _____ E. Makarewicz, OSC
 Response and Prevention Branch

Date Released 14 Oct. 1987

147 of 225

U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: October 17, 1987

Region II
Response & Prevention Branch
Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
J. Rotola, EPA
ERD, Washington,
(E-Mail)
W. Andrews, EPA
E. Sullivan, NYSDEC
D. Axelrod, NYSDOH
TAT

POLREP NO.: Eighteen (18), Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATIONS: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye
Falls, Livingston/Monroe County,
New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

A. Situation remains the same as described in POLREP Number Seventeen (17).

B. Bottled water is being delivered to 32 residences in the affected area on a weekly basis.

C. As of October 17, 1987, the RWW contractor has installed a total of 3,820 feet of water main in the affected area.

D. A total of twenty seven (27) curb boxes, eighteen (18) along Martin Road, seven (7) along Ideson Road and two (2) along Bragg Street have been tapped into the water main as of October 17, 1987.

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2a.	RWW Contract Cost For Water Main Installation as of 10/17/87	201,410
2b.	Subcontractor cost to install service connections	121,860 *
2c.	Balance remaining for RWW Contract cost	31,608
F.	EPA Extramural (TAT) Costs (Estimated)	
1.	Total Authorized	41,072
2.	Estimated Expenditures as of 10/17/87	32,000
3.	Estimated Balance	9,072
G.	EPA Intramural Costs (Estimated)	
1.	Total Authorized	33,000
2.	Estimated Expenditures as of 10/17/87	25,200
3.	Estimated Balance	7,800
H.	Other Costs Authorized (Contingency)	
1.	Total Authorized	72,072
2.	Estimated Expenditures as of 10/17/87	12,072
3.	Estimated Balance	60,000
I.	Total Expenditures As Of 10/17/87 and % of 2 Million	429,970 (21.5%)
J.	Percentage of Total Project Ceiling	77.75%

FURTHER
 POLREPS ☒ X
 FINAL POLREP _____ FORTHCOMING _____ SUBMITTED BY *E. J. Makarewicz*
 (TAT) _____ E. Makarewicz, USC
 Response and
 Prevention Branch

Date Released 21 Oct. 1987 149 of 225

* RWW billed \$121,860, for installing service connections, on the 2 Oct. 87 Daily Report. EPA received this Daily Report on 19 Oct. 87.

U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: October 24, 1987

Region II
Response & Prevention Branch
Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
J. Rotola, EPA
ERD, Washington,
(E-Mail)
W. Andrews, EPA
E. Sullivan, NYSDEC
D. Axelrod, NYSDOH
TAT

POLREP NO.: Nineteen (19), Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATIONS: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye
Falls, Livingston/Monroe County,
New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

A. Situation remains the same as described in POLREP Number Eighteen (18).

B. Bottled water is being delivered to 32 residences in the affected area on a weekly basis.

C. As of October 24, 1987, the RWW contractor has installed a total of 3,820 feet of water main in the affected area.

D. A total of twenty eight (28) curb boxes, eighteen (18) along Martin Road, eight (8) along Ideson Road and two (2) along Bragg Street have been tapped into the water main as of October 24, 1987.

1a.	RWW Contract Cost For Water Main Installation as of 10/24/87	211,410
1b.	RWW's Subcontractor cost to install service connections	121,860 *
E.	Balance remaining for RWW Contract Cost	21,608
F.	Funds Authorized for Bottled Water Delivery ERCS (O. H. Materials) DCN #KCS-305	63,627
G.	Estimated Total Expenditures For ERCS (O. H. Materials) Contract thru 10/24/87	
1a.	Estimated ERCS (O. H. Materials) expenditures for delivery of bottled water as of 10/24/87, DCN #KCS-305	49,950
1b.	Balance remaining for ERCS (O. H. Materials) Contract Cost	13,677
H.	EPA Intramural Costs (Estimated)	
1.	Total Authorized	33,000
2.	Estimated Expenditures as of 10/24/87	27,600
3.	Estimated Balance	5,400
I.	EPA Extramural (TAT) Costs (Estimated)	
1.	Total Authorized	41,072
2.	Estimated Expenditures as of 10/24/87	34,500
3.	Estimated Balance	6,572
J.	Other Costs Authorized (Contingency)	
1.	Total Authorized	72,072
2.	Estimated Expenditures as of 10/24/87	12,072
3.	Estimated Balance	60,000
K.	Total Expenditures As Of 10/24/87 and % of 2 Million	445,320 (22.27%)

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L. Percentage of Total Project
Ceiling

80.53%

FURTHER
POLREPS X
FINAL POLREP _____ FORTHCOMING _____ SUBMITTED BY *E. J. Makarowicz*
(TAT) E. Makarowicz, OSC
Response and
Prevention Branch

Date Released 26 Oct. 1987

* RWW billed \$121,860, for installing service connections,
on the 2 Oct. 87 Daily Report. EPA received this Daily
Report on 19 Oct. 87.

U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: October 31, 1987

Region II
Response & Prevention Branch
Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
J. Rotola, EPA
ERD, Washington,
(E-Mail)
W. Andrews, EPA
E. Sullivan, NYSDEC
D. Axelrod, NYSDOH
TAT

POLREP NO.: Twenty (20), Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATIONS: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye
Falls, Livingston/Monroe County,
New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

- A. Situation remains the same as described in POLREP Number Nineteen (19).
- B. Bottled water is being delivered to 32 residences in the affected area on a weekly basis.
- C. As of October 31, 1987, the RWW contractor has installed a total of 3,820 feet of water main in the affected area.
- D. A total of twenty eight (28) curb boxes, eighteen (18) along Martin Road, eight (8) along Ideson Road and two (2) along Bragg Street have been tapped into the water main as of October 31, 1987.

E. A total of seven (7) fire hydrants, five (5) along Martin Road, one (1) along Ideson Road and one (1) along Bragg Street have been installed as of October 31, 1987.

F. The City of Rochester Division of Street Maintenance (DSM) continued pavement restoration work along Bragg Street and Martin Road, as necessary.

G. R. P. Myers, Inc., RWW's subcontractor, began service connections and hook ups to residences along Martin Road on October 29, 1987. As of October 30, 1987, Myers has installed service connections to two (2) residences.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. Bottled water will continue to be provided by the EPA to affected homes until they are connected to the City of Rochester water supply system.

B. RWW may not have a rock cutting machine rented, and on site, for at least one (1) month, from the 19 Oct. 87; due to their bid preparation, advertising and awarding procedures. However, at a meeting between EPA and RWW, at Rochester City Hall on 22 Oct. 1987, Charles Zettek, (Purchasing Agent for the City of Rochester), said the rock cutting machine may be on site as early as 9 Nov. 1987.

C. RWW may have their subcontractor, Myers, and the rock cutting machine working simultaneously in order to accelerate the project completion date.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 553,000
B. Total Funds Authorized for all Mitigation Contracts	418,505
C. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	354,878
D. Estimated Total Expenditures For RWW Mitigation Contracts thru 10/31/87	343,270
1a. RWW Contract Cost For Water Main Installation as of 10/31/87	221,410
1b. RWW's Subcontractor cost to install service connections	154 of 225 121,860

E.	Balance remaining for RWV Contract Cost	11,608
F.	Funds Authorized for Bottled Water Delivery ERCS (O. H. Materials) DCN #KCS-305	63,627
G.	Estimated Total Expenditures For ERCS (O. H. Materials) Contract thru 10/31/87	
1a.	Estimated ERCS (O. H. Materials) expenditures for delivery of bottled water as of 10/31/87, DCN #KCS-305	50,400
1b.	Balance remaining for ERCS (O. H. Materials) Contract Cost	13,227
H.	EPA Intramural Costs (Estimated)	
1.	Total Authorized	33,000
2.	Estimated Expenditures as of 10/31/87	30,000
3.	Estimated Balance	3,000
I.	EPA Extramural (TAT) Costs (Estimated)	
1.	Total Authorized	41,072
2.	Estimated Expenditures as of 10/31/87	37,000
3.	Estimated Balance	4,072
J.	Other Costs Authorized (Contingency)	
1.	Total Authorized	72,072
2.	Estimated Expenditures as of 10/31/87	12,072
3.	Estimated Balance	60,000
K.	Total Expenditures As Of 10/31/87 and % of 2 Million	460,670 (23.03%)
L.	Percentage of Total Project Ceiling	83.30%

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FURTHER
POLREPS X
FINAL POLREF _____ FORTHCOMING _____ SUBMITTED BY *E. J. Makarewicz*
(TAT) E. Makarewicz, OSC
Response and
Prevention Branch

Date Released 3 Nov. 1987

- * BWW billed \$121,860, for installing service connections, on the 2 Oct. 87 Daily Report. EPA received this Daily Report on 19 Oct. 87.

U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: October 31, 1987

Region II
Response & Prevention Branch
Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
24 Hour Emergency.

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
J. Rotola, EPA
ERD, Washington,
(E-Mail)
W. Andrews, EPA
E. Sullivan, NYSDEC
D. Axelrod, NYSDOH
TAT

POLREP NO.: Twenty (20), Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATIONS: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeye
Falls, Livingston/Monroe County,
New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

- A. Situation remains the same as described in POLREP Number Nineteen (19).
- B. Bottled water is being delivered to 32 residences in the affected area on a weekly basis.
- C. As of October 31, 1987, the RWW contractor has installed a total of 3,820 feet of water main in the affected area.
- D. A total of twenty eight (28) curb boxes, eighteen (18) along Martin Road, eight (8) along Ideson Road and two (2) along Bragg Street have been tapped into the water main as of October 31, 1987.

157 of 225

E. A total of seven (7) fire hydrants, five (5) along Martin Road, one (1) along Ideson Road and one (1) along Bragg Street have been installed as of October 31, 1987.

F. The City of Rochester Division of Street Maintenance (DSM) continued pavement restoration work along Bragg Street and Martin Road, as necessary.

G. R. P. Myers, Inc., RWW's subcontractor, began service connections and hook ups to residences along Martin Road on October 29, 1987. As of October 30, 1987, Myers has installed service connections to two (2) residences.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. Bottled water will continue to be provided by the EPA to affected homes until they are connected to the City of Rochester water supply system.

B. RWW may not have a rock cutting machine rented, and on site, for at least one (1) month, from the 19 Oct. 87, due to their bid preparation, advertising and awarding procedures. However, at a meeting between EPA and RWW, at Rochester City Hall on 22 Oct. 1987, Charles Zettek, (Purchasing Agent for the City of Rochester), said the rock cutting machine may be on site as early as 9 Nov. 1987.

C. RWW may have their subcontractor, Myers, and the rock cutting machine working simultaneously in order to accelerate the project completion date.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 553,000
B. Total Funds Authorized for all Mitigation Contracts	418,505
C. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	354,878
D. Estimated Total Expenditures For RWW Mitigation Contracts thru 10/31/87	343,270
1a. RWW Contract Cost For Water Main Installation as of 10/31/87	221,410
1b. RWW's Subcontractor cost to install service connections	121,860 *

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E.	Balance remaining for RWW Contract Cost	11,608
F.	Funds Authorized for Bottled Water Delivery ERCS (O. H. Materials) DCN #KCS-305	63,627
G.	Estimated Total Expenditures For ERCS (O. H. Materials) Contract thru 10/31/87	
1a.	Estimated ERCS (O. H. Materials) expenditures for delivery of bottled water as of 10/31/87, DCN #KCS-305	50,400
1b.	Balance remaining for ERCS (O. H. Materials) Contract Cost	13,227
H.	EPA Intramural Costs (Estimated)	
1.	Total Authorized	33,000
2.	Estimated Expenditures as of 10/31/87	30,000
3.	Estimated Balance	3,000
I.	EPA Extramural (TAT) Costs (Estimated)	
1.	Total Authorized	41,072
2.	Estimated Expenditures as of 10/31/87	37,000
3.	Estimated Balance	4,072
J.	Other Costs Authorized (Contingency)	
1.	Total Authorized	72,072
2.	Estimated Expenditures as of 10/31/87	12,072
3.	Estimated Balance	60,000
K.	Total Expenditures As Of 10/31/87 and % of 2 Million	460,670 (23.03%)
L.	Percentage of Total Project Ceiling	83.30%

FURTHER
POLREPS X
FINAL POLREP _____ FORTHCOMING _____ SUBMITTED BY *E. J. Makarewicz*
(TAT) E. Makarewicz, OSC
Response and
Prevention Branch

Date Released 3 Nov. 1987

* RWW billed \$121,860, for installing service connections,
on the 2 Oct. 87 Daily Report. EPA received this Daily
Report on 19 Oct. 87.

13 Cor. item 3C
type error?

19 JAN 88

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: November. 7, 1987

Region II
Response and Prevention Branch
Edison, New Jersey 08837
(201) 548-8730 - Commerical & FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
R. Salkie, EPA
G. Zachos, EPA
J. Marshall, EPA
B. Adler, EPA
J. Czapor, EPA
W. Andrews, EPA
M. O'Toole, EPA
D. Axelrod, NYSDOH
TAT
ERD, Washington (E-MAIL)

POLREP NO: Twenty-One (21) Phase II
INCIDENT NAME: North Bloomfield, New York
SITE NO: L9
POLLUTANT: Volatile Organics
CLASSIFICATION: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye Falls
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

A. Situation remains the same as described in POLREP Number Twenty (20).

B. Bottled water is being delivered to 29 residences in the affected area on a weekly basis.

C. As of November 7, 1987, the RWW contractor has installed a total of 3,820 feet of water main in the affected area.

D. A total of twenty-eight (28) curb boxes, eighteen (18) along Martin Road, eight (8) along Ideson Road and two (2) along Bragg Street have been tapped into the water main as of November 7, 1987.

E. A total of seven (7) fire hydrants; five (5) along Martin Road, one (1) along Ideson Road, and one (1) along Bragg Street have been installed as of November 7, 1987.

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F. The City of Rochester Division of Street Maintenance (DSM) completed, at the present time, restoration of pavement and placement of top soil along Bragg Street, Martin Road, and a portion of Ideson Road.

G.R.P. Myers, Inc., at the present time, stopped installing service connections and necessary hook-ups to residences. As of November 7, 1987, Myers has installed service connections to three (3) residences.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. Bottled water will continue to be provided by the EPA to affected homes until they are connected to the City of Rochester water supply system.

B. At another meeting between EPA and RWW, at Rochester Water Works on November 6, 1987, Mr. Russel Harding, P.E. said the rock cutting machine is anticipated to be on site during the week beginning November 16, 1987. He also indicated R.P. Myers, Inc., a subcontractor, would resume the installation of service connections during the same week. RWW management anticipate the service connections and necessary hook-ups to all residences will be completed by December 31, 1987.

C. The DSM personnel will resume the restoration of pavement and placement of top soil along the remaining portion of Ideson Road, following the water main installation completion along Ideson Road.

D. RWW may have their subcontractor, Myers, and the rock cutting machine working simultaneously in order to accelerate the project completion date.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 553,000
B. Total Funds Authorized for all Mitigation Contracts	\$ 418,505
C. Funds Authorized for Mitigation Contracts (City of Rochester Water Works) for Water Main Installation	\$ 376,950 ? I had 354,878
D. Estimated Total Expenditures for RWW Mitigation Contracts thru 11/7/87	\$ 226,410*

162 of 225

1. a.	RWW Contract Cost for Water Main Installation as of 11/7/87	\$226,410
1. b.	RWW's Subcontractor cost to install service connections.	None billed to date
E.	Balance Remaining for RWW Contract Cost	\$128,468
F.	Funds Authorized for Bottled Water Delivery ERCS (O.H. Materials DCN #KCS-305)	\$ 63,627
G.	Estimated Total Expenditures for ERCS (O.H. Materials Contract thru 11/7/87	
1. a	Estimated ERCS (O.H. Materials) Expenditures for Delivery of Bottled Water as of 11/7/87 DCN #KCS-305)	\$ 51,850
1. b	Balance Remaining for ERCS (O.H. Materials) Contract Cost	\$ 11,777
H.	EPA Intramural Costs (Estimated)	
1.	Total Authorized	\$ 73,000
2.	Estimated Expenditures As of 11/7/87	\$ 32,400
3.	Estimated Balance	\$ 40,600
I.	EPA Extramural (TAT) Costs (Estimated)	
1.	Total Authorized	\$ 51,072
2.	Estimated Expenditures As of 11/7/87	\$ 39,500
3.	Estimated Balance	\$ 11,572
J.	Other Costs Authorized (Contingency)	
1.	Total Authorized	\$ 72,072
2.	Estimated Expenditures As of 11/7/87	\$ 62,072
3.	Estimated Balance	\$ 10,000
K.	Total Expenditures As of 11/7/87 and % of 2 Million	\$350,160 (17.51%)

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L. Percentage of Total Project Ceiling

63.32%

FINAL FURTHER
POLREP POLREPS
POLREP FORTHCOMING X SUBMITTED BY: *Joseph D. Notale for*
Edward J. Makarewicz,
On-Scene Coordinator
Response and Prevention
Branch

Date Released: 12/28/87

*An adjustment in item 3D, was made in this POLREP (No. 21), since the subcontractor's cost of \$121,860 should have been disallowed in previous POLREPS Nos. 18, 19 and 20. The reason being that RWW has not billed any work on the 1900-55's for review and approval, as of 7 November, 1987.

Note: Of the 60,000 estimated balance remaining in the contingency fund, as shown, in Pol Rep 20; 50,000 was removed in Polrep No. 21 with 10,000 being placed into TAT Extramural total authorized and the remaining 40,000 being placed into EPA Intramural total authorized, as of November 7.

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: November 7, 1987

Region II
Response & Prevention Branch
Edison, NJ 08837

TO: C. Daggett, EPA
R. Salkie, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
ERD, Washington,
(E-Mail)
B. Alder, EPA
W. Andrews, EPA
N. Nosenchuck, NYSDEC
D. Axelrod, NYSDOH
TAT

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

POLREP NO.: Twenty-One (21) Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATION: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye Falls
Livingston/Monroe County, New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

- A. Situation remains the same as described in POLREP Number Twenty (20).
- B. Bottled water is being delivered to 32 residences in the affected area on a weekly basis.
- C. As of November 7, 1987, the RWW contractor has installed a total of 3,820 feet of water main in the affected area.
- D. A total of twenty-eight (28) curb boxes, eighteen (18) along Martin Road, eight (8) along Ideson Road and two (2) along Bragg Street have been tapped into the water main as of November 7, 1987.
- E. A total of seven (7) fire hydrants; five (5) along Martin Road, one (1) along Ideson Road, and one (1) along Bragg Street have been installed as of November 7, 1987.

165 of 225

F. The City of Rochester Division of Street Maintenance (DSM) completed, at the present time, restoration of pavement and placement of top soil along Bragg Street, Martin Road, and a portion of Ideson Road.

G. R.P. Myers, Inc., at the present time, stopped installing service connections and necessary hook-ups to residences. As of November 7, 1987, Myers has installed service connections to three (3) residences.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. Bottled water will continue to be provided by the EPA to affected homes until they are connected to the City of Rochester water supply system.

B. At another meeting between EPA and RWW, at Rochester Water Works on November 6, 1987, Mr. Russel Harding, P.E., said the rock cutting machine is anticipated to be on site during the week beginning November 16, 1987. He also indicated R.P. Myers, Inc., a subcontractor, would resume the installation of service connections during the same week. RWW executives anticipate the service connections and necessary hook-ups to all residences will be completed by December 31, 1987.

C. The DSM personnel will resume the restoration of pavement and placement of top soil along the remaining portion of Ideson Road, following the water main installation along this portion.

D. RWW may have their subcontractor, Myers, and the rock cutting machine working simultaneously in order to accelerate the project completion date.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 553,000
B. Total Funds Authorized for all Mitigation Contracts	418,505
C. Funds Authorized for Mitigation Contracts (City of Rochester Water Works) for Water Main Installation	354,878
D. Estimated Total Expenditures for RWW Mitigation Contracts thru 11/7/87	348,270
1.a. RWW Contract Cost For Water Main Installation As Of 11/7/87	226,410

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1.b.	RWW's Subcontractor Cost to Install Service Connections	121,860*
E.	Balance Remaining for RWW Contract Cost	6,608
F.	Funds Authorized for Bottled Water Delivery ERCS (O.H. Materials DCN #KCS-305)	63,627
G.	Estimated Total Expenditures for ERCS (O.H. Materials Contract thru 11/7/87	
1.a	Estimated ERCS (O.H. Materials) Expenditures for Delivery of Bottled Water As Of 11/7/87 DCN #KCS-305	50,850
1.b	Balance Remaining for ERCS (O.H. Materials) Contract Cost	12,777
H.	EPA Intramural Costs (Estimated)	
1.	Total Authorized	33,000
2.	Estimated Expenditures As Of 11/7/87	32,400
3.	Estimated Balance	600
I.	EPA Extramural (TAT) Costs (Estimated)	
1.	Total Authorized	41,072
2.	Estimated Expenditures As Of 11/7/87	39,500
3.	Estimated Balance	1,572
J.	Other Costs Authorized (Contingency)	
1.	Total Authorized	72,072
2.	Estimated Expenditures As of 11/7/87	12,072
3.	Estimated Balance	60,000
K.	Total Expenditures As Of 11/7/87 and % of 2 Million	471,020 (23.55%)
L.	Percentage of Total Project Ceiling	85.18%

FURTHER
POLREPS
FINAL POLREP _____ FORTHCOMING X SUBMITTED BY E. Makarewicz
(TAT) E. Makarewicz, OAC
Response & Prevention
Branch

Date Released _____

*RWW billed \$121,860, for installing service connections, on the October 2, 1987, Daily Report. EPA received this Daily Report on October 19, 1987.

U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: November 14, 1987

Region II
Response & Prevention Branch
Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
J. Rotola, EPA
ERD, Washington,
(E-Mail)
W. Andrews, EPA
E. Sullivan, NYSDEC
D. Axelrod, NYSDOH
TAT

POLREP NO.: Twenty two (22) Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATIONS: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye
Falls, Livingston/Monroe County,
New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

- A. Situation remains the same as described in POLREP Number Twenty one (21).
- B. Bottled water is being delivered to 31 residences in the affected area on a weekly basis.
- C. As of November 14, 1987, the RWV contractor has installed a total of 3,820 feet of water main in the affected area.
- D. A total of twenty eight (28) curb boxes, eighteen (18) along Martin Road, eight (8) along Ideson Road and two (2) along Bragg Street have been tapped into the water main as of November 14, 1987.

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E. A total of seven (7) fire hydrants; five (5) along Martin Road, one (1) along Ideson Road and one (1) along Bragg Street have been installed as of November 14, 1987.

F. The City of Rochester Division of Street Maintenance (DSM) completed, at the present time, restoration of pavement and placement of top soil along Bragg Street, Martin Road, and a portion of Ideson Road.

G. R.P. Myers, Inc., at the present time, stopped installing service connections and necessary hook-ups to residences. As of November 14, 1987, Myers has installed service connections to three (3) residences.

H. No site activity from 8-14 November 1987 by R.P. Myers, Inc. and RWW.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. Bottled water will continue to be provided by the EPA to affected homes until they are connected to the City of Rochester water supply system.

B. At another meeting between EPA and RWW, at Rochester Water Works on November 6, 1987, Mr. Russel Harding, P.E., said the rock cutting machine is anticipated to be on site during the week beginning November 16, 1987. He also indicated R.P. Myers, Inc., a subcontractor, would resume the installation of service connections and necessary hook-ups to all residences will be completed by December 31, 1987.

C. The DSM personnel will resume the restoration of pavement and placement of top soil along the remaining portion of Ideson Road, following the water main installation completion along Ideson Road.

D. RWW may have their subcontractor, Myers, and the rock cutting machine working simultaneously in order to accelerate the project completion date.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 553,000
B. Total Funds Authorized for all Mitigation Contracts	418,505
C. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	354,878

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D.	Estimated Total Expenditures For RWW Mitigation Contracts thru 11/14/87	348,270
1a.	RWW Contract Cost For Water Main Installation as of 11/14/87	226,410
1b.	RWW's Subcontractor cost to install service connections	none billed to date
E.	Balance remaining for RWW Contract Cost	128,468
F.	Funds Authorized for Bottled Water Delivery ERCS (O. H. Materials) DCN #KCS-305	63,627
G.	Estimated Total Expenditures For ERCS (O. H. Materials) Contract thru 11/14/87	
1a.	Estimated ERCS (O. H. Materials) expenditures for delivery of bottled water as of 11/14/87, DCN #KCS-305	52,863
1b.	Balance remaining for ERCS (O. H. Materials) Contract Cost	10,764
H.	EPA Intramural Costs (Estimated)	
1.	Total Authorized	73,000
2.	Estimated Expenditures as of 11/14/87	38,127
3.	Estimated Balance	34,873
I.	EPA Extramural (TAT) Costs (Estimated)	
1.	Total Authorized	51,072
2.	Estimated Expenditures as of 11/14/87	39,500
3.	Estimated Balance	11,572
J.	Other Costs Authorized (Contingency)	
1.	Total Authorized	72,072
2.	Estimated Expenditures as of 11/14/87	62,072
3.	Estimated Balance	10,000
K.	Total Expenditures As Of 11/14/87 and % of 2 Million	356,900 (17.85%)

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L. Percentage of Total Project
Ceiling

64.34%

FURTHER
POLREPS X
FINAL POLREP _____ FORTHCOMING _____ SUBMITTED BY *E. Makarewicz*
(TAT) E. Makarewicz, OSC
Response and
Prevention Branch

Date Released _____

- NOTE: 1. Under item 1.B. the total number of occupied buildings is thirty four (34) and not thirty two (32).
2. The original submittal of Polrep no. 22 was lost when submitted in Nov. 87... hence resubmitted again.

U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: November 21, 1987

Region II
Response & Prevention Branch
Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
J. Rotola, EPA
ERD, Washington,
(E-Mail)
W. Andrews, EPA
E. Sullivan, NYSDEC
D. Axelrod, NYSDOH
TAT

POLREP NO.: Twenty three (23) Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATIONS: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye
Falls, Livingston/Monroe County,
New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

- A. Situation remains the same as described in POLREP Number Twenty two (22).
- B. Bottled water is being delivered to 31 residences in the affected area on a weekly basis.
- C. As of November 21, 1987, the RWW contractor has installed a total of 3,820 feet of water main in the affected area.
- D. A total of twenty eight (28) curb boxes, eighteen (18) along Martin Road, eight (8) along Ideson Road and two (2) along Bragg Street have been tapped into the water main as of November 21, 1987.

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E. A total of seven (7) fire hydrants; five (5) along Martin Road, one (1) along Ideson Road and one (1) along Bragg Street have been installed as of November 21, 1987.

F. The City of Rochester Division of Street Maintenance (DSM) completed, at the present time, restoration of pavement and placement of top soil along Bragg Street, Martin Road, and a portion of Ideson Road.

G. R.P. Myers, Inc., returned to the site on November 18, 1987, and resume installing service connections and hook-ups to residences. As of November 21, 1987, three (3) residences have service connections completed.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. Bottled water will continue to be provided by the EPA to affected homes until they are connected to the City of Rochester water supply system.

B. At another meeting between EPA and RWW, at Rochester Water Works on November 6, 1987, Mr. Russel Harding, P.E., said the rock cutting machine is anticipated to be on site during the week beginning November 16, 1987. He also indicated R.P. Myers, Inc., a subcontractor, would resume the installation of service connections during the same week. RWW management anticipate the service connections and necessary hook-ups to all residences will be completed by December 31, 1987.

C. The DSM personnel will resume the restoration of pavement and placement of top soil along the remaining portion of Ideson Road, following the water main installation completion along Ideson Road.

D. RWW may have their subcontractor, Myers, and the rock cutting machine working simultaneously in order to accelerate the project completion date.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 553,000
B. Total Funds Authorized for all Mitigation Contracts	418,505
C. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	354,878
D. Estimated Total Expenditures For RWW Mitigation Contracts thru 11/21/87	348,270

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1a.	RWW Contract Cost For Water Main Installation as of 11/21/87	227,410
1b.	RWW's Subcontractor cost to install service connections	none billed to date
E.	Balance remaining for RWW Contract Cost	127,468
F.	Funds Authorized for Bottled Water Delivery ERCS (O. H. Materials) DCN #KCS-305	63,627
G.	Estimated Total Expenditures For ERCS (O. H. Materials) Contract thru 11/21/87	
1a.	Estimated ERCS (O. H. Materials) expenditures for delivery of bottled water as of 11/21/87, DCN #KCS-305	53,363
1b.	Balance remaining for ERCS (O. H. Materials) Contract Cost	10,264
H.	EPA Intramural Costs (Estimated)	
1.	Total Authorized	73,000
2.	Estimated Expenditures as of 11/21/87	43,854
3.	Estimated Balance	29,146
I.	EPA Extramural (TAT) Costs (Estimated)	
1.	Total Authorized	51,072
2.	Estimated Expenditures as of 11/21/87	44,209
3.	Estimated Balance	6,863
J.	Other Costs Authorized (Contingency)	
1.	Total Authorized	72,072
2.	Estimated Expenditures as of 11/21/87	62,072
3.	Estimated Balance	10,000
K.	Total Expenditures As Of 11/21/87 and % of 2 Million	368,836 (18.44%)
L.	Percentage of Total Project Ceiling	66.70%

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FURTHER
POLREPS X
FINAL POLREP _____ FORTHCOMING _____ SUBMITTED BY *E. Makarewicz*
(TAT) E. Makarewicz, OSC
Response and
Prevention Branch

Date Released _____

NOTE: 1. The original submittal of Polrep no. 23 was lost when
submitted in Nov. 87... hence resubmitted again.

POLLUTION REPORT

DATE: February 20, 1988

Region II
Response & Prevention Branch
Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
J. Rotola, EPA
ERD, Washington,
(E-Mail)
W. Andrews, EPA
E. Sullivan, NYSDEC
D. Axelrod, NYSDOH
TAT

POLREP NO.: Thirty six (36), Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATIONS: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye
Falls, Livingston/Monroe County,
New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

A. Situation remains the same as described in POLREP Number Thirty five (35).

~~3~~ B. An extension of the RWW's contract was approved and signed on , 1988.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. The DSM personnel will resume the permanent restoration of pavement and placement of topsoil along the remaining portion of Ideson Road in the Spring of 1988.

B. RWW contractor will mobilize during the Spring of 1988 to complete the topsoil addition and seeding in the affected area.

3. FINANCIAL STATUS:

A.	Total Project Ceiling Authorized	\$ 842,100
B.	Total Funds Authorized for all Mitigation Contracts	669,900
C.	Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	606,278
D.	Estimated Total Expenditures For RWW Mitigation Contracts thru 2/20/88	
1a.	RWW Contract Cost For Water Main Installation as of 2/20/88	295,000
1b.	RWW's Subcontractor cost to install service connections and rock excavation.	none billed to date
E.	Balance remaining for RWW Contract Cost	311,278
F.	Funds Authorized for Bottled Water Delivery ERCS (O. H. Materials) DCN #KCS-305	54,788
G.	Estimated Total Expenditures For ERCS (O. H. Materials) Contract thru 2/20/88	
1a.	Estimated ERCS (O. H. Materials) expenditures for delivery of bottled water as of 2/20/88 DCN #KCS-305	
1b.	Balance remaining for ERCS (O. H. Materials) Contract Cost	
H.	EPA Intramural Costs (Estimated)	
1.	Total Authorized	84,839
2.	Estimated Expenditures as of 2/20/88	
3.	Estimated Balance	
I.	EPA Extramural (TAT) Costs (Estimated)	
1.	Total Authorized	58,072
2.	Estimated Expenditures as of 2/20/88	
3.	Estimated Balance	

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J. Other Costs Authorized (Contingency)

1. Total Authorized	72,072
2. Estimated Expenditures as of 2/20/88	72,072
3. Estimated Balance	0.0

K. Total Expenditures As Of
2/20/88 and % of 2 Million

L. Percentage of Total Project
Ceiling

	FURTHER		
	POLREPS	X	
FINAL POLREP	FORTHCOMING	SUBMITTED BY	
(TAT)		E. Makarewicz, OSC	
		Response and	
		Prevention Branch	

Date Released _____

I. EPA Extramural (TAT) Costs (Estimated)

1. Total Authorized	58,072
2. Estimated Expenditures as of 2/20/88	57,000
3. Estimated Balance	1,072

J. Other Costs Authorized (Contingency)

1. Total Authorized	72,072
2. Estimated Expenditures as of 2/20/88	72,072
3. Estimated Balance	0

K. Total Expenditures As Of 2/20/88 and % of 2 Million	730,750 (36.54%)
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L. Percentage of Total Project Ceiling	86.77%
---	--------

FINAL POLREP	FURTHER		
(TAT)	POLREPS	X	
	FORTHCOMING		SUBMITTED BY <i>E. Makarewicz</i>
			E. Makarewicz, OSC
			Response and
			Prevention Branch

Date Released _____

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U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: February 27, 1988

Region II
Response & Prevention Branch
Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
J. Rotola, EPA
ERD, Washington,
(E-Mail)
W. Andrews, EPA
E. Sullivan, NYSDEC
D. Axelrod, NYSDOH
TAT

POLREP NO.: Thirty seven (37), Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATIONS: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye
Falls, Livingston/Monroe County,
New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

- A. Situation remains the same as described in POLREP Number Thirty six (36).
- B. OSC updating the site reports and verifying the project related costs.

2. FUTURE PLANS AND RECOMMENDATIONS:

- A. The DSM personnel will resume the permanent restoration of pavement along the remaining portion of Ideson Road in the spring of 1988.

B. The RWW contractor will mobilize during the spring of 1988 to complete the top soil addition and seeding in the affected area.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 842,100
B. Total Funds Authorized for all Mitigation Contracts	669,900
C. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	606,278
D. Estimated Total Expenditures For RWW Mitigation Contracts thru 2/20/88	540,000
1a. RWW Contract Cost For Water Main Installation as of 2/20/88	375,000
1b. RWW's Subcontractor cost to install service connections and rock excavation.	165,000
E. Balance remaining for RWW Contract Cost	66,278
F. Funds Authorized for Bottled Water Delivery ERCS (O. H. Materials) DCN #KCS-305	54,788
G. Estimated Total Expenditures For ERCS (O. H. Materials) Contract thru 2/20/88	
1a. Estimated ERCS (O. H. Materials) expenditures for delivery of bottled water as of 2/20/88 DCN #KCS-305	54,750
1b. Balance remaining for ERCS (O. H. Materials) Contract Cost	38
H. EPA Intramural Costs (Estimated)	
1. Total Authorized	84,839
2. Estimated Expenditures as of 2/20/88	79,000
3. Estimated Balance	5,839

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I. EPA Extramural (TAT) Costs (Estimated)

1. Total Authorized	58,072
2. Estimated Expenditures as of 2/20/88	57,000
3. Estimated Balance	1,072

J. Other Costs Authorized (Contingency)

1. Total Authorized	72,072
2. Estimated Expenditures as of 2/20/88	72,072
3. Estimated Balance	0

K. Total Expenditures As Of 2/20/88 and % of 2 Million	730,750 (36.54%)
---	---------------------

L. Percentage of Total Project Ceiling	86.77%
---	--------

FINAL POLREP (TAT) _____ FURTHER POLREPS FORTHCOMING _____ X SUBMITTED BY *E. Makarewicz*
 E. Makarewicz, OSC
 Response and
 Prevention Branch

Date Released _____

U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: March 5, 1988

Region II
Response & Prevention Branch
Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
J. Rotola, EPA
ERD, Washington,
(E-Mail)
W. Andrews, EPA
E. Sullivan, NYSDEC
D. Axelrod, NYSDOH
TAT

POLREP NO.: Thirty eight (38), Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATIONS: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye
Falls, Livingston/Monroe County,
New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

- A. Situation remains the same as described in POLREP Number Thirty seven (37).
- B. OSC continuing to verify the costs associated with the site activities and update the site report.

2. FUTURE PLANS AND RECOMMENDATIONS:

- A. The DSM personnel will resume the permanent restoration of pavement along the remaining portion of Ideson Road in the spring of 1988.

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B. The RWW contractor will mobilize during the spring of 1988 to complete the top soil addition and seeding in the affected area.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 842,100
B. Total Funds Authorized for all Mitigation Contracts	669,900
C. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	606,278
D. Estimated Total Expenditures For RWW Mitigation Contracts thru 2/20/88	540,000
1a. RWW Contract Cost For Water Main Installation as of 2/20/88	375,000
1b. RWW's Subcontractor cost to install service connections and rock excavation.	165,000
E. Balance remaining for RWW Contract Cost	66,278
F. Funds Authorized for Bottled Water Delivery ERCS (O. H. Materials) DCN #KCS-305	54,788
G. Estimated Total Expenditures For ERCS (O. H. Materials) Contract thru 2/20/88	
1a. Estimated ERCS (O. H. Materials) expenditures for delivery of bottled water as of 2/20/88 DCN #KCS-305	54,750
1b. Balance remaining for ERCS (O. H. Materials) Contract Cost	38
H. EPA Intramural Costs (Estimated)	
1. Total Authorized	84,839
2. Estimated Expenditures as of 2/20/88	79,000
3. Estimated Balance	5,839

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I. EPA Extramural (TAT) Costs (Estimated)

1. Total Authorized	58,072
2. Estimated Expenditures as of 2/20/88	57,000
3. Estimated Balance	1,072

J. Other Costs Authorized (Contingency)

1. Total Authorized	72,072
2. Estimated Expenditures as of 2/20/88	72,072
3. Estimated Balance	0

K. Total Expenditures As Of 2/20/88 and % of 2 Million	730,750 (36.54%)
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L. Percentage of Total Project Ceiling	86.77%
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FINAL POLREP (TAT) _____ FURTHER POLREPS FORTHCOMING _____ X SUBMITTED BY *E. Makarewicz*
 E. Makarewicz, OSC
 Response and
 Prevention Branch

Date Released _____

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U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: March 12, 1988

Region II
Response & Prevention Branch
Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
J. Rotola, EPA
ERD, Washington,
(E-Mail)
W. Andrews, EPA
E. Sullivan, NYSDEC
D. Axelrod, NYSDOH
TAT

POLREP NO.: Thirty nine (39), Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATIONS: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye
Falls, Livingston/Monroe County,
New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

- A. Situation remains the same as described in POLREP Number Thirty eight (38).
- B. OSC continuing to verify the costs associated with the site activities and update the site report.

2. FUTURE PLANS AND RECOMMENDATIONS:

- A. The DSM personnel will resume the permanent restoration of pavement along the remaining portion of Ideson Road in the spring of 1988.

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B. The RWW contractor will mobilize during the spring of 1988 to complete the top soil addition and seeding in the affected area.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 842,100
B. Total Funds Authorized for all Mitigation Contracts	669,900
C. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	606,278
D. Estimated Total Expenditures For RWW Mitigation Contracts thru 2/20/88	540,000
1a. RWW Contract Cost For Water Main Installation as of 2/20/88	375,000
1b. RWW's Subcontractor cost to install service connections and rock excavation.	165,000
E. Balance remaining for RWW Contract Cost	66,278
F. Funds Authorized for Bottled Water Delivery ERCS (O. H. Materials) DCN #KCS-305	54,788
G. Estimated Total Expenditures For ERCS (O. H. Materials) Contract thru 2/20/88	
1a. Estimated ERCS (O. H. Materials) expenditures for delivery of bottled water as of 2/20/88 DCN #KCS-305	54,750
1b. Balance remaining for ERCS (O. H. Materials) Contract Cost	38
H. EPA Intramural Costs (Estimated)	
1. Total Authorized	84,839
2. Estimated Expenditures as of 2/20/88	79,000
3. Estimated Balance	5,839

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I. EPA Extramural (TAT) Costs (Estimated)

1. Total Authorized	58,072
2. Estimated Expenditures as of 2/20/88	57,000
3. Estimated Balance	1,072

J. Other Costs Authorized (Contingency)

1. Total Authorized	72,072
2. Estimated Expenditures as of 2/20/88	72,072
3. Estimated Balance	0

K. Total Expenditures As Of
2/20/88 and % of 2 Million

730,750
(36.54%)

L. Percentage of Total Project
Ceiling

86.77%

FINAL POLREP _____ FURTHER
(TAT) POLREPS _____ X
FORTHCOMING _____ SUBMITTED BY *E. Makarewicz*
E. Makarewicz, OSC
Response and
Prevention Branch

Date Released _____

U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: March 19, 1988

Region II
Response & Prevention Branch
Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
J. Rotola, EPA
ERD, Washington,
(E-Mail)
W. Andrews, EPA
E. Sullivan, NYSDEC
D. Axelrod, NYSDOH
TAT

POLREP NO.: Forty (40), Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATIONS: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye
Falls, Livingston/Monroe County,
New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

A. Situation remains the same as described in POLREP Number Thirty nine (39).

B. OSC continues to verify the costs associated with the site activities and update the site report.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. The DSM personnel will resume the permanent restoration of pavement along the remaining portion of Ideson Road in the spring of 1988.

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B. The RWW contractor will mobilize during the spring of 1988 to complete the top soil addition and seeding in the affected area.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 842,100
B. Total Funds Authorized for all Mitigation Contracts	669,900
C. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	606,278
D. Estimated Total Expenditures For RWW Mitigation Contracts thru 2/20/88	540,000
1a. RWW Contract Cost For Water Main Installation as of 2/20/88	375,000
1b. RWW's Subcontractor cost to install service connections and rock excavation.	165,000
E. Balance remaining for RWW Contract Cost	66,278
F. Funds Authorized for Bottled Water Delivery ERCS (O. H. Materials) DCN #KCS-305	54,788
G. Estimated Total Expenditures For ERCS (O. H. Materials) Contract thru 2/20/88	
1a. Estimated ERCS (O. H. Materials) expenditures for delivery of bottled water as of 2/20/88 DCN #KCS-305	54,750
1b. Balance remaining for ERCS (O. H. Materials) Contract Cost	38
H. EPA Intramural Costs (Estimated)	
1. Total Authorized	84,839
2. Estimated Expenditures as of 2/20/88	79,000
3. Estimated Balance	5,839

I. EPA Extramural (TAT) Costs (Estimated)

1. Total Authorized	58,072
2. Estimated Expenditures as of 2/20/88	57,000
3. Estimated Balance	1,072

J. Other Costs Authorized (Contingency)

1. Total Authorized	72,072
2. Estimated Expenditures as of 2/20/88	72,072
3. Estimated Balance	0

K. Total Expenditures As Of 2/20/88 and % of 2 Million	730,750 (36.54%)
---	---------------------

L. Percentage of Total Project Ceiling	86.77%
---	--------

FINAL POLREP _____ FURTHER POLREPS _____ X
 (TAT) _____ FORTHCOMING _____ SUBMITTED BY *E. Makarewicz*
 E. Makarewicz, OSC
 Response and
 Prevention Branch

Date Released _____

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U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: April 2, 1988

Region II
Response & Prevention Branch
Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
J. Rotola, EPA
ERD, Washington,
(E-Mail)
W. Andrews, EPA
E. Sullivan, NYSDEC
D. Axelrod, NYSDOH
TAT

POLREP NO.: Forty two (42), Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATIONS: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye
Falls, Livingston/Monroe County,
New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

- A. Situation remains the same as described in POLREP Number Forty one (41).
- B. OSC continues to verify the costs associated with the site activities and update the site report.

2. FUTURE PLANS AND RECOMMENDATIONS:

- A. The DSM personnel will resume the permanent restoration of pavement along the remaining portion of Ideson Road in the spring of 1988.

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B. The RWW contractor will mobilize during the spring of 1988 to complete the top soil addition and seeding in the affected area.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 842,100
B. Total Funds Authorized for all Mitigation Contracts	669,900
C. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	606,278
D. Estimated Total Expenditures For RWW Mitigation Contracts thru 2/20/88	540,000
1a. RWW Contract Cost For Water Main Installation as of 2/20/88	375,000
1b. RWW's Subcontractor cost to install service connections and rock excavation.	165,000
E. Balance remaining for RWW Contract Cost	66,278
F. Funds Authorized for Bottled Water Delivery ERCS (O. H. Materials) DCN #KCS-305	54,788
G. Estimated Total Expenditures For ERCS (O. H. Materials) Contract thru 2/20/88	
1a. Estimated ERCS (O. H. Materials) expenditures for delivery of bottled water as of 2/20/88 DCN #KCS-305	54,750
1b. Balance remaining for ERCS (O. H. Materials) Contract Cost	38
H. EPA Intramural Costs (Estimated)	
1. Total Authorized	84,839
2. Estimated Expenditures as of 2/20/88	79,000
3. Estimated Balance	5,839

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I. EPA Extramural (TAT) Costs (Estimated)

1. Total Authorized	58,072
2. Estimated Expenditures as of 2/20/88	57,000
3. Estimated Balance	1,072

J. Other Costs Authorized (Contingency)

1. Total Authorized	72,072
2. Estimated Expenditures as of 2/20/88	72,072
3. Estimated Balance	0

K. Total Expenditures As Of 2/20/88 and % of 2 Million	730,750 (36.54%)
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L. Percentage of Total Project Ceiling	86.77%
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FINAL POLREP (TAT) _____ FURTHER POLREPS FORTHCOMING _____ X SUBMITTED BY *E. Makarewicz*
 E. Makarewicz, OSC
 Response and
 Prevention Branch

Date Released _____

U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: April 9, 1988

Region II
Response & Prevention Branch
Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
J. Rotola, EPA
ERD, Washington,
(E-Mail)
W. Andrews, EPA
E. Sullivan, NYSDEC
D. Axelrod, NYSDOH
TAT

POLREP NO.: Forty three (43), Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATIONS: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye
Falls, Livingston/Monroe County,
New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

A. Situation remains the same as described in POLREP Number Forty two (42).

B. OSC continues to verify the costs associated with the site activities and update the site report.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. The DSM personnel will resume the permanent restoration of pavement along the remaining portion of Ideson Road in the spring of 1988.

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B. The RWW contractor will mobilize during the spring of 1988 to complete the top soil addition and seeding in the affected area.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 842,100
B. Total Funds Authorized for all Mitigation Contracts	669,900
C. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	606,278
D. Estimated Total Expenditures For RWW Mitigation Contracts thru 2/20/88	540,000
1a. RWW Contract Cost For Water Main Installation as of 2/20/88	375,000
1b. RWW's Subcontractor cost to install service connections and rock excavation.	165,000
E. Balance remaining for RWW Contract Cost	66,278
F. Funds Authorized for Bottled Water Delivery ERCS (O. H. Materials) DCN #KCS-305	54,788
G. Estimated Total Expenditures For ERCS (O. H. Materials) Contract thru 2/20/88	
1a. Estimated ERCS (O. H. Materials) expenditures for delivery of bottled water as of 2/20/88 DCN #KCS-305	54,750
1b. Balance remaining for ERCS (O. H. Materials) Contract Cost	38
H. EPA Intramural Costs (Estimated)	
1. Total Authorized	84,839
2. Estimated Expenditures as of 2/20/88	79,000
3. Estimated Balance	5,839

I. EPA Extramural (TAT) Costs (Estimated)

1. Total Authorized	58,072
2. Estimated Expenditures as of 2/20/88	57,000
3. Estimated Balance	1,072

J. Other Costs Authorized (Contingency)

1. Total Authorized	72,072
2. Estimated Expenditures as of 2/20/88	72,072
3. Estimated Balance	0

K. Total Expenditures As Of 2/20/88 and % of 2 Million	730,750 (36.54%)
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L. Percentage of Total Project Ceiling	86.77%
---	--------

FINAL POLREP (TAT) _____ FURTHER POLREPS _____ X _____ FORTHCOMING _____ SUBMITTED BY *E. Makarewicz*
 E. Makarewicz, OSC
 Response and
 Prevention Branch

Date Released _____

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U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: April 16, 1988

Region II
 Response & Prevention Branch
 Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
 24 Hour Emergency

TO: C. Daggett, EPA
 S. Luftig, EPA
 F. Rubel, EPA
 J. Marshall, EPA
 G. Zachos, EPA
 J. Czapor, EPA
 J. Rotola, EPA
 ERD, Washington,
 (E-Mail)
 W. Andrews, EPA
 E. Sullivan, NYSDEC
 D. Axelrod, NYSDOH
 TAT

POLREP NO.: Forty four (44), Phase II
 INCIDENT/SITE NO.: North Bloomfield, New York/L9
 POLLUTANT: Volatile Organics
 CLASSIFICATIONS: Major
 SOURCE: Unknown
 LOCATION: North Bloomfield, Town of Lima/Honeoye
 Falls, Livingston/Monroe County,
 New York
 AMOUNT: Unknown
 WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

A. Situation remains the same as described in POLREP Number Forty three (43).

B. OSC continues to verify the costs associated with the site activities and update the site report.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. The DSM personnel will resume the permanent restoration of pavement along the remaining portion of Ideson Road in the spring of 1988.

B. The RWW contractor will mobilize during the spring of 1988 to complete the top soil addition and seeding in the affected area.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 842,100
B. Total Funds Authorized for all Mitigation Contracts	669,900
C. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	606,278
D. Estimated Total Expenditures For RWW Mitigation Contracts thru 2/20/88	540,000
1a. RWW Contract Cost For Water Main Installation as of 2/20/88	375,000
1b. RWW's Subcontractor cost to install service connections and rock excavation.	165,000
E. Balance remaining for RWW Contract Cost	66,278
F. Funds Authorized for Bottled Water Delivery ERCS (O. H. Materials) DCN #KCS-305	54,788
G. Estimated Total Expenditures For ERCS (O. H. Materials) Contract thru 2/20/88	
1a. Estimated ERCS (O. H. Materials) expenditures for delivery of bottled water as of 2/20/88 DCN #KCS-305	54,750
1b. Balance remaining for ERCS (O. H. Materials) Contract Cost	38
H. EPA Intramural Costs (Estimated)	
1. Total Authorized	84,839
2. Estimated Expenditures as of 2/20/88	79,000
3. Estimated Balance	5,839

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I. EPA Extramural (TAT) Costs (Estimated)

1. Total Authorized	58,072
2. Estimated Expenditures as of 2/20/88	57,000
3. Estimated Balance	1,072

J. Other Costs Authorized (Contingency)

1. Total Authorized	72,072
2. Estimated Expenditures as of 2/20/88	72,072
3. Estimated Balance	0

K. Total Expenditures As Of 2/20/88 and % of 2 Million	730,750 (36.54%)
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L. Percentage of Total Project Ceiling	86.77%
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FINAL POLREP (TAT) _____ FURTHER POLREPS FORTHCOMING _____ X SUBMITTED BY *E. Makarewicz*
 E. Makarewicz, OSC
 Response and
 Prevention Branch

Date Released _____

U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: April 23, 1988

Region II
 Response & Prevention Branch
 Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
 24 Hour Emergency

TO: C. Daggett, EPA
 S. Luftig, EPA
 F. Rubel, EPA
 J. Marshall, EPA
 G. Zachos, EPA
 J. Czapor, EPA
 J. Rotola, EPA
 ERD, Washington,
 (E-Mail)
 W. Andrews, EPA
 E. Sullivan, NYSDEC
 D. Axelrod, NYSDOH
 TAT

POLREP NO.: Forty five (45), Phase II
 INCIDENT/SITE NO.: North Bloomfield, New York/L9
 POLLUTANT: Volatile Organics
 CLASSIFICATIONS: Major
 SOURCE: Unknown
 LOCATION: North Bloomfield, Town of Lima/Honeoye
 Falls, Livingston/Monroe County,
 New York
 AMOUNT: Unknown
 WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

- A. Situation remains the same as described in POLREP Number Forty four (44).
- B. OSC continues to verify the costs associated with the site activities and update the site report.

2. FUTURE PLANS AND RECOMMENDATIONS:

- A. The DSM personnel will resume the permanent restoration of pavement along the remaining portion of Ideson Road in the spring of 1988.

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B. The RWW contractor will mobilize during the spring of 1988 to complete the top soil addition and seeding in the affected area.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 842,100
B. Total Funds Authorized for all Mitigation Contracts	669,900
C. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	606,278
D. Estimated Total Expenditures For RWW Mitigation Contracts thru 2/20/88	540,000
1a. RWW Contract Cost For Water Main Installation as of 2/20/88	375,000
1b. RWW's Subcontractor cost to install service connections and rock excavation.	165,000
E. Balance remaining for RWW Contract Cost	66,278
F. Funds Authorized for Bottled Water Delivery ERCS (O. H. Materials) DCN #KCS-305	54,788
G. Estimated Total Expenditures For ERCS (O. H. Materials) Contract thru 2/20/88	
1a. Estimated ERCS (O. H. Materials) expenditures for delivery of bottled water as of 2/20/88 DCN #KCS-305	54,750
1b. Balance remaining for ERCS (O. H. Materials) Contract Cost	38
H. EPA Intramural Costs (Estimated)	
1. Total Authorized	84,839
2. Estimated Expenditures as of 2/20/88	79,000
3. Estimated Balance	5,839

I. EPA Extramural (TAT) Costs (Estimated)

1. Total Authorized	58,072
2. Estimated Expenditures as of 2/20/88	57,000
3. Estimated Balance	1,072

J. Other Costs Authorized (Contingency)

1. Total Authorized	72,072
2. Estimated Expenditures as of 2/20/88	72,072
3. Estimated Balance	0

K. Total Expenditures As Of 2/20/88 and % of 2 Million	730,750 (36.54%)
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L. Percentage of Total Project Ceiling	86.77%
---	--------

FINAL POLREP	FURTHER		
(TAT)	POLREPS	X	
	FORTHCOMING		SUBMITTED BY <i>E. Makarewicz</i>
			E. Makarewicz, OSC
			Response and
			Prevention Branch

Date Released _____

U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: April 30, 1988

Region II
Response & Prevention Branch
Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
J. Rotola, EPA
ERD, Washington,
(E-Mail)
W. Andrews, EPA
E. Sullivan, NYSDEC
D. Axelrod, NYSDOH
TAT

POLREP NO.: Forty six (46), Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATIONS: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye
Falls, Livingston/Monroe County,
New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

- A. Situation remains the same as described in POLREP Number Forty five (45).
- B. OSC continues to verify the costs associated with the site activities and update the site report.

2. FUTURE PLANS AND RECOMMENDATIONS:

- A. The DSM personnel will resume the permanent restoration of pavement along the remaining portion of Ideson Road in the spring of 1988.

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B. The RWW contractor will mobilize during the spring of 1988 to complete the top soil addition and seeding in the affected area.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 842,100
B. Total Funds Authorized for all Mitigation Contracts	669,900
C. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	606,278
D. Estimated Total Expenditures For RWW Mitigation Contracts thru 2/20/88	540,000
1a. RWW Contract Cost For Water Main Installation as of 2/20/88	375,000
1b. RWW's Subcontractor cost to install service connections and rock excavation.	165,000
E. Balance remaining for RWW Contract Cost	66,278
F. Funds Authorized for Bottled Water Delivery ERCS (O. H. Materials) DCN #KCS-305	54,788
G. Estimated Total Expenditures For ERCS (O. H. Materials) Contract thru 2/20/88	
1a. Estimated ERCS (O. H. Materials) expenditures for delivery of bottled water as of 2/20/88 DCN #KCS-305	54,750
1b. Balance remaining for ERCS (O. H. Materials) Contract Cost	38
H. EPA Intramural Costs (Estimated)	
1. Total Authorized	84,839
2. Estimated Expenditures as of 2/20/88	79,000
3. Estimated Balance	5,839

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I. EPA Extramural (TAT) Costs (Estimated)

1. Total Authorized	58,072
2. Estimated Expenditures as of 2/20/88	57,000
3. Estimated Balance	1,072

J. Other Costs Authorized (Contingency)

1. Total Authorized	72,072
2. Estimated Expenditures as of 2/20/88	72,072
3. Estimated Balance	0

K. Total Expenditures As Of 2/20/88 and % of 2 Million	730,750 (36.54%)
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L. Percentage of Total Project Ceiling	86.77%
---	--------

FINAL POLREP _____ FURTHER POLREPS _____ X _____ SUBMITTED BY *E. Makarewicz*
 (TAT) FORTHCOMING _____ E. Makarewicz, OSC
 Response and
 Prevention Branch

Date Released _____

U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: May 7, 1988

Region II
Response & Prevention Branch
Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
J. Rotola, EPA
ERD, Washington,
(E-Mail)
W. Andrews, EPA
E. Sullivan, NYSDEC
D. Axelrod, NYSDOH
TAT

POLREP NO.: Forty seven (47), Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATIONS: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye
Falls, Livingston/Monroe County,
New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

A. Situation remains the same as described in POLREP Number Forty six (46).

B. OSC continues to verify the costs associated with the site activities and update the site report.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. The DSM personnel will resume the permanent restoration of pavement along the remaining portion of Ideson Road in the spring of 1988.

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B. The RWW contractor will mobilize during the spring of 1988 to complete the top soil addition and seeding in the affected area.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 842,100
B. Total Funds Authorized for all Mitigation Contracts	669,900
C. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	606,278
D. Estimated Total Expenditures For RWW Mitigation Contracts thru 2/20/88	540,000
1a. RWW Contract Cost For Water Main Installation as of 2/20/88	375,000
1b. RWW's Subcontractor cost to install service connections and rock excavation.	165,000
E. Balance remaining for RWW Contract Cost	66,278
F. Funds Authorized for Bottled Water Delivery ERCS (O. H. Materials) DCN #KCS-305	54,788
G. Estimated Total Expenditures For ERCS (O. H. Materials) Contract thru 2/20/88	
1a. Estimated ERCS (O. H. Materials) expenditures for delivery of bottled water as of 2/20/88 DCN #KCS-305	54,750
1b. Balance remaining for ERCS (O. H. Materials) Contract Cost	38
H. EPA Intramural Costs (Estimated)	
1. Total Authorized	84,839
2. Estimated Expenditures as of 2/20/88	79,000
3. Estimated Balance	5,839

I. EPA Extramural (TAT) Costs (Estimated)

1. Total Authorized	58,072
2. Estimated Expenditures as of 2/20/88	57,000
3. Estimated Balance	1,072

J. Other Costs Authorized (Contingency)

1. Total Authorized	72,072
2. Estimated Expenditures as of 2/20/88	72,072
3. Estimated Balance	0

K. Total Expenditures As Of 2/20/88 and % of 2 Million	730,750 (36.54%)
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L. Percentage of Total Project Ceiling	86.77%
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FINAL POLREP (TAT) _____ FURTHER POLREPS FORTHCOMING _____ X SUBMITTED BY *E. Makarewicz*
 E. Makarewicz, OSC
 Response and
 Prevention Branch

Date Released _____

U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: May 14, 1988

Region II
Response & Prevention Branch
Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
J. Rotola, EPA
ERD, Washington,
(E-Mail)
W. Andrews, EPA
E. Sullivan, NYSDEC
D. Axelrod, NYSDOH
TAT

POLREP NO.: Forty eight (48), Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATIONS: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye
Falls, Livingston/Monroe County,
New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

A. Situation remains the same as described in POLREP Number Forty seven (47).

B. The RWW contractor resumed construction activity during the week beginning May 9, 1988. The contractor completed the topsoil placement at the meter vault located on Martin Road and on Ontario Street.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. The topsoil placement and seeding along the remaining portion of Ideson Road, disturbed by the water main installation, will be done by the RWW contractor.

211 of 225

B. The restoration of lawn in the disturbed area will also be done by the subcontractor.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 842,100
B. Total Funds Authorized for all Mitigation Contracts	669,900
C. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	606,278
D. Estimated Total Expenditures For RWW Mitigation Contracts thru 2/20/88	544,000
1a. RWW Contract Cost For Water Main Installation as of 2/20/88	379,000
1b. RWW's Subcontractor cost to install service connections and rock excavation.	165,000
E. Balance remaining for RWW Contract Cost	62,278
F. Funds Authorized for Bottled Water Delivery ERCS (O. H. Materials) DCN #KCS-305	54,788
G. Estimated Total Expenditures For ERCS (O. H. Materials) Contract thru 2/20/88	
1a. Estimated ERCS (O. H. Materials) expenditures for delivery of bottled water as of 2/20/88 DCN #KCS-305	54,750
1b. Balance remaining for ERCS (O. H. Materials) Contract Cost	38
H. EPA Intramural Costs (Estimated)	
1. Total Authorized	84,839
2. Estimated Expenditures as of 2/20/88	79,500
3. Estimated Balance	5,839

I. EPA Extramural (TAT) Costs (Estimated)

1. Total Authorized	58,072
2. Estimated Expenditures as of 2/20/88	57,300
3. Estimated Balance	772

J. Other Costs Authorized (Contingency)

1. Total Authorized	72,072
2. Estimated Expenditures as of 2/20/88	72,072
3. Estimated Balance	0

K. Total Expenditures As Of 2/20/88 and % of 2 Million	735,550 (36.78%)
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L. Percentage of Total Project Ceiling	87.35%
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FINAL POLREP (TAT) _____ FURTHER POLREPS FORTHCOMING _____ X SUBMITTED BY *E. Makarewicz*
 E. Makarewicz, OSC
 Response and
 Prevention Branch

Date Released _____

U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: May 21, 1988

Region II
 Response & Prevention Branch
 Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
 24 Hour Emergency

TO: C. Daggett, EPA
 S. Luftig, EPA
 F. Rubel, EPA
 J. Marshall, EPA
 G. Zachos, EPA
 J. Czapor, EPA
 J. Rotola, EPA
 ERD, Washington,
 (E-Mail)
 W. Andrews, EPA
 E. Sullivan, NYSDEC
 D. Axelrod, NYSDOH
 TAT

POLREP NO.: Forty nine (49), Phase II
 INCIDENT/SITE NO.: North Bloomfield, New York/L9
 POLLUTANT: Volatile Organics
 CLASSIFICATIONS: Major
 SOURCE: Unknown
 LOCATION: North Bloomfield, Town of Lima/Honeoye
 Falls, Livingston/Monroe County,
 New York
 AMOUNT: Unknown
 WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

- A. Situation remains the same as described in POLREP Number Forty eight (48).
- B. The RWW contractor initiated topsoil placement and seeding in the area disturbed by the water main installation.
- C. The subcontractor to RWW initiated lawn restoration in the are disturbed by copper line installation.
- D. The Division of Street Maintenance (DSM) personnel completed the permanent restoration pavement along the remaining portion of Ideson Road.

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2. FUTURE PLANS AND RECOMMENDATIONS:

A. The RWW contractor will continue the restoration work in the area disturbed by water main installation.

B. The lawn restoration in the area disturbed by copper line placement will be continued.

C. The RWW contractor will clean up the site and grade the material storage area.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 842,100
B. Total Funds Authorized for all Mitigation Contracts	669,900
C. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	606,278
D. Estimated Total Expenditures For RWW Mitigation Contracts thru 2/20/88	555,000
1a. RWW Contract Cost For Water Main Installation as of 2/20/88	390,000
1b. RWW's Subcontractor cost to install service connections and rock excavation.	165,000
E. Balance remaining for RWW Contract Cost	51,278
F. Funds Authorized for Bottled Water Delivery ERCS (O. H. Materials) DCN #KCS-305	54,788
G. Estimated Total Expenditures For ERCS (O. H. Materials) Contract thru 2/20/88	
1a. Estimated ERCS (O. H. Materials) expenditures for delivery of bottled water as of 2/20/88 DCN #KCS-305	54,750
1b. Balance remaining for ERCS (O. H. Materials) Contract Cost	38

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H. EPA Intramural Costs (Estimated)

1. Total Authorized	84,839
2. Estimated Expenditures as of 2/20/88	80,000
3. Estimated Balance	4,839

I. EPA Extramural (TAT) Costs (Estimated)

1. Total Authorized	58,072
2. Estimated Expenditures as of 2/20/88	57,700
3. Estimated Balance	372

J. Other Costs Authorized (Contingency)

1. Total Authorized	72,072
2. Estimated Expenditures as of 2/20/88	72,072
3. Estimated Balance	0

K. Total Expenditures As Of 2/20/88 and % of 2 Million	747,450 (37.37%)
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L. Percentage of Total Project Ceiling	88.76%
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FINAL POLREP (TAT) _____ FURTHER POLREPS FORTHCOMING _____ X SUBMITTED BY *E. Makarewicz*
 E. Makarewicz, OSC
 Response and
 Prevention Branch

Date Released _____

U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: May 28, 1988

Region II
Response & Prevention Branch
Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
J. Rotola, EPA
ERD, Washington,
(E-Mail)
W. Andrews, EPA
E. Sullivan, NYSDEC
D. Axelrod, NYSDOH
TAT

POLREP NO.: Fifty (50), Phase II
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATIONS: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye
Falls, Livingston/Monroe County,
New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

A. Situation remains the same as described in POLREP Number Forty nine (49).

B. The RWW contractor completed the placement of topsoil and seeding in the area disturbed by the water main installation.

C. The lawn restoration in the area disturbed by copper line installation was completed by the subcontractor.

2. FUTURE PLANS AND RECOMMENDATIONS:

A. The RWW contractor will clean up the site and the material storage area.

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B. The RWW contractor will demobilize from the site.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 842,100
B. Total Funds Authorized for all Mitigation Contracts	669,900
C. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	606,278
D. Estimated Total Expenditures For RWW Mitigation Contracts thru 2/20/88	563,000
1a. RWW Contract Cost For Water Main Installation as of 2/20/88	398,000
1b. RWW's Subcontractor cost to install service connections and rock excavation.	165,000
E. Balance remaining for RWW Contract Cost	43,278
F. Funds Authorized for Bottled Water Delivery ERCS (O. H. Materials) DCN #KCS-305	54,788
G. Estimated Total Expenditures For ERCS (O. H. Materials) Contract thru 2/20/88	
1a. Estimated ERCS (O. H. Materials) expenditures for delivery of bottled water as of 2/20/88 DCN #KCS-305	54,750
1b. Balance remaining for ERCS (O. H. Materials) Contract Cost	38

H. EPA Intramural Costs (Estimated)

1. Total Authorized	84,839
2. Estimated Expenditures as of 2/20/88	82,000
3. Estimated Balance	2,839

I. EPA Extramural (TAT) Costs (Estimated)

1. Total Authorized	58,072
2. Estimated Expenditures as of 2/20/88	58,000
3. Estimated Balance	72

J. Other Costs Authorized (Contingency)

1. Total Authorized	72,072
2. Estimated Expenditures as of 2/20/88	72,072
3. Estimated Balance	0

K. Total Expenditures As Of 2/20/88 and % of 2 Million	757,750 (37.88%)
---	---------------------

L. Percentage of Total Project Ceiling	89.98%
---	--------

FINAL POLREP (TAT) _____ FURTHER POLREPS FORTHCOMING _____ X SUBMITTED BY *E. Makarewicz*
 E. Makarewicz, OSC
 Response and
 Prevention Branch

Date Released _____

U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

POLLUTION REPORT

DATE: June 4, 1988

Region II
 Response & Prevention Branch
 Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
 24 Hour Emergency

TO: C. Daggett, EPA
 S. Luftig, EPA
 F. Rubel, EPA
 J. Marshall, EPA
 G. Zachos, EPA
 J. Czapor, EPA
 J. Rotola, EPA
 ERD, Washington,
 (E-Mail)
 W. Andrews, EPA
 E. Sullivan, NYSDEC
 D. Axelrod, NYSDOH
 TAT

POLREP NO.: Fifty one (51), Phase II
 INCIDENT/SITE NO.: North Bloomfield, New York/L9
 POLLUTANT: Volatile Organics
 CLASSIFICATIONS: Major
 SOURCE: Unknown
 LOCATION: North Bloomfield, Town of Lima/Honeoye
 Falls, Livingston/Monroe County,
 New York
 AMOUNT: Unknown
 WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

- A. Situation remains the same as described in POLREP Number Fifty (50).
- B. The RWW contractor cleaned up the site and graded the material storage area.
- C. The RWW contractor demobilized from the site.

2. FUTURE PLANS AND RECOMMENDATIONS:

- A. Site related construction activities are completed. An OSC Report will follow.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 842,100
B. Total Funds Authorized for all Mitigation Contracts	669,900
C. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	606,278
D. Estimated Total Expenditures For RWW Mitigation Contracts thru 2/20/88	566,000
1a. RWW Contract Cost For Water Main Installation as of 2/20/88	401,000
1b. RWW's Subcontractor cost to install service connections and rock excavation.	165,000
E. Balance remaining for RWW Contract Cost	40,278
F. Funds Authorized for Bottled Water Delivery ERCS (O. H. Materials) DCN #KCS-305	54,788
G. Estimated Total Expenditures For ERCS (O. H. Materials) Contract thru 2/20/88	
1a. Estimated ERCS (O. H. Materials) expenditures for delivery of bottled water as of 2/20/88 DCN #KCS-305	54,750
1b. Balance remaining for ERCS (O. H. Materials) Contract Cost	38

H. EPA Intramural Costs (Estimated)

1. Total Authorized	84,839
2. Estimated Expenditures as of 2/20/88	81,000
3. Estimated Balance	3,839

I. EPA Extramural (TAT) Costs (Estimated)

1. Total Authorized	58,072
2. Estimated Expenditures as of 2/20/88	58,000
3. Estimated Balance	72

J. Other Costs Authorized (Contingency)

1. Total Authorized	72,072
2. Estimated Expenditures as of 2/20/88	72,072
3. Estimated Balance	0

K. Total Expenditures As Of 2/20/88 and % of 2 Million	759,750 (37.98%)
---	---------------------

L. Percentage of Total Project Ceiling	90.22%
---	--------

FINAL POLREP _____ FURTHER POLREPS _____ X
 (TAT) _____ FORTHCOMING _____ SUBMITTED BY *E. Makarewicz*
 E. Makarewicz, OSC
 Response and
 Prevention Branch

Date Released _____

222 of 225

U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION II
POLLUTION REPORT

DATE: August 1, 1988

Region II
Response & Prevention Branch
Edison, NJ 08837

(201) 548-8730 - Commercial and FTS
24 Hour Emergency

TO: C. Daggett, EPA
S. Luftig, EPA
F. Rubel, EPA
J. Marshall, EPA
G. Zachos, EPA
J. Czapor, EPA
J. Rotola, EPA
ERD, Washington,
(E-Mail)
W. Andrews, EPA
E. Sullivan, NYSDEC
D. Axelrod, NYSDOH
TAT

POLREP NO.: Fifty-two (52) Final
INCIDENT/SITE NO.: North Bloomfield, New York/L9
POLLUTANT: Volatile Organics
CLASSIFICATIONS: Major
SOURCE: Unknown
LOCATION: North Bloomfield, Town of Lima/Honeoye
Falls, Livingston/Monroe County,
New York
AMOUNT: Unknown
WATER BODY: Groundwater

1. SITUATION/ACTION TAKEN:

- A. Situation remains the same as described in POLREP Number Fifty one (51).
- B. The RWW contractor cleaned up the site and graded the material storage area.
- C. The RWW contractor demobilized from the site.

2. FUTURE PLANS AND RECOMMENDATIONS:

- A. Site related construction activities have been completed. An OSC Report will follow.

3. FINANCIAL STATUS:

A. Total Project Ceiling Authorized	\$ 842,100
B. Total Funds Authorized for all Mitigation Contracts	669,900
C. Funds Authorized for Mitigation Contracts (City Of Rochester Water Works) for Water Main Installation	606,278
D. Estimated Total Expenditures For RWW Mitigation Contracts thru 01/09/88	566,000
1a. RWW Contract Cost For Water Main Installation as of 11/14/87	401,000
1b. RWW's Subcontractor cost to install service connections	165,000
E. Balance remaining for RWW Contract Cost	40,278
F. Funds Authorized for Bottled Water Delivery ERCS (O. H. Materials) DCN #KCS-305	54,788
G. Estimated Total Expenditures For ERCS (O. H. Materials) Contract thru 01/09/88	
1a. Estimated ERCS (O. H. Materials) expenditures for delivery of bottled water as of 01/09/88, DCN #KCS-305	54,750
1b. Balance remaining for ERCS (O. H. Materials) Contract Cost	38
H. EPA Intramural Costs (Estimated)	
1. Total Authorized	84,839
2. Estimated Expenditures as of 01/09/88	81,000
3. Estimated Balance	3,839
I. EPA Extramural (TAT) Costs (Estimated)	
1. Total Authorized	58,072
2. Estimated Expenditures as of 01/09/88	58,000

3. Estimated Balance	72
J. Other Costs Authorized (Contingency)	
1. Total Authorized	72,072
2. Estimated Expenditures as of 01/09/88	72,072
3. Estimated Balance	0.0
K. Total Expenditures As Of 01/09/88 and % of 2 Million	759,750 (37.98%)
L. Percentage of Total Project Ceiling	90.22%

FINAL POLREP X FURTHER POLREPS FORTHCOMING SUBMITTED BY *E. Makarewicz*
 (TAT) E. Makarewicz, OSC
 Response and
 Prevention Branch

Date Released

REFERENCE NO. 3

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION II

DATE:

5 JUN 1986

SUBJECT:

Removal Funding Request for An Alternate Water Supply for
North Bloomfield, Town of Lima, Livingston County, New York -
ACTION MEMORANDUM

FROM:

Joseph Rotola, On-Scene Coordinator
Response and Prevention Branch

TO:

Christopher J. Daggett
Regional Administrator

THRU: William J. Librizzi, Director
Emergency and Remedial Response Division

I. EXECUTIVE SUMMARY

On August 15, 1985 Norman Nosenchuck, Director of the Division of Solid and Hazardous Waste for the New York State Department of Environmental Conservation (NYSDEC) formally requested that the United States Environmental Protection Agency (EPA) assess a documented groundwater contamination problem affecting residents of North Bloomfield, New York for a CERCLA Immediate Removal Action.

During the months of March through November of 1985, the New York State Department of Health (NYSDOH) and the Livingston County Department of Health (LCDOH) sampled thirty-eight private residential drinking water wells and one drinking water well utilized by a local industrial facility. The sampling results were received by this office on August 15, 1985 and on November 1, 1985. The results of these sampling activities indicated that twenty-two of these wells are contaminated with varying concentrations of trichloroethylene, 1,1,1-trichloroethane, trans 1,2-dichloroethene, 1,1,2-trichloroethane, 1,2-dichloroethane and tetrachloroethylene. Of these, three (3) exceeded EPA's 200 ppb 10 day Health Advisory Level for Trichloroethylene, four (4) exceeded the NYSDOH Guideline limits for potable water, two (2) more closely approached that guideline and thirteen (13) showed contamination above quantifiable detection levels.

On December 2, 1985, EPA initiated bottled water delivery at residences in the contaminated area and area at risk. The provision of bottled water will continue until a permanent solution can be planned and implemented.

1 of 36

Based on these data and the fact that the affected residential population currently depends on their wells as a sole source of potable water, there is a potential significant and immediate threat to human health. A removal action under CERCLA is recommended to provide for the installation of a water main and distribution system to residents identified as being in areas of risk.

II. BACKGROUND

A. Site Setting/Description

North Bloomfield is a small residential community located in the northwestern portion of the Finger Lakes Region of New York State. The area is rural in nature and is comprised primarily of farmland (a location map is presented in Figure 1). The only industrial/commercial establishments in the area consist of Cranes Collision, an automobile repair shop (located at the Tondryk residence) and Enarc-O-Machine Products, Inc., a manufacturer of screw machine products, and drain and shut-off valves.

As illustrated in Figure 2, North Bloomfield is bisected by Honeoye Creek which flows in a northerly direction toward the town of Honeoye Falls. With the exception of approximately four homes, residents to the east of the creek are on a public water system served by the Monroe County Water Authority (MCWA). The residents located to the west of Honeoye Creek rely on private wells for their drinking water. The location of the two nearest existing mains (City of Rochester and MCWA) are presented in Figure 2.

The area of known groundwater contamination is limited to that portion of North Bloomfield which is included in the Town of Lima and is located west of Honeoye Creek, including Ideson Road and portions of Bragg Street and Martin Road. All of the (four) homes located to the east of Honeoye Creek known to be on wells have been found to be uncontaminated.

B. Quantity and Types of Substances Present

The five major organic contaminants that have been identified during past residential well sampling and analysis activities include:

<u>Contaminant</u>	<u>Maximum Concentration Found (ppb)</u>	<u>Statutory Source for Designation under CERCLA</u>
Trichloroethylene	1,800	Clean Water Act Section 311(b)(4)
Trans 1,2-Dichloroethene	89	Clean Water Act Section 307(a)
1,1,1-Trichloroethane	560	Clean Water Act Section 307(a)
1,1,2,2-Tetrachloroethane	68	Clean Water Act Section 307(a)
Tetrachloroethane	100	Clean Water Act Section 307(a)

A summary of the contaminants found in the area's drinking water is presented in Appendix I. Table I summarizes all data collected that exceed EPA 10-day Health Advisory levels. Table II presents those contaminants that exceed or approach NYSDOH Drinking Water Standards. A summary of the toxicological characteristics of each contaminant is presented in Table III.

C. This site is not on the National Priorities List (NPL).

III. THREAT

A. Threat to Public Exposure

This is a case of actual contamination at the tap in twenty-one residences and one local industry. In addition, there is the threat that this contamination may affect eleven additional nearby residences in the immediate future.

The maximum total concentration of contaminants in this area was found at the Enarc-O-Machine site with a total of 2,170 ppb of organics. Although an EPA Health Advisory level has not been designated for the major contaminant at the Enarc-O-Machine site, 1,1,1-trichloroethane this total greatly exceeds the NYSDOH drinking water guidelines of 100 ppb total organic chemicals. Trichloroethylene has been observed in three wells at levels of 1,800 ppb, (at the Enarc-O-facility) 318 ppb and 260 ppb, all of which exceed the 200 ppb EPA 10-Day Health Advisory for this

contaminant. Of the residences affected, seven (7) in total, including the three above, exceed the NYSDOH guideline limits for potable water. Homes exceeding EPA 10-day Health Advisory levels and NYSDOH guidelines are presented in Figure 3.

On November 13, 1985, a Maximum Contaminant Level (MCL) of 5 ppb was proposed for trichloroethylene. MCL's are enforceable levels established under the Safe Drinking Water Act which specify acceptable concentrations of volatile organics in public potable water supplies. The MCL is set as close as feasible to the Recommended Maximum Contaminant level (RMCL), a concentration that would result in no known or anticipated health effect. EPA has established an RMCL for trichloroethylene of 0. Of the twenty-two (22) wells that have been found to contain contaminants, nineteen (19) exceed the proposed MCL for trichloroethylene.

In addition to the potential for exposure through drinking or eating food prepared with water, tests have been conducted at Pomona Oaks, New Jersey which show that when showering with water contaminated with volatile organics, the levels of the contaminants in the air become significantly elevated and thus pose an additional hazard by direct contact (skin absorption) and by inhalation.

The presence of several chlorinated hydrocarbons within the groundwater also poses a potential for synergistic toxic effects resulting from exposure to a combination of these compounds.

Due to the nature of the geology in the study area, which consists of shale, vertical and horizontal fractures may result in highly unpredictable contaminant migration. In addition, soil overlying the shale and in the immediate vicinity of Enarc-O-Machine Products (the suspected source of contamination) belongs to the Palmyra fine sandy loam series. Having developed from a parent material of glacial outwash consisting of sand and gravel, this soil is well drained down to the water table or rock. Such characteristics indicate a high potential for contaminant migration.

An attempt to characterize the aquifer would require the installation of monitoring wells and the implementation of a long term sampling plan which, due to time considerations, are beyond the scope of an immediate removal action. Therefore, it is recommended

that all residences within the contaminated area and area at risk be included and connected to the proposed new watermain (See Figure 4).

B. Evidence of Extent of Release

Sampling and analyses performed by NYSDOH and LCDOH have identified an incidence of contaminated ground-water which is quantitatively described in Section II-B.

As presented in Figure 4, the extent of contamination and area at risk includes 33 drinking water wells of which, twenty-two currently have contamination at the tap.

C. Previous Actions to Abate Threat

The NYSDOH and LCDOH have advised residents at public meetings and by letter of the concentrations of contaminants found in their drinking water and recommended that they use bottled water or some alternate supply.

On December 2, 1985, EPA initiated bottled water delivery at residences in the contaminated area and area at risk. This action will continue until a permanent alternate water supply can be provided.

Regional management decisions concerning provision of bottled water to commercial establishments resulted in not supplying Enarc-O-Machine Company or Crane's Collision.

D. Current Actions to Abate Threat

On July 12, 1985, the Town of Lima received a Small Cities Grant from the U.S. Department of Housing and Urban Development (HUD). The purpose of the \$600,000 grant was to interconnect Lima's existing water supply system with that of either the Monroe County Water Authority or the City of Rochester. Presently, the town utilizes two water supply wells that have, over the years, decreased in both quality and yield. As a result of this grant, these wells will eventually be abandoned. The total cost of this project has been estimated to be between 1.4 and 1.7 million dollars.

On February 12, 1986, the Town of Lima and one of the potentially responsible parties in this matter, Enarc-O-Machine Products, Inc., made a proposal to EPA whereby the Town would install water mains and resi-

dential hookups to serve the residents at risk in North Bloomfield with the help of a \$100,000 contribution from Enarc-O. The Town's willingness to undertake this project, however, was contingent upon the outcome of a public referendum regarding the issue of whether a local water district should be created. This referendum was defeated on April 8, 1986. It now appears doubtful, at best, that the Town could install water mains in North Bloomfield in a timely manner.

IV. ENFORCEMENT

EPA's enforcement efforts thus far officially recognize three potentially responsible parties: Enarc-O-Machine Products, Inc., Enarc-o's parent company, Kaddis Manufacturing Corp., and the president of each of those companies, Ronald Iannucci. As noted previously, the highest total concentrations of contaminants found in North Bloomfield thus far have been in the well at Enarc-O's facility. EPA has sent notice letter to Enarc-O, Kaddis Manufacturing and Ronald Iannucci. In response to these letters, the PRP's have denied responsibility for the groundwater contamination in the area and have declined to volunteer to undertake, on their own, either the provision of bottled water to the residents at risk or the installation of water mains. As noted above, Enarc-O has offered to help the Town fund the water main project for North Bloomfield should the Town undertake this project itself. As stated above, however, it does not appear that the Town would be able to install the mains in a timely manner.

V. PROPOSED PROJECT AND COST

A. Objective of the Project

The primary objective of this proposed action is to mitigate the existing threat to public health imposed by contaminants found in the water supply of the residents of North Bloomfield, NY. In order to accomplish this objective, it will be necessary to extend the existing water main and provide hookups to residents in the risk area (Figure 4).

The area of major concern is presented in Figure 5 and consists of 32 residences and one industry that are proposed to be included in this action.

The installation of the main can be accomplished by contracting one of two public water authorities. Both the city of Rochester and the Monroe County Water Authority (MCWA) have existing mains at the site and are both capable of extending their systems through the use of on line contractors.

Until recently, the NYSDOH recommended against using the City of Rochester due to their failure to meet state drinking water requirements for turbidity. However, due to strong opposition from the city and potential delays in the main installation, the NYSDOH requested a meeting between NYSDEC, the Town of Lima, MCWA and the City of Rochester. At the meeting, all parties agreed that the most expeditious solution for resolving the current drinking water contamination problem would be to extend the City of Rochester's system to all affected and potentially affected residents in North Bloomfield. During times when the City of Rochester's water could not meet state standards for turbidity, the Town of Lima would purchase filtered water from the MCWA via a connection on Ontario Street.

A letter from the NYSDOH which summarizes the results of this meeting is presented in Appendix III.

B. Project Estimated Cost

The estimated costs for water distribution system are stated below and include taps, meters, and hookups to all 33 affected and potentially affected dwellings on private wells. In addition to costs provided below, a detailed cost breakdown is provided in Table IV.

The 1700' of 12" pipe included in the project costs is required to allow sufficient flow in the project area while maintaining adequate water pressure during periods when the Monroe County Water Authority is used as a source of potable water. This pipe would be installed on Ideson Rd. to it's intersection with Martin Rd. and then West to the City of Rochester water main.

Estimated project costs are as follows:

1) Materials - Ref. Page 21	\$170,532
2) Equipment - Ref. Page 21	41,846
3) Labor - - Ref. Page 21	<u>83,354</u>
	\$295,732
4) 20% Contingency of items #1, #2, and #3	<u>59,146</u>
Subtotal (<u>Mitigation Contract Costs</u>)	\$354,878
5) Extramural (TAT) Costs	\$36,000
6) Intramural EPA Costs	<u>\$20,000</u>
Subtotal	\$410,878
7) Other Costs 15% of all above costs	<u>61,632</u>
<u>Total Estimated Project Cost</u>	\$472,510
Monies authorized to date on previous removal action (bottled water)	<u>40,036</u>
TOTAL	<u>\$512,546</u>

C. Project Schedule

The provision of bottled water was approved on November 27, 1985, with the first shipment of water to the residents taking place on December 2, 1985.

Mobilization of equipment and materials for the installation of the water main by the City of Rochester is expected to take 2 weeks. The City has agreed to work with the design previously completed for the North Bloomfield area by the City of Lima's consulting engineers.

Excavation, placement of piping and backfilling is estimated to require 5 months, depending on the extent of rock in the area. Household connections will also be installed during this time period.

The City of Rochester has also proposed to phase the main installation. The first phase would extend the existing main down Martin Road and provide potable water to those residents with the highest concentrations of contaminants. This portion of the work can be completed in approximately 2.5 months.

A prerequisite for the successful completion of the above work will be the prior agreement of each homeowner to pay for their own water.

Consideration was given to installing activated carbon treatment units instead of a water main. However, this option was rejected based on the following reasons:

1. The presence of fractured rock presents a high potential for long term contamination to exist. The high potential for random intermittent releases exists and systems would have to be maintained and operated for an extended period of time.
2. Conditions described above would require the implementation of a long term monitoring program to ensure against breakthrough. In addition to frequent sampling, the provision of costly virgin carbon would be necessary.
3. Without funding by EPA, the state and the county have not agreed to maintain and operate the proposed activated carbon treatment systems beyond the CERCLA six-month time limit. Without a proper maintenance, operation and monitoring program, it is likely that, over an extended period of time, many of the homes would show breakthrough contamination. Prior EPA experience with long term state and county maintenance and operation of such systems has been unsatisfactory (i.e., Olean, NY).
4. The total estimated contracting cost to provide filters and associated sampling for the 32 homes and one industry in question is estimated at \$348,000 (See Appendix V). This cost exceeds the \$295,732 contracting costs for installation of the watermain.

It appears from the above that the installation of a water main is the most cost effective viable action alternative. It will result in a rapid and permanent solution to drinking water contamination in the North Bloomfield, NY area.

I therefore recommend your approval of the mains extension installation described above to provide a safe supply of drinking water to the residents of the North Bloomfield, NY area.

The estimated cost of this project is \$472,510, of which \$354,878 are for mitigation contracting. Approval would bring the authorized contracting funding to \$386,692 and the total authorized funding to \$512,546.

It is understood that pending reauthorization of CERCLA, funding for this project is not now available. Therefore, implementation of this action cannot be started until funds are available. Meanwhile, bottled water will continue to be provided.

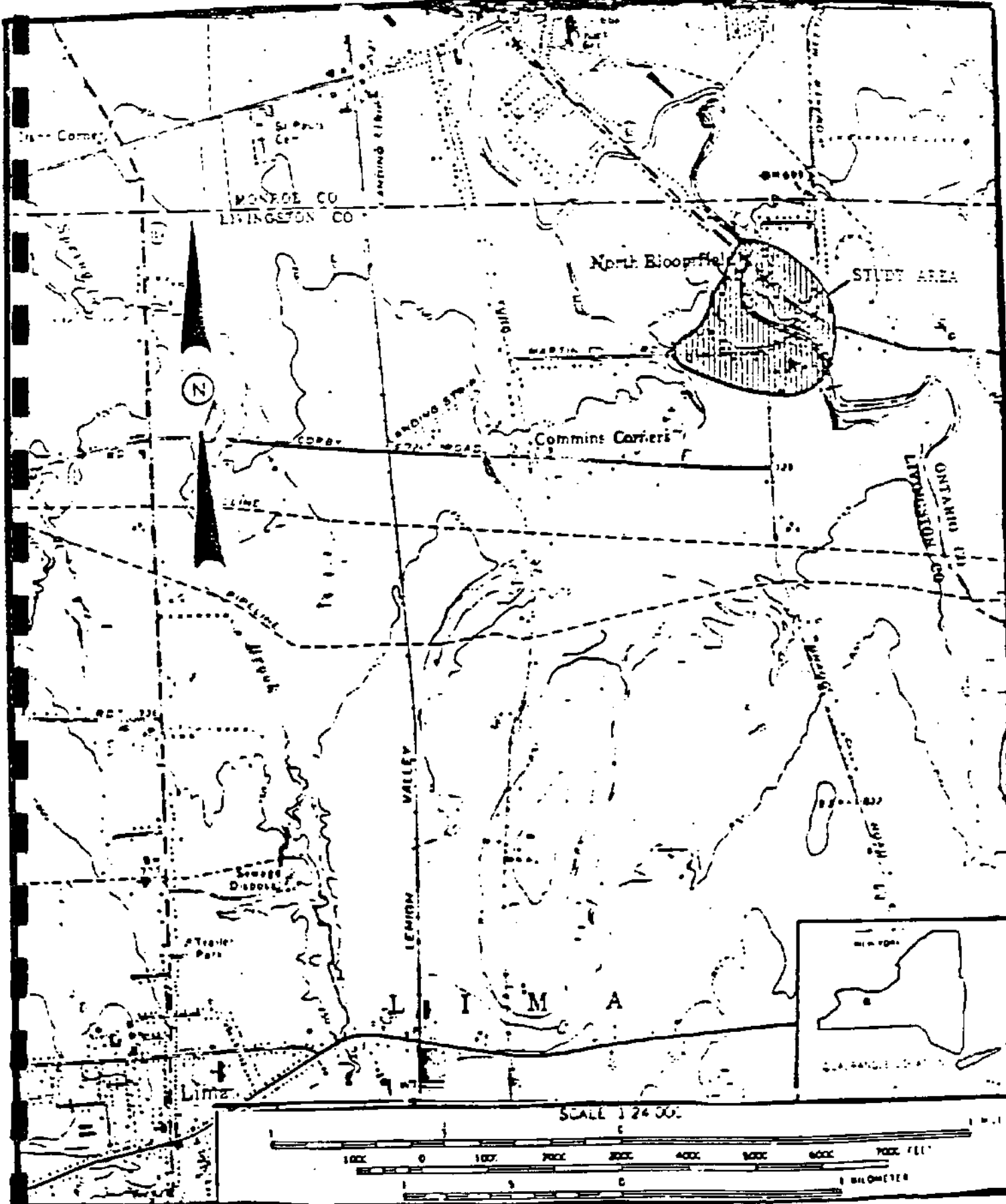
Your authority to authorize these funds is pursuant to Deputy Administrator Alvin Alm's April 16, 1984 memorandum, Delegation Number 14-1-A.

Approval: Christopher J. Dayett Date: JUNE 11, 1986

Disapproval: _____ Date: _____

cc: W. Librizzi, 2ERR
F. Rubel, 2ERR-RP
G. Zachos, 2ERR-RP
S. Luftig, 2ERR-SIC
G. Pavlou, 2ERR-NYCRA
J. Marshall, 2OEP
L. Diamond, 2ORC-SUP
R. Gherardi, 2OPM-FIN
P. McKechnie, 2IG
P. Flynn, PM-214F (EXPRESS MAIL)
T. Fields, WH-548B
H. Longest, WH-548
N. Nosenchuck, NYSDEC

FIGURES



WESTERN SPILL PREVENTION & EMERGENCY RESPONSE DIVISION	EPA PM J. Kotola	Figure 1 Site Location Map
in association with ICF, Inc., Jacobs Engineering, Inc., & Tetra Tech, Inc.	TAT PM N. De Rose	North Bloomfield, N.Y.

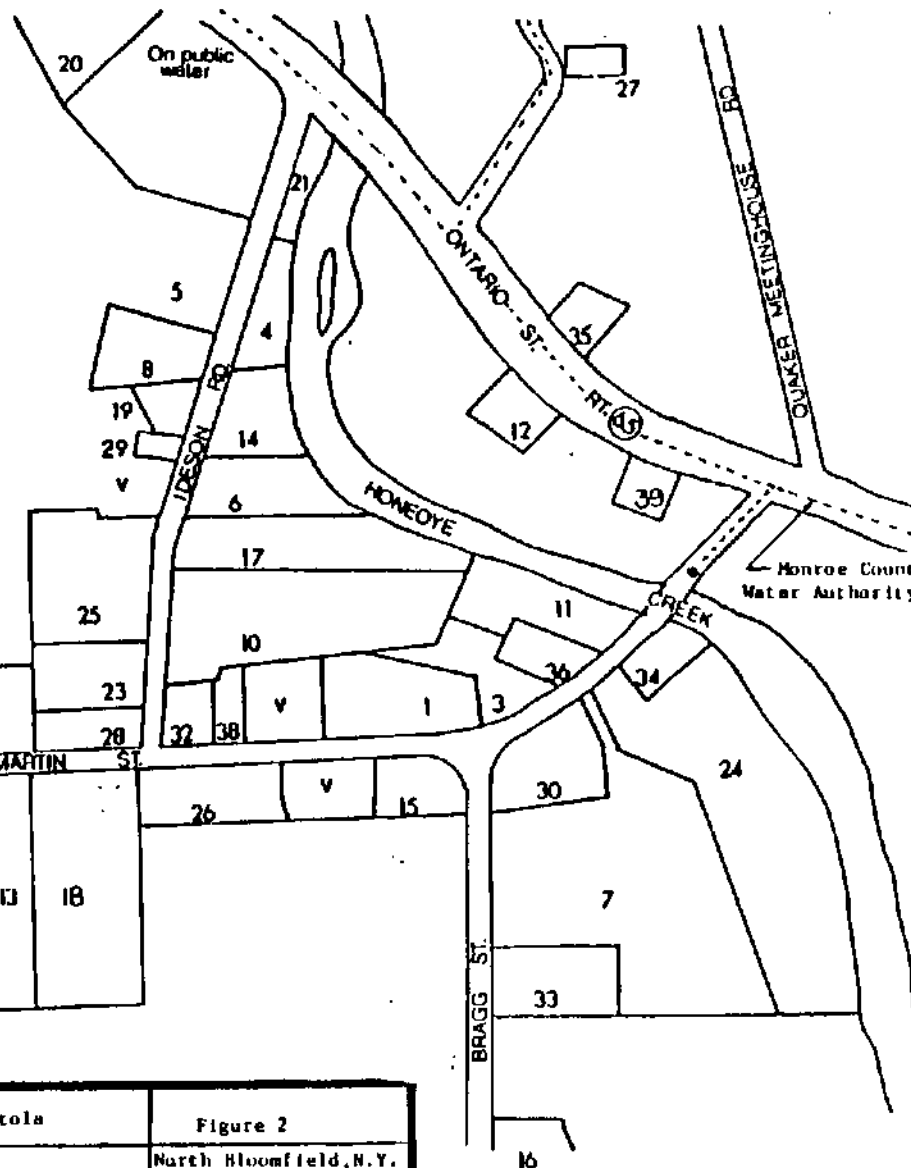


City of Rochester
Water Main

LEGEND

- Existing hydrant
- Existing water main
- v Vacant lot

Not to Scale



ADDRESS KEY

NUMBER	ADDRESS
1 •	Boonstra 7859 Martin Rd.
2 •	Bush 7787 Martin Rd.
3 •	Cavaller 7845 Martin Rd.
4 •	Chambers 1091 Ideason Rd.
5 •	Colavito 1090 Ideason Rd.
6 •	Cooper 1121 Ideason Rd.
7 •	Enatic-D 1175 Bragg St.
8 •	Endicott 1108 Ideason Rd.
9 •	Fessler 7783 Martin Rd.
10 •	Freedman 1147 Ideason Rd.
11 •	Garvey 7883 Martin Rd.
12 •	George 1886 Ontario St.
13 •	Ghostlaw 7808 Martin Rd.
14 •	Hart 1111 Ideason Rd.
15 •	Hopkins 7852 Martin Rd.
16 •	Horan 1382 Bragg St.
17 •	Johnson 1129 Ideason Rd.
18 •	Johnson 7820 Martin Rd.
19 •	Meloy 1116 Ideason Rd.
20 •	Mantegna 2390 Ontario St.
21 •	Miller 1081 Ideason Rd.
22 •	O'Brien 7801 Martin Rd.
23 •	Reano 1146 Ideason Rd.
24 •	Rogers 7880 Martin Rd.
25 •	Sankert 1140 Ideason Rd.
26 •	Saunders 7838 Martin Rd.
27 •	Seltzer 9644 Beanhill P.
28 •	Shellman 1154 Ideason Rd.
29 •	Vacant 1110 Ideason Rd.
30 •	Smith 1167 Bragg St.
31 •	Swanger 7750 Martin Rd.
32 •	Tompkins 1155 Ideason Rd.
33 •†	Tondryk 1191 Bragg St.
34 •	Vellekoop 7886 Martin Rd.
35 •	Wagner 1897 Ontario St.
36 •	Years 7873 Martin Rd.
37 •	Slade 7796 Martin Rd.
38 •	Neversett 7829 Martin Rd.
39 •	Stinson 1550 Ontario St.

• Currently Contaminated Well
† Crane Collision also at this location
and served by Tondryk well.

	SPILL PREVENTION & EMERGENCY RESPONSE DIVISION	
	EPA PM J. Rotola	Figure 2
	in association with	North Bloomfield, N.Y.
• C. Inc., Jacobs Engineering, Inc. & Tech Tech, Inc.	NYC PM N. De Rune	Residential Well Location Map



Not to Scale

LEGEND

- ◆ Exceeded EPA SMARLE for TCE
- >30ppb any one organic compound or >100ppb total organic compound
- <30ppb any one organic compound or <100ppb total organic compound
- None detected
- Homes to be sampled by NYSDOH
- 2 See address key
- v Vacant lot
- Existing water main

DATE PM	Figure 3
J. Rutolo	
DATE PM	North Blenheim, N.Y.
N. De Rose	Groundwater Quality Summary

City of Rochester Water Main

On public water

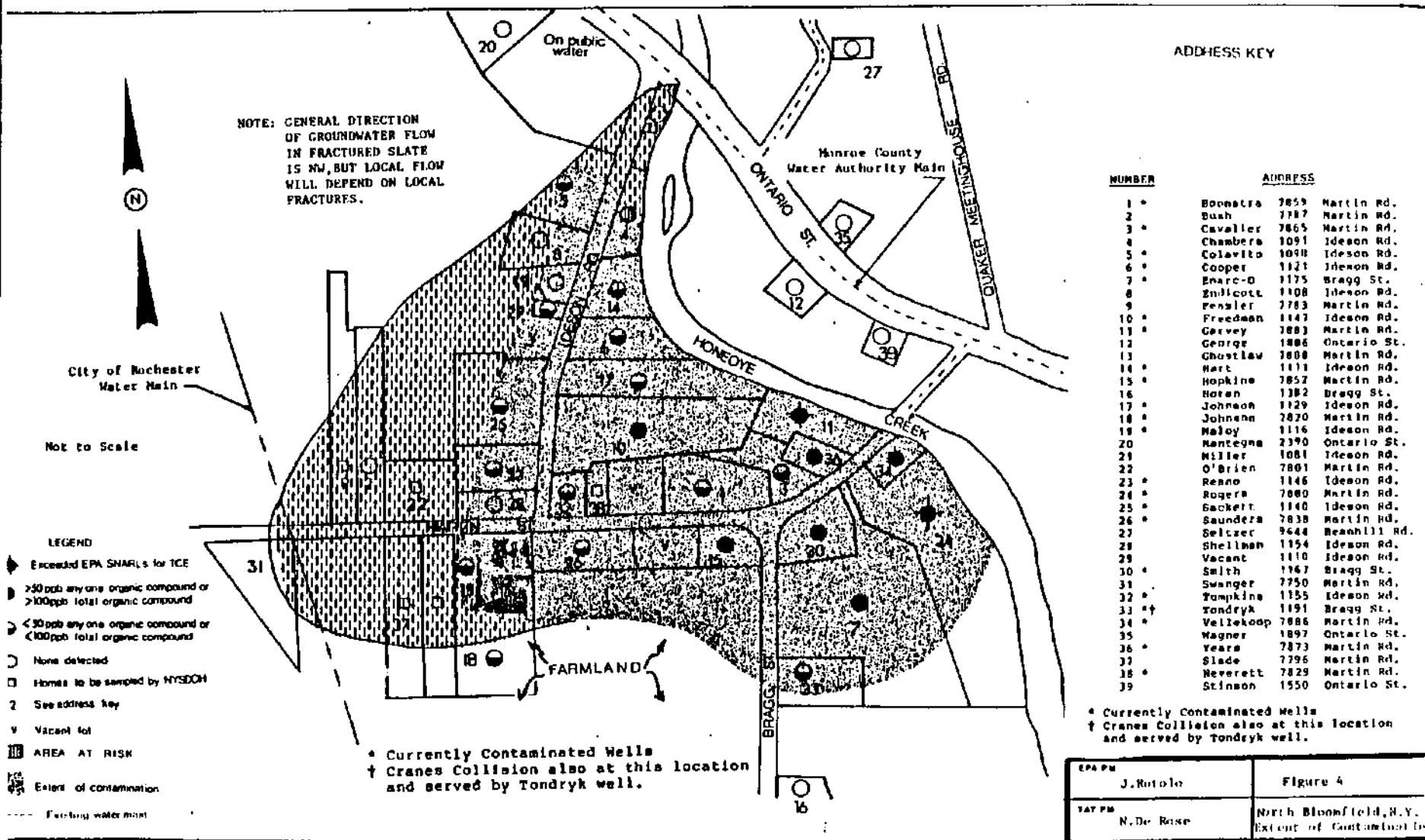
Monroe County Water Authority Main

ADDRESS KEY

NUMBER	ADDRESS
1 *	Bonnafra 2859 Martin
2 *	Bush 2787 Martin
3 *	Cavaller 2865 Martin Rd.
4 *	Chambers 1091 Ideon Rd.
5 *	Colavito 1090 Ideon Rd.
6 *	Cooper 1121 Ideon Rd.
7 *	Enrico-O 1175 Bragg St.
8 *	Endicott 1108 Ideon Rd.
9 *	Fessler 2783 Martin Rd.
10 *	Freedman 1147 Ideon Rd.
11 *	Garvey 2801 Martin Rd.
12 *	George 1886 Ontario St.
13 *	Ghostlaw 2808 Martin Rd.
14 *	Hart 1111 Ideon Rd.
15 *	Hopkins 2852 Martin Rd.
16 *	Irwin 1182 Bragg St.
17 *	Johnson 1129 Ideon Rd.
18 *	Johnson 2820 Martin Rd.
19 *	Maloy 1116 Ideon Rd.
20 *	Mantegna 2190 Ontario St.
21 *	Miller 1081 Ideon Rd.
22 *	O'Brien 1801 Martin Rd.
23 *	Reano 1146 Ideon Rd.
24 *	Rogers 2880 Martin Rd.
25 *	Sackett 1140 Ideon Rd.
26 *	Saunders 2838 Martin Rd.
27 *	Seltzer 2644 Beech Hill Rd.
28 *	Shelton 1854 Ideon Rd.
29 *	Vacant 1110 Ideon
30 *	Smith 1167 Bragg
31 *	Swanger 2750 Martin Rd.
32 *	Tompkins 1155 Ideon Rd.
33 *	Tondryk 1191 Bragg St.
34 *	Vellekoop 2886 Martin Rd.
35 *	Wagner 1897 Ontario St.
36 *	Years 2871 Martin Rd.
37 *	Glade 2796 Martin Rd.
38 *	Neversett 2829 Martin Rd.
39 *	Stinson 1550 Ontario St.

* Currently Contaminated Wells
 † Crane Collision also at this location and served by Tondryk well.

14 of 36



ADDRESS KEY

NUMBER

ADDRESS

1 *	Boonstra	7859	Martin Rd.
2	Bush	7787	Martin Rd.
3 *	Cavaller	7865	Martin Rd.
4	Chambers	1091	Ideon Rd.
5 *	Colavito	1090	Ideon Rd.
6 *	Cooper	1121	Ideon Rd.
7 *	Enarc-O	1175	Bray St.
8	Endicott	1108	Ideon Rd.
9	Feasler	7783	Martin Rd.
10 *	Freedman	1147	Ideon Rd.
11 *	Garvey	7883	Martin Rd.
12	George	1886	Ontario St.
13	Gloetlaw	7808	Martin Rd.
14 *	Hart	1111	Ideon Rd.
15 *	Hopline	7852	Martin Rd.
16	Horan	1182	Bray St.
17 *	Johnson	1129	Ideon Rd.
18	Johnson	7820	Martin Rd.
19 *	Maloy	1116	Ideon Rd.
20	Mantegna	2390	Ontario St.
21	Miller	1081	Ideon Rd.
22	O'Brien	7801	Martin Rd.
23 *	Reano	1146	Ideon Rd.
24 *	Rogers	7880	Martin Rd.
25 *	Sachett	1140	Ideon Rd.
26 *	Saunders	7838	Martin Rd.
27	Seltzer	9644	Beachhill Rd.
28	Shelham	1154	Ideon Rd.
29	Vacant	1110	Ideon Rd.
30 *	Smith	1167	Bray St.
31	Swanger	7750	Martin Rd.
32 *	Tompkins	1155	Ideon Rd.
33 *	Tondryk	1191	Bray St.
34 *	Vellekoop	7886	Martin Rd.
35	Wagner	1897	Ontario St.
36 *	Yeara	7873	Martin Rd.
37	Blade	7796	Martin Rd.
38 *	Neverett	7829	Martin Rd.
39	Stinson	1550	Ontario St.

* Currently Contaminated Wells
† Crane Collision also at this location and served by Tondryk well.

City of Rochester
Water Main

Not to Scale

LEGEND

● Residences to Receive
Public Water (32)

2 See Address Key

V Vacant Lot

--- Existing Water Mains

--- Proposed Water Main

WESTEN

SPILL PREVENTION &
EMERGENCY RESPONSE DIVISION

EPH PM

J. Rotula

Figure 5

FAT PM

N. De Roue

North Bloomfield, N.Y.
Water Main
Distribution

In association with
ICF, Inc., Jacobs Engineering, Inc. & Terra Tech, Inc.

TABLES

TABLE I

SUMMARY OF RESIDENTIAL WELL DATA EXCEEDING

EPA 10-DAY HEALTH ADVISORY LEVEL (HAL)

<u>CONTAMINANT</u>	<u>RESIDENCE</u>	<u>REPORTED CONCENTRATION (ppb)</u>	<u>EPA HAL (ppb)</u>		
			<u>1 DAY</u>	<u>10 DAY</u>	<u>CHRONIC</u>
Trichloroethylene	Garvey 7883 Martin	318	2000	200	75
	Rogers 7880 Martin	260			
	Enarc-O 1175 Bragg	1,800			

TABLE II

SUMMARY OF RESIDENTIAL WELL DATA

EXCEEDING OR APPROACHING NYSDOH GUIDELINES†

<u>RESIDENCE/LOCATION</u>	<u>CONCENTRATION¹</u>	<u>CONTAMINANT(S)</u>	<u>CRITERIA</u>
Harco-O-Machine Products 1175 Bragg	1800 370 Total 2170	Trichloroethylene 1,1,1-Trichloroethane	>50 ppb for any single organic an >100 ppb combined
Freedman 1147 Ideson	49	Trichloroethylene	approaches NYSDOH guideline of 50 p
Garvey 7883 Martin	318 89 Total 412*	Trichloroethylene Trans-1,2-Dichloroethene	>50 ppb for any single organic an >100 ppb combined
Hopkins 7852 Martin	80	Trichloroethylene	>50 ppb for any single organic
Reano 1146 Ideson	46	Trichloroethylene	approaches NYSDOH guideline of 50pp
Rogers 7880 Martin	260 75 Total 335	Trichloroethylene Trans-1,2-Dichloroethene	>50 ppb for any single organic an >100 combined
Smith 1167 Bragg	98 17 Total 115	Trichloroethylene Trans-1,2-Dichloroethene	>50 ppb for any single organic an >100 combined
Vellekoop 7886 Martin	110 Total 159*	Trichloroethylene	>50 ppb for any single organic an >100 combined
Years 7873 Martin	72	Trichloroethylene	> 50 ppb for any single organic

FOOTNOTES:

1 - All concentrations reported in parts per billion

* - Total concentrations include contaminants that have not been included on this table.

† - Values used are maximum concentrations observed during March, June, July and August 1985 sampling.

TABLE III

SUMMARY OF THE TOXICOLOGICAL CHARACTERISTICS OF THE
MAJOR VOLATILE ORGANIC CONTAMINANTS FOUND AT
NORTH BLOOMFIELD, NY

<u>Contaminant</u>	<u>Toxicity¹</u>
1,1,1-Trichloroethane	Acute exposure results in central nervous system depression.
1,1,2,2-Tetrachloroethane	Acute exposure may results in paralysis of the interossei muscles of the hands and feet and decreased ocular and pharyngeal reflexes. Liver dysfunction may also result.
Tetrachloroethylene (Perchloroethylene)	Principal effects of acute exposure to relatively high levels include central nervous system depression and fatty infiltration of the liver and kidney with changes in serum enzyme activity levels. Rapidly absorbed through the lung and skin. A concentration of 100 ppm in vapor appears to be a threshold level for induction of early depression of the central nervous system. Expected to accumulate in the body if insufficient time is allowed to elapse between subsequent exposures. Experiments involving intentional exposure of humans to tetrachloroethylene vapors demonstrate that low levels can cause irritation of mucous membranes and intoxication. Recently found be a carcinogen in humans, limited evidence of carcinogenicity in animals and inadequate evidence from available human data. Limited evidence of mutagenicity.
Trichloroethylene	Acute exposure to high doses can result in marked depression of the central nervous system, liver and kidney damage, and cardiac abnormalities. Experiments involving intentional, acute exposure of humans to trichloroethylene reveal that inhalation of low levels can result in mucous membrane irritation. Studies indicate that trichloroethylene does have a potential for accumulation.
1,2-Trans-dichloroethane	Limited evidence of carcinogenicity in animals and inadequate evidence from available human data. Mutagenic in several bacterial systems. Acute exposure to high doses can result in liver and kidney damage, and central nervous system depression.

¹ From "Handbook of Toxic and Hazardous Chemicals and Carcinogens", Marshall Sittig, Princeton University, Noyes Publications, Park Ridge, N.J. 1985

NOTE: It should be noted that the presence of several chlorinated hydrocarbon chemicals in drinking water also poses a potential for synergistic toxic effects from exposure to any combination of these com-

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TABLE IV

Costs* Associated With
The
Water Main Installation and
Hookups to Residences
in North Bloomfield, NY

<u>QUANTITY</u>	<u>UNIT</u>	<u>DESCRIPTION</u>	<u>UNIT PRICE</u>	<u>COST</u>
<u>LABOR</u>				
784	HRS	LABOR FOREMAN	17.50/HR	13,720
2976	HRS	LABORER	15.50/HR	46,128
160	HRS	EQUIP. OPER. (CRANE)	20.65/HR	3,304
160	HRS	EQUIP. OPER. (OILER)	17.10/HR	2,736
320	HRS	TRUCK DRIVER	16.20/HR	5,184
608	HRS	EQUIP. OPER. (MEDIUM)	20.20/HR	12,282
				<u>\$83,354</u>
<u>EQUIPMENT</u>				
30	DAYS	AIR COMPRESSOR (250 CFM)	160.20/DAY	4,815
30	DAYS	AIR TOOLS & ACCESSORIES	23.70/DAY	711
30	DAYS	2- 50 FT AIR HOSES 1.5"	11.60/DAY	348
30	DAYS	BLASTING MATS(2)	35.00/DAY	2,100
25	DAYS	HYDRAULIC EXCAVATOR (1cy)	402.20/DAY	10,055
20	DAYS	DUMP TRUCKS (2-12cy)	279.20/DAY	11,168
65	DAYS	BACKHOE- LOADER (5/8cy)	115.30/DAY	7,495
10	DAYS	FRONT-END LOADER (2.5cy)	437.80/DAY	4,378
5	DAYS	VIBRATORY PLATE	35.00/DAY	176
5	DAYS	SPREADER BOX	77.00/DAY	385
3	DAYS	TANDEM ROLLER (2 TON)	71.50/DAY	215
				<u>\$41,846</u>
<u>MATERIALS</u>				
750	LBS	EXPLOSIVES	1.45/LB	1,088
1500	EA	BLASTING CAPS	1.50/EA	2,250
3300	LF	8 IN. DUCTILE IRON PIPE	7.05/LF	23,265
1700	LF	12 IN. DUCTILE IRON PIPE	12.00/LF	20,400
6	EA	8 IN. GATE VALVES	485.00/EA	2,910
555	CY	CRUSHED STONE 3/4"	7.00/CY	3,885
2440	CY	BANK RUN GRAVEL	3.00/CY	7,320
385	TONS	BINDER COARSE	24.50/TN	9,433
195	TONS	FINISH COARSE	27.50/TN	5,363
1120	SY	SODDING 1"	1.40/SY	1,568
33	LS	LATERAL CONNECTIONS	1800/EA	59,400
2	EA	FLOW METERS WITH VAULTS	14,000/EA	28,000
2	EA	BLOW-OFFS	700/EA	1,400
5	EA	HYDRANTS	850/EA	4,250
				<u>\$170,532</u>

TOTAL - LABOR, EQUIPMENT, AND MATERIALS ----- \$295,732

*Reference "Means Construction Cost Data, 1985"

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APPENDICES

APPENDIX I

RESIDENTIAL WELL SAMPLES RESULTS
FOR NORTH BLOOMFIELD, NEW YORK¹

	SAMPLING LOCATION (NAME/ADDRESS)	JUNE 19, 1985				JULY 1, 1985				JULY 24, 1985				AUGUST 7, 1985			
		A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
	Boonstra 7859M					20	4	<1	<1								
	Bush 7787M													<1	<1	<1	<1
	Cavalier 7865M					22	2	1	<1								
	Colavito 1070I													2	<1	<1	<1
***	Cooper 1121I									24	8	1	<1				
**	Enarc-O 1175B	<10	<10	560	<10	8	4	22	<1								
	Endicott 1108I													<1	<1	<1	<1
	Freedman 1147I									49	8	1	<1				
	Garvey 7803M	290	75	8	<10	318	89	3	2								
	George 18860													<1	<1	<1	<1
***	Hart 1111I									19	5	1	<1				

A - Trichloroethylene
B - Trans-1,2-Dichloroethene
C - 1,1,1-Trichloroethane
D - 1,2-Dichloroethane
A - Trichloroethylene

B - Bragg Street
BH - Bean Hill Road
I - Ideson Road
M - Martin Road
O - Ontario Road

* - Indicates that during August 7, 1985 sampling, chloroform was found to be present when using gas chromatography
** - Indicates that during June 19, 1985 sampling, 1,1,2,2-Tetrachloroethane and Tetrachloroethene were found at concentrations of 100 ppb and 68 ppb, respectively.
*** - Indicates that during July 24, 1985 sampling, 1,1-Dichloroethane was found at a concentration of 1 ppb.
1 - All concentrations are reported in ppb.

APPENDIX 1 (Continued)

SAMPLING		JUNE 19, 1985				JULY 1, 1985				JULY 24, 1985				AUGUST 7, 1985			
LOCATION (NAME/ADDRESS)		A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
	Hopkins 7852M					80	4	1	<1								
	Horan 1382B									<1	<1	<1	<1				
	Johnson 1127I									19	3	<1	<1				
	Johnson 1820M									31	4	<1	<1				
*	Maloy 1116I													8	1	<1	<1
	Mantegna 239 O													<1	<1	<1	<1
	Miller 1081I									<1	<1	<1	<1				
	Reano 1146I													46	8	2	<1
	Rogers 7880M	260	75	<10	<10	197	43	2	2								
	Sackett 1140I													29	5	1	<1
	Saunders 7838M													22	4	<1	<1

A - Trichloroethylene
 B - Trans-1,2-Dichloroethene
 C - 1,1,1-Trichloroethane
 D - 1,2-Dichloroethane

B - Bragg Street
 BH - Bean Hill Road
 I - Ideson Road
 M - Martin Road
 O - Ontario Road

* - Indicates that during August 7, 1985 sampling, chloroform was detected when using gas chromatography
 ** - Indicates that during June 19, 1985 sampling, tetrachloroethane and tetrachloroethene were found at concentrations of 100 ppb and 68 ppb, respectively.
 *** - Indicates that during July 24, 1985 sampling, 1, 1-Dichloroethane was found at a concentration of 1 ppb.
 1 - All concentrations are reporting in ppb.

APPENDIX I (Continued)

	SAMPLING	JUNE 19, 1985				JULY 1, 1985				JULY 24, 1985				AUGUST 7, 1985			
	LOCATION (NAME/ADDRESS)	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
	Seltzer 7644BH									<1	<1	<1	<1				
	Shellman 1154I													<5	<5	<5	<5
	Smith 1167B	77	21	1	2	98	17	1	<1								
	Swanger 7750M													<1	<1	<1	<1
*	Tompkins 1155I													11	3	2	<1
	Tondryk 1191B	4	<2	<2	<2	3	<1	<1	<1								
	Vellekoop 7886M	110	41	8	<10	92	16	8	<1								
	Wagner 1897O									<1	<1	<1	<1				
	Years 7873M					72	19	1	<1								

A - Trichloroethylene
 B - Trans-1,2-Dichloroethene
 C - 1,1,1-Trichloroethane
 D - 1,2-Dichloroethane

B - Bragg Street
 BH - Bean Hill Road
 I - Ideson Road
 M - Martin Road
 O - Ontario Road

* - Indicates that during August 7, 1985 sampling, chloroform was detected when using gas chromatography
 ** - Indicates that during June 19, 1985 sampling, 1,1,2,2-tetrachloroethane and tetrachloroethene were found at concentrations of 100 ppb and 68 ppb, respectively.
 *** - Indicates that during July 24, 1985 sampling, 1, 1-Dichloroethane was found at a concentration of 1 ppb.
 1 - All concentrations are reported in ppb.

(SEE NOTE ON NEXT PAGE)

NOTE: On March 22, 1985, the NYSDEC sampled drinking water supply well at the Enarc-O-Machine Products facility. The results are presented below:

<u>CONTAMINANT</u>	<u>CONCENTRATION (ppb)</u>
Trichloroethylene	1,800
1,1,1-Trichloroethane	370

On November 1, 1985, the NYSDOH forwarded results of their September 26, 1985 sampling activity. The results of the sampling indicated that no contaminants were found in the drinking water of the following residents:

<u>RESIDENT</u>	<u>ADDRESS</u>
Fessler	7783 Martin Road
Ghostlaw	7808 Martin Road
Slade	7796 Martin Road
Chambers	1091 Ideson Road
Stinson	1550 Ontario St.

On November 21, 1985, the NYSDOH forwarded results of their October 31, 1985 sampling activity. The results of the sampling are presented below.

<u>RESIDENT</u>	<u>ADDRESS</u>	<u>CONTAMINANT</u>
Miller	7744 Martin Rd.	None
Neverett	7829 Martin Rd.	2 ppb Trichloroethylene
Obrien	7801 Martin Rd.	None

APPENDIX II

TOWN OF LIMA
7329 East Main Street
Lima, New York 14435

December 31, 1985

Mr. Joseph Rotolo, Coordinator
U.S. Environmental Protection Agency
Engineering and Remedial Response Division
Response and Prevention Branch
Building 209
Woodbridge Avenue
Edison, New Jersey 08837

Re: North Bloomfield Water Contamination Issue

Dear Mr. Rotolo:

Our Town Attorney, Richard Mayberry, has been in touch with you regarding the situation in the northeasterly corner of the Town of Lima, referred to as North Bloomfield. As you know, the Town has been considering the creation of a major water district including the North Bloomfield area and running along existing roadways to the Village of Lima a couple of miles to the south-east. Design has been undertaken, and we have retained a very competent engineering firm to do that design and create preliminary cost estimates for us. We have, after considerable discussion with various agencies and entities, determined to seek approval to obtain our source of public water from the existing City of Rochester main running through the North Bloomfield area.

It is only on the basis of a determined emergency situation that we can consider supplying public water to the North Bloomfield area during the Spring and Summer of 1986. Left to our own procedures and devices for obtaining necessary approvals, and our own construction schedule, our engineers have indicated that an early 1987 "turn on" date would be most likely. That timing includes the routine procedures we would have to go through in the creation of any water district and construction of improvements within a district, as well as the necessity of going out to public bid under the New York State General and Municipal Law procedures.

Any supply to a portion of the district, and North Bloomfield is such a portion, would require pumping and storage, as well as basic supply lines, etc. Treating North Bloomfield as a portion of the larger district allows us to take advantage of storage facilities available in the Village at the far end of the main and allows us to use booster pumping to supply that tower with a backflow rather than a full-time operational pumping station causing a heavy utility drain and a much shorter mechanical life for pumps. Utilizing North Bloomfield as a portion of

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Mr. Joseph Rotolo, Coordinator
December 31, 1965
Page 2

the larger district allows us to coordinate with the Village and take advantage of funding in place for the Village and a portion of the Lima district and therefore cut costs to all of the users. Our estimate of cost for the North Bloomfield district for purposes of budgeting, including engineering, financing, and legal costs is \$351,000. That figure includes the individual hookups to the various homes. The estimate of cost for the hookups is anywhere from \$500 to \$1,000 per home; therefore, the budget could be reduced for the work that the Town could legitimately do, were it creating the district itself, by approximately \$20,000. That would leave a cost of about \$330,000, or \$10,000 per benefitted home (assuming 33 benefitted users). Each of those residences would bear the cost of the initial hookup in the range stated above, plus a \$75 approximate meter cost. That would be borne in year one.

In addition, the debt service estimated by our financial consultant at twenty years, 10%, would be approximately \$50,000 per year. Obviously, that figure has not been refined, but it does indicate an annual cost, not including the cost of water per unit, of almost \$1,500. That is a staggering individual unit cost. The need to have water is great, and it is likely that the individuals involved would bear that cost but grudgingly. The income level is not high in that area.

Should your Agency involve itself in the construction of that portion of our district, total costs throughout the district per unit per year would be approximately \$350 to \$400.

As you can see from some of the figures above, the Town is able to create the water district if your Agency is not involved. It would take us considerably longer to do it, and it would entail a first year cost to the North Bloomfield residents of from \$2,000 to \$2,500. I have serious doubt that a number of those people are in a position to handle that cost, notwithstanding their immediate needs.

Any assistance your Agency can give us would be greatly appreciated. I suggest that for the most part your direct contacts be to Mr. Mayberry, since he is coordinating our efforts on this matter. I am available to meet with you or discuss this with you at any time.

Very truly yours,

A. Ronald Yorks

A. Ronald Yorks, Supervisor
Town of Lima

APPENDIX III

DEPARTMENT OF HEALTH OFFICE OF PUBLIC HEALTH

ROCHESTER REGIONAL OFFICE • 42 WASHINGTON STREET • ROCHESTER, NY 14608-2095 • (716) 262-2010

DAVID AXELROD, M.D.
CommissionerLINDA A. RANDOLPH, M.D., M.P.H.
Deputy Comm.JOSEPH DE SANTIS, M.P.H.
Regional Director
Letter #357-85

November 21, 1985

Town of Lima
7329 East Main Street
Lima, NY 14485

ATTENTION: Mr. Ronald Yorks, Supervisor

Re: Martin Road/Bragg Street/Ideson Road Neighborhood
Organic Chemical Groundwater Contamination
Lima (T), Livingston County

Dear Supervisor Yorks:

We are sorry that you were unable to attend the meeting held in this office on November 20, 1985. The meeting had been scheduled to resolve the question of the source for a public water supply system to serve the residents of the above captioned neighborhood where organic chemicals have contaminated many of the resident's private wells.

In concurrence with Livingston County Health Department, the New York State Department of Health considers the need for providing potable water to the homes in this area as a number one priority and the Town of Lima, through representation by your attorney Mr. Mayberry, agreed.

During the meeting, City of Rochester representatives presented a proposal for supplying water to the subject area from their Hemlock Lake system during normal conditions. For those times when their water quality cannot meet standards (i.e., high turbidity episodes), Rochester will purchase filtered water from the Monroe County Water Authority, via the North Bloomingfield Water District, through a new connection at the intersection of Ontario Street and Ideson Road.

All attendees at the meeting agreed that the above proposal was the most expeditious solution for resolving the current problem of supplying potable water to the residents with contaminated private wells. The groundwater contamination which exists in the neighborhood, creates an emergency situation and, therefore, we urge the Town of Lima to work through your consulting engineers with the City of Rochester in preparing the required documents, including water supply application, construction drawings and specifications and watermain assessments, to clear the way for the actual construction of a public water system in the neighborhood as quickly as possible. Both the State Departments of Environmental Conservation (DEC) and Health are committed to expediting necessary approvals for this project.

It was further understood by all parties at the meeting that authorization by this Department and DEC for the City of Rochester to serve this specific area should in no way be construed as an endorsement to provide water to any other area outside the immediate Martin Road, Bragg Street and Ideson Road area.

If you or the Town Board have any questions concerning this matter, please do not hesitate to contact this office.

Sincerely,



Joseph DeSantis, MPE
Regional Director

JD/eas

xc (Meeting Attendees):

Michael Burke, Bureau of Public Water Supply, NYSDOH
Owen B. Cranston, Rochester Regional Office, NYSDOH
Joan C. Belinski, Livingston County Health Department
Peter Lent, Region 8, NYS Department of Environmental Conservation
Richard S. Mayberry, Town of Lima
Thomas McTighe, Monroe County Water Authority
James E. Malone, City of Rochester
Edward F. Watson, City of Rochester
Roger C. McPherson, City of Rochester

xc (Others):

Eric F. Seiffer, Region 8, NYS Department of Environmental Conservation
Charles Frenz, Monroe County Water Authority
Thomas W. Walker, Rochester Regional Office, NYSDOH

APPENDIX IV



LARSEN ENGINEERS ARCHITECTS

44 SAGINAW DRIVE, ROCHESTER, NY 14623-3176
(716) 473-3460 TELEX: 291301

January 15, 1986

John F. Karle, P.E.
Richard A. Passero, P.E.
S. Ram. Shrivastava, P.E.

William C. Larsen, P.E.
Consultant

Donald A. Neely
Registered Architect

Edward E. Abbott, P.E.
Mark K. Ballerstein, P.E.
Charles Currie, P.E.
Daniel L. Flanders, P.E.
Hakim A. Hakim, P.E.
Michael A. Keim, P.E.
Timothy E. Oakes, P.E.
Robert B. Tylock, P.E.
William R. VanAarts, P.E.

Lavern R. Celestino, P.L.S.
DLT - 3033.5

Joseph Rotola
U.S. E.P.A.
Response and Prevention Branch
Woodbridge Avenue
Edison, NJ 08837

RE: ALTERNATE WATER SUPPLY FOR NORTH BLOOMFIELD
TOWN OF LIMA LIVINGSTON COUNTY, NEW YORK

Dear Mr. Rotola:

This letter will serve to explain the need for approximately 1700 linear feet of 12" watermain along Ideson and Martin Road in the above project.

The N. Bloomfield service area and a larger area including the Village of Lima are to be served by the City of Rochester supply conduit passing along the west edge of the N. Bloomfield service area. The larger area abuts the west end of the N. Bloomfield service area and extends westerly and southerly therefrom. This larger area will be served by a pump station to boost pressure.

An auxiliary metered supply connection is proposed to the Monroe County Water Authority at the intersection of Ideson Road and Ontario Street, to provide supply at such times as the primary source may experience temporary water quality problems.

When utilizing the MCWA supply source, the main along Ideson Road and part of Martin Road (between the MCWA connection and the pump station) will serve as a suction main to the pump station. The 12" main will be required to limit friction losses and to permit satisfactory pressure to supply the booster pump station and to simultaneously maintain normal service flow and pressure to the N. Bloomfield area at these times when supply is from the Water Authority main.

We have attached a sketch illustrating this. Should you require additional information, please do not hesitate to contact our office.

Very truly yours,

LARSEN ENGINEERS/ARCHITECTS

Jack Buholtz
Jack Buholtz, P.E.

JB:bb
Enc.

cc: Richard Mayberry, Attorney
Ronald Yorks
Stuart I. Brown
Mayor Peter Yendell

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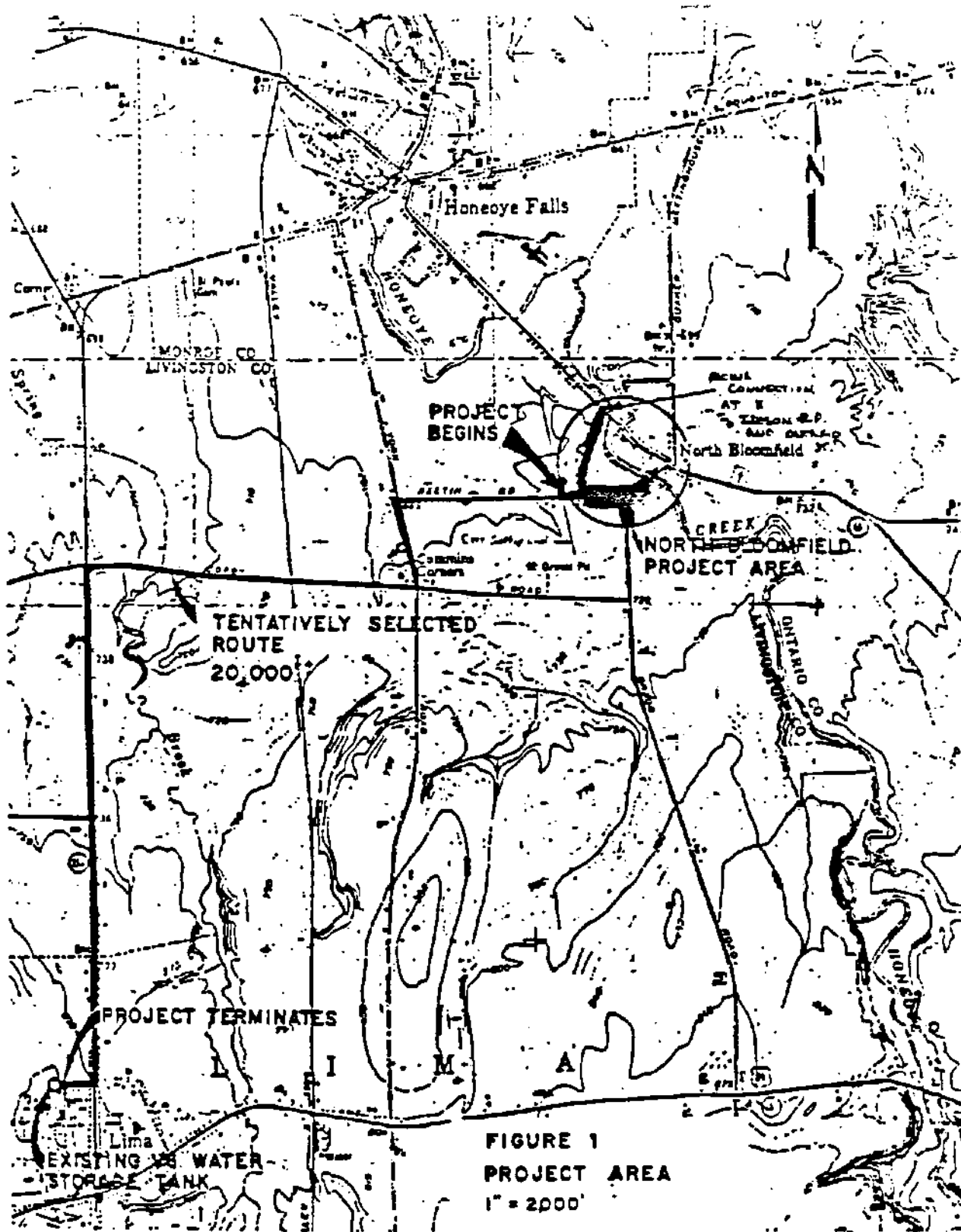


FIGURE 1
PROJECT AREA
1" = 2000'

PROPOSED WATER FACILITIES

- PUMP STATION, 51 C.W.S.
- 12" WATERMAIN SERVING TOWN AND VILLAGE, 51 C.W.S.
- 8" WATERMAIN, NORTH BLOOMFIELD
- 12" WATERMAIN, NORTH BLOOMFIELD

APPENDIX V
COSTS ASSOCIATED WITH THE INSTALLATION
AND SAMPLING OF CARBON
FILTRATION UNITS FOR 32 AFFECTED
HOMES IN NORTH BLOOMFIELD, NY

Carbon Filtration Unit Costs:

Purchase and installation of activated carbon water filtration units at 32 residences. Includes labor, flow regulation, and UV disinfection unit at each location - 33 @ \$6,000/each \$ 198,000

Sampling Costs (Six Month Period To Monitor Carbon Filter Effectiveness)

594 samples (volatile organics) @ \$250/analysis (33 homes X 3 samples/home). Therefore, 99 samples per month for six months. 148,500

132 samples (bacteriological analysis) @ \$100/sample (33 homes X 4 samples/home) 13,200

TOTAL (bare contracting costs) \$ 359,700

TOTAL - Watermain installation (bare contracting costs) \$ 295,732

REFERENCE NO. 4

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION II

DATE: MAR 10 1987

SUBJECT: Request for a Ceiling Increase for Removal Activities at North Bloomfield, Town of Lima, Livingston County, New York

FROM: Joseph D. Rotola, OSC *Joseph D. Rotola*
Response and Prevention Branch

TO: Christopher J. Daggett
Regional Administrator

THRU: Stephen D. Luftig, Acting Director *Steve Luftig*
Emergency and Remedial Response Division

ISSUE

The intent of this ceiling increase request is to extend bottled water delivery to residents of North Bloomfield, New York, that either have contaminated drinking water or are located in an area at risk. The provision of bottled water will continue until a water main and distribution system is installed.

Although an action memorandum which proposes the installation of the water main was approved on June 11, 1986, construction was delayed due to on-going legal proceedings between EPA and the Potentially Responsible Party (PRP) (Enarc-O-Machine Products), the unavailability of funding, and complications relating to the establishment of a water district in the affected area.

The total authorized funding was increased on June 11, 1986, from \$40,036 for bottled water to \$512,546. This amount included our estimate of funds necessary to install a water main in the affected area as well as our estimate of funds needed to continue to provide bottled water. Due to delays beyond our control, in order to continue bottled water delivery until the water main is installed, a ceiling increase of \$40,454 is necessary. This increase will result in a new total project ceiling of \$553,000 of which \$418,500 will be for mitigation contracting.

BACKGROUND

North Bloomfield is a small residential community located in the north western portion of the Finger Lakes Region of New York State. Past sampling of residential wells in this area has identified an area at risk which includes 32 residences; of which, twenty-two wells are contaminated with varying concentrations of volatile organic compounds. Of these, two exceed EPA's 200 ppb 10-Day Health Advisory for trichloroethylene, five exceed the New York State Department of Health Guideline limits for potable water and two more closely approach that guideline.

1 of 3

This problem is compounded by the geology of the area which consists of fractured shale. Vertical and horizontal fractures may result in highly unpredictable contaminant migration.

RESPONSE HISTORY

EPA has been providing bottled water to 32 residences and one commercial establishment since December 2, 1985. Since all legal efforts to date have failed, EPA will initiate removal activities by contracting to the City of Rochester for the installation of the water main and distribution system. To date, \$29,898.12 of the \$40,036 previously authorized for bottled water has been expended.

SUMMARY OF COSTS

A summary of both current and proposed costs are presented below:

	<u>Current Ceiling</u>	<u>Proposed Ceiling</u>
Water main installation (includes: TAT, EPA and mitigation contracting cost	\$472,510	\$472,510
Provision of Bottled Water	<u>40,036</u>	<u>80,072</u>
Total Project Ceiling	<u>\$512,546</u>	<u>\$552,582</u> say \$553,000

RECOMMENDATION

The increase in funding requested in this memorandum will ensure that the affected residents in North Bloomfield will have a source of potable water until a water main is installed and becomes operable. The anticipated completion date of the main installation is November 1987.

I, therefore, recommend your approval of this ceiling increase of \$40,454. Your approval would raise the total project ceiling for this site from \$512,546 to \$553,000 of which \$418,500 is for mitigation contracting. You may indicate your approval or disapproval by signing below.

Your authority to authorize these funds is pursuant to Deputy Administrator Alvin Alm's April 16, 1984 memorandum, Delegation Number (4-1-A).

Approval

Christopher J. Sargent

Date MARCH 16, 1987

Disapproval

Date _____

cc: S. Luftig, 2ERR
F. Rubel, 2ERR-RP
B. Sprague, 2ERR-RP
G. Zachos, 2ERR-RP
J. Czapor, 2ERR-SC
J. Marshall, OEP
B. Adler, 2ORC-ARC
R. Gherardi, 20PM-FIN
P. Flynn, PM-214F (EXPRESS MAIL)
T. Fields, WH-514B
H. Longest, WH-548
N. Nosenchuck, NYSDEC

REFERENCE NO. 5

SA.E
DATE: 1/14/88
Ceiling Increased 4
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION II

OSC
(TUE.) 19 JAN. 88

SUBJECT: Request for a Ceiling Increase for the Removal Action at North
Bloomfield, Town of Lima, Livingston County, New York - ACTION
MEMORANDUM

FROM:

Edward J. Makarewicz, On-Scene Coordinator

TO: Response and Prevention Branch

Christopher J. Daggett,
Regional Administrator

Thru: Stephen D. Luftig, Director
Emergency and Remedial Response Division

ISSUE

The purpose of this action memorandum is to request additional funds to complete the removal action at the North Bloomfield, site, in Lima, New York. These funds will allow for the continuation of the on-going installation of a water main and distribution system to thirty three residences and one commercial facility which are affected by an incident of groundwater contamination.

The additional funding requested can be attributed to increased labor costs and the need for specialized equipment resulting from encountering of an extensive, flat-lying, dolomitic limestone during trench excavations.

Preliminary test borings indicated the presence of rock but were not sufficient to reveal its unique characteristics. This formation is very dense and is characterized by lenses and nodules of chert, a cryptocrystalline variety of quartz which typically occurs in limestones and shales of deep marine environments. Its unusual resistance to conventional extrication requires that more costly rock excavation techniques be used to facilitate the rock removal.

The cost required to remove sufficient quantities of overburden and bedrock under the conditions described above will increase by three fold. The affected area continues nine hundred feet along Ideson Road with gradually sloping rock depths of 2-5 feet, as determined by exploration trenches. To properly install the remaining water main, trenches must be excavated to a minimum depth of six feet.

1 of 4

Another factor that contributed to the need for additional funds was the unexpected high cost of service connections. Approximately one fifth of the homes to be serviced are located in the area of rock previously described. This portion of the job was competitively bid. The lowest bid for these services was sixty percent greater than anticipated.

To date, the authorized ceiling for the removal action is \$553,000, of which \$418,500 is for mitigation contracting.

These figures include \$354,878 for a contract which was awarded to the City of Rochester (Water Bureau) and \$63,627 which funded the provision of bottled water to residents by a subcontractor hired by O.H. Materials.

The increase in funds required will total \$289,100 and will result in a new total project ceiling of \$842,100 of which \$669,900 will be for mitigation contracting.

BACKGROUND

North Bloomfield is a small residential community located in the northwestern portion of the Finger Lakes Region of New York State.

On August 15, 1985, Norman Nosenchuck, then Director of the Division of Solid and Hazardous Waste of the New York State Department of Environmental Conservation (NYSDEC), formally requested that the United States Environmental Protection Agency (EPA) assess an incident of groundwater contamination affecting residents of North Bloomfield, New York.

The results of past sampling activities indicate that, of the thirty-nine drinking water wells sampled, twenty-two were contaminated with varying concentrations of trichloroethylene, 1,1,1-trichloroethane, trans 1,2-dichloroethane, 1,1,2-trichloroethane, 1,2-dichloroethane and tetrachloroethylene. Of these, three exceeded EPA's 175 ppb 10 day Health Advisory Level for trichloroethylene, four exceeded the NYSDOH Guideline Limits for potable water, two others closely approach that guideline and thirteen showed contamination above quantifiable detection levels.

The problem is further compounded by the geology of the area which consists of jointed and fractured rock which allows the potential for accelerated contaminant migration.

EPA has been providing bottled water to thirty-three residences and one commercial establishment since December 2, 1985. Although an action memorandum which proposed the installation of a water main was approved on June 11, 1986, construction was delayed as

a result of on-going legal proceedings between EPA and the potentially responsible party, the unavailability of funding, and complications relating to the establishment of a water district in the affected area.

RESPONSE HISTORY

As mentioned above EPA has been funding the delivery of bottled water to affected residents since December 2, 1985. On June 4, 1987, a letter contract was signed between the City of Rochester and EPA for the installation of an approved water main and distribution system. Actual main installation began on July 13, 1987. To date, approximately 4,100 feet of water main have been installed and a total of twenty-six homes have been provided with service connections. Each home is being supplied with municipal water as they are connected, subsequently terminating bottled water delivery as service connections are completed. Work is continuing along Ideson Road where installation of the remaining water main has been hindered by conditions previously discussed on page 1 and 2 of this memorandum.

SUMMARY OF COSTS/AUTHORIZATIONS

Action Memo of 11/27/85 (Librizzi)

Mitigation Contract, Bottled Water	\$ 31,814
Extramural (TAT)	\$ 1,500
Intramural EPA	\$ 1,500
Other Costs	\$ 5,222
Approved Funds.....	\$ 40,035

Action Memo of 6/5/86 (Daggett)

Mitigation Contract Water Main Extension	\$354,878
(to a new ceiling Cost Estimate Breakdown of \$386,692)	
Extramural (TAT) Costs	
(to a new ceiling of \$37,500)	\$ 36,000
Intramural EPA Cost (New ceiling \$21,500)	\$ 20,000
Other Costs	
(to a new ceiling of \$66,854)	\$ 61,632
Approved Funds(to new ceiling of 512,545)	\$472,510

Action Memo of 3/10/87 (Daggett)

Mitigation Contract, Bottled Water	
(to a new bottled water ceiling of \$63,622)	
(to a new Mitigation Contractor Ceiling of \$418,500)	\$ 31,808
Extramural (TAT) Costs (new ceiling \$39,000)	\$ 1,500
Intramural EPA Costs (new ceiling \$23,000)	\$ 1,500
Other Costs (to a new ceiling of \$72,082)	\$ 5,228
Approved Funds (new ceiling \$553,000)	\$ 40,036

*This Action Memo (Daggett)

Mitigation Contract Cost Increase (to a new ceiling of \$669,900)	\$251,400
Extramural (TAT) Cost (new ceiling \$52,900)	\$ 13,900
Intramural EPA Cost (new ceiling \$33,000)	\$ 10,000
Other Costs (new ceiling \$85,882)	\$ 13,800
Requested Ceiling Increase	\$289,100
New Funding Ceiling Requested	\$842,100

RECOMMENDATION

The increase in funding requested in this action memorandum will allow the timely installation of a water main and distribution system which, in turn, will provide a permanent alternate source of potable water to residents in the affected area.

I therefore recommend your approval of this ceiling increase of \$289,100. Your approval will raise the total project ceiling from \$553,000 to \$842,100 of which \$669,900 is for mitigation contracting. Your authority to authorize these funds is pursuant to the Administrator's September 13, 1987, Delegation 14-1-A. You may indicate your approval or disapproval by signing below.

Approval _____ Date _____

Disapproval _____ Date _____

Attachment

cc: S. Luftig, 2ERR
R. Salkie, 2ERR-DD
G. Zachos, 2ERR-RP
B. Sprague, 2ERR-RP
J. Czapor, 2ERR-SC
G. Pavlou, 2ERR-NYCRA
J. Marhsall, 2OEP
W. Mugdan, 2ORC-DRC
R. Gherardi, 2OPM-FIN
R. Mueller, PM-214F (Express Mail)
T. Fields, WH-514B
M. O' Toole, NYSDEC
V. Pitruzzello, 2ERR-PS

REFERENCE NO. 6

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 53531 SAMPLE RECEIVED: 85/09/26/ CHARGE: 7.00
 PROGRAM: 126: HOUSEHOLD WATER SUPPLIES
 SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 2556
 POLITICAL SUBDIVISION: LIMA COUNTY: LIVINGSTON
 LATITUDE: LONGITUDE: Z DIRECTION:
 LOCATION: FIELD BLANK-5 (T) LIMA HOUSEHOLD WATER SUPPLIES
 DESCRIPTION: WITH SAMPLE #
 REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
 TEST PATTERN: 601: PURGEABLE HALOCARBONS
 SAMPLE TYPE: 297: FIELD BLANK
 TIME OF SAMPLING: 85/08/13 DATE PRINTED: 85/10/09

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)

PARAMETER	RESULT
T62009 CHLORDROMETHANE	< 1. MCG/L
T61809 BROMOMETHANE	< 1. MCG/L
T41009 VINYL CHLORIDE	< 1. MCG/L
T70209 DICHLORODIFLUOROMETHANE	< 1. MCG/L
T61909 CHLOROETHANE	< 1. MCG/L
T61709 TRICHLOROFLUOROMETHANE	< 1. MCG/L
T23809 DICHLOROMETHANE	< 1. MCG/L
T50909 1,1-DICHLOROETHENE	< 1. MCG/L
T51909 1,1-DICHLOROETHANE	< 1. MCG/L
T61209 TRANS-1,2-DICHLOROETHENE	< 1. MCG/L
T39009 CHLOROFORM	< 1. MCG/L
T50809 1,2-DICHLOROETHANE	< 1. MCG/L
T23609 1,1,1-TRICHLOROETHANE	< 1. MCG/L
T36609 CARBON TETRACHLORIDE	< 1. MCG/L
T36909 BROMODICHLOROMETHANE	< 1. MCG/L
T61309 1,2-DICHLOROPROPANE	< 1. MCG/L
T61509 TRANS-1,3-DICHLOROPROPENE	< 1. MCG/L
T41109 TRICHLOROETHYLENE	< 1. MCG/L
T44909 DIBROMOCHLOROMETHANE	< 1. MCG/L
T61409 CIS-1,3-DICHLOROPROPENE	< 1. MCG/L
T51709 1,1,2-TRICHLOROETHANE	< 1. MCG/L
T61109 2-CHLOROETHYL VINYL ETHER	< 1. MCG/L
T42109 BROMOFORM	< 1. MCG/L
T51809 1,1,2,2-TETRACHLOROETHANE	< 1. MCG/L
T41209 TETRACHLOROETHENE	< 1. MCG/L
T40909 CHLOROBENZENE	< 1. MCG/L
T49709 1,2-DICHLOROBENZENE	< 1. MCG/L
T44109 1,2-DICHLOROBENZENE	< 1. MCG/L
T44209 1,4-DICHLOROBENZENE	< 1. MCG/L

**** END OF REPORT ****

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REGIONAL DIRECTOR OF PH ENGINEERING
 NEW YORK STATE DEPARTMENT OF HEALTH
 42 SOUTH WASHINGTON ST.
 ROCHESTER, N.Y. 14608

SUBMITTED BY: ANDERSON

1 of 26

**THE
FOLLOWING
DOCUMENTS
WERE OF
POOR QUALITY**

**IMAGE
DATA**

CLIENT New York State DEC
 CLIENT ID E-885-015-01
 ERCO ID 14937
 SAMPLE RECEIVED 3/22/85
 ANALYSIS COMPLETED 3/29/85
 RESULTS IN ug/l (ppb)

ERCO / A Division of ENSECO

VOLATILE COMPOUNDSEPA 601 METHOD**ENARL-O**

Compound	Result	Minimum Reporting Limit
45V Chloromethane	ND	5
46V Bromomethane	ND	5
88V Vinyl chloride	ND	2
16V Chloroethane	ND	5
44V Methylene chloride	ND	1
29V 1,1-dichloroethylene	ND	1
13V 1,1-dichloroethane	ND	1
30V 1,2-trans-dichloroethylene	ND	1
23V Chloroform	ND	1
10V 1,2-dichloroethane	ND	1
11V 1,1,1-trichloroethane	370	1
6V Carbon tetrachloride	ND	1
48V Bromodichloromethane	ND	1
32V 1,2-dichloropropane	ND	2
33V Trans-1,3-dichloropropylene	ND	2
87V Trichloroethylene	1,800	1
51V Dibromochloromethane	ND	1
33V Cis-1,3-dichloropropylene	ND	2
14V 1,1,2-trichloroethane	ND	2
47V Bromoform	ND	5
15V 1,1,2,2-tetrachloroethane	ND	2
85V Tetrachloroethylene	ND	1
7V Chlorobenzene	ND	5
19V 2-chloroethyl vinyl ether	ND	ND

Multiply minimum reporting limit by dilution factor to obtain true minimum limit.

Dilution factor = 50

ND = Not detected above the minimum limit.

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 51916 SAMPLE RECEIVED: 05/06/70/ CHARGE: 7.00
 PROGRAM: 1061 BUREAU OF TOXIC SUBSTANCES ASSESSMENT
 SOURCE ID: DRATNAGE BASIN: 04 GAZETTE REF CODE: 2570
 POLITICAL SUBDIVISION: LIMA V. COUNTY: LIVINGSTON
 LATITUDE: LONGITUDE: 2 DIRECTION:
 LOCATION: LIMA (T)
 DESCRIPTION: LARRY ROGERS WELL
 REPORTING LAB: TOXILAB FOR ORGANIC ANALYTICAL CHEMISTRY
 TEST PATTERN: 6011 PURGEABLE HALOCARBONS
 SAMPLE TYPE: 1201 PRIVATE WATER SUPPLY - DRILLED WELL
 TIME OF SAMPLING: 05/06/70 13:35 DATE PRINTED: 05/06/70

PARAMETER	RESULT
T62000 CHLOROMETHANE	< 10. MCG/L
T61800 BROMOMETHANE	< 10. MCG/L
T03000 VINYL CHLORIDE	< 10. MCG/L
T70200 DICHLORODIFLUOROMETHANE	< 10. MCG/L
T61900 CHLOROETHANE	< 10. MCG/L
T61700 TRICHLORODIFLUOROMETHANE	< 10. MCG/L
T23000 DICHLOROMETHANE	< 10. MCG/L
T50900 1,1-DICHLOROETHANE	< 10. MCG/L
T51000 1,1-DICHLOROETHANE	< 10. MCG/L
T61200 TRANS-1,2-DICHLOROETHENE	< 10. MCG/L
T39000 CHLOROFORM	75. MCG/L
T50800 1,2-DICHLOROETHANE	< 10. MCG/L
T23000 1,1,1-TRICHLOROETHANE	< 10. MCG/L
T36000 CARBON TETRACHLORIDE	< 10. MCG/L
T38900 BROMODICHLOROMETHANE	< 10. MCG/L
T61300 1,2-DICHLOROPROPANE	< 10. MCG/L
T61500 TRANS-1,3-DICHLOROPROPENE	< 10. MCG/L
T41100 TRICHLOROETHYLENE	< 10. MCG/L
T44900 DIAROMDICHLOROMETHANE	240. MCG/L
T61400 CIS-1,3-DICHLOROPROPENE	< 10. MCG/L
T51700 1,1,2-TRICHLOROETHANE	< 10. MCG/L
T61100 2-CHLOROETHYL VINYL ETHER	< 10. MCG/L
T42100 BROMOFORM	< 10. MCG/L
T51800 1,1,2,2-TETRACHLOROETHANE	< 10. MCG/L
T41200 TETRACHLOROETHENE	< 10. MCG/L
T40900 CHLOROBENZENE	< 10. MCG/L
T49700 1,3-DICHLOROBENZENE	< 10. MCG/L
T40100 1,2-DICHLOROBENZENE	< 10. MCG/L
T40200 1,4-DICHLOROBENZENE	< 10. MCG/L

*** END OF REPORT ***

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ROOM 372, 10002 BUILDING

GOVERNOR NELSON A. ROCKWELL

EMPIRE STATE CLAY

3 of 26

4636

NEW YORK STATE DEPARTMENT OF MTA
NORTH CENTRAL FOR LABORATORIES AND RESEARCH

PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 51017 SAMPLE RECEIVED: 05/06/201 CHARGE: 7.00
 PROGRAM: 1061 BUREAU OF TOXIC SUBSTANCE ASSESSMENT
 SOURCE ID: DRAINAGE BASIN 100 GAZETTEER CODE: 2524
 POLITICAL SUBDIVISION: LIMA V. COUNTY: LIVINGSTON
 LATITUDE: LONGITUDE: 7 DIRECTION:
 LOCATION: LIMA (T)
 DESCRIPTION: HARRY YELFEKOP WELL
 REPORTING LAB: TOXILAB FOR ORGANIC ANALYTICAL CHEMISTRY
 TEST PATTERN: 401: BUREAU OF HALOCARBONS
 SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL
 TIME OF SAMPLING: 05/06/19 13:20 DATE PRINTED: 05/06/20

PARAMETER	RESULT
T62000 CHLOROETHANE	< 10. MCG/L
T61800 ARBOMETHANE	< 10. MCG/L
T61000 VINYL CHLORIDE	< 10. MCG/L
T70200 DICHLORODIFLUOROMETHANE	< 10. MCG/L
T61900 CHLOROETHANE	< 10. MCG/L
T61700 TRICHLOROFLUOROMETHANE	< 10. MCG/L
T23800 DICHLOROMETHANE	< 10. MCG/L
T50900 1,1-DICHLOROETHENE	< 10. MCG/L
T51900 1,1-DICHLOROETHANE	< 10. MCG/L
T61200 TRANS-1,2-DICHLOROETHENE	41. MCG/L
T39000 CHLOROFORM	< 10. MCG/L
T50800 1,2-DICHLOROETHANE	< 10. MCG/L
T23600 1,1,1-TRICHLOROETHANE	8. MCG/L
T36600 CARBON TETRACHLORIDE	< 10. MCG/L
T38900 ARBOMETHANE	< 10. MCG/L
T61300 1,2-DICHLOROPROPANE	< 10. MCG/L
T61500 TRANS-1,3-DICHLOROPROPENE	< 10. MCG/L
T61100 TRICHLOROETHYLENE	110. MCG/L
T48900 DIARBOMETHANE	< 10. MCG/L
T61400 CIS-1,3-DICHLOROPROPENE	< 10. MCG/L
T51700 1,1,2-TRICHLOROETHANE	< 10. MCG/L
T61100 2-CHLOROETHYL VINYL ETHER	< 10. MCG/L
T42100 ARBOMETHANE	< 10. MCG/L
T51800 1,1,2,2-TETRACHLOROETHANE	< 10. MCG/L
T41200 TETRACHLOROETHENE	< 10. MCG/L
T40900 CHLOROBENZENE	< 10. MCG/L
T40700 1,3-DICHLOROBENZENE	< 10. MCG/L
T44100 1,2-DICHLOROBENZENE	< 10. MCG/L
T44200 1,4-DICHLOROBENZENE	10. MCG/L

*** END OF REPORT ***

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ROOM 372, STATE HOUSE

GOVERNOR NICHOLS

EMPLOYEE (NAME)

0637

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 51918 SAMPLE RECEIVED: 05/06/20/ CHARGE: 7.00
 PROGRAM: 106: BUREAU OF TOXIC SUBSTANCES ASSESSMENT
 SOURCE ID: DRAINAGE BASIN: 04 GAZETTEER CODE: 2524
 POLITICAL SUBDIVISION: LIMA V. COUNTY: LIVINGSTON
 LATITUDE: LONGITUDE: Z DIRECTION:
 LOCATION: LIMA (T)
 DESCRIPTION: ROBERT GARVEY WELL
 REPORTING LAB: TOXILAB FOR ORGANIC ANALYTICAL CHEMISTRY
 TEST PATTERN: 601: PURGABLE HALOCARBONS
 SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - BOTTLED WELL
 TIME OF SAMPLING: 05/06/19 13:05 DATE PRINTED: 05/06/20

PARAMETER	RESULT
T42000 CHLOROMETHANE	< 10, MCG/L
T41800 BROMOMETHANE	< 10, MCG/L
T41000 VINYL CHLORIDE	< 10, MCG/L
T70200 DICHLORODIFLUOROMETHANE	< 10, MCG/L
T61900 CHLOROFORM	< 10, MCG/L
T61700 TRICHLOROFLUOROMETHANE	< 10, MCG/L
T23800 DICHLOROMETHANE	< 10, MCG/L
T50900 1,1-DICHLOROETHANE	< 10, MCG/L
T51900 1,1-DICHLOROETHANE	< 10, MCG/L
T61200 TRANS-1,2-DICHLOROETHENE	75, MCG/L
T39000 CHLOROFORM	< 10, MCG/L
T50400 1,2-DICHLOROETHANE	< 10, MCG/L
T23600 1,1,1-TRICHLOROETHANE	8, MCG/L
T36600 CARBON TETRACHLORIDE	< 10, MCG/L
T38900 BROMODICHLOROMETHANE	< 10, MCG/L
T61300 1,2-DICHLOROPROPANE	< 10, MCG/L
T61500 TRANS-1,3-DICHLOROPROPENE	< 10, MCG/L
T41100 TRICHLOROETHYLENE	200, MCG/L
T40000 DIBROMODICHLOROMETHANE	< 10, MCG/L
T61400 CIS-1,3-DICHLOROPROPENE	< 10, MCG/L
T51700 1,1,2-TRICHLOROETHANE	< 10, MCG/L
T61100 2-CHLOROETHYL VINYL ETHER	< 10, MCG/L
T42100 BROMOFORM	< 10, MCG/L
T51800 1,1,2,2-TETRACHLOROETHANE	< 10, MCG/L
T41200 TETRACHLOROETHENE	< 10, MCG/L
T40900 CHLOROBENZENE	< 10, MCG/L
T49700 1,3-DICHLOROBENZENE	< 10, MCG/L
T44100 1,2-DICHLOROBENZENE	< 10, MCG/L
T40200 1,4-DICHLOROBENZENE	< 10, MCG/L

*** END OF REPORT ***

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BUREAU OF TOXIC SUBSTANCES ASSESSMENT

ROOM 372, TOWER BUILDING

GOVERNOR NELSON A. ROCKWELL

EMPIRE STATE PLAZA

0639

NEW YORK STATE DEPARTMENT OF HEALTH
HADSORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 51920 SAMPLE RECEIVED: 05/06/201 CHARGE: 7.00
 PROGRAM: 1061 BUREAU OF TOXIC SUBSTANCES ASSESSMENT
 SOURCE ID: DRAINAGE BASIN: 04 GAZETTEER CODE: 2524
 POLITICAL SUBDIVISION: LIMA V. COUNTY: LIVINGSTON
 LATITUDE: LONGITUDE: 7 DIRECTION:
 LOCATION: LIMA (T)
 DESCRIPTION: EDWARD TONDOYK WELL
 REPORTING LAB: TOXILAB FOR ORGANIC ANALYTICAL CHEMISTRY
 TEST PATTERN: 601: PURGEABLE HALOCARBONS
 SAMPLE TYPE: 120: PRIVATE WATER SUPPLY & BOTTLED WELL
 TIME OF SAMPLING: 05/06/10 12:35 DATE PRINTED: 05/06/20

PARAMETER	RESULT
T62000 CHLOROMETHANE	< 2. MCG/L
T61000 ARBOMETHANE	< 2. MCG/L
T61000 VINYL CHLORIDE	< 2. MCG/L
T70200 DICHLORODIFLUOROMETHANE	< 2. MCG/L
T61900 CHLOROMETHANE	< 2. MCG/L
T61700 TRICHLOROFLUOROMETHANE	< 2. MCG/L
T23000 DICHLOROMETHANE	< 2. MCG/L
T50900 1,1-DICHLOROETHENE	< 2. MCG/L
T51900 1,1-DICHLOROETHANE	< 2. MCG/L
T61200 TRANS-1,2-DICHLOROETHENE	< 2. MCG/L
T39000 CHLOROFORM	< 2. MCG/L
T50800 1,2-DICHLOROETHANE	< 2. MCG/L
T23600 1,1,1-TRICHLOROETHANE	< 2. MCG/L
T36600 CARBON TETRACHLORIDE	< 2. MCG/L
T38900 BROMODICHLOROMETHANE	< 2. MCG/L
T61300 1,2-DICHLOROPROPANE	< 2. MCG/L
T61500 TRANS-1,3-DICHLOROPROPENE	< 2. MCG/L
T61100 TRICHLOROETHYLENE	< 2. MCG/L
T44900 BROMODICHLOROMETHANE	< 2. MCG/L
T61400 CIS-1,3-DICHLOROPROPENE	< 2. MCG/L
T51700 1,1,2-TRICHLOROETHANE	< 2. MCG/L
T61100 2-CHLOROETHYL VINYL ETHER	< 2. MCG/L
T42100 BROMOFORM	< 2. MCG/L
T51400 1,1,2,2-TETRACHLOROETHANE	< 2. MCG/L
T61200 TETRACHLOROETHENE	< 2. MCG/L
T40000 CHLOROBENZENE	< 2. MCG/L
T49700 1,3-DICHLOROBENZENE	< 2. MCG/L
T44100 1,2-DICHLOROBENZENE	< 2. MCG/L
T44200 1,4-DICHLOROBENZENE	< 2. MCG/L

**** END OF REPORT ****

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ROOM 372, TOWER BUILDING

GOVERNOR NELSON A. ROO (P-100)

EMPLOYE STATE PL. 7/11

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PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 52064 SAMPLE RECEIVED: 05/07/02/ CHARGE: 7.00
PROGRAM: 126:HOUSEHOLD WATER SUPPLIES
SOURCE ID: DRAINAGE BASIN:04 GAZETTEER CODE:2556
POLITICAL SUBDIVISION:LIMA COUNTY:LIVINGSTON
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: LIMA T
DESCRIPTION:PORT GARVEY 7883 MARTIN RD
REPORTING LAB: TOXILAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: 601:PURGEABLE HALOCARBONS
SAMPLE TYPE: 120:PRIVATE WATER SUPPLY - DRILLED WELL
TIME OF SAMPLING: 05/07/01 15:00 DATE PRINTED:05/07/16

PARAMETER	RESULT
T62009 CHLOROMETHANE	< 1. MCG/L
T61809 BROMOMETHANE	< 1. MCG/L
T41009 VINYL CHLORIDE	< 1. MCG/L
T70209 DICHLORODIFLUOROMETHANE	< 1. MCG/L
T61909 CHLOROETHANE	< 1. MCG/L
T61709 TRICHLOROFLUOROMETHANE	< 1. MCG/L
T23809 DICHLOROMETHANE	1. MCG/L
T50909 1,1-DICHLOROETHENE	< 1. MCG/L
T51909 1,1-DICHLOROETHANE	1. MCG/L
T61209 TRANS-1,2-DICHLOROETHENE	89. MCG/L
T39009 CHLOROFORM	< 1. MCG/L
T50809 1,2-DICHLOROETHANE	2. MCG/L
T23609 1,1,1-TRICHLOROETHANE	3. MCG/L
T36609 CARBON TETRACHLORIDE	< 1. MCG/L
T38909 BROMODICHLOROMETHANE	< 1. MCG/L
T61309 1,2-DICHLOROPROPANE	< 1. MCG/L
T61509 TRANS-1,3-DICHLOROPROPENE	< 1. MCG/L
T41109 TRICHLOROETHYLENE	318. MCG/L
T44909 DIBROMOCHLOROMETHANE	< 1. MCG/L
T61409 CIS-1,3-DICHLOROPROPENE	< 1. MCG/L
T51709 1,1,2-TRICHLOROETHANE	< 1. MCG/L
T61109 2-CHLOROETHYL VINYL ETHER	< 1. MCG/L
T42109 BROMOFORM	< 1. MCG/L
T51809 1,1,2,2-TETRACHLOROETHANE	< 1. MCG/L
T41209 TETRACHLOROETHENE	1. MCG/L
T40909 CHLOROBENZENE	< 1. MCG/L
T49709 1,3-DICHLOROBENZENE	< 1. MCG/L
T48109 1,2-DICHLOROBENZENE	< 1. MCG/L
T48209 1,4-DICHLOROBENZENE	< 1. MCG/L

SU

**** END OF REPORT ****

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 52065 SAMPLE RECEIVED: 05/07/02/ CHARGE: 7.00
 PROGRAM: 126:HOUSEHOLD WATER SUPPLIES
 SOURCE ID: DRAINAGE BASIN: 04 GAZETTEER CODE: 2556
 POLITICAL SUBDIVISION: LIMA COUNTY: LIVINGSTON
 LATITUDE: LONGITUDE: Z DIRECTION:
 LOCATION: LIMA Y
 DESCRIPTION: LARRY ROGERS 7880 MARTIN RD
 REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
 TEST PATTERN: 601: PURGEABLE HALOCARBONS
 SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL
 TIME OF SAMPLING: 05/07/01 10:30 DATE PRINTED: 05/07/16

PARAMETER	RESULT
T62009 CHLOROMETHANE	< 1. MCG/L
T61809 BROMOMETHANE	< 1. MCG/L
T41009 VINYL CHLORIDE	< 1. MCG/L
T70209 DICHLORODIFLUOROMETHANE	< 1. MCG/L
T61909 CHLOROETHANE	< 1. MCG/L
T61709 TRICHLOROFLUOROMETHANE	< 1. MCG/L
T23809 DICHLOROMETHANE	< 1. MCG/L
T50909 1,1-DICHLOROETHENE	< 1. MCG/L
T51909 1,1-DICHLOROETHANE	1. MCG/L
T61209 TRANS-1,2-DICHLOROETHENE	43. MCG/L
T39009 CHLOROFORM	< 1. MCG/L
T50809 1,2-DICHLOROETHANE	2. MCG/L
T23609 1,1,1-TRICHLOROETHANE	2. MCG/L
T36609 CARBON TETRACHLORIDE	< 1. MCG/L
T34909 BROMODICHLOROMETHANE	< 1. MCG/L
T61309 1,2-DICHLOROPROPANE	< 1. MCG/L
T61509 TRANS-1,3-DICHLOROPROPENE	< 1. MCG/L
T41109 TRICHLOROETHYLENE	197. MCG/L
T44909 DIBROMOCHLOROMETHANE	< 1. MCG/L
T61409 CIS-1,3-DICHLOROPROPENE	< 1. MCG/L
T51709 1,1,2-TRICHLOROETHANE	1. MCG/L
T61109 2-CHLOROETHYL VINYL ETHER	< 1. MCG/L
T42109 BROMOFORM	< 1. MCG/L
T51809 1,1,2,2-TETRACHLOROETHANE	< 1. MCG/L
T41209 TETRACHLOROETHENE	1. MCG/L
T40909 CHLOROBENZENE	< 1. MCG/L
T49709 1,3-DICHLOROBENZENE	< 1. MCG/L
T44109 1,2-DICHLOROBENZENE	< 1. MCG/L
T44209 1,4-DICHLOROBENZENE	< 1. MCG/L

**** END OF REPORT ****

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 62 SOUTH WASHINGTON ST.
 ROCHESTER, N.Y. 14603

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 52066 SAMPLE RECEIVED: 85/07/02/ CHARGE: 7.00
 PROGRAM: 126:HOUSEHOLD WATER SUPPLIES
 SOURCE ID: DRAINAGE BASIN:04 GAZETTEER CODE:2556
 POLITICAL SUBDIVISION:LIMA COUNTY:LIVINGSTON
 LATITUDE: LONGITUDE: Z DIRECTION:
 LOCATION: LIMA
 DESCRIPTION: HONEYE CREEK S OF MARTIN RD
 REPORTING LAB: TOXILAB FOR ORGANIC ANALYTICAL CHEMISTRY
 TEST PATTERN: 601:PURGEABLE HALOCARBONS
 SAMPLE TYPE: 210:SURFACE WATER
 TIME OF SAMPLING: 85/07/01 14:30 DATE PRINTED: 85/07/16

PARAMETER	RESULT
T62009 CHLOROMETHANE	< 1, MCG/L
T61809 BROMOMETHANE	< 1, MCG/L
T41009 VINYL CHLORIDE	< 1, MCG/L
T70209 DICHLORODIFLUOROMETHANE	< 1, MCG/L
T61909 CHLOROETHANE	< 1, MCG/L
T61709 TRICHLOROFLUOROMETHANE	< 1, MCG/L
T23809 DICHLOROMETHANE	< 1, MCG/L
T50909 1,1-DICHLOROETHENE	< 1, MCG/L
T51909 1,1-DICHLOROETHANE	< 1, MCG/L
T61209 TRANS-1,2-DICHLOROETHENE	< 1, MCG/L
T39009 CHLOROFORM	< 1, MCG/L
T50809 1,2-DICHLOROETHANE	< 1, MCG/L
T23609 1,1,1-TRICHLOROETHANE	2, MCG/L
T36609 CARBON TETRACHLORIDE	< 1, MCG/L
T38909 BROMODICHLOROMETHANE	< 1, MCG/L
T61309 1,2-DICHLOROPROPANE	< 1, MCG/L
T61509 TRANS-1,3-DICHLOROPROPENE	< 1, MCG/L
T41109 TRICHLOROETHYLENE	< 1, MCG/L
T44909 DIBROMOCHLOROMETHANE	< 1, MCG/L
T61409 CIS-1,3-DICHLOROPROPENE	< 1, MCG/L
T51709 1,1,2-TRICHLOROETHANE	< 1, MCG/L
T61109 2-CHLOROETHYL VINYL ETHER	< 1, MCG/L
T42109 BROMOFORM	< 1, MCG/L
T51809 1,1,2,2-TETRACHLOROETHANE	< 1, MCG/L
T41209 TETRACHLOROETHENE	< 1, MCG/L
T40909 CHLOROBENZENE	< 1, MCG/L
T49709 1,3-DICHLOROBENZENE	< 1, MCG/L
T04109 1,2-DICHLOROBENZENE	< 1, MCG/L
T44209 1,4-DICHLOROBENZENE	< 1, MCG/L

**** END OF REPORT ****

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NEW YORK STATE DEPARTMENT OF HEALTH

FINAL REPORT

SAMPLE ID: 52067 SAMPLE RECEIVED: 85/07/02/ CHARGE: 7.00
PROGRAM: 100:MUNICIPAL WATER SUPPLIES
SOURCE ID: DRAINAGE BASIN: 04 GAZETTEER CODE: 2556
POLITICAL SUBDIVISION: LIMA COUNTY: LIVINGSTON
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: ENARCO MACHINE Y LIMA
DESCRIPTION: RAW TAP BRAGG ST
REPORTING LAB: TOXILAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: 601: PURGEABLE HALOCARBONS
SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL
TIME OF SAMPLING: 85/07/01 16:00 DATE PRINTED: 85/07/16

PARAMETER	RESULT
T62009 CHLOROMETHANE	< 1, MCG/L
T61809 BROMOMETHANE	< 1, MCG/L
T21009 VINYL CHLORIDE	< 1, MCG/L
T70209 DICHLORODIFLUOROMETHANE	< 1, MCG/L
T61909 CHLOROETHANE	< 1, MCG/L
T61709 TRICHLOROFLUOROMETHANE	< 1, MCG/L
T23809 DICHLOROMETHANE	< 1, MCG/L
T50909 1,1-DICHLOROETHENE	< 1, MCG/L
T51909 1,1-DICHLOROETHANE	< 1, MCG/L
T61209 TRANS-1,2-DICHLOROETHENE	< 1, MCG/L
T39009 CHLOROFORM	< 1, MCG/L
T50809 1,2-DICHLOROETHANE	< 1, MCG/L
T23609 1,1,1-TRICHLOROETHANE	22, MCG/L
T36609 CARBON TETRACHLORIDE	< 1, MCG/L
T38909 BROMODICHLOROMETHANE	< 1, MCG/L
T61309 1,2-DICHLOROPROPANE	< 1, MCG/L
T61509 TRANS-1,3-DICHLOROPROPENE	< 1, MCG/L
T41109 TRICHLOROETHYLENE	8, MCG/L
T44909 DIBROMODICHLOROMETHANE	< 1, MCG/L
T61409 CIS-1,3-DICHLOROPROPENE	< 1, MCG/L
T51709 1,1,2-TRICHLOROETHANE	< 1, MCG/L
T61109 2-CHLOROETHYL VINYL ETHER	< 1, MCG/L
T42109 BROMOFORM	< 1, MCG/L
T51809 1,1,2,2-TETRACHLOROETHANE	< 1, MCG/L
T41209 TETRACHLOROETHENE	< 1, MCG/L
T40909 CHLOROBENZENE	< 1, MCG/L
T49709 1,3-DICHLOROBENZENE	< 1, MCG/L
T44109 1,2-DICHLOROBENZENE	< 1, MCG/L
T44209 1,4-DICHLOROBENZENE	< 1, MCG/L

***** END OF REPORT *****

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FINAL REPORT

SAMPLE ID: 52063 SAMPLE RECEIVED: 85/07/02/ CHARGE: 7.00
PROGRAM: 1261 HOUSEHOLD WATER SUPPLIES
SOURCE ID: DRAINAGE BASIN: 04 GAZETTEER CODE: 2556
POLITICAL SUBDIVISION: LIMA COUNTY: LIVINGSTON
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: LIMA T
DESCRIPTION: HOPKINS 7852 MARTIN RD OUTSIDE
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: 601: PURGEABLE HALOCARBONS
SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL
TIME OF SAMPLING: 85/07/01 15:45 DATE PRINTED: 85/07/16

PARAMETER	RESULT
T62009 CHLOROMETHANE	< 1. MCG/L
T61809 BROMOMETHANE	< 1. MCG/L
T41009 VINYL CHLORIDE	< 1. MCG/L
T70209 DICHLORODIFLUOROMETHANE	< 1. MCG/L
T61909 CHLOROETHANE	< 1. MCG/L
T61709 TRICHLOROFLUOROMETHANE	< 1. MCG/L
T23809 DICHLOROMETHANE	< 1. MCG/L
T50909 1,1-DICHLOROETHENE	< 1. MCG/L
T51909 1,1-DICHLOROETHANE	< 1. MCG/L
T61209 TRANS-1,2-DICHLOROETHENE	4. MCG/L
T39009 CHLOROFORM	< 1. MCG/L
T50809 1,2-DICHLOROETHANE	< 1. MCG/L
T23609 1,1,1-TRICHLOROETHANE	1. MCG/L
T36609 CARBON TETRACHLORIDE	< 1. MCG/L
T38909 BROMODICHLOROMETHANE	< 1. MCG/L
T61309 1,2-DICHLOROPROPANE	< 1. MCG/L
T61509 TRANS-1,3-DICHLOROPROPENE	< 1. MCG/L
T41109 TRICHLOROETHYLENE	80. MCG/L
T44909 DIBROMOCHLOROMETHANE	< 1. MCG/L
T61409 CIS-1,3-DICHLOROPROPENE	< 1. MCG/L
T51709 1,1,2-TRICHLOROETHANE	< 1. MCG/L
T61109 2-CHLOROETHYL VINYL ETHER	< 1. MCG/L
T42109 BROMOFORM	< 1. MCG/L
T51809 1,1,2,2-TETRACHLOROETHANE	< 1. MCG/L
T41209 TETRACHLOROETHENE	< 1. MCG/L
T40909 CHLOROBENZENE	< 1. MCG/L
T49709 1,3-DICHLOROBENZENE	< 1. MCG/L
T44109 1,2-DICHLOROBENZENE	< 1. MCG/L
T44209 1,4-DICHLOROBENZENE	< 1. MCG/L

***** END OF REPORT *****

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 52062 SAMPLE RECEIVED: 85/07/02/ CHARGE: 7.00
 PROGRAM: 126: HOUSEHOLD WATER SUPPLIES
 SOURCE ID: DRAINAGE BASIN: 04 GAZETTEER CODE: 2556
 POLITICAL SUBDIVISION: LIMA COUNTY: LIVINGSTON
 LATITUDE: LONGITUDE: Z DIRECTION:
 LOCATION: LIMA T
 DESCRIPTION: BOONSTRA 7859 MARTIN RD.
 REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
 TEST PATTERN: 601: PURGEABLE HALOCARBONS
 SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL
 TIME OF SAMPLING: 85/07/01 15:45 DATE PRINTED: 85/07/18

PARAMETER	RESULT
T62009 CHLOROMETHANE	< 1. MCG/L
T61809 BROMOMETHANE	< 1. MCG/L
T41009 VINYL CHLORIDE	< 1. MCG/L
T70209 DICHLORODIFLUOROMETHANE	< 1. MCG/L
T61909 CHLOROETHANE	< 1. MCG/L
T61709 TRICHLORODIFLUOROMETHANE	< 1. MCG/L
T23809 DICHLOROMETHANE	< 1. MCG/L
T50909 1, 1-DICHLOROETHENE	< 1. MCG/L
T51909 1, 1-DICHLOROETHANE	< 1. MCG/L
T61209 TRANS-1, 2-DICHLOROETHENE	4. MCG/L
T39009 CHLOROFORM	< 1. MCG/L
T50809 1, 2-DICHLOROETHANE	< 1. MCG/L
T23609 1, 1, 1-TRICHLOROETHANE	< 1. MCG/L
T36609 CARBON TETRACHLORIDE	< 1. MCG/L
T38909 BROMODICHLOROMETHANE	< 1. MCG/L
T61309 1, 2-DICHLOROPROPANE	< 1. MCG/L
T61509 TRANS-1, 3-DICHLOROPROPENE	< 1. MCG/L
T41109 TRICHLOROETHYLENE	20. MCG/L
T44909 DIBROMOCHLOROMETHANE	< 1. MCG/L
T61409 CIS-1, 3-DICHLOROPROPENE	< 1. MCG/L
T51709 1, 1, 2-TRICHLOROETHANE	< 1. MCG/L
T61109 2-CHLOROETHYL VINYL ETHER	< 1. MCG/L
T42109 BROMOFORM	< 1. MCG/L
T51809 1, 1, 2, 2-TETRACHLOROETHANE	< 1. MCG/L
T41209 TETRACHLOROETHENE	< 1. MCG/L
T40909 CHLOROBENZENE	< 1. MCG/L
T49709 1, 3-DICHLOROBENZENE	< 1. MCG/L
T44109 1, 2-DICHLOROBENZENE	< 1. MCG/L
T44209 1, 4-DICHLOROBENZENE	< 1. MCG/L

**** END OF REPORT ****

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 52040 SAMPLE RECEIVED: 85/07/02/ CHARGE: 7.00
 PROGRAM: 126:HOUSEHOLD WATER SUPPLIES
 SOURCE ID: DRAINAGE BASIN: 04 GAZETTEER CODE: 2556
 POLITICAL SUBDIVISION: LIMA COUNTY: LIVINGSTON
 LATITUDE: LONGITUDE: Z DIRECTION:
 LOCATION: LIMA T
 DESCRIPTION: SMITH 1167 BRAGG ST OUTSIDE TAP SMALLEY
 REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
 TEST PATTERN: 601: PURGEABLE HALOCARBONS
 SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL
 TIME OF SAMPLING: 85/07/01 14:15 DATE PRINTED: 85/07/18

PARAMETER	RESULT
T62009 CHLOROMETHANE	< 1. MCG/L
T61809 BROMOMETHANE	< 1. MCG/L
T41009 VINYL CHLORIDE	< 1. MCG/L
T70209 DICHLORODIFLUOROMETHANE	< 1. MCG/L
T61909 CHLOROETHANE	< 1. MCG/L
T61709 TRICHLOROFLUOROMETHANE	< 1. MCG/L
T23809 DICHLOROMETHANE	< 1. MCG/L
T50909 1,1-DICHLOROETHENE	< 1. MCG/L
T51909 1,1-DICHLOROETHANE	< 1. MCG/L
T61209 TRANS-1,2-DICHLOROETHENE	17. MCG/L
T39009 CHLOROFORM	1. MCG/L
T50809 1,2-DICHLOROETHANE	< 1. MCG/L
T23609 1,1,1-TRICHLOROETHANE	1. MCG/L
T36609 CARBON TETRACHLORIDE	< 1. MCG/L
T38909 BROMODICHLOROMETHANE	< 1. MCG/L
T61309 1,2-DICHLOROPROPANE	< 1. MCG/L
T61509 TRANS-1,3-DICHLOROPROPENE	< 1. MCG/L
T41109 TRICHLOROETHYLENE	98. MCG/L
T44909 DIBROMOCHLOROMETHANE	< 1. MCG/L
T61409 CIS-1,3-DICHLOROPROPENE	< 1. MCG/L
T51709 1,1,2-TRICHLOROETHANE	< 1. MCG/L
T61109 2-CHLOROETHYL VINYL ETHER	< 1. MCG/L
T42109 BROMOFORM	< 1. MCG/L
T51809 1,1,2,2-TETRACHLOROETHANE	< 1. MCG/L
T41209 TETRACHLOROETHENE	< 1. MCG/L
T40909 CHLOROBENZENE	< 1. MCG/L
T49709 1,3-DICHLOROBENZENE	< 1. MCG/L
T44109 1,2-DICHLOROBENZENE	< 1. MCG/L
T44209 1,4-DICHLOROBENZENE	< 1. MCG/L

**** END OF REPORT ****

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REGIONAL DIRECTOR OF PHARMACOLOGY
 NEW YORK STATE DEPARTMENT OF HEALTH
 42 SOUTH WASHINGTON ST
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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 52059 SAMPLE RECEIVED: 85/07/02/ CHARGE: 7.00
 PROGRAM: 126: HOUSEHOLD WATER SUPPLIES
 SOURCE ID: DRAINAGE BASIN: 04 GAZETTEER CODE: 2556
 POLITICAL SUBDIVISION: LIMA COUNTY: LIVINGSTON
 LATITUDE: LONGITUDE: Z DIRECTION:
 LOCATION: LIMA T
 DESCRIPTION: ED TONDYK RES 1191 BRAGG ST
 REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
 TEST PATTERN: 601: PURGEABLE HALOCARBONS
 SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL
 TIME OF SAMPLING: 85/07/01 14:15 DATE PRINTED: 85/07/18

PARAMETER	RESULT
T62009 CHLOROMETHANE	< 1. MCG/L
T61809 BROMOMETHANE	< 1. MCG/L
T41009 VINYL CHLORIDE	< 1. MCG/L
T70209 DICHLORODIFLUOROMETHANE	< 1. MCG/L
T61909 CHLOROETHANE	< 1. MCG/L
T61709 TRICHLOROFLUOROMETHANE	< 1. MCG/L
T23809 DICHLOROMETHANE	< 1. MCG/L
T50909 1,1-DICHLOROETHENE	< 1. MCG/L
T51909 1,1-DICHLOROETHANE	< 1. MCG/L
T61209 TRANS-1,2-DICHLOROETHENE	< 1. MCG/L
T39009 CHLOROFORM	< 1. MCG/L
T50809 1,2-DICHLOROETHANE	< 1. MCG/L
T23609 1,1,1-TRICHLOROETHANE	< 1. MCG/L
T36609 CARBON TETRACHLORIDE	< 1. MCG/L
T38909 BROMODICHLOROMETHANE	< 1. MCG/L
T61309 1,2-DICHLOROPROPANE	< 1. MCG/L
T61509 TRANS-1,3-DICHLOROPROPENE	< 1. MCG/L
T41109 TRICHLOROETHYLENE	3. MCG/L
T44909 DIBROMOCHLOROMETHANE	< 1. MCG/L
T61409 CIS-1,3-DICHLOROPROPENE	< 1. MCG/L
T51709 1,1,2-TRICHLOROETHANE	< 1. MCG/L
T61109 2-CHLOROETHYL VINYL ETHER	< 1. MCG/L
T42109 BROMOFORM	< 1. MCG/L
T51809 1,1,2,2-TETRACHLOROETHANE	< 1. MCG/L
T41209 TETRACHLOROETHENE	< 1. MCG/L
T40909 CHLOROBENZENE	< 1. MCG/L
T49709 1,3-DICHLOROBENZENE	< 1. MCG/L
T44109 1,2-DICHLOROBENZENE	< 1. MCG/L
T44209 1,4-DICHLOROBENZENE	< 1. MCG/L

**** END OF REPORT ****

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 NEW YORK STATE DEPARTMENT OF HEALTH
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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 52058 SAMPLE RECEIVED: 85/07/02/ CHARGE: 7.00
PROGRAM: 126:HOUSEHOLD WATER SUPPLIES
SOURCE ID: DRAINAGE BASIN:04 GAZETTEER CODE:2556
POLITICAL SUBDIVISION:LIMA COUNTY:LIVINGSTON
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: LIMA T
DESCRIPTION:CAVALIER 7865 MARTIN RD.
REPORTING LAB: TOX:LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: 601:PURGEABLE HALOCARBONS
SAMPLE TYPE: 120:PRIVATE WATER SUPPLY - DRILLED WELL
TIME OF SAMPLING: 85/07/01 15:30 DATE PRINTED:85/07/18

PARAMETER	RESULT
T62009 CHLOROMETHANE	< 1. MCG/L
T61809 BROMOMETHANE	< 1. MCG/L
T41009 VINYL CHLORIDE	< 1. MCG/L
T70209 DICHLORODIFLUOROMETHANE	< 1. MCG/L
T61909 CHLOROETHANE	< 1. MCG/L
T61709 TRICHLOROFLUOROMETHANE	< 1. MCG/L
T23809 DICHLOROMETHANE	< 1. MCG/L
T50909 1,1-DICHLOROETHENE	< 1. MCG/L
T51909 1,1-DICHLOROETHANE	< 1. MCG/L
T61209 TRANS-1,2-DICHLOROETHENE	2. MCG/L
T39009 CHLOROFORM	< 1. MCG/L
T50809 1,2-DICHLOROETHANE	< 1. MCG/L
T23609 1,1,1-TRICHLOROETHANE	1. MCG/L
T36609 CARBON TETRACHLORIDE	< 1. MCG/L
T38909 BROMODICHLOROMETHANE	< 1. MCG/L
T61309 1,2-DICHLOROPROPANE	< 1. MCG/L
T61509 TRANS-1,3-DICHLOROPROPENE	< 1. MCG/L
T41109 TRICHLOROETHYLENE	22. MCG/L
T44909 DIBROMOCHLOROMETHANE	< 1. MCG/L
T61409 CIS-1,3-DICHLOROPROPENE	< 1. MCG/L
T51709 1,1,2-TRICHLOROETHANE	< 1. MCG/L
T61109 2-CHLOROETHYL VINYL ETHER	< 1. MCG/L
T42109 BROMOFORM	< 1. MCG/L
T51809 1,1,2,2-TETRACHLOROETHANE	< 1. MCG/L
T41209 TETRACHLOROETHENE	< 1. MCG/L
T40909 CHLOROBENZENE	< 1. MCG/L
T49709 1,3-DICHLOROBENZENE	< 1. MCG/L
T44109 1,2-DICHLOROBENZENE	< 1. MCG/L
T44209 1,4-DICHLOROBENZENE	< 1. MCG/L

*** END OF REPORT

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NEW YORK STATE DEPARTMENT OF HEALTH
HARSWORTH CLINIC FOR LABORATORIES AND RESEARCH

FINAL REPORT

GAZETTEER CODE: 2556
COUNTY: LIVINGSTON
Z DIRECTION:

PARAMETER	RESULT
T62009 CHLOROMETHANE	< 1. MCG/L
T61809 BROMOMETHANE	< 1. MCG/L
T41009 VINYL CHLORIDE	< 1. MCG/L
T70209 DICHLORODIFLUOROMETHANE	< 1. MCG/L
T61909 CHLOROETHANE	< 1. MCG/L
T61709 TRICHLOROFLUOROMETHANE	< 1. MCG/L
T23809 DICHLORMETHANE	< 1. MCG/L
T50909 1, 1-DICHLOROETHENE	< 1. MCG/L
T51909 1, 1-DICHLOROETHANE	< 1. MCG/L
T61209 TRANS-1, 2-DICHLOROETHENE	19. MCG/L
T39009 CHLOROFORM	< 1. MCG/L
T50809 1, 2-DICHLOROETHANE	< 1. MCG/L
T23609 1, 1, 1-TRICHLOROETHANE	1. MCG/L
T36609 CARBON TETRACHLORIDE	< 1. MCG/L
T38909 BROMODICHLORMETHANE	< 1. MCG/L
T61309 1, 2-DICHLOROPROPANE	< 1. MCG/L
T61509 TRANS-1, 3-DICHLOROPROPENE	< 1. MCG/L
T41109 TRICHLOROETHYLENE	72. MCG/L
T44909 DIBROMOCHLOROMETHANE	< 1. MCG/L
T61409 CIS-1, 3-DICHLOROPROPENE	< 1. MCG/L
T51709 1, 1, 2-TRICHLOROETHANE	< 1. MCG/L
T61109 2-CHLOROETHYL VINYL ETHER	< 1. MCG/L
T42109 BROMOFORM	< 1. MCG/L
T51809 1, 1, 2, 2-TETRACHLOROETHANE	< 1. MCG/L
T41209 TETRACHLOROETHENE	< 1. MCG/L
T40909 CHLOROBENZENE	< 1. MCG/L
T49709 1, 3-DICHLOROBENZENE	< 1. MCG/L
T44109 1, 2-DICHLOROBENZENE	< 1. MCG/L
T44209 1, 4-DICHLOROBENZENE	< 1. MCG/L

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 54052 SAMPLE RECEIVED: 85/10/31/ CHARGE: 7.00
PROGRAM: 126: HOUSEHOLD WATER SUPPLIES
SOURCE ID: DRAINAGE BASIN: 04 GAZETTEER CODE: 2556
POLITICAL SUBDIVISION: LIMA COUNTY: LIVINGSTON
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: LIMA T
DESCRIPTION: CWKT RICHARD MILLER RES 7744 MARTIN RD.
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: 601: PURGEABLE HALOCARBONS
SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL
TIME OF SAMPLING: 85/10/29 16:30 DATE PRINTED: 85/11/19

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)

PARAMETER	RESULT
T62009 CHLOROMETHANE	< 1. MCG/L
T61809 BROMOMETHANE	< 1. MCG/L
T41009 VINYL CHLORIDE	< 1. MCG/L
T70209 DICHLORODIFLUOROMETHANE	< 1. MCG/L
T61909 CHLOROETHANE	< 1. MCG/L
T61709 TRICHLOROFLUOROMETHANE	< 1. MCG/L
T23809 DICHLOROMETHANE	< 1. MCG/L
T50909 1,1-DICHLOROETHENE	< 1. MCG/L
T51909 1,1-DICHLOROETHANE	< 1. MCG/L
T61209 TRANS-1,2-DICHLOROETHENE	< 1. MCG/L
T37009 CHLOROFORM	< 1. MCG/L
T50809 1,2-DICHLOROETHANE	< 1. MCG/L
T23609 1,1,1-TRICHLOROETHANE	< 1. MCG/L
T36609 CARBON TETRACHLORIDE	< 1. MCG/L
T38909 BROMODICHLOROMETHANE	< 1. MCG/L
T61309 1,2-DICHLOROPROPANE	< 1. MCG/L
T61509 TRANS-1,3-DICHLOROPROPENE	< 1. MCG/L
T41109 TRICHLOROETHYLENE	< 1. MCG/L
T44909 DIBROMOCHLOROMETHANE	< 1. MCG/L
T61409 CIS-1,3-DICHLOROPROPENE	< 1. MCG/L
T51709 1,1,2-TRICHLOROETHANE	< 1. MCG/L
T61109 2-CHLOROETHYL VINYL ETHER	< 1. MCG/L
T42109 BROMOFORM	< 1. MCG/L
T51809 1,1,2,2-TETRACHLOROETHANE	< 1. MCG/L
T41209 TETRACHLOROETHENE	< 1. MCG/L
T40909 CHLOROBENZENE	< 1. MCG/L
T49709 1,3-DICHLOROBENZENE	< 1. MCG/L
T44109 1,2-DICHLOROBENZENE	< 1. MCG/L
T44209 1,4-DICHLOROBENZENE	< 1. MCG/L

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 54051 SAMPLE RECEIVED: 85/10/31/ CHARGE: 7.00
PROGRAM: 126: HOUSEHOLD WATER SUPPLIES
SOURCE ID: DRAINAGE BASIN: 04 GAZETTEER CODE: 2556
POLITICAL SUBDIVISION: LIMA COUNTY: LIVINGSTON
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: LIMA T
DESCRIPTION: CWKT JOAN NEVERETT RES 7829 MARTIN RD.
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: 601: PURGEABLE HALOCARBONS
SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL
TIME OF SAMPLING: 85/10/29 17:00 DATE PRINTED: 85/11/13

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)

PARAMETER	RESULT
T62009 CHLOROMETHANE	< 1. MCG/L
T61809 BROMOMETHANE	< 1. MCG/L
T41009 VINYL CHLORIDE	< 1. MCG/L
T70209 DICHLORODIFLUOROMETHANE	< 1. MCG/L
T61909 CHLOROETHANE	< 1. MCG/L
T61709 TRICHLOROFLUOROMETHANE	< 1. MCG/L
T23809 DICHLOROMETHANE	< 1. MCG/L
T50909 1,1-DICHLOROETHENE	< 1. MCG/L
T51909 1,1-DICHLOROETHANE	< 1. MCG/L
T61209 TRANS-1,2-DICHLOROETHENE	< 1. MCG/L
T39009 CHLOROFORM	< 1. MCG/L
T50809 1,2-DICHLOROETHANE	< 1. MCG/L
T23609 1,1,1-TRICHLOROETHANE	< 1. MCG/L
T36609 CARBON TETRACHLORIDE	< 1. MCG/L
T38909 BROMODICHLOROMETHANE	< 1. MCG/L
T61309 1,2-DICHLOROPROPANE	< 1. MCG/L
T61509 TRANS-1,3-DICHLOROPROPENE	< 1. MCG/L
T41109 TRICHLOROETHYLENE	2. MCG/L
T44909 DIBROMOCHLOROMETHANE	< 1. MCG/L
T61409 CIS-1,3-DICHLOROPROPENE	< 1. MCG/L
T51709 1,1,2-TRICHLOROETHANE	< 1. MCG/L
T61109 2-CHLOROETHYL VINYL ETHER	< 1. MCG/L
T42109 BROMOFORM	< 1. MCG/L
T51809 1,1,2,2-TETRACHLOROETHANE	< 1. MCG/L
T41209 TETRACHLOROETHENE	< 1. MCG/L
T40909 CHLOROBENZENE	< 1. MCG/L
T49709 1,3-DICHLOROBENZENE	< 1. MCG/L
T44109 1,2-DICHLOROBENZENE	< 1. MCG/L
T44209 1,4-DICHLOROBENZENE	< 1. MCG/L

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 54053 SAMPLE RECEIVED: 85/10/31/ CHARGE: 7.00
PROGRAM: 126: HOUSEHOLD WATER SUPPLIES
SOURCE ID: DRAINAGE BASIN: 04 GAZETTEER CODE: 2556
POLITICAL SUBDIVISION: LIMA COUNTY: LIVINGSTON
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: LIMA T
DESCRIPTION: CWKT ED O'BRIEN RES 7801 MARTIN RD.
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: 601: PURGEABLE HALOCARBONS
SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL
TIME OF SAMPLING: 85/10/29 17:00 DATE PRINTED: 85/11/13

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)

PARAMETER	RESULT
T62009 CHLOROMETHANE	< 1. MCG/L
T61809 BROMOMETHANE	< 1. MCG/L
T41009 VINYL CHLORIDE	< 1. MCG/L
T70209 DICHLORODIFLUOROMETHANE	< 1. MCG/L
T61909 CHLOROETHANE	< 1. MCG/L
T61709 TRICHLOROFLUOROMETHANE	< 1. MCG/L
T23809 DICHLOROMETHANE	< 1. MCG/L
T50909 1,1-DICHLOROETHENE	< 1. MCG/L
T51909 1,1-DICHLOROETHANE	< 1. MCG/L
T61209 TRANS-1,2-DICHLOROETHENE	< 1. MCG/L
T39009 CHLOROFORM	< 1. MCG/L
T50809 1,2-DICHLOROETHANE	< 1. MCG/L
T23609 1,1,1-TRICHLOROETHANE	< 1. MCG/L
T36609 CARBON TETRACHLORIDE	< 1. MCG/L
T38909 BROMODICHLOROMETHANE	< 1. MCG/L
T61309 1,2-DICHLOROPROPANE	< 1. MCG/L
T61509 TRANS-1,3-DICHLOROPROPENE	< 1. MCG/L
T41109 TRICHLOROETHYLENE	< 1. MCG/L
T44909 DIBROMOCHLOROMETHANE	< 1. MCG/L
T61409 CIS-1,3-DICHLOROPROPENE	< 1. MCG/L
T51709 1,1,2-TRICHLOROETHANE	< 1. MCG/L
T61109 2-CHLOROETHYL VINYL ETHER	< 1. MCG/L
T42109 BROMOFORM	< 1. MCG/L
T51809 1,1,2,2-TETRACHLOROETHANE	< 1. MCG/L
T41209 TETRACHLOROETHENE	< 1. MCG/L
T40909 CHLOROBENZENE	< 1. MCG/L
T49709 1,3-DICHLOROBENZENE	< 1. MCG/L
T44109 1,2-DICHLOROBENZENE	< 1. MCG/L
T44209 1,4-DICHLOROBENZENE	< 1. MCG/L

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 54054 SAMPLE RECEIVED: 85/10/31/ CHARGE: 7.00
PROGRAM: 126: HOUSEHOLD WATER SUPPLIES
SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 2556
POLITICAL SUBDIVISION: LIMA COUNTY: LIVINGSTON
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: FIELD BLANK LIMA T. MARTIN RD.
DESCRIPTION: WITH SAMPLE #54051 TO 54053
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: 601: PURGEABLE HALOCARBONS
SAMPLE TYPE: 297: FIELD BLANK
TIME OF SAMPLING: 85/08/02 : DATE PRINTED: 85/11/13

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)

PARAMETER	RESULT
T62009 CHLOROMETHANE	< 1. MCG/L
T61809 BROMOMETHANE	< 1. MCG/L
T41009 VINYL CHLORIDE	< 1. MCG/L
T70209 DICHLORODIFLUOROMETHANE	< 1. MCG/L
T61909 CHLOROETHANE	< 1. MCG/L
T61709 TRICHLOROFLUOROMETHANE	< 1. MCG/L
T23809 DICHLOROMETHANE	< 1. MCG/L
T50909 1,1-DICHLOROETHENE	< 1. MCG/L
T51909 1,1-DICHLOROETHANE	< 1. MCG/L
T61209 TRANS-1,2-DICHLOROETHENE	< 1. MCG/L
T39009 CHLOROFORM	< 1. MCG/L
T50809 1,2-DICHLOROETHANE	< 1. MCG/L
T23609 1,1,1-TRICHLOROETHANE	< 1. MCG/L
T36609 CARBON TETRACHLORIDE	< 1. MCG/L
T38909 BROMODICHLOROMETHANE	< 1. MCG/L
T61309 1,2-DICHLOROPROPANE	< 1. MCG/L
T61509 TRANS-1,3-DICHLOROPROPENE	< 1. MCG/L
T41109 TRICHLOROETHYLENE	< 1. MCG/L
T44909 DIBROMOCHLOROMETHANE	< 1. MCG/L
T61409 CIS-1,3-DICHLOROPROPENE	< 1. MCG/L
T51709 1,1,2-TRICHLOROETHANE	< 1. MCG/L
T61109 2-CHLOROETHYL VINYL ETHER	< 1. MCG/L
T42109 BROMOFORM	< 1. MCG/L
T51809 1,1,2,2-TETRACHLOROETHANE	< 1. MCG/L
T41209 TETRACHLOROETHENE	< 1. MCG/L
T40909 CHLOROBENZENE	< 1. MCG/L
T49709 1,3-DICHLOROBENZENE	< 1. MCG/L
T44109 1,2-DICHLOROBENZENE	< 1. MCG/L
T44209 1,4-DICHLOROBENZENE	< 1. MCG/L

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42 SOUTH WASHINGTON ST.
ROCHESTER, N.Y. 14608

SUBMITTED BY: ANDERSON

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Rochester Area Office

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

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Martin
Lima (7)

PAGE 1 RESULTS OF EXAMINATION FINAL REPORT

SAMPLE ID: 53530 SAMPLE RECEIVED: 85/09/26/ CHARGE: 7.00

PROGRAM: 126: HOUSEHOLD WATER SUPPLIES

SOURCE ID: DRAINAGE BASIN: 04 GAZETTEER CODE: 2556

POLITICAL SUBDIVISION: LIMA COUNTY: LIVINGSTON

LATITUDE: LONGITUDE: Z DIRECTION:

LOCATION: T LIMA

DESCRIPTION: CWKT F FESSLER 7783 MARTIN RD

REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY

TEST PATTERN: 601: PURGEABLE HALOCARBONS

SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL

TIME OF SAMPLING: 85/09/25 11:00 DATE PRINTED: 85/10/01

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-19)

PARAMETER	RESULT
T62009 CHLOROMETHANE	< 1. MCG/L
T61809 BROMOMETHANE	< 1. MCG/L
T41009 VINYL CHLORIDE	< 1. MCG/L
T70209 DICHLORODIFLUOROMETHANE	< 1. MCG/L
T61909 CHLOROETHANE	< 1. MCG/L
T61709 TRICHLOROFLUOROMETHANE	< 1. MCG/L
T23809 DICHLOROMETHANE	< 1. MCG/L
T50909 1,1-DICHLOROETHENE	< 1. MCG/L
T51909 1,1-DICHLOROETHANE	< 1. MCG/L
T61209 TRANS-1,2-DICHLOROETHENE	< 1. MCG/L
T39609 CHLOROFORM	< 1. MCG/L
T50809 1,2-DICHLOROETHANE	< 1. MCG/L
T23609 1,1,1-TRICHLOROETHANE	< 1. MCG/L
T33609 CARBON TETRACHLORIDE	< 1. MCG/L
T38909 BROMODICHLOROMETHANE	< 1. MCG/L
T61309 1,2-DICHLOROPROPANE	< 1. MCG/L
T61509 TRANS-1,3-DICHLOROPROPENE	< 1. MCG/L
T41109 TRICHLOROETHYLENE	< 1. MCG/L
T44909 DIBROMODICHLOROMETHANE	< 1. MCG/L
T61409 CIS-1,3-DICHLOROPROPENE	< 1. MCG/L
T51709 1,1,2-TRICHLOROETHANE	< 1. MCG/L
T61109 2-CHLOROETHYL VINYL ETHER	< 1. MCG/L
T43109 BROMOFORM	< 1. MCG/L
T51909 1,1,2,2-TETRACHLOROETHANE	< 1. MCG/L
T41209 TETRACHLOROETHENE	< 1. MCG/L
T40909 CHLOROBENZENE	< 1. MCG/L
T49709 1,3-DICHLOROBENZENE	< 1. MCG/L
T44109 1,2-DICHLOROBENZENE	< 1. MCG/L
T44209 1,4-DICHLOROBENZENE	< 1. MCG/L

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ROCHESTER, N.Y. 14608

SUBMITTED BY: ANDERSON

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1 RESULTS OF EXAMINATION FINAL REPORT

SAMPLE ID: 53529 SAMPLE RECEIVED: 85/09/26/ CHARGE: 7.00
PROGRAM: 126: HOUSEHOLD WATER SUPPLIES
SOURCE ID: DRAINAGE BASIN: 04 GAZETTEER CODE: 2556
POLITICAL SUBDIVISION: LIMA COUNTY: LIVINGSTON
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: T LIMA
DESCRIPTION: OUTSIDE TAP R GHOSTLAW 7608 MARTIN RD.
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: 601: PURGEABLE HALOCARBONS
SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL
TIME OF SAMPLING: 85/09/25 12:00 DATE PRINTED: 85/10/01

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)

PARAMETER	RESULT
T62009 CHLOROMETHANE	< 1. MCG/L
T61809 BROMOMETHANE	< 1. MCG/L
T41009 VINYL CHLORIDE	< 1. MCG/L
T70209 DICHLORODIFLUOROMETHANE	< 1. MCG/L
T61909 CHLOROETHANE	< 1. MCG/L
T61709 TRICHLOROFLUOROMETHANE	< 1. MCG/L
T23809 DICHLOROMETHANE	< 1. MCG/L
T50909 1,1-DICHLOROETHENE	< 1. MCG/L
T51909 1,1-DICHLOROETHANE	< 1. MCG/L
T61209 TRANS-1,2-DICHLOROETHENE	< 1. MCG/L
T39909 CHLOROFORM	< 1. MCG/L
T50809 1,2-DICHLOROETHANE	< 1. MCG/L
T23609 1,1,1-TRICHLOROETHANE	< 1. MCG/L
T38609 CARBON TETRACHLORIDE	< 1. MCG/L
T38909 BROMODICHLOROMETHANE	< 1. MCG/L
T61309 1,2-DICHLOROPROPANE	< 1. MCG/L
T61509 TRANS-1,3-DICHLOROPROPENE	< 1. MCG/L
T41109 TRICHLOROETHYLENE	< 1. MCG/L
T44909 DIBROMOCHLOROMETHANE	< 1. MCG/L
T61409 CIS-1,3-DICHLOROPROPENE	< 1. MCG/L
T51709 1,1,2-TRICHLOROETHANE	< 1. MCG/L
T61109 2-CHLOROETHYL VINYL ETHER	< 1. MCG/L
T42109 BROMOFORM	< 1. MCG/L
T51809 1,1,2,2-TETRACHLOROETHANE	< 1. MCG/L
T41209 TETRACHLOROETHENE	< 1. MCG/L
T40909 CHLOROBENZENE	< 1. MCG/L
T49709 1,3-DICHLOROBENZENE	< 1. MCG/L
T44109 1,2-DICHLOROBENZENE	< 1. MCG/L
T44209 1,4-DICHLOROBENZENE	< 1. MCG/L

**** END OF REPORT ****

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 53528 SAMPLE RECEIVED: 85/09/26/ CHARGE: 7.00
 PROGRAM: 126:HOUSEHOLD WATER SUPPLIES
 SOURCE ID: DRAINAGE BASIN:04 GAZETTEER CODE:2556
 POLITICAL SUBDIVISION:LIMA COUNTY:LIVINGSTON
 LATITUDE: LONGITUDE: Z DIRECTION:
 LOCATION: T LIMA
 DESCRIPTION:PUMP TAP W. STINSON 155 ONTARIO ST
 REPORTING LAB: TOX:LAB FOR ORGANIC ANALYTICAL CHEMISTRY
 TEST PATTERN: 601:PURGEABLE HALOCARBONS
 SAMPLE TYPE: 120:PRIVATE WATER SUPPLY - DRILLED WELL
 TIME OF SAMPLING: 85/09/25 13:00 DATE PRINTED:85/10/01

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)

PARAMETER	RESULT
T62009 CHLORDMETHANE	< 1. MCG/L
T61809 BROMOMETHANE	< 1. MCG/L
T41009 VINYL CHLORIDE	< 1. MCG/L
T70209 DICHLORODIFLUOROMETHANE	< 1. MCG/L
T61909 CHLOROETHANE	< 1. MCG/L
T61709 TRICHLOROFLUOROMETHANE	< 1. MCG/L
T23809 DICHLOROMETHANE	< 1. MCG/L
T50909 1,1-DICHLOROETHENE	< 1. MCG/L
T51909 1,1-DICHLOROETHANE	< 1. MCG/L
T61209 TRANS-1,2-DICHLOROETHENE	< 1. MCG/L
T39009 CHLOROFORM	< 1. MCG/L
T50809 1,2-DICHLOROETHANE	< 1. MCG/L
T23609 1,1,1-TRICHLOROETHANE	< 1. MCG/L
T36609 CARBON TETRACHLORIDE	< 1. MCG/L
T38909 BROMODICHLOROMETHANE	< 1. MCG/L
T61309 1,2-DICHLOROPROPANE	< 1. MCG/L
T61509 TRANS-1,3-DICHLOROPROPENE	< 1. MCG/L
T41109 TRICHLOROETHYLENE	< 1. MCG/L
T44909 DIBROMOCHLOROMETHANE	< 1. MCG/L
T61409 CIS-1,3-DICHLOROPROPENE	< 1. MCG/L
T51709 1,1,2-TRICHLOROETHANE	< 1. MCG/L
T61109 2-CHLOROETHYL VINYL ETHER	< 1. MCG/L
T42109 BROMOFORM	< 1. MCG/L
T51809 1,1,2,2-TETRACHLOROETHANE	< 1. MCG/L
T41209 TETRACHLOROETHENE	< 1. MCG/L
T40909 CHLOROBENZENE	< 1. MCG/L
T49709 1,3-DICHLOROBENZENE	< 1. MCG/L
T44109 1,2-DICHLOROBENZENE	< 1. MCG/L
T44209 1,4-DICHLOROBENZENE	< 1. MCG/L

**** END OF REPORT ****

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WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1 RESULTS OF EXAMINATION FINAL REPORT

SAMPLE ID: 53527 SAMPLE RECEIVED: 85/09/26/ CHARGE: 7.00
PROGRAM: 126:HOUSEHOLD WATER SUPPLIES
SOURCE ID: DRAINAGE BASIN:04 GAZETTEER CODE:2556
POLITICAL SUBDIVISION:LIMA COUNTY:LIVINGSTON
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: T LIMA
DESCRIPTION:CNKT R SLADE 7796 MARTIN RD.
REPORTING LAB: TOX:LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: 601:PURGEABLE HALOCARBONS
SAMPLE TYPE: 120:PRIVATE WATER SUPPLY - DRILLED WELL
TIME OF SAMPLING: 85/09/25 11:00 DATE PRINTED:85/10/01

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)

PARAMETER	RESULT
T62009 CHLOROMETHANE	< 1. MCG/L
T61609 BROMOMETHANE	< 1. MCG/L
T41009 VINYL CHLORIDE	< 1. MCG/L
T70209 DICHLORODIFLUOROMETHANE	< 1. MCG/L
T61909 CHLOROETHANE	< 1. MCG/L
T61709 TRICHLOROFLUOROMETHANE	< 1. MCG/L
T23809 DICHLOROMETHANE	< 1. MCG/L
T50909 1,1-DICHLOROETHENE	< 1. MCG/L
T51909 1,1-DICHLOROETHANE	< 1. MCG/L
T61209 TRANS-1,2-DICHLOROETHENE	< 1. MCG/L
T39009 CHLOROFORM	< 1. MCG/L
T50209 1,2-DICHLOROETHANE	< 1. MCG/L
T23609 1,1,1-TRICHLOROETHANE	< 1. MCG/L
T36609 CARBON TETRACHLORIDE	< 1. MCG/L
T38909 BROMODICHLOROMETHANE	< 1. MCG/L
T61309 1,2-DICHLOROPROPANE	< 1. MCG/L
T61509 TRANS-1,3-DICHLOROPROPENE	< 1. MCG/L
T41109 TRICHLOROETHYLENE	< 1. MCG/L
T44909 DIBROMOCHLOROMETHANE	< 1. MCG/L
T61409 CIS-1,3-DICHLOROPROPENE	< 1. MCG/L
T51709 1,1,2-TRICHLOROETHANE	< 1. MCG/L
T61109 2-CHLOROETHYL VINYL ETHER	< 1. MCG/L
T42109 BROMOFORM	< 1. MCG/L
T51809 1,1,2,2-TETRACHLOROETHANE	< 1. MCG/L
T41209 TETRACHLOROETHENE	< 1. MCG/L
T40909 CHLOROBENZENE	< 1. MCG/L
T49709 1,3-DICHLOROBENZENE	< 1. MCG/L
T44109 1,2-DICHLOROBENZENE	< 1. MCG/L
T44209 1,4-DICHLOROBENZENE	< 1. MCG/L

**** END OF REPORT ****

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1 RESULTS OF EXAMINATION FINAL REPORT

SAMPLE ID: 53526 SAMPLE RECEIVED: 85/09/26/ CHARGE: 7.00

PROGRAM: 126: HOUSEHOLD WATER SUPPLIES

SOURCE ID: DRAINAGE BASIN: 04 GAZETTEER CODE: 2556

POLITICAL SUBDIVISION: LIMA COUNTY: LIVINGSTON

LATITUDE: LONGITUDE: Z DIRECTION:

LOCATION: T LIMA

DESCRIPTION: CWKT E CHAMBERS 1091 IDESON RD.

REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY

TEST PATTERN: 601: PURGEABLE HALOCARBONS

SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL

TIME OF SAMPLING: 85/09/25 12:00 DATE PRINTED: 85/10/01

ANALYSIS: 601 PURGEABLE HALOCARBONS, FR METHOD 601 (DES 310-18)

PARAMETER	RESULT
T62009 CHLOROMETHANE	< 1. MCG/L
T61809 BROMOMETHANE	< 1. MCG/L
T41009 VINYL CHLORIDE	< 1. MCG/L
T70209 DICHLORODIFLUOROMETHANE	< 1. MCG/L
T61909 CHLOROETHANE	< 1. MCG/L
T61709 TRICHLOROFLUOROMETHANE	< 1. MCG/L
T23809 DICHLOROMETHANE	< 1. MCG/L
T50909 1,1-DICHLOROETHENE	< 1. MCG/L
T51909 1,1-DICHLOROETHANE	< 1. MCG/L
T61209 TRANS-1,2-DICHLOROETHENE	< 1. MCG/L
T39009 CHLOROFORM	< 1. MCG/L
T50609 1,2-DICHLOROETHANE	< 1. MCG/L
T23609 1,1,1-TRICHLOROETHANE	< 1. MCG/L
T36309 CARBON TETRACHLORIDE	< 1. MCG/L
T38909 BROMODICHLOROMETHANE	< 1. MCG/L
T61309 1,2-DICHLOROPROPANE	< 1. MCG/L
T61509 TRANS-1,3-DICHLOROPROPENE	< 1. MCG/L
T41109 TRICHLOROETHYLENE	< 1. MCG/L
T44909 DIBROMOCHLOROMETHANE	< 1. MCG/L
T61409 CIS-1,3-DICHLOROPROPENE	< 1. MCG/L
T51709 1,1,2-TRICHLOROETHANE	< 1. MCG/L
T61109 2-CHLOROETHYL VINYL ETHER	< 1. MCG/L
T42109 BROMOFORM	< 1. MCG/L
T51809 1,1,2,2-TETRACHLOROETHANE	< 1. MCG/L
T41209 TETRACHLOROETHENE	< 1. MCG/L
T40909 CHLOROBENZENE	< 1. MCG/L
T49709 1,3-DICHLOROBENZENE	< 1. MCG/L
T44109 1,2-DICHLOROBENZENE	< 1. MCG/L
T44209 1,4-DICHLOROBENZENE	< 1. MCG/L

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