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U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION I

RECORD OF DECISION

NUTMEG VALLEY ROAD SUPERFUND SITE
WOLCOTT, CONNECTICUT

SEPTEMBER 2004

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DECLARATION FOR THE RECORD OF DECISION

A. SITE NAME AND LOCATION

Nutmeg Valley Road Superfund Site
Wolcott, Connecticut
EPA ID# CTD980669261

B. STATEMENT OF BASIS AND PURPOSE

This decision document presents the selected **No Further Action** decision for the Nutmeg Valley Road Superfund Site (the "Site"), in Wolcott, CT, which was chosen in accordance with the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), 42 USC § 9601 et seq., as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA), and, to the extent practicable, the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 CFR Part 300 et seq., as amended. The Director of the Office of Site Remediation and Restoration (OSRR) has been delegated the authority to approve this Record of Decision (ROD).

This decision was based on the Administrative Record, which has been developed in accordance with Section 113 (k) of CERCLA, and is available for review at the Wolcott Public Library in Wolcott, Connecticut, and at the United States Environmental Protection Agency (EPA) Region 1 OSRR Records Center in Boston, Massachusetts. The Administrative Record Index (Appendix F to this ROD) identifies each of the items comprising the Administrative Record upon which the selection of the remedial action is based.

The State of Connecticut concurs with the selected remedy.

C. DESCRIPTION OF THE SELECTED REMEDY

EPA has made the determination that no further remedial action under CERCLA is necessary for this Site.

D. STATUTORY DETERMINATIONS

EPA has made the determination that conditions at the Site do not present an unacceptable risk to human health and the environment now or in the future and is, therefore, protective of human health and the environment. This determination is based upon state and local requirements currently in place that prevent human exposure to site-related contaminants, thereby eliminating the need to conduct further remedial action. Because this no action determination relies in part upon existing laws already in place, EPA will review the protectiveness of this determination every five years pursuant to 40 U.S.C. § 9621(c) of CERCLA. This review will be limited in scope to evaluating whether or not these legal

mechanisms (or similar requirements) currently in place remain in place, and whether or not these mechanisms function sufficiently to prevent human exposure to contaminated groundwater.

E. AUTHORIZING SIGNATURE

This ROD documents the selected remedy for the Nutmeg Valley Road Superfund Site. This remedy was selected by EPA with concurrence of the Connecticut Department of Environmental Protection (CT DEP).

Concur and recommended for immediate implementation:

U.S. Environmental Protection Agency

By: Susan Studlien Date: 09/28/04
Susan Studlien, Director
Office of Site Remediation and Restoration
U.S. Environmental Protection Agency, Region 1

A. SITE NAME, LOCATION AND BRIEF DESCRIPTION

The Nutmeg Valley Road Superfund Site is located in west-central Connecticut near the Wolcott/Waterbury town line, in New Haven County, Connecticut (Figure 1). Groundwater contaminated with volatile organic compounds (VOCs) and inorganic constituents led to the Site being placed on the National Priorities List (NPL) in March 1989. The size of the study area has changed over time, but the remedial investigation focused on a 28-acre area bounded by Wolcott Road (Route 69) to the northwest, Old Tannery Brook to the east, and its unnamed tributary to the south (Figure 2). The Site and surrounding area is rural with mixed commercial, industrial and residential use. A dozen small manufacturing facilities, light industrial facilities and repair shops are separated by wooded lots. Public water is available to everyone on site, however, a handful of residential properties along Wolcott Road, which are upgradient of the industrial park, continue to rely on private wells for domestic use. Public water is currently not available to a residential neighborhood located just east and upgradient of the Site, along the Tosun Road loop. The Waterbury sanitary landfill (North End Disposal Area) is located approximately ½ mile northwest of the Site.

B. SITE HISTORY AND ENFORCEMENT ACTIVITIES

1. History of Site Activities

Industrial use of the area began in the late 1940's. Historical information indicates that years of on-site disposal, spills and leaks of chemical waste including solvents, paints, cyanide, heavy metals and oil at industrial and commercial properties has occurred. Aerial photographs show historical surface impoundments, stained surface soils and scrap metal debris.

2. History of Federal and State Investigations and Removal and Remedial Actions

In response to the discovery of VOCs in several private wells and a hazardous waste inventory conducted by the CT DEP, an investigation into the nature, extent and probable source(s) of groundwater contamination in Wolcott and surrounding areas was conducted by state and local officials from 1979 to 1981. This investigation identified additional contaminated private wells and numerous potential sources of groundwater contamination. Below is a brief chronology of federal and state actions taken as a result of the initial investigation.

- In 1984 and 1985, the Chesprocott Health District received preventative health block grants from the State of Connecticut for a comprehensive water supply testing program. This sampling delineated the extent of contamination in private water supplies.

- In 1986, the Town of Wolcott extended the Waterbury public water line. Some domestic and industrial use of the groundwater continued.

- EPA conducted site inspections and in January 1987, proposed the Site for the NPL. The Site was listed on the NPL in March 1989. Metal-working and machine shops on Nutmeg Valley Road with a known history of dumping waste oil and solvents onto the ground (Nutmeg Screw and Waterbury Heat Treating) were the focus of early investigations. EPA later expanded the study area to 155 acres to include similar businesses on Swiss Lane, Tosun Road, Wolcott Road, and Town Line Road that were also seen as potential sources of groundwater contamination.

- In 1991, 1995 and 1998, EPA and the Chesprocott Health District sampled the remaining private wells. Although contaminants were detected, none exceeded safe drinking water standards.

- In 1992, EPA conducted an emergency removal at the PAR Finishing facility on Tosun Road. Approximately 1,150 tons of sludge waste and contaminated soil were removed from two unlined lagoons and shipped to a disposal facility in Michigan. This action addressed the threats posed by the electroplating wastes in surface soils, and removed a potential source of groundwater contamination.

- In 1995 and 1998, the U.S. Geological Survey (USGS) performed regional groundwater studies in the expanded 155-acre study area. In comparing the findings of the two studies, the USGS concluded that: a) although VOCs, metals and cyanide were found in the groundwater, the distribution was scattered and there was no evidence of a wide-spread plume of contamination; and b) the levels of contaminants in much of the study area were decreasing over time through natural degradation processes.

- In 1999, using data collected by the USGS, EPA screened the area for human-health and ecological risk. EPA concluded that additional samples were needed to properly assess risk, however, the focus could be limited to the area of interest when the Site was listed on the NPL in 1989. Based on the findings of the USGS studies and EPA sampling, the study area was reduced to its current 28-acre configuration.

- From 2000 to 2002, EPA collected samples from groundwater, soil, surface water and the sediment in streams and wetlands, and performed human-health and ecological risk assessments. The overburden aquifer was found to be contaminated.

- In April 2004, the Town of Wolcott adopted an ordinance that prohibits all uses of groundwater within a 25-acre area called the ICZ (Figure 2). The ICZ includes all parcels with contaminated groundwater.

- In June 2004, the CT DEP made the determination that the contaminated aquifer in the ICZ is of "low use and value". As a result of this determination by CT DEP, and with the concurrence of CT DEP, EPA no longer considers restoration of the aquifer to drinking water quality to be an objective of the cleanup program at this Site.

- In July 2004, EPA proposed "no further action" under CERCLA.

3. History of CERCLA Enforcement Activities

EPA has not issued notice letters to any Potentially Responsible Party for this Site. All work is being done by EPA as a fund-lead site.

C. COMMUNITY PARTICIPATION

Throughout the Site's history, community concern has been high. Initially, their concern was focused on the impact contaminants from the Site may have on private wells. After public water was made available, the community became more concerned with the economic impacts of the Superfund "label". Residents and their elected officials have stated at public meetings that they are looking forward to the resolution that a ROD brings, and the ultimate delisting of the Site. EPA has kept the community and other interested parties apprised of site activities through public meetings, fact sheets, and press releases. Below is a brief chronology of public outreach efforts.

- In March 1996, EPA published the first fact sheet on the history of the Nutmeg Valley Road Superfund Site.

- In August 1997, EPA staff canvassed the residential neighborhood along Tosun Road and conducted community interviews with approximately eight residents to assess their concerns and expectations about the Site and their water supply, familiarity with the Superfund process, and the types of public information and outreach that would be suitable to inform the community.

- In March 1998, EPA, CT DEP and USGS met with Mayor Steven Bosco and his staff to discuss upcoming USGS activities and plans for two public meetings - the first to focus on residential issues, the second to focus on business issues.

- In April 1998, a public meeting, attended by twelve people, was held to provide residents with an overview of the Superfund law, update of past activities, plans for field sampling during the summer of 1998, and expectations for future investigations.

- In June 1998, a public meeting, attended by thirty people, was held for commercial property owners and operators to provide participants with an understanding of the Superfund enforcement process, an update of past activities, and information about ongoing field sampling and groundwater studies.

- In December 1998, EPA published a second fact sheet to provide an update on the past year's activities at the Site.

- In June 1999, EPA published a third fact sheet and held a public meeting to review the results of the USGS' 1998 field activities. Additional EPA fact sheets entitled *EPA Policy Towards Owners of Residential Property* and *Superfund Today: Focus on Property Issues* were distributed at the meeting.

- In July 2000, EPA published a fourth fact sheet to update the community on progress at the Site, and met with Mayor Michael DeNegris to discuss the need for additional environmental sampling to support human-health and ecological risk assessments.

- On March 25, 2004, EPA held an informational meeting in Wolcott, CT, to discuss the results of the Remedial Investigation and risk assessments.

- On July 2, 2004, EPA made available for public review the Administrative Record, including the Proposed Plan, at EPA's offices in Boston and at the Wolcott Public Library, 469 Boundline Road, Wolcott, CT. The Wolcott library is the primary local information repository for residents and will be kept up-to-date by EPA.

- On June 30 and July 2, 2004, EPA published a notice in the Waterbury Republican-American announcing the Proposed Plan and an informational meeting. EPA also mailed a copy of the plan to the 205 individuals and businesses on our mailing list.

- On July 8, 2004, EPA held an informational meeting to discuss the results of the Remedial Investigation and to present the Agency's Proposed Plan to a broader community audience than those that had already been involved at the Site. At this meeting, representatives from EPA and CT DEP answered questions from the public.

- From July 9 to August 9, 2004, EPA held a 30-day public comment period to accept public comment on the No Further Action Proposed Plan and on any other documents previously released to the public.

- On July 23 and July 30, 2004, EPA published a notice in the Waterbury Republican-American announcing a public hearing on the Proposed Plan.

- On August 5, 2004, EPA held a public hearing to discuss the Proposed Plan and to accept oral comments. A transcript of this meeting and the Agency's response to comments are included in the Responsiveness Summary, which is Appendix E of this ROD.

D. SCOPE AND ROLE OF NO ACTION REMEDY

This ROD reflects EPA's determination that no further action under CERCLA is required at the Nutmeg Valley Road Superfund Site. The levels of organic compounds and metals that were detected in the soil, sediment and surface water do not appear to pose an unacceptable risk

to human health. EPA did identify a potential non-carcinogenic health risk from the *future* use of groundwater as drinking water based upon high levels of manganese detected in groundwater. However, EPA believes that the existing Connecticut Public Health Code (Section 19-12-B51m), which prevents the future installation of private wells on parcels that are within 200 feet of a public water supply, and the newly-enacted Town of Wolcott Groundwater Ordinance #87 (Appendix G), which prohibits the use of groundwater in the ICZ, when considered together will provide a sufficient safeguard to ensure that human exposure to contaminated groundwater is prevented in the future. Furthermore, with passage of this groundwater ordinance, CT DEP revised the rating of the groundwater in the study area to "low use and value". Because the State and EPA both agree that the aquifer in the ICZ has "low use and value", EPA no longer considers drinking water standards to be appropriate for determining cleanup goals at this Site. EPA will periodically review whether this no action determination remains protective in the future.

With respect to the environment, EPA found that ecological risks in the study area were the same as, or less than, the risks found in upstream locations. This indicates that whatever contamination was detected at the Site is due to upstream influences and/or activity that is not attributable to the Site.

EPA's determination that no further action is necessary under CERCLA has no bearing on the obligation of property owners on the Site to comply with applicable state law, such as Connecticut's Property Transfer Law. State remediation standards may differ from EPA's, and remediation may be necessary in order to meet state requirements.

E. SITE CHARACTERISTICS

1. Conceptual Site Model

The sources of contamination, release mechanisms, exposure pathways to receptors for the groundwater, surface water, air, soil and sediment, as well other site-specific factors, are considered when developing a Conceptual Site Model (CSM). The CSM is a three-dimensional "picture" of site conditions that documents current and potential future site conditions and shows what is known about human and environmental exposure through contaminant release and migration to potential receptors. The risk assessments and remedial decision are both based on this CSM.

Solvent waste (e.g., carbon tetrachloride) and cutting oils dumped on the ground from at least one metal-working and machine shop on Nutmeg Valley Road were identified as a potential source of groundwater contamination for the NPL listing in 1989. Later, the study area was expanded to encompass industrial/commercial facilities along Wakelee Road, Swiss Lane, Venus Drive, Tosun Road and Wolcott Road (Route 69) that used similar chemical and manufacturing processes and were also viewed as potential sources of groundwater contamination. When regional groundwater studies conducted by the USGS concluded that there was no wide-spread plume, EPA reduced the study area and focused on the environmental media most likely to be

under the influence of the contaminants originating from the known dumping locations on Nutmeg Valley Road. In addition to groundwater, the environmental media of concern were identified as soil, surface water and sediments in streams and wetlands.

Based on current and anticipated future land use conditions, several receptor groups were defined for the human-health risk assessment. These receptors and their potential routes of exposure are as follows:

- Commercial workers - Employees who may be exposed to soils (including inhalation) and ingest groundwater at their place of business.
- Construction workers - Excavation workers who may be exposed to soils (including inhalation) during excavation work.
- Residents - Adults and children who reside at properties located in the vicinity of the study area and who may use groundwater for domestic purposes such as drinking and showering or bathing.
- Trespassers - Adolescents who may occasionally visit the surface water bodies within the study area.

For the ecological risk assessment, the ecological receptors were identified as wetland and aquatic plants, fish and sediment-dwelling (benthic) invertebrates that live in Old Tannery Brook, its unnamed tributary and/or their associated wetlands.

The human-health and ecological risk assessments are discussed more fully in Section G.

2. Overview of Nutmeg Valley Road Study Area

The study area is a 28-acre area bounded by Wolcott Road (Route 69) to the northwest, Old Tannery Brook to the east, and its unnamed tributary to the south. It lies within the small river basin of the Mad River. Moderately-sloped valley walls to the north and northwest generally slope to the southeast and become more gradual at the valley floor along the Mad River. Much of the interior portion of the Site is located on kame terrace deposits, composed principally of sand and gravel. The kame terrace slopes steeply towards the two on-site streams (Old Tannery Brook and its unnamed tributary) that flow along the terrace base. Flood plain deposits of alluvial silts and sand containing organic material abut the kame terrace.

Surface water flows towards the Site from the north and northwest to Old Tannery Brook and its unnamed tributary, and eventually exits the Site flowing south to the Mad River. Groundwater flow in the overburden aquifer is southeast towards the confluence of Old Tannery Brook and its unnamed tributary. Depth to bedrock is 10 to 25 feet in the northwest portion of the Site and thickens to 75 feet at the Mad River. The bedrock is Taine Mountain Formation,

consisting of a well-foliated gneiss, granofels, and local pegmatite sills. Groundwater flow in the bedrock has a more southerly component than the overburden, in the direction of Mad River.

The commercially-developed parcels in the study area are interspersed with wooded lots. Past and present human disturbances (filling, soil removal, roadways, building construction, etc.) have altered the study area, offering minimal wildlife habitat. A palustrine wetland system consisting of a mixture of forested, scrub/shrub and emergent wetlands is associated with the two on-site streams. The wetlands are relatively less disturbed, and their proximity to the upland edge habitat provide foraging, cover and breeding areas for a variety of birds, mammals, fish, reptiles and amphibians. No known federal or state endangered, threatened or special concern species were identified at the Site.

3. Groundwater

In 1995 and 1998, the USGS performed regional groundwater studies. VOCs, metals and cyanide were detected in the groundwater, however, only VOCs at three locations were found to exceed federal safe drinking water standards. In comparing the findings from these two studies, the USGS concluded that: a) the distribution of the contamination was not indicative of a wide-spread plume of contamination in the study area: and b) the levels of contaminants in much of the study area were decreasing over time through natural degradation processes. A small plume of groundwater contamination was found in the overburden and bedrock aquifers at the southern edge of the study area. This plume is being addressed by the Highland Manufacturing Company under Connecticut's property transfer program. Contamination was also found in study area wells that are upgradient of the Site, but downgradient of the landfill in Waterbury. Under the terms of a consent order with the State of Connecticut, the City of Waterbury is required to monitor for and address groundwater contamination that is associated with the landfill.

Based on the findings of the USGS studies, the contamination in the study area appeared to be limited in size and scope. The USGS studies were not designed for the purpose of assessing risk, however, and additional data was needed in order to perform baseline human-health and ecological risk assessments for the Site.

From 2000 to 2002, EPA collected groundwater samples in the study area from both the overburden and bedrock aquifers. Samples were taken from eleven monitoring wells and two business water supply wells on three separate occasions. Samples were also taken from ten monitoring wells in up- and cross-gradient locations to determine the background conditions for this area. All the samples were analyzed for the presence of VOCs, semi-volatile organic compounds (SVOCs), pesticides, polychlorinated biphenyls (PCBs), metals and cyanide.

Samples taken from background (up- and cross-gradient) wells indicated elevated levels of the following metals - aluminum, iron, manganese, chromium and nickel. None of the other analytes (VOCs, SVOCs, PCBs, and cyanide) were found in significant concentrations in background locations. Samples taken from within the study area were found to have low levels

of VOCs and pesticides. A variety of metals and cyanide were found to be present in study area groundwater, with only iron and manganese detected at higher levels. The manganese was found to present a future human-health risk; the iron does not (see Section G).

Because the bedrock in this area is naturally rich in manganese, EPA considered the possibility that the elevated levels of manganese may be indicative of natural conditions. However, a comparison of the data shows that concentrations of manganese inside the study area (208 to 2250 parts per billion) are roughly three times higher than background concentrations (88 to 839 parts per billion). The disposal of waste oils and solvents on the ground surface can create a condition in the subsurface that strips manganese and other metals from underlying rock, which allows them to enter the groundwater. These factors suggest that the presence of manganese in high concentrations can be tied to industrial activities within the study area. The sampling locations are shown on Figure 3.

4. Soil

In 1992, EPA conducted an emergency removal at PAR Finishing, an electroplater on Tosun Road. Approximately 1,150 tons of waste sludge and contaminated soil were removed from two unlined lagoons and shipped to a disposal facility in Michigan. After the removal, the soil investigation in 2000 focused on two properties on Nutmeg Valley Road, where there was a known history of dumping solvent waste and cutting oils on the ground. A total of twenty surface samples (depth of 0 to 1 foot) and forty subsurface samples (depth of 1 to 10 feet) were taken at these locations. Surface and subsurface soil background samples were taken from a parcel immediately across Wolcott Road, outside of the study area. All samples were analyzed for the presence of VOCs, SVOCs, pesticides, PCBs, metals and cyanide.

A broad range of low levels of VOCs, SVOCs, pesticides, PCBs, and metals were detected in background surface and subsurface locations, as was cyanide. In the study area, isolated occurrences of polynuclear aromatic hydrocarbons (PAHs) and other SVOCs, and four metals (arsenic, copper, lead and zinc) were found at elevated levels. However, the analytical results show no obvious distribution pattern or clustering of contamination on the two properties that is indicative of a major source of contamination. Rather, the distribution closely resembled patterns found at background locations and is more likely the result of vehicle maintenance and/or small spills of material that are not uncommon in an industrialized area. EPA concluded that these conditions do not pose an unacceptable health risk. In some instances, however, the concentrations do exceed state standards and may require additional cleanup under Connecticut's Property Transfer Law. Because this ROD requires no action, an analysis of applicable or relevant and appropriate requirements (ARARs) is not triggered for this Site.

5. Surface Water and Sediment

Surface water and sediment samples were taken from Old Tannery Brook, its unnamed tributary and their associated wetlands. Six surface water and eight sediment samples were taken

from locations upstream of the study area. Eight surface water and eleven sediment samples were taken from within the study area. One surface water and one sediment sample were taken from a location downstream of the study area. All samples were analyzed for the presence of VOCs, SVOCs, pesticides, PCBs, metals and cyanide.

A broad range of VOCs at low levels were detected in surface water in upstream, downstream and study area sampling locations. Elevated levels of phthalates were detected at one study area location and the downstream location. Elevated levels of metals were found in surface water in upstream, downstream and study area locations. In addition, elevated levels of VOCs, SVOCs, pesticides, PCBs and metals were found in sediment in upstream, downstream and study area locations.

The contaminants found in sediment and surface water do not pose a threat to human health at the concentrations detected. They do, however, pose an ecological risk that ranges from negligible to low or moderate, depending on the contaminant. Because the type and level of contamination upstream, downstream and in the study area are relatively the same, the Site does not appear to be a significant source of contamination. Instead, it appears that this is an area of wide-spread historical contamination, not limited to a particular source or site. As such, EPA does not believe it is appropriate to address this ecological risk under the Superfund program.

F. CURRENT AND POTENTIAL FUTURE SITE AND RESOURCE USES

The current land use of the Site is industrial and commercial with some residential use along the northwestern boundary (Wolcott Road). Land use in adjacent and surrounding areas in close proximity to the Site is currently industrial and commercial with more residential use than on the Site. The reasonably-anticipated future use of the Site will continue to be mostly industrial, commercial and limited residential. Current Mayor Thomas Dunn has publically stated his commitment to revitalizing the Site with the expectation that it will stimulate industrial growth in the area, and increase the revenue base for the Town of Wolcott. According to statements made by facility owners at public meetings, the Superfund designation has made it difficult for them to secure loans for maintenance and improvements. Others, unable to sell their businesses, have abandoned their buildings which are beginning to show signs of wear. Some properties are littered with debris. Revitalization efforts include major improvements to infrastructure (e.g., streets, guardrails, etc) and housekeeping (e.g., one-time pickup of debris on the properties, free paint).

There are no permitted uses of groundwater in most of the Site. A local groundwater ordinance, effective May 6, 2004, prohibits all uses of groundwater within an area called the Institutional Control Zone (ICZ). All the parcels on the Site where elevated levels of manganese were identified are within the ICZ. The ordinance requires all affected landowners to tie into the public water supply system, and, provide certification that all production wells have been formally abandoned. In June 2004, the State of Connecticut revised the rating of the groundwater in the ICZ to "low use and value". Furthermore, Connecticut Public Health Code

(section 19-13-B51m) prevents private wells in the future from being located on parcels that are within 200 feet of a public water supply. All parcels in the ICZ are within 200 feet of an existing public water supply line.

Groundwater is currently used for domestic purposes by the handful of residents located along Wolcott Road. These properties are not affected by the local groundwater ordinance nor are they affected by downgradient groundwater contamination from the Site, and the expectation is that they will continue to use their wells for the foreseeable future for drinking water. The public water supply line does run directly in front of their properties, so the opportunity to tie into public water is available.

The current use of the surface water on site appears to be very limited. Old Tannery Brook and its unnamed tributary are overgrown, slow moving, and generally uninviting. For purposes of the human-health risk assessment, the only potential exposure was assumed to be the occasional adolescent trespasser.

G. SUMMARY OF SITE RISKS

A baseline risk assessment was performed to estimate the probability and magnitude of potential adverse human-health and environmental effects from exposure to contaminants associated with the Site, assuming no remedial action was taken. It provides the basis for the remedy selected by EPA. A summary of the human-health risk assessment is discussed below, followed by a summary of the environmental risk assessment.

1. Human-Health Risk

The human-health risk assessment (HHRA) followed a four-step process: 1) hazard identification, which identified those hazardous substances that, given the specifics of the Site, were of significant concern; 2) exposure assessment, which identified actual or potential exposure pathways, characterized the potentially-exposed populations, and determined the extent of possible exposure; 3) toxicity assessment, which considered the types and magnitude of adverse health effects associated with exposure to hazardous substances; and 4) risk characterization and uncertainty analysis, which integrated Steps 1-3 to identify the potential and actual carcinogenic and non-carcinogenic risks posed by hazardous substances at the Site, and the uncertainty in the risk estimates.

Thirteen of the more than seventy chemicals detected at the Nutmeg Valley Road Site were selected for evaluation in the HHRA as chemicals of *potential* concern (COPC). The COPCs were identified as potential site-related hazards based on toxicity, concentration, frequency of detection, and mobility and persistence in the environment. Potential human-health effects associated with exposure to the COPCs were estimated quantitatively or qualitatively through the development of several hypothetical exposure pathways. These pathways were developed to reflect the potential for exposure to hazardous substances based on the present uses, potential

future uses, and location of the Site. The Nutmeg Valley Road Site is expected to remain industrial/commercial, with nearby residential. Therefore, the exposed populations were assumed to be commercial/construction workers, residents, and adolescent trespassers. Exposure pathways evaluated were direct contact to soil (including inhalation), sediment, groundwater and surface water.

Of the COPCs identified for Nutmeg Valley Road, only one - manganese in groundwater- was found to present a significant potential hazard, if the groundwater is used as drinking water. The frequency and concentrations of manganese, which is the only COPC upgraded to a chemical of concern (COC), are summarized in Table 1. This table also contains the exposure point concentrations used to evaluate the reasonable maximum exposure scenario (RME) in the baseline risk assessment for the COC.

Table 1
Summary of Chemicals of Concern and Medium-Specific Exposure Point Concentrations

Scenario Timeframe: Current/Future
Medium: Groundwater
Exposure Medium: Groundwater

Exposure Point	Chemical of Concern	Concentration Detected		Units	Frequency of Detection	Exposure Point Concentration	Exposure Point Concentration Units	Statistical Measure
		Min	Max					
Drinking water from wells	Manganese	7.7	2250J	ppb	32/53 (unfiltered samples)	1880	ppb	Highest temporal average of 3 rounds

Key

ppb: parts per billion
J: quantitation approximate

Language Describing Summary of Chemicals of Concern and Medium-Specific Exposure Point Concentrations

The table presents the chemicals of concern (COCs) and exposure point concentration for each of the COCs detected in groundwater (*i.e.*, the concentration that will be used to estimate the exposure and risk from each COC in the groundwater). The table includes the range of concentrations detected for each COC, as well as the frequency of detection (i.e., the number of times the chemical was detected in unfiltered samples collected at the Site), the exposure point concentration (EPC), and how the EPC was derived.

Assessment of Carcinogenic Risk Based on the RME, the excess lifetime cancer risk - the additional risk of developing cancer on top of that which we all face from other causes such as cigarette smoke or exposure to the sun's ultraviolet radiation - from drinking groundwater from either the overburden or bedrock aquifers are within or below EPA's generally acceptable risk range of 10^{-4} to 10^{-6}, or one in ten thousand to one in a million. In other words, there were no unacceptable risks of cancer from site-related contaminants.

Assessment of Non-carcinogenic Risk In assessing the potential for adverse effects other than cancer, a hazard quotient (HQ) is calculated by dividing the daily intake level by the reference dose (RfD) or other suitable benchmark. Developed by EPA, RfDs represent a level to which an individual may be exposed that is not expected to result in any deleterious effect. RfDs are derived from epidemiological or animal studies and incorporate uncertainty factors to help ensure that adverse health effects will not occur. RfDs for manganese are summarized in Table 2. An HQ $\leq$ 1 (less than or equal to one) indicates that a receptor's dose of a single contaminant is less than the RfD, and that toxic non-carcinogenic effects from that chemical are unlikely. The Hazard Index (HI) is generated by adding the HQs for all chemical(s) of concern that affect the same target organ (e.g. liver) within or across those media to which the same individual may reasonably be exposed. An HI $\leq$ 1 indicates that toxic non-carcinogenic effects are unlikely. At the Nutmeg Valley Road Site, manganese in groundwater was the only contaminant calculated to have an HI greater than 1, in this case an HI = 2.43 (see Table 3). Manganese is a naturally-occurring mineral. Low levels of manganese are essential to a healthy diet. High levels, however, can negatively impact the central nervous system, especially in children.

The discussion of risk in this section of the ROD is limited to manganese in groundwater, the only COC and exposure pathway deemed relevant to the remedy. For a more complete discussion of all the COPCs at the Site, exposure pathways and estimates of central tendency risk, readers are referred to the Human-Health Risk Assessment Report (Tetra Tech NUS, Inc, February 2002 with March 2002 modifications).

Table 2
Non-Cancer Toxicity Data Summary

Pathway: Ingestion of Groundwater

Chemical of Concern	Chronic/ Subchronic	Oral RfD Value	Oral RfD Units	Primary Target Organ	Combined Uncertainty/ Modifying Factors	Sources of RfD: Target Organ	Dates of RfD: Target Organ
Manganese	Chronic	2.4×10^{-2}	mg/kg-day	Central Nervous System	3	IRIS and EPA Region 1	1996

Key

IRIS: Integrated Risk Information System, EPA
EPA Region 1: Risk Update #4, 1996

Language Describing Summary of Toxicity Assessment

This table provides non-carcinogenic risk information which is relevant to the contaminant of concern in groundwater. Manganese has toxicity data that indicates its potential for adverse non-carcinogenic health effects in humans. The chronic toxicity data available for manganese has been used to develop an oral oral reference dose (RfD). The oral RfD for manganese is 2.4×10^{-2} mg/kg/day. The available toxicity data indicates that prolonged exposure to elevated concentrations of manganese can elicit a variety of serious toxic responses. The central nervous system is the primary target. Initial symptoms are headache, insomnia, disorientation, anxiety, lethargy, and memory loss. These symptoms progress with continued exposure and eventually include motor disturbances, tremors, and difficulty in walking.

Table 3

Risk Characterization Summary - Non-Carcinogen

Scenario Timeframe: Current/Future
Receptor Population: Residents
Receptor Age: Adult/Child

Medium	Exposure Medium	Exposure Point	Chemical of Concern	Primary Target Organ	Non-Carcinogenic Hazard Quotient			
					Ingestion	Inhalation	Dermal	Exposure Routes Total
Ground Water	Ground Water	Drinking water from Overburden Wells	Manganese	Central Nervous System	2.15 E+00	N/A	2.80E-01	2.43E+00
							Ground-Water Hazard Index (HI) Total =	2.43

Key

N/A: Route of exposure is not applicable to this medium.

Language Describing Risk Characterization

This table provides hazard quotients (HQs) for each route of exposure and the hazard index (sum of hazard quotients) for all routes of exposure. The Risk Assessment Guidance for Superfund states that, generally, a hazard index (HI) greater than 1 indicates the potential for adverse non-cancer effects. The estimated HI of 2.43 indicates that the potential for adverse non-cancer effects could occur from exposure to contaminated groundwater containing manganese.

Table 4
Summary of Human-Health Risks Based on 2002 Risk Assessment

Environmental Medium	Exposure Assumptions	Risk
groundwater	commercial and construction workers, and nearby residents or future on-site residents, will use well water for drinking and bathing	non-carcinogenic hazard potential for manganese identified
soil	adult commercial and construction workers will touch and ingest or inhale soil	acceptable
surface water	adolescent trespassers (ages 7 to 17) will wade in the streams and wetlands on site	acceptable
stream and wetland sediment	adolescent trespassers (ages 7 to 17) will touch or ingest sediment	acceptable
air	adult commercial and construction workers will breathe in dust	acceptable

Reassessment of Human-Health Risk As stated in the preceding paragraphs, the 2002 HHRA identified a potential non-carcinogenic hazard from manganese in groundwater, were it to be used for drinking water purposes. Human-health risk was re-evaluated in Spring 2004, when the Wolcott Town Council adopted the ordinance restricting the use of groundwater in the study area. The ordinance significantly changes the exposure assumptions for ingestion of groundwater. The risk assessment had assumed ingestion to be 2 liters of groundwater a day, 350 days of the year, for 30 years. With the ordinance in place, no one is expected to consume contaminated groundwater, and the risk formerly associated with this exposure pathway is no longer relevant.

Table 5
Ecological Exposure Summary

Exposure Medium	Exposure Mechanism	Potentially-Impacted Receptors
Sediment	Direct contact	* wetland and aquatic plants * fish * benthic invertebrates
	Ingestion of sediment	* fish * benthic invertebrates
	Ingestion of prey	* fish * benthic invertebrates
Surface water	Direct contact	* wetland and aquatic plants * fish *benthic invertebrates
	Ingestion	* fish * benthic invertebrates

2. Ecological Risk

An Ecological Risk Assessment (ERA) was conducted to evaluate whether significant adverse impacts to the natural community may have occurred from exposure to hazardous substances migrating from the Site, or if there may be significant risk of adverse impacts in the future. A detailed description of the ERA can be found in the Ecological Risk Assessment Report (Tetra Tech NUS, Inc, November 2001).

The ecosystems potentially at risk from the contaminants found on site are Old Tannery Brook, its unnamed tributary and their associated wetlands. The environmental media of concern are surface water and sediment. Sediment-dwelling (benthic) invertebrates, fish, plants, and

suspended organisms like algae are directly exposed to contaminants. The food chain pathway for fish and benthic invertebrates was also considered because bioaccumulating chemicals were found during the remedial investigation. Although the streams may support populations of fish, the small sizes and low flow rates of the streams make it unlikely that fish other than minnow-sized species would be abundant. Also, the reaches of these streams in the study area are relatively small. These characteristics preclude the need to consider the potential risk to fish-eating wildlife, such as mink or kingfishers. The exposure pathways, potential receptors and their exposure mechanisms are summarized in Table 5.

The first step in the ERA process was to develop screening-level exposure estimates, or exposure concentrations, for each COPC found in surface water and sediment samples. The most conservative exposure concentration used was the maximum value observed in a particular medium. If use of the maximum resulted in a finding of negligible risk, then that contaminant-medium combination was eliminated from further evaluation. If the risk was not negligible, then a mean exposure concentration was considered. Means were calculated in two ways. The detected values were averaged for one estimate of the mean. For values reported as not detected, their detection limits were divided by two, and all the data were used in the calculation. The two means were compared and the lower was used in the risk assessment. Exposure concentrations of bioaccumulating COPCs in fish were estimated using mean and maximum concentrations in sediment, together with Biota Sediment Accumulation Factors (BSAFs). BSAFs for organic chemicals were obtained from EPA references (EPA, *The Incidence and Severity of Sediment Contamination in Surface Waters of the United States, Volume 1: National Sediment Quality Survey*, 1997). BSAFs and regression equations for metals were found in Oak Ridge National Laboratory literature (ORNL, *Biota Sediment Accumulation Factors for Invertebrates: Review and Recommendations for the Oak Ridge Reservation*, 1998).

The second step in the ERA process was to characterize the risk. This was done by comparing the exposure concentrations to state and federal criteria, standards and guidelines to attain an HQ. Because both means and maximums were used for exposure estimates, both mean and maximum HQs were calculated for every combination of COPC and applicable medium. HQs were summed for each chemical group to generate an HI. The data, summarized in Table 6, suggest that plants and animals in upstream, study area and downstream locations may be negatively impacted by contamination. A review of the data presented in Table 6 also indicates that much of the contamination detected at the Site is also present at upstream locations, in most instances at higher concentrations than that found on site or at downstream locations. No contamination was found on site that presented a high risk to ecological receptors. Where contamination was found at higher levels on site than at upstream locations, the on-site levels presented a low level of risk.

Table 6
Ecological Risk Summary

Location	Medium	VOCs	PAHs	Phthalates	Pesticides	PCBs	Metals
Upstream (combined)	surface water	-	-	-	-	-	++
	sediment	+	+++	+	++	-	+
	fish tissue	NB	++	NB	-	-	++
Study Area	surface water	na	-	+	-	-	++
	sediment	+	++	+	++	+	+
	fish tissue	NB	+	NB	-	-	++
Downstream	surface water	-	-	++	-	-	+
	sediment	+	++	-	+	-	+
	fish tissue	NB	+	NB	-	-	+

Key
- : acceptable, or negligible, risk ($HI_{mean} < 1$)
+ : low risk ($1 \leq HI_{mean} < 10$)
++ : moderate risk ($10 \leq HI_{mean} < 100$)
+++ : high risk ($HI_{mean} \geq 100$)
na : no benchmarks available for detected chemicals
NB : not a bioaccumulating chemical group

3. Basis for No Further Response Action

The baseline HHRA conducted in 2002 revealed that high concentrations of manganese found in the groundwater at several locations in the study area pose a potential health hazard for those who may rely on the groundwater for drinking water in the future. EPA believes, however, that existing laws, Connecticut Public Health Code (Section 19-12-B51m) and Town of Wolcott Groundwater Ordinance #87, and the CT DEP determination that the groundwater is of "low use and value", when considered together, are adequate and will provide a sufficient safeguard to ensure that human exposure to contaminated groundwater is prevented in the future. Because this no action determination relies in part upon existing laws currently in place, EPA will review the protectiveness of this determination every five years pursuant to 40 U.S.C. § 9621(c) of CERCLA. This review will be limited in scope to evaluating whether or not these legal mechanisms (or similar requirements) currently in place remain in place, and whether or not these mechanisms function sufficiently to prevent human exposure to groundwater in the ICZ. Should this review indicate that exposure is occurring, then EPA may take additional action to determine if such exposure presents an unacceptable risk.

In the case of the ERA, past industrial activities at the Nutmeg Valley Road Superfund Site do not appear to contribute significantly to ecological risk. Aquatic plants and animals (e.g., fish, crayfish and insects) that live in Old Tannery Brook, its unnamed tributary and their associated wetlands may be negatively impacted by contamination. However, at all but two sampling locations, the ecological risks in the study area were found to be the same as, or less than, the risks found in upstream locations. This indicates that the contamination is wide-spread and that the Superfund Site is not a significant source. Other possible sources of the contamination both upstream and within the study area are run-off from roads, parking lots and lawns treated with chemicals. Sources such as landfills and septic systems can also contaminate groundwater which can then discharge pollutants into surface water.

On the basis of the risk assessments, and existing state and local law, EPA has made the determination that no further action under CERCLA is warranted at the Nutmeg Valley Road Superfund Site.

H. DOCUMENTATION OF NO SIGNIFICANT CHANGES

EPA proposed a plan of no further action under CERCLA for the Nutmeg Valley Road Superfund Site at public meetings on July 8, 2004, and August 5, 2004. EPA reviewed all written and verbal comments submitted during the public comment period. Of the seven sets of comments received during the public comment period, five expressed support for the no further action remedy; none stated an opposition to the selected remedy. Therefore, it was determined that no significant changes to the remedy, as originally identified in the Proposed Plan, were necessary.

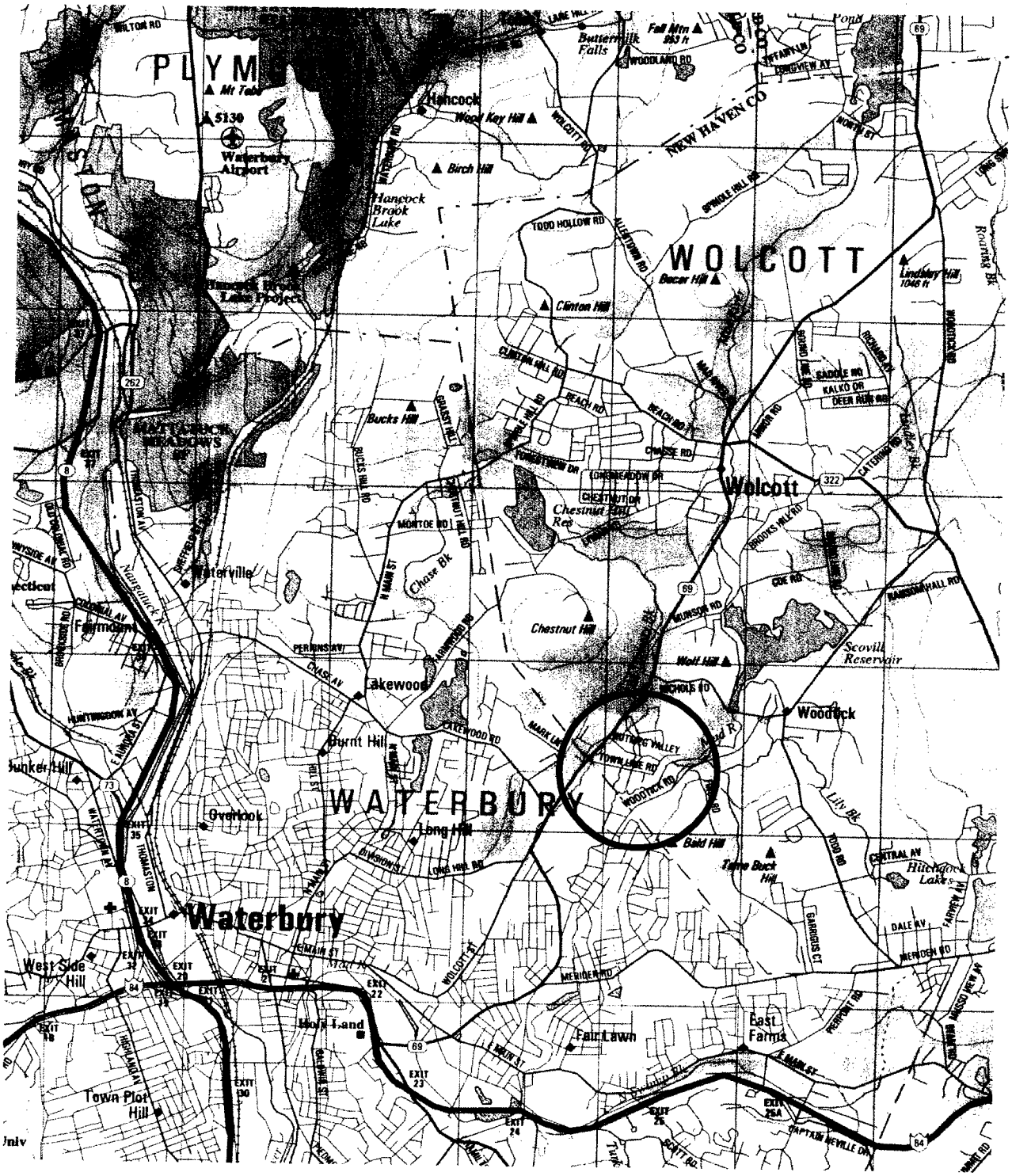
I. STATE ROLE

The CT DEP has reviewed the various reports and documents that form the Administrative Record for this Site and has indicated its support for the selected remedy. The State of Connecticut concurs with the selected remedy for the Nutmeg Valley Road Superfund Site. A copy of the declaration of concurrence is attached as Appendix D.

APPENDIX A

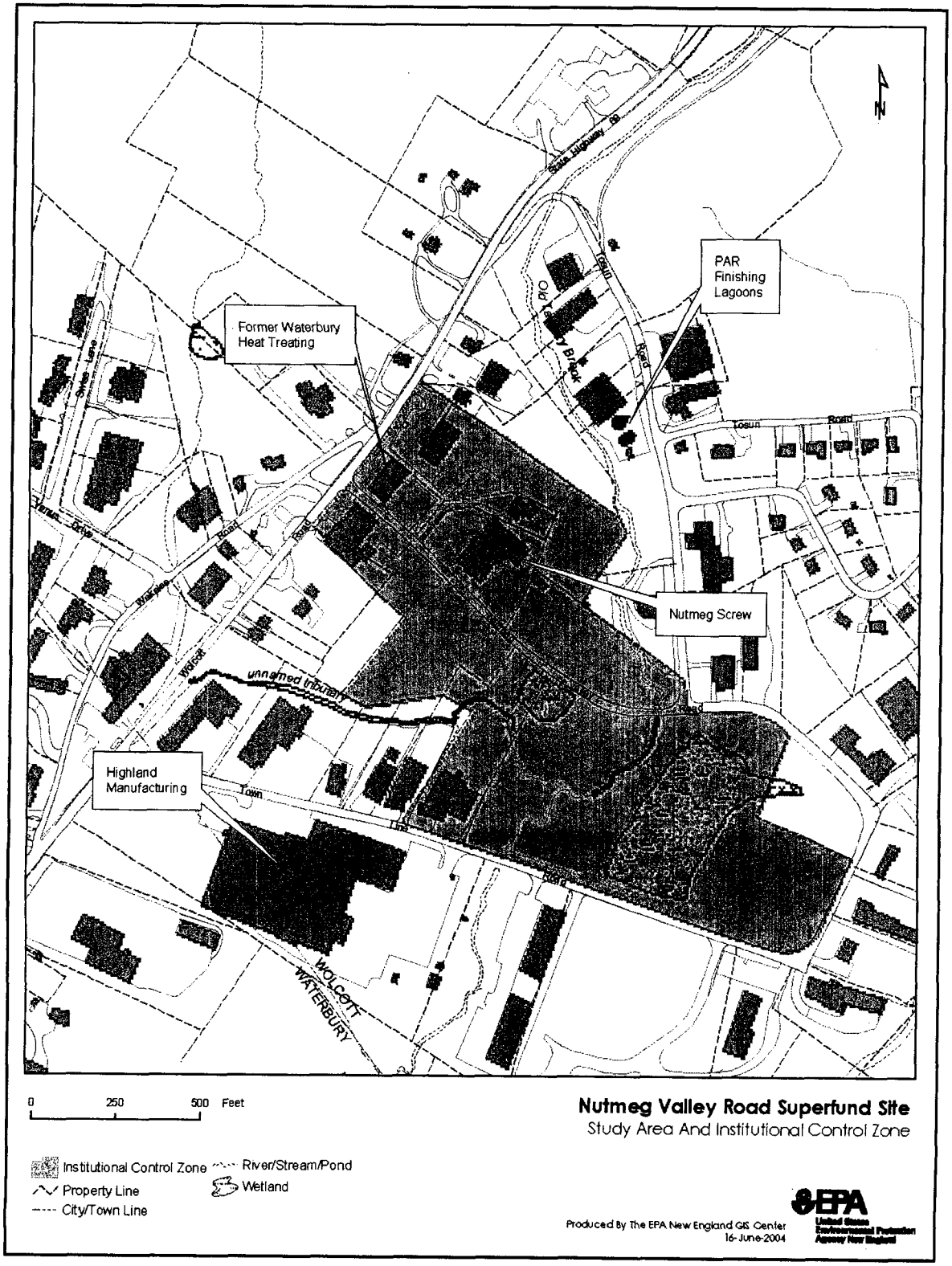
FIGURES

Figure 1



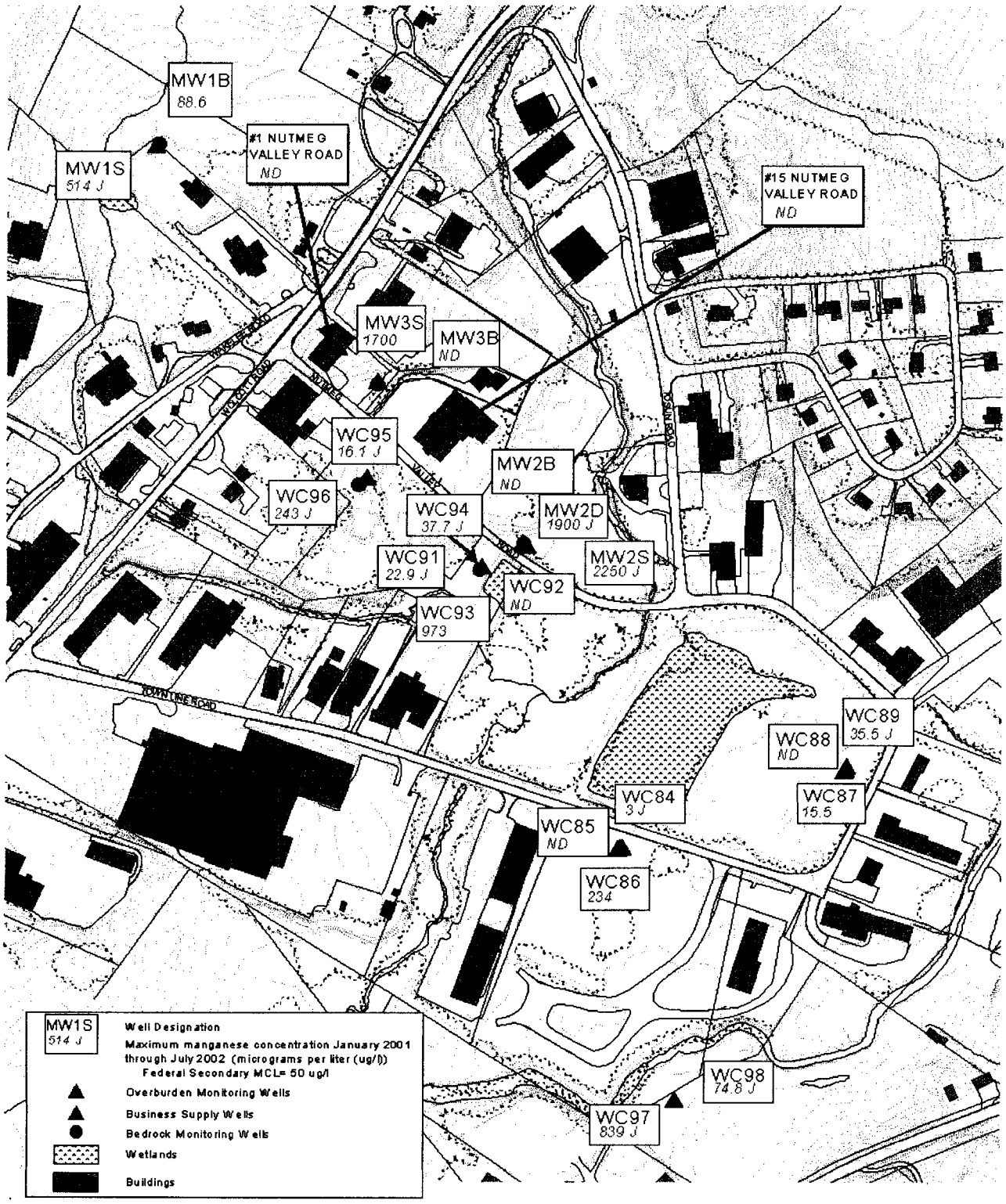
WOLCOTT
WATERBURY
Waterbury
Wolcott
Woodtick
Hancock
Waterbury Airport
Hancock Brook Lake
Chestnut Hill Res
Scovill Reservoir
Hitchcock Lakes
Lakewood
Burnt Hill
Overlook
Long Hill
Bald Hill
Tame Buck Hill
Wolf Hill
Chestnut Hill
Bucks Hill
Clinton Hill
Becar Hill
Birch Hill
Wood Key Hill
Butternilk Falls
Fall Mtn
Lindsley Hill
Waterville
Fairmount
West Side Hill
Town Plot Hill
Holy Land
Fair Lawn
East Farms
NEW HAVEN CO
Naugatuck R
Chase Bk
Lily Bk
Roaring Bk

Figure 2



PAR
Finishing
Lagoons
Former Waterbury
Heat Treating
Nutmeg Screw
Highland
Manufacturing
unnamed tributary
Tosun
Road
Town
Line
WOLCOTT
WATERBURY
0
250
500
Feet
Nutmeg Valley Road Superfund Site
Study Area And Institutional Control Zone
Institutional Control Zone
Property Line
City/Town Line
River/Stream/Pond
Wetland
Produced By The EPA New England GIS Center
16-June-2004
EPA

Figure 3



GROUNDWATER RESULTS
NUTMEG VALLEY ROAD SITE
WOLCOTT, CONNECTICUT

NOTES:
1) PLAN NOT TO BE USED FOR DESIGN
2) ALL LOCATIONS TO BE CONSIDERED APPROXIMATE
3) J = QUANTITATION APPROXIMATE; ND = NOT DETECTED

TETRA TECH NUS, INC.

APPENDIX B

REFERENCES

REFERENCES

Brown & Root Environmental, 1997. *Final Preliminary Ecological Characterization.* Report prepared for US EPA Region 1. March.

Oak Ridge National Laboratory, 1998. *Biota Sediment Accumulation Factors for Invertebrates: Review and Recommendations for the Oak Ridge Reservation.* Prepared for the US Department of Energy, Office of Environmental Management by Bechtel Jacobs Company LLC.

Tetra Tech NUS, Inc., 2000. *Quality Assurance Project Plan.* Prepared for US EPA Region 1. September.

Tetra Tech NUS, Inc., 2001. *Draft Final Ecological Risk Assessment.* Prepared for US EPA Region 1. November.

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Tetra Tech NUS, Inc., 2002. *Draft Final Human Health Risk Assessment.* Prepared for US EPA Region 1. February, with March modifications.

Tetra Tech NUS, Inc., 2002. *Draft Data Evaluation Addendum.* Prepared for US EPA Region 1. December.

Tetra Tech NUS, Inc., 2004. *Evaluation of Groundwater Monitoring Data MW-96.* Internal correspondence from Michael Healey, Senior Hydrogeologist, to Deborah Chisholm, Project Manager. February.

US Environmental Protection Agency, 1997. *The Incidence and Severity of Sediment Contamination in Surface Waters of the United States, Volume 1: National Sediment Quality Survey.* Office of Science and Technology.

US Environmental Protection Agency, 2004. *EPA Proposes No Further Action at Nutmeg Valley Road Superfund Site*, Proposed Plan. June.

US Geological Survey, 1997. *Preliminary Hydrogeologic Assessment of a Ground-Water Contamination Area in Wolcott, Connecticut*, Open-File Report 97-219.

US Geological Survey, 1999. *Hydrogeology and Water Quality of the Nutmeg Valley Area, Wolcott and Waterbury, Connecticut*, Water-Resources Investigations Report 99-4081.

APPENDIX C

GLOSSARY OF TERMS AND ACRONYMS

GLOSSARY

aquifer: the water-yielding earthen layer where water is stored. The geologic formation, thorough which water can flow and be pumped.

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act. A law, commonly known as Superfund, that authorizes the federal government to respond directly to releases of hazardous substances that may endanger public health or the environment.

consent decree: a legal document, approved by a judge, that formalizes an agreement reached between the government and an individual or entity that is responsible for a spill or other contamination at a superfund or other site through which the party will conduct all or part of a cleanup at the site.

downgradient: the direction in which groundwater flows.

groundwater: the supply of fresh water found beneath the earth's surface, usually in aquifers, which supply wells and springs. Because groundwater is a major source of drinking water, there is growing concern over contamination from leaching agricultural or industrial pollutants or leaking underground storage tanks.

PAHs: Polynuclear Aromatic Hydrocarbon. A group of chemical compounds that contain more than one fused benzene ring. Commonly found in petroleum fuels, coal products, and tar.

PCBs: Polychlorinated Biphenyls. A group of toxic, persistent chemicals used in electrical transformers and capacitors for insulating purposes, and in gas pipeline systems as a lubricant. The sale and new use of PCBs were banned by law in 1979.

phthalates: a class of chemical compounds used as an additive in a wide variety of products including plastics, perfume, hairspray, lubricants and wood finishers.

remedial investigation: an investigation to gather and analyze the data necessary to determine the nature and extent of contamination at a site, evaluate the risks to human health and the environment, and provide information for identifying and evaluating options for remedial action

ROD: Record of Decision. A legal, technical, and public document that explains which cleanup alternative will be used at a Superfund site. The ROD is based on information and technical analysis generated during investigations, studies and consideration of public comments and community concerns.

sampling well: also called a monitoring well. 1. A well used to obtain water quality samples or measure groundwater levels. 2. A well drilled at a hazardous waste management facility or Superfund site to collect groundwater samples for the purpose of physical, chemical, or biological analysis.

Superfund: the program operated under the legislative authority of CERCLA and the Superfund Amendments and Reauthorization Act of 1986 (SARA) that funds and carries out the EPA solid waste emergency and long-term removal remedial activities. These activities include establishing the National Priorities List, investigating sites for inclusion on the list, determining their priority level on the list, and conducting and/or supervising the ultimately determined cleanup and other remedial actions. See also *Comprehensive Environmental Response, Compensation, and Liability Act.*

surface water: all water naturally open to the atmosphere (rivers, lakes, reservoirs, ponds, streams, seas, estuaries).

SVOCs: semi-volatile organic compound. A hydrocarbon that partially vaporizes when exposed to air. Chlordane and DDT are examples of SVOCs used in the past as insecticides.

upgradient: the direction opposite to that in which groundwater flows.

VOCs: volatile organic compound. Any organic compound that evaporates readily to the atmosphere. For example, benzene is a VOC found in gasoline that can be emitted into the atmosphere when gasoline evaporates. VOCs are also used in paints, plastics, solvents, and other products.

wetlands: an area that is saturated by surface or ground water with vegetation adapted for life under those soil conditions, as swamps, bogs, fens, marshes, and estuaries.

APPENDIX D

STATE OF CONNECTICUT
LETTER OF CONCURRENCE

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION

79 ELM STREET HARTFORD, CONNECTICUT 06106

PHONE: (860) 424-3001

Arthur J. Rocque, Jr.
Commissioner

September 24, 2004

Susan Studlien
Director
Office of Site Remediation and Restoration
United States Environmental Protection Agency, Region 1
One Congress Street
Boston, MA 02114

Re: State Concurrence with No Further Action Remedy, Nutmeg Valley Road Superfund Site, Wolcott, Connecticut

Dear ~~Ms. Studlien~~ Susan:

The Connecticut Department of Environmental Protection (CTDEP) concurs with the no further action remedy selected by the Environmental Protection Agency (EPA) for the Nutmeg Valley Road Superfund Site in Wolcott, Connecticut. The no further action remedy is described in detail in the proposed plan dated June 2004, and the draft Record of Decision dated September 2004.

Nothing in this letter of concurrence with EPA's selection of no action for the Nutmeg Valley Road Site shall affect the Commissioner's authority to institute any proceeding or take any other action to prevent or abate pollution, to recover costs and natural resource damages, and to impose penalties for violations of law including but not limited to violations of any permit issued by the Commissioner.

Sincerely,

Arthur J. Rocque, Jr.
Commissioner

AJR:SG

APPENDIX E

RESPONSIVENESS SUMMARY

NUTMEG VALLEY ROAD SUPERFUND SITE

RESPONSIVENESS SUMMARY

SEPTEMBER 2004

TABLE OF CONTENTS

PREFACE

I. OVERVIEW OF PROPOSED PLAN

II. SITE HISTORY AND BACKGROUND ON COMMUNITY INVOLVMENT AND CONCERNS

III. SUMMARY OF PUBLIC COMMENTS AND AGENCY RESPONSES

ATTACHMENT A: Transcript of public hearing (August 5, 2004)

ATTACHMENT B: Written comments received during comment period (July 9 to August 9, 2004)

NUTMEG VALLEY ROAD RESPONSIVENESS SUMMARY

PREFACE

The U.S. Environmental Protection Agency (EPA) held a 30-day public comment period from July 9 to August 9, 2004, to provide an opportunity for public input on the July 2004 Proposed Plan to address contamination at the Nutmeg Valley Road Superfund Site (the "Site") in Wolcott, Connecticut. EPA prepared the Proposed Plan based on the results of the human-health risk assessment, ecological risk assessment, remedial investigation data evaluation reports, State of Connecticut groundwater use and value determination, and regional groundwater studies conducted by the U.S. Geological Survey (USGS). All documents that were used in EPA's selection of the preferred alternative were placed in the Administrative Record which is available for public review in Wolcott at the Wolcott Public Library, and at the EPA Records Center in Boston, Massachusetts.

The purpose of this Responsiveness Summary is to document EPA's responses to the questions and comments raised during the public comment period. EPA considered all the comments summarized in this document before selecting a final remedy for Nutmeg Valley Road.

This Responsiveness Summary is organized into the following sections:

I. **Overview of Proposed Plan.** This section briefly outlines the plan proposed to the public in July 2004 for addressing the contamination at the site.

II. **Site history and background on community involvement and concerns.** This section provides a brief history of the Site and an overview of community interests and concerns regarding the Site.

III. **Summary of comments received during the public comment period**. This section summarizes and provides EPA's responses to the oral and written comments received from the public during the public comment period.

A copy of the transcript from the public hearing held on Thursday, August 5, 2004, in Wolcott, Connecticut, is included as Attachment A. The written comments received during the comment period are included in Attachment B.

1. OVERVIEW OF PROPOSED PLAN

EPA made the determination that no further action under CERCLA is required at the Nutmeg Valley Road Superfund Site. The levels of organic compounds and metals that were detected in the soil, sediment and surface water do not appear to pose an unacceptable risk to human health. EPA did identify a potential non-carcinogenic health hazard from the *future* use of groundwater as a supply for drinking water. However, EPA believes that existing Connecticut Public Health Code (Section 19-12-B51m), which prevents private wells in the future from being located on parcels that are within 200 feet of a public water supply, and newly-enacted Town of Wolcott Groundwater Ordinance #87, which prohibits the use of groundwater in an Institutional Control Zone (ICZ), which includes all parcels on site where groundwater is contaminated, when considered together will provide a sufficient safeguard to ensure that human exposure to contaminated groundwater is prevented in the future. Furthermore, with passage of the groundwater ordinance, CT Department of Environmental Protection (CT DEP) revised the rating of the groundwater in the ICZ to "low use and value". Because the State and EPA both agree that this portion of the drinking water aquifer has "low use and value", EPA no longer considers drinking water standards to be appropriate for determining cleanup goals for this Site. EPA intends to conduct, pursuant to 40 U.S.C. § 9621(c), a limited review of the protectiveness of this determination every five years ensuring that these legal mechanisms (or similar requirements) remain in place and function to sufficiently prevent human exposure to contaminated groundwater.

With respect to the environment, EPA found that ecological risks in the study area were generally the same as, or less than, ecological risks found in upstream locations. This indicates that the contamination is due to upstream influences and/or activity that is not attributed to the Superfund Site.

II. SITE HISTORY AND BACKGROUND ON COMMUNITY INVOLVEMENT AND CONCERNS

Site History

Industrial use of the area began in the late 1940's. Historical information indicates that years of on-site disposal, spills and leaks of chemical waste, including solvents, paints, cyanide, heavy metals and oil at industrial and commercial properties has occurred. Aerial photographs show historical surface impoundments, stained surface soils and scrap metal debris.

In 1979, several private drinking water wells were found to be contaminated with volatile organic compounds (VOCs). In response to this discovery, and a hazardous waste inventory conducted by CT DEP, state and local officials conducted an investigation into the nature, extent and probable source(s) of groundwater contamination in Wolcott and surrounding areas. EPA conducted additional investigations to support the Site's placement on the National Priorities List (NPL) in March 1989. Metal-working and machine shops on Nutmeg Valley Road with a known history of dumping waste oil and solvents onto the ground (Nutmeg Screw and Waterbury Heat

Treating) were the focus of early investigations. EPA later expanded the study area to 155 acres to include similar shops on Swiss Lane, Tosun Road, Wolcott Road, and Town Line Road that were also seen as potential sources of groundwater contamination.

In 1992, EPA conducted an emergency removal at the PAR Finishing facility on Tosun Road. Approximately 1,150 tons of sludge waste and contaminated soil was removed from two unlined lagoons and shipped to a disposal facility in Michigan. This action addressed the threats posed by the electroplating wastes in surface soils, and removed a potential source of groundwater contamination.

In 1995 and 1998, the USGS performed regional groundwater studies in the expanded 155-acre study area. In comparing the findings of the two studies, the USGS concluded that: a) although VOCs, metals and cyanide were found in the groundwater, the distribution was scattered and there was no evidence of a wide-spread plume of contamination; and b) the levels of contaminants in much of the study area were decreasing over time through natural degradation processes. In 1999, using data collected by the USGS, EPA screened the area for human-health and ecological risk. EPA concluded that additional samples were needed to properly assess risk and that the focus could be limited to the area of interest for the NPL listing in 1989. The study area was reduced to its current 28-acre configuration. From 2000 to 2002, EPA collected samples from groundwater, soil, surface water and the sediment in streams and wetlands, and performed human-health and ecological risk assessments. The overburden aquifer was found to contain high levels of manganese, a potential non-carcinogenic health hazard.

In April 2004, the Town of Wolcott adopted an ordinance that established the 25-acre ICZ. The ICZ includes all parcels with contaminated groundwater. In June 2004, the CT DEP made the determination that the contaminated aquifer in the ICZ is "low use and value". In July 2004, EPA proposed the no further action remedy.

EPA has not issued notice letters to any Potentially Responsible Party for this Site. All the work is being done by EPA as a fund-lead site.

Community Involvement and Concerns

EPA has kept the community and other interested parties apprised of Site activities through public meetings, fact sheets and press releases. Throughout the Site's history, community concern has been high. Initially, concern was focused on the impact the Site may have on private drinking water wells. Later, the community was particularly concerned with the economic impacts of the "Superfund" designation which, according to statements made by facility owners at public meetings, made it difficult to sell property on site and/or secure loans for expansions and other improvements.

III. SUMMARY OF PUBLIC COMMENTS AND AGENCY RESPONSES

This Responsiveness Summary addresses comments pertaining to the Proposed Plan that were received by EPA during the public comment period (July 9 to August 9, 2004). Four individuals submitted written comments. Three individuals submitted oral comments at the public hearing on August 5, 2004. What follows are EPA's responses to these comments. Where possible, EPA has grouped similar comments, and prepared a single response. A copy of the public hearing transcript is included as Attachment A. Copies of the written comments are included as Attachment B.

Comment 1: *We endorse a plan of "No Further Action".*

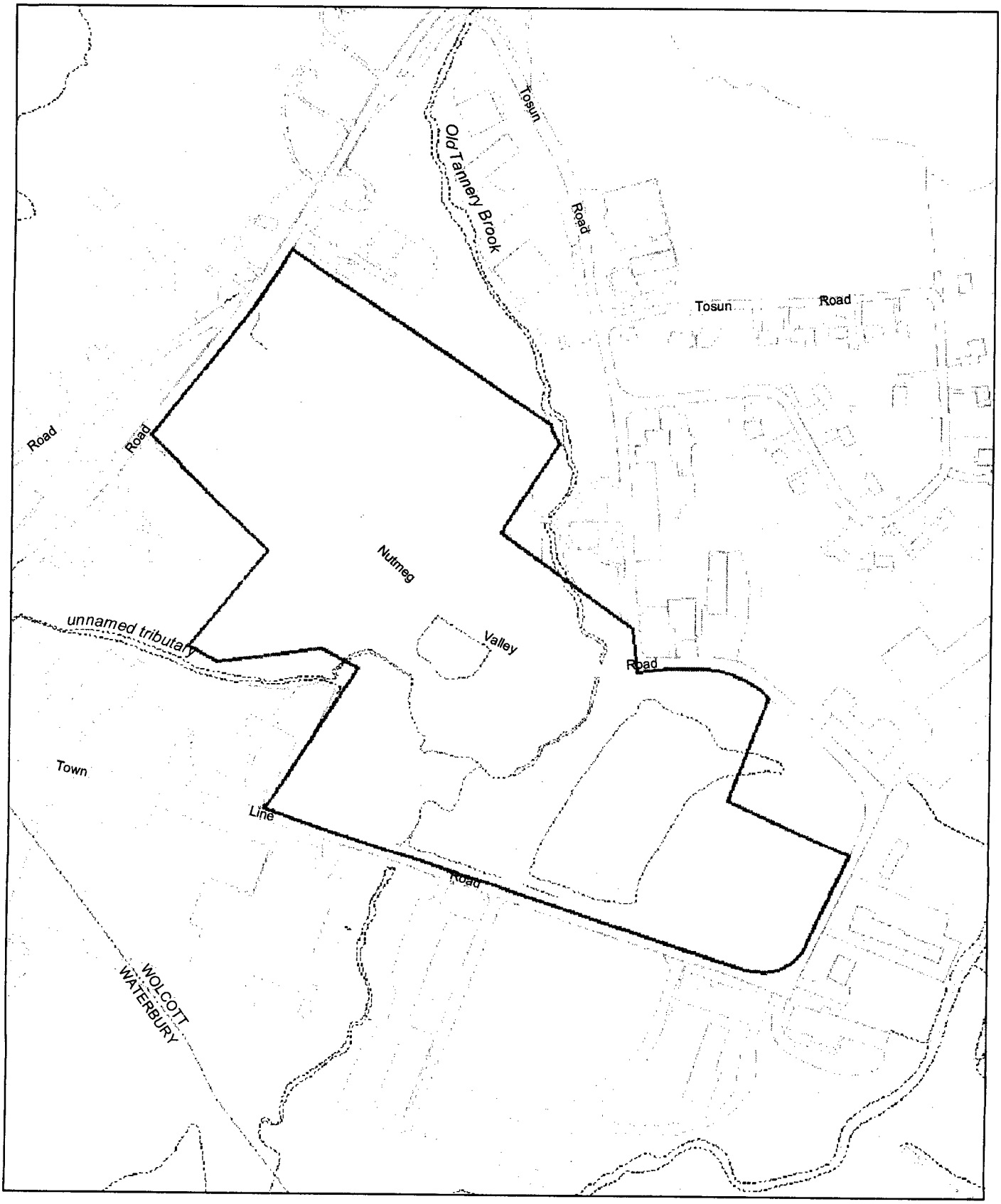
EPA Response: Thank you. Of the seven sets of comments received during the public comment period, five expressed support for the no further action remedy. None stated opposition.

Comment 2: *I hope that EPA or the Chesprocott Health District will follow up periodically with the well testing in this area, specifically the homes on Tosun Road.*

EPA Response: Groundwater that is contaminated with high concentrations of manganese, which is the only potential human-health risk associated with industrial activity at the Superfund site, flows away from the residential properties on Wolcott Road and Tosun Road. As such, neither EPA nor the Chesprocott Health District have plans at this time to conduct periodic, comprehensive sampling of residential wells along Tosun Road. However, the Chesprocott Health District will test individual residential wells, at the request of the homeowner.

Comment 3: *I am in the process of converting my building from well water to the public water supply. When will my property be removed from Superfund status? Which properties are required to tie into the public water supply?*

EPA Response: EPA anticipates delisting the Nutmeg Valley Road Site from the Superfund National Priorities List in 2006. Note that formal delisting cannot proceed until and unless there is complete compliance with the Town of Wolcott's Groundwater Ordinance #87. The parcels affected by the ordinance fall within an area called the Institutional Control Zone (ICZ) (Figure 1). Within the ICZ, all use of groundwater is prohibited. No action is required of the landowners outside the ICZ.



0 250 500 Feet

Institutional Control Zone

City/Town Line

Property Lines

Institutional Control Zones, Figure 1

Nutmeg Valley Road Site

Wolcott, CT

This map produced by the EPA New England GIS Center
5-March-2004

EPA United States Environmental Protection Agency New England

Attachment A

Transcript from Public Hearing
August 5, 2004

UNITED STATES OF AMERICA

ENVIRONMENTAL PROTECTION AGENCY

BOSTON REGION

In the Matter of:

PUBLIC HEARING:

RE: NUTMEG VALLEY ROAD SUPERFUND SITE

Town Hall
10 Kenea Ave
Wolcott, Connecticut

Thursday
August 5, 2004

The above entitled matter came on for hearing, pursuant to Notice at 7:00 p.m.

BEFORE:

MARY JANE O'DONNELL, Chief
ME, VT, CT Superfund Section
KAREN LUMINO, Remedial Project Manager
JAMES MURPHY, Community Involvement Coordinator
EPA, Region 1
1 Congress St., Suite 1100
Boston, MA 02114-2023

I N D E X

SPEAKERS:	PAGE
Mary Jane O'Donnell	3
Karen Lumino	5
James Murphy	8
Dolores Riollano	8
Ted Iorio	9
Romeo Perugini	9

1 P R O C E E D I N G S

2 (7:00 p.m.)

3 MS. O'DONNELL: Good evening everyone. I'd like
4 to welcome you to tonight's hearing on the Nutmeg Valley
5 Superfund site. My name is Mary Jane O'Donnell, I work for
6 the Environmental Protection Agency in Boston. I have a few
7 introductory comments that I wanted to present. I wanted to
8 talk a little bit about what the purpose of tonight's
9 meeting is introduce a couple of people that are here with
10 me, and then talk a little bit about the format of tonight's
11 hearing.

12 In terms of the purpose of the meeting, it's first
13 of all to formally accept your comments on our proposed
14 clean-up plan. Hopefully, you've all received copies of our
15 proposed "no further action" decision relative to the Nutmeg
16 Valley site, and if not, there's copies in the back of the
17 room. As I said, our purpose is to formally accept comments
18 in that proposal. We intend to document a decision in a
19 document called a "Responsive Summary".

20 In that responsive summary, we'll explain or
21 discuss any comments we receive tonight and any comments we
22 receive during the comment period. And also discuss whether
23 or not there should be any changes made in this "no further
24 action" proposal.

25 The responsive summary is something that is a

1 public document. We will put it in the Wolcott Public
2 Library and make it available to you folks and anyone else
3 who's interested. We hope to make our final remedy decision
4 by the end of September, September 30th, and that also would
5 be available to the public.
6 In terms of the folks that are here with me
7 tonight, Karen Lumino. Karen is the project manager for
8 EPA, and she and I were at other public meetings in the
9 past. Jim Murphy also works for EPA, he's Community
10 Involvement Coordinator. And Sheila Gleason, works for the
11 State of Connecticut. Sheila is the Department of
12 Environmental Protection project manager.
13 And also Diana, I'm going to hold your last name.
14 THE REPORTER: Strzemienski.
15 MS. O'DONNELL: Strzemienski. Diana is a Court
16 Reporter. All of our comments are being transcribed. So if
17 you do make comments, I'd ask you to speak loudly and
18 clearly, so that they can be properly recorded.
19 In terms of the format, Karen is going to give a
20 presentation, somewhat similar to the one that she gave at
21 our July 8th meeting. It's going to discuss sort of a
22 rational for our proposal of "no further action" at the site
23 and some of the next steps.
24 After that, I'd like to open the floor to any
25 comments that you folks might have. If you haven't signed

one of the index cards, we certainly appreciate it if you could, so that we can give everyone a fair opportunity to present their comments. When we do do that, I'd ask you to come forward and come to the front of the room and identify yourself and your association with the site and then feel free to make your comments.

Because this is a formal public hearing, we won't be in a position to answer your comments or questions you might have during the formal part of the meeting, but after the closing of the hearing, we'll certainly be around as long as you would like to answer whatever questions you might have.

We certainly encourage you to make comments whether or not they're pro or con. We're anxious to get a diversity of perspectives and really hear what you folks have to say, and we encourage you to make comments.

If there are no comments, I'll turn things over to Karen for her presentation.

MS. LUMINO: Thank you, Mary Jane. Good evening. I have prepared some comments. I'm going to read this so that the Court Reporter has the exact same comments. I'll formally introduce the record. I normally don't just read things but I'm going to tonight.

So as Mary Jane said, my name's Karen Lumino. I'm EPA's project manager for the Nutmeg Valley Road site.

1 On July 8th of this year the EPA announced its
2 determination that "no further action" under the Superfund
3 program is needed to protect human-health in the environment
4 from contamination at the Nutmeg Valley Road Site.
5 The "no further action" decision is based on
6 environmental data collected from ground water, surface
7 water, soil and sediment, and two risk assessments,
8 including health-risk assessment and ecological assessment.
9 EPA concluded that the elevated levels of
10 manganese found in ground water on some parcels in the study
11 area could potentially result in adverse health effects if
12 the ground water were used as a source of drinking water.
13 Manganese is a naturally occurring metal. Low
14 levels of manganese are essential to a healthy diet.
15 However, high levels can negatively impact the central
16 nervous system especially in children.
17 It's not uncommon to find manganese in residential
18 wells in this part of Connecticut. The bedrock here is
19 fairly rich in manganese.
20 However, the levels we found inside the study area
21 are three times higher than levels we found outside the
22 study area. This suggests to us that the manganese problem
23 at the Nutmeg Valley Road Site is due to industrial
24 activity. Probably the result of solvents and waste oils
25 being mishandled and dumped onto the bare ground.

1 This can create a situation where manganese and
2 other metals such as iron are stripped from the bedrock and
3 dissolved into the groundwater.
4 That said, EPA believes that existing state and
5 local laws are adequate and will ensure that human exposure
6 to contaminated groundwater is prevented.
7 This spring, the Wolcott Town Council voted to put
8 in place and ordinance that prevents the use of groundwater
9 in the Superfund site.
10 It calls for affected landowners to formally
11 abandon existing production wells and tie into the public
12 water supply no later than August 4th of 2004.
13 In addition, Connecticut Public Health Code states
14 that a permit for drinking water well will not be given for
15 any property that's within 200 feet of an existing water
16 line and that applies to all properties of concern in the
17 area. EPA will periodically review the state and local laws
18 to ensure that they are still in place and that human health
19 remains protected.
20 As Mary Jane stated, the purpose of tonight's
21 public hearing is to accept oral comments on the "no further
22 action" proposal. We will accept written comments through
23 this coming Monday, August 9th when the 30-day public
24 comment period closes.
25 Instructions for submitting written comments are

in the proposed plan, copies of which are on the table in the back of the room.

One final note before we begin, Mayor Tom Dunn was unable to join us tonight. I believe he is on vacation. However, his staff wanted me to indicate for the public record that he has support for the "no further action" proposal.

Thank you.

MS. O'DONNELL: ~~MR. MURPHY~~: Thanks Karen. Now's your opportunity I guess to make comments. If you'd like to make them for the record I'd ask you to come forward to the front of the room, identify yourself and please feel free to make your comment.

MS. RIOLLANO: Hi, I'm Dolores Riollano and I'm the daughter of Joseph Macary who owns property, who owned property on 17 Town Line Road for more years than I can remember.

My dad had started a business there and grew his business and he died a year ago still hoping that this property would one day be facing what we're facing right now, which is being de-listed.

I have been at meetings with him over the years and watched as he, what was really his life's blood almost too much, was endangered and I think he's smiling down on us from heaven, so I'm the affected part of tonight's meeting

1 and tonight's hearing.
2 I think he would be very happy and my only other
3 comment is please, go for it EPA.
4 MS. O'DONNELL: Thank you very much.
5 MS. RIOLLANO: I wish you were here.
6 MS. O'DONNELL: Would anyone like to make
7 comments?
8 MR. IORIO: Hi, I'm Ted Iorio from -- I'm the
9 owner of Nutmeg's Screw Machine and Alpine Electronics.
10 And the comment that I'd like to make is that we
11 just covered over our well and hooked into the city water
12 line today.
13 So by tomorrow that should be pretty well
14 effective and I think it's a great idea that people hook in
15 and get rid of their wells if they can. Okay. Thank you.
16 MS. O'DONNELL: Thank you. Anyone else?
17 MR. PERUGINI: Romeo Perugini, I purchased a
18 property of the Nutmeg Valley Road back in 2001.
19 Now this new proposal where everybody has to tie
20 into to city water, is that enforceable or it could be, is
21 it enforceable as of now?
22 MS. O'DONNELL: As I said in my introductory
23 comments, because this is a formal hearing, we don't want to
24 engage in a dialogue. We want to hear your comments but
25 afterwards we'll be happy to answer your questions.

1 MR. PERUGINI: Thank you.

2 MS. O'DONNELL: Anyone else? Seeing that there

3 are no other comments, the hearing's now closed. Thank you

4 Diana.

5 (Whereupon, at 7:10 p.m. the meeting was closed.)

CERTIFICATE OF REPORTER AND TRANSCRIBER

This is to certify that the attached proceedings in the Matter of:

RE: NUTMEG VALLEY ROAD SUPERFUND SITE

Place: Wolcott, Connecticut

Date: August 5, 2004

were held as herein appears, and that this is the true, accurate and complete transcript prepared from the notes and/or recordings taken of the above entitled proceeding.

Diana Strzemienski	08/05/2004
Reporter	Date
Cathy Daniels	09/02/2004
Transcriber	Date

Attachment B

Written Comments Received During Public Comment Period
July 9 to August 9, 2004

Use This Space to Write Your Comments
or to be added to the mailing list

EPA encourages you to provide your written comments and ideas about the proposed plan of "No Further Action" for the Nutmeg Valley Road Superfund site. You can use the form below to send written comments. If you have questions about how to comment, please call Jim Murphy of EPA's Community Affairs Office at (617)918-1028. Please mail this form or additional sheets of written comments, postmarked no later than August 9, 2004, to:

Karen Lumino
Remedial Project Manager
EPA New England
1 Congress Street
Suite 1100 (HBT)
Boston, MA 02114 - 2023
or E-Mail to : lumino.karen@epa.gov

Hello Karen,

Thank you for your work and attention to the Nutmeg Valley Road Superfund site. My father (Ted Iorio) was concerned about being part of the site for many years. I'm really glad that "No Further Action" has been proposed. We appreciate your attention to this.

Take care and best regards,

Mary Gretchen Iorio

(Attach sheets as needed)
Comment Submitted by:

Mailing list additions, deletions or changes

If you did not receive this through the mail and would like to

- [x] be added to the site mailing list
- [ ] note a change of address
- [ ] be deleted from the mailing list

Name : Mary Gretchen Iorio
Address: 100 Avalon Circle
Waterbury, CT 06710

Please check the appropriate box and fill in the correct address information above.

Use This Space to Write Your Comments
or to be added to the mailing list

EPA encourages you to provide your written comments and ideas about the proposed plan of "No Further Action" for the Nutmeg Valley Road Superfund site. You can use the form below to send written comments. If you have questions about how to comment, please call Jim Murphy of EPA's Community Affairs Office at (617)918-1028. Please mail this form or additional sheets of written comments, postmarked no later than August 9, 2004, to:

Karen Lumino
Remedial Project Manager
EPA New England
1 Congress Street
Suite 1100 (HBT)
Boston, MA 02114 - 2023
or E-Mail to : lumino.karen@epa.gov

7/26/04

The "No Further Action" plan sets forth a well reasoned explanation as to how EPA will bring this unfortunate situation to a close. It balances public-safety concerns with those of the owners of property at the site and the need to make the property productive for Wolcott. Hopefully Wolcott officials will require compliance with its new Zoning Ordinance thereby allowing the "site" to be De-Listed

(Attach sheets as needed)
Comment Submitted by:
Frederick L. Hoop
Atty. for Estate of Vanda Swidzinski

Mailing list additions, deletions or changes

If you did not receive this through the mail and would like to

- ☐ be added to the site mailing list
- ☐ note a change of address
- ☐ be deleted from the mailing list

Name :_____
Address:_____

Please check the appropriate box and fill in the correct address information above.

Use This Space to Write Your Comments
or to be added to the mailing list

EPA encourages you to provide your written comments and ideas about the proposed plan of "No Further Action" for the Nutmeg Valley Road Superfund site. You can use the form below to send written comments. If you have questions about how to comment, please call Jim Murphy of EPA's Community Affairs Office at (617)918-1028. Please mail this form or additional sheets of written comments, postmarked no later than August 9, 2004, to:

Karen Lumino
Remedial Project Manager
EPA New England
1 Congress Street
Suite 1100 (HBT)
Boston, MA 02114 - 2023
or E-Mail to : lumino.karen@epa.gov

Although I'm happy that the Site has been satisfactorily "cleaned up", I hope that the EPA or Chesprocott will follow up periodically with well testing in this area and specifically the homes on Tosun Rd.

Thank you for keeping us informed.

Jean Watson

Jean Watson
120 Tosun Rd
Wolcott CT 06716

(Attach sheets as needed)
Comment Submitted by:

Mailing list additions, deletions or changes

If you did not receive this through the mail and would like to

- ☐ be added to the site mailing list
- ☐ note a change of address
- ☐ be deleted from the mailing list

Name :_____
Address:_____

Please check the appropriate box and fill in the correct address information above.

Garden Apartment West, Inc.

33 Wolcott Road Wolcott, CT 06716-2611
(203) 879-4084 (203) 879-3672 (FAX)

July 14, 2004

Karen Lumino
Remedial Project Manager
EPA New England
1 Congress Street
Suite 1100 (HBT)
Boston, MA 02114- 2023

Dear Ms. Lumino,

RE: 33-39 Wolcott Road
Wolcott, CT 06716
(Nutmeg Valley Road Superfund Site)

I, Dan Morrone, owner of said property, am in the process of converting

my building from well water to city water.

Upon completion of this project, meeting State Requirements,

when will my property be removed from Superfund status.

Awaiting your reply, I remain

Yours truly,

Dan Morrone

Dan Morrone, Owner/Manager

cc: Jim Murphy
EPA's Community Affairs Office

APPENDIX F

ADMINISTRATIVE RECORD INDEX
and
GUIDANCE DOCUMENTS

Nutmeg Valley Road Superfund Site
Remedial Administrative Record File
Guidance Documents

Doc# 2002	10/1/1988	INTERIM FINAL GUIDANCE FOR CONDUCTING REMEDIAL INVESTIGATIONS AND FEASIBILITY STUDIES UNDER CERCLA
Doc# C530	1/1/1998	RISK ASSESSMENT GUIDANCE FOR SUPERFUND, VOL 1, HUMAN HEALTH EVALUATION MANUAL
Doc# C366	7/18/1997	DRAFT FINAL GUIDELINES FOR ECOLOGICAL RISK ASSESSMENT
Doc# 2305	6/1/1986	GUIDANCE DOCUMENT FOR CLEANUP OF SURFACE IMPOUNDMENT SITES
Doc# 1005	4/19/1988	INFORMATION ON DRINKING WATER ACTION LEVELS
Doc# 5000	6/16/1986	ATSDR HEALTH ASSESSMENTS ON NPL SITES (DRAFT)
Doc# C249	6/1/1989	INTERIM FINAL GUIDANCE ON PREPARING SUPERFUND DECISION DOCUMENTS
Doc# C260	3/1/1989	COMMUNITY RELATIONS IN SUPERFUND: A HANDBOOK
Doc# C278	4/4/1996	FINAL GROUNDWATER USE & VALUE DETERMINATION GUIDANCE
Doc# C279	2/2/1993	DOCUMENTATION OF CLOSE OUT REQUIREMENTS AT SITES WHERE THERE IS A NO ACTION RECORD OF DECISION
Doc# C473	8/1/1997	RULES OF THUMB FOR SUPERFUND REMEDY SELECTION

NUTMEG VALLEY ROAD SUPERFUND SITE
WOLCOTT, CONNECTICUT
ROD ADMINISTRATIVE RECORD INDEX

1. SITE ASSESSMENT

1. FORM : POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION - RICHARDS METAL PRODUCTS
AUTHOR: RUTH LEABMAN, US EPA REGION 1
DOC ID: 18848 03/30/1981 1 PAGE

2. FORM : POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION FORM - DOVER MFG CO
AUTHOR: RUTH LEABMAN, US EPA REGION 1
DOC ID: 18818 03/30/1981 1 PAGE

3. FORM : POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION FORM - MAUR-MEL AUTOMATICS
AUTHOR: RUTH LEABMAN, US EPA REGION 1
DOC ID: 18821 03/30/1981 1 PAGE

4. FORM : POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION FORM - NUTMEG SCREW MACHINE PRODUCTS CORP
AUTHOR: RUTH LEABMAN, US EPA REGION 1
DOC ID: 18822 03/30/1981 1 PAGE

5. FORM : POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION FORM - RICHARDS METAL PRODUCTS
AUTHOR: RUTH LEABMAN, US EPA REGION 1
DOC ID: 18824 03/30/1981 1 PAGE

6. REPORT: POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION, PRELIMINARY ASSESSMENT (PA), ALPINE ELECTRONIC COMPANY
AUTHOR: US EPA REGION 1
DOC ID: 18827 06/29/1984 6 PAGES

7. REPORT: POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION, PRELIMINARY ASSESSMENT (PA), LINE MANUFACTURING INC
AUTHOR: US EPA REGION 1
DOC ID: 18835 07/27/1984 7 PAGES

8. REPORT: POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION, PRELIMINARY ASSESSMENT (PA), RICHARDS METAL PRODUCTS
AUTHOR: US EPA REGION 1
DOC ID: 18847 08/03/1984 6 PAGES

9. REPORT: POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION, PRELIMINARY ASSESSMENT (PA), WATERBURY HEAT TREATING
AUTHOR: US EPA REGION 1
DOC ID: 18849 08/05/1984 7 PAGES

10. REPORT: POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION, PRELIMINARY ASSESSMENT (PA), NUTMEG SCREW MACHINE PRODUCTS
AUTHOR: US EPA REGION 1
DOC ID: 18841 08/29/1984 6 PAGES

1.SITE ASSESSMENT (cont)

11. REPORT: POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION, PRELIMINARY ASSESSMENT (PA), MAILLY MANUFACTURING CO
AUTHOR: US EPA REGION 1
DOC ID: 18837 09/19/1984 6 PAGES

12. REPORT: POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION, PRELIMINARY ASSESSMENT (PA), KEAS TOOL AND MACHINE CO
AUTHOR: US EPA REGION 1
DOC ID: 18834 09/27/1984 6 PAGES

13. REPORT: POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION, PRELIMINARY ASSESSMENT (PA), MAUR-MEL AUTOMATICS
AUTHOR: US EPA REGION 1
DOC ID: 18839 09/28/1984 5 PAGES

14. LETTER: TRANSMITTAL OF CT DEPARTMENT OF ENVIRONMENTAL PROTECTION'S QUARTERLY REPORT
TO: RUTH LEABMAN, US EPA REGION 1
AUTHOR: MARK A FRANSON, CT DEPT OF ENVIRONMENTAL PROTECTION
DOC ID: 18872 11/07/1984 2 PAGES

15. LETTER: RESPONSES TO EPA'S COMMENTS ON THE CONNECTICUT PRELIMINARY ASSESSMENT (PA)
TO: THOMAS STARK, CT DEPT OF ENVIRONMENTAL PROTECTION
AUTHOR: DONALD SMITH, US EPA REGION 1
DOC ID: 18889 01/01/1985 11 PAGES

16. LETTER: COMMENTS ON CONNECTICUT PRELIMINARY ASSESSMENT (PA) QUARTERLY REPORT [WITH CONCURRENCES]
TO: EDWARD C PARKER, CT DEPT OF ENVIRONMENTAL PROTECTION
AUTHOR: RICHARD A CAVAGNERO, US EPA REGION 1
DOC ID: 18877 01/15/1985 5 PAGES

17. LETTER: REQUEST FOR RESPONSE TO EPA'S COMMENTS ON THE CONNECTICUT PRELIMINARY ASSESSMENT (PA)
TO: EDWARD C PARKER, CT DEPT OF ENVIRONMENTAL PROTECTION
AUTHOR: DONALD SMITH, US EPA REGION 1
DOC ID: 18880 04/11/1985 2 PAGES

18. LETTER: RESPONSE TO EPA'S COMMENTS ON THE CONNECTICUT PRELIMINARY ASSESSMENT (PA)
TO: RUTH LEABMAN, US EPA REGION 1
AUTHOR: THOMAS STARK, CT DEPT OF ENVIRONMENTAL PROTECTION
DOC ID: 18885 06/12/1985 3 PAGES

19. FORM : PRELIMINARY ASSESSMENT DECISION RECORD, RICHARDS METAL PRODUCTS
AUTHOR: US EPA REGION 1
DOC ID: 18845 06/26/1985 1 PAGE

1.SITE ASSESSMENT (cont)

20. REPORT: FINAL SITE INSPECTION REPORT - NUTMEG SCREW MACHINE PRODUCTS CO
TO: DONALD SMITH, US EPA REGION 1
AUTHOR: HERBERT W COLBY, NUS CORP SUPERFUND DIVISION
DOC ID: 18897 11/14/1985 45 PAGES

21. REPORT: POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION, PRELIMINARY ASSESSMENT (PA), DOVER MANUFACTURING CORP
AUTHOR: US EPA REGION 1
DOC ID: 18831 11/22/1985 9 PAGES

22. REPORT: POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION, PRELIMINARY ASSESSMENT (PA), DOVER MANUFACTURING CORP (03/06/86 TRANSMITTAL LETTER IS ATTACHED)
AUTHOR: US EPA REGION 1
DOC ID: 18832 03/06/1986 17 PAGES

23. FORM : EPA DATA BASE UPDATE FORM - HIGHLAND MANUFACTURING CO
DOC ID: 41311 04/07/1986 1 PAGE

24. MEMO : FINAL SITE INSPECTION REPORT - LINE MANUFACTURING INC (TRANSMITTAL MEMO IS ATTACHED)
TO: DONALD SMITH, US EPA REGION 1
AUTHOR: NANCY SMITH, NUS/TETRA TECH INC
DOC ID: 18898 09/24/1986 50 PAGES

25. FORM : POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION FORM - CHEM CLEAN
AUTHOR: US EPA REGION 1
DOC ID: 18817 10/22/1986 1 PAGE

26. FORM : POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION FORM - JOMA INC
AUTHOR: US EPA REGION 1
DOC ID: 18820 10/22/1986 1 PAGE

27. FORM : POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION FORM - QUALITY AUTO BODY
AUTHOR: US EPA REGION 1
DOC ID: 18823 10/22/1986 1 PAGE

28. MEMO : POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION FORMS - CHEM CLEAN, QUALITY AUTO BODY, AND JOMA INC
TO: MICHAEL NALIPINSKI, US EPA REGION 1
AUTHOR: HERBERT W COLBY, NUS CORP SUPERFUND DIVISION
DOC ID: 18825 10/29/1986 4 PAGES

29. REPORT: PRELIMINARY HAZARD RANKING SYSTEM PACKAGE - LINE MANUFACTURING INC
AUTHOR: NUS/TETRA TECH INC
DOC ID: 18900 01/19/1987 32 PAGES

30. FORM : PRELIMINARY ASSESSMENT (PA) DECISION RECORD FY 87, DOVER MANUFACTURING CORP
AUTHOR: US EPA REGION 1
DOC ID: 18829 07/24/1987 1 PAGE

1.SITE ASSESSMENT (cont)

31. LETTER: TRANSMITTAL OF LIST OF FACILITIES FOR WHICH NUS WILL DO PRELIMINARY ASSESSMENTS
TO: MICHAEL NALIPINSKI, US EPA REGION 1
AUTHOR: RICHARD PEASE, CT DEPT OF ENVIRONMENTAL PROTECTION
DOC ID: 18891 12/07/1987 2 PAGES

32. FORM : POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION FORM - ELECTRO POWER INC
AUTHOR: MICHAEL NALIPINSKI, US EPA REGION 1
DOC ID: 18819 12/08/1987 1 PAGE

33. FORM : CERCLIS PRE-REMEDIAL SITE MANAGEMENT FORM - DOVER MANUFACTURING CORP
DOC ID: 41309 12/22/1987 1 PAGE

34. FORM : CERCLIS PRE-REMEDIAL SITE MANAGEMENT FORM - LINE MFG INC
DOC ID: 41315 12/22/1987 1 PAGE

35. FORM : CERCLIS PRE-REMEDIAL SITE MANAGEMENT FORM - MAUR-MEL AUTOMATICS
DOC ID: 41321 12/22/1987 1 PAGE

36. FORM : CERCLIS PRE-REMEDIAL SITE MANAGEMENT FORM - NUTMEG SCREW MACHINE PRODUCTS
DOC ID: 41324 12/22/1987 1 PAGE

37. FORM : CERCLIS PRE-REMEDIAL SITE MANAGEMENT FORM - NUTMEG VALLEY ROAD
DOC ID: 41325 12/22/1987 1 PAGE

38. FORM : PRELIMINARY ASSESSMENT (PA) EVALUATION CHECKLIST FORM - DOVER MANUFACTURING CORP
AUTHOR: US EPA REGION 1
DOC ID: 18828 01/06/1988 1 PAGE

39. FORM : PRELIMINARY ASSESSMENT (PA) EVALUATION CHECKLIST, MAILLY MANUFACTURING CO
AUTHOR: US EPA REGION 1
DOC ID: 18838 01/06/1988 1 PAGE

40. FORM : PRELIMINARY ASSESSMENT (PA) EVALUATION CHECKLIST, MAUR-MEL AUTOMATICS
AUTHOR: US EPA REGION 1
DOC ID: 18840 01/06/1988 1 PAGE

41. FORM : PRELIMINARY ASSESSMENT EVALUATION CHECKLIST, RICHARDS METAL PRODUCTS
AUTHOR: US EPA REGION 1
DOC ID: 18846 01/07/1988 1 PAGE

42. FORM : CERCLIS PRE-REMEDIAL SITE MANAGEMENT FORM - LINE MFG INC
DOC ID: 41314 01/30/1988 1 PAGE

1.SITE ASSESSMENT (cont)

43. FORM : SUPERFUND SITE SUMMARY FOR NUTMEG VALLEY
AUTHOR: US EPA REGION 1
DOC ID: 18932 02/19/1988 3 PAGES

44. LETTER: LIST OF SITES TO BE ASSIGNED TO NUS FOR SITE INSPECTIONS
TO: DEBORAH J PERNICE, US EPA REGION 1
AUTHOR: RICHARD PEASE, CT DEPT OF ENVIRONMENTAL PROTECTION
DOC ID: 18850 03/22/1988 1 PAGE

45. FORM : PRELIMINARY ASSESSMENT (PA) DECISION RECORD FY 88, ELECTRO POWER INC
AUTHOR: US EPA REGION 1
DOC ID: 18830 04/20/1988 1 PAGE

46. FORM : CERCLIS PRE-REMEDIAL SITE MANAGEMENT FORM - DOVER MANUFACTURING CORP
DOC ID: 41312 06/15/1988 1 PAGE

47. FORM : CERCLIS PRE-REMEDIAL SITE MANAGEMENT FORM - LINE MFG INC
DOC ID: 41313 06/15/1988 1 PAGE

48. FORM : CERCLIS PRE-REMEDIAL SITE MANAGEMENT FORM - MAILLY MFG CO
DOC ID: 41317 06/15/1988 1 PAGE

49. FORM : CERCLIS PRE-REMEDIAL SITE MANAGEMENT FORM - MAUR-MEL AUTOMATICS
DOC ID: 41320 06/15/1988 1 PAGE

50. FORM : CERCLIS PRE-REMEDIAL SITE MANAGEMENT FORM - NUTMEG SCREW MACHINE PRODUCTS
DOC ID: 41323 06/15/1988 1 PAGE

51. FORM : CERCLIS PRE-REMEDIAL SITE MANAGEMENT FORM - NUTMEG VALLEY ROAD
DOC ID: 41326 06/15/1988 1 PAGE

52. FORM : CERCLIS PRE-REMEDIAL SITE MANAGEMENT FORM - RICHARDS METAL PRODUCTS
DOC ID: 41329 06/15/1988 2 PAGES

53. REPORT: PRELIMINARY ASSESSMENT (PA) REPORT, ELECTRO POWER INC (06/15/88 COVER LETTER IS ATTACHED)
AUTHOR: KATHERINE ROBINSON, NUS/TETRA TECH INC
DOC ID: 18833 06/15/1988 9 PAGES

54. FORM : CERCLIS PRE-REMEDIAL SITE MANAGEMENT FORM - ELECTRO POWER INC
DOC ID: 41308 06/30/1988 2 PAGES

55. FORM : CERCLIS PRE-REMEDIAL SITE MANAGEMENT FORM - MAILLY MFG CO
DOC ID: 41318 12/22/1988 1 PAGE

56. FORM : CERCLIS DATABASE FORM AND NPL ELIGIBILITY CHECKLIST - NUTMEG VALLEY ROAD
DOC ID: 41327 01/26/1989 6 PAGES

1.SITE ASSESSMENT (cont)

57. FORM : CERCLIS PRE-REMEDIAL SITE MANAGEMENT FORM - MAILLY MFG CO
DOC ID: 41316 02/22/1989 1 PAGE

58. LETTER: REVIEW OF DRAFT PRELIMINARY ASSESSMENT (PA) - PF INDUSTRIES
TO: RUTH LEABMAN, US EPA REGION 1
AUTHOR: LESLIE F WHITE, CT DEPT OF ENVIRONMENTAL PROTECTION
DOC ID: 18844 03/27/1989 1 PAGE

59. MEMO : MEMO ON DRAFT PRELIMINARY ASSESSMENT (PA), NUTMEG VALLEY ROAD
TO: MELISSA BLAIS, CT DEPT OF ENVIRONMENTAL PROTECTION
AUTHOR: DEBORAH J PERNICE, US EPA REGION 1
DOC ID: 18843 04/21/1989 1 PAGE

60. REPORT: PRELIMINARY ASSESSMENT (PA) REPORT, PF INDUSTRIES (05/02/89 TRANSMITTAL LETTER IS ATTACHED)
AUTHOR: CT DEPT OF ENVIRONMENTAL PROTECTION
DOC ID: 18842 04/26/1989 16 PAGES

61. FORM : WASTELAN PRE-REMEDIAL SITE MANAGEMENT FORM - RICHARDS METAL PRODUCTS
DOC ID: 41328 05/15/1990 1 PAGE

62. REPORT: FINAL SCREENING SITE INSPECTION - DOVER MANUFACTURING
TO: US EPA REGION 1
AUTHOR: ROBERT TISDALE, NUS/TETRA TECH INC
DOC ID: 18896 01/02/1991 16 PAGES

63. FORM : WASTELAN II PRE-REMEDIAL SITE MANAGEMENT FORM - DOVER MANUFACTURING CORP
DOC ID: 41310 05/09/1991 2 PAGES

64. FORM : WASTELAN II PRE-REMEDIAL SITE MANAGEMENT FORM - MAILLY MFG CO
DOC ID: 41319 05/09/1991 3 PAGES

65. FORM : WASTELAN II PRE-REMEDIAL SITE MANAGEMENT FORM - MAUR-MEL AUTOMATICS
DOC ID: 41322 06/03/1991 2 PAGES

66. LETTER: COMMENTS ON THE DOVER MANUFACTURING CORPORATION SITE INSPECTION
TO: EDWARD C PARKER, CT DEPT OF ENVIRONMENTAL PROTECTION
AUTHOR: SUSAN YURASEVECZ, CT DEPT OF PUBLIC HEALTH
DOC ID: 18908 06/17/1991 2 PAGES

67. REPORT: FINAL REPORT SITE INSPECTION - PF INDUSTRIES
TO: US EPA REGION 1
AUTHOR: TRC COMPANIES INC
DOC ID: 18894 04/01/1993 82 PAGES

1.SITE ASSESSMENT (cont)

68. REPORT: REMOVAL PROGRAM PRELIMINARY ASSESSMENT/SITE INVESTIGATION (PA/SI), NUTMEG VALLEY ROAD, WOLCOTT (CT)
AUTHOR: ROY F WESTON
US EPA REGION 1
DOC ID: 41980 12/01/1993 29 PAGES

69. MEMO : REVIEW OF WOLCOTT, CT SITES HRS SCORES: ELECTRO POWER
AUTHOR: DONALD SMITH, US EPA REGION 1
DOC ID: 18927 04/21/1995 3 PAGES

70. REPORT: ENVIRONMENTAL ASSESSMENT REPORT, VOLUME 1: TECHNICAL REPORT - AMP INC
TO: AMP INC
AUTHOR: ROY F WESTON
DOC ID: 41307 03/01/1996 46 PAGES

2. REMOVAL RESPONSE

1. REPORT: HAZARDOUS WASTE CLOSURE PLAN - PAR FINISHING COMPANY
AUTHOR: HRP ASSOCIATES INC
DOC ID: 19192 08/01/1984 10 PAGES

2. SAMPLING & ANALYSIS DATA: VOLATILE ORGANIC SCREENING (TRANSMITTAL MEMO IS ATTACHED)
TO: DONALD F BERGER, US EPA REGION 1
AUTHOR: MOIRA M LATAILLE, US EPA REGION 1
DOC ID: 41330 04/02/1987 8 PAGES

3. SAMPLING & ANALYSIS DATA: PURGEABLE ORGANIC ANALYSIS - SOILS (TRANSMITTAL MEMO IS ATTACHED)
TO: DONALD F BERGER, US EPA REGION 1
AUTHOR: MOIRA M LATAILLE, US EPA REGION 1
SCOTT CLIFFORD, US EPA REGION 1
DOC ID: 41331 06/09/1987 15 PAGES

4. SAMPLING & ANALYSIS DATA: VOLATILE ORGANIC SCREENING - SOIL (TRANSMITTAL MEMO IS ATTACHED)
TO: DONALD F BERGER, US EPA REGION 1
AUTHOR: MOIRA M LATAILLE, US EPA REGION 1
DOC ID: 41333 06/10/1987 10 PAGES

5. SAMPLING & ANALYSIS DATA: VOLATILE ORGANIC SCREENING - WATERS (TRANSMITTAL MEMO IS ATTACHED)
TO: DONALD F BERGER, US EPA REGION 1
AUTHOR: MOIRA M LATAILLE, US EPA REGION 1
DOC ID: 41332 06/10/1987 3 PAGES

2.REMOVAL RESPONSE (cont)

6. SAMPLING & ANALYSIS DATA: PURGEABLE ORGANIC ANALYSIS (TRANSMITTAL MEMO IS ATTACHED)
TO: DONALD F BERGER, US EPA REGION 1
AUTHOR: MOIRA M LATAILLE, US EPA REGION 1
SCOTT CLIFFORD, US EPA REGION 1
DOC ID: 41334 06/15/1987 18 PAGES

7. MEMO : COMMENTS ON RESIDENTIAL WELL SAMPLE
TO: RICHARD A HAWORTH, US EPA REGION 1
AUTHOR: LOUISE A HOUSE, US PUBLIC HEALTH SERVICE/ATSDR
DOC ID: 18999 07/06/1987 1 PAGE

8. LETTER: AS A RESULT OF ATSDR'S HEALTH ADVISORY, EPA WILL BE SAMPLING ALL HOMES ON TOSUN ROAD
TO: WILLIAM D HEGENER, CT DEPT OF ENVIRONMENTAL PROTECTION
AUTHOR: RICHARD A HAWORTH, US EPA REGION 1
DOC ID: 19000 07/08/1987 1 PAGE

9. SAMPLING & ANALYSIS DATA: SOIL SAMPLE ANALYSIS RESULTS (TRANSMITTAL MEMO IS ATTACHED)
TO: RICHARD A HAWORTH, US EPA REGION 1
AUTHOR: JAMES WARD, US EPA REGION 1
DOC ID: 41335 07/09/1987 3 PAGES

10. LETTER: RESIDENTIAL SAMPLING PROGRAM ON TOSUN ROAD
TO: ROBERT B TAYLOR, CT DEPT OF ENVIRONMENTAL PROTECTION
AUTHOR: ALEX SHERRIN, US EPA REGION 1
DOC ID: 19001 07/30/1987 2 PAGES

11. SAMPLING & ANALYSIS DATA: PURGEABLE ORGANIC ANALYSIS (TRANSMITTAL MEMO IS ATTACHED)
TO: DONALD F BERGER, US EPA REGION 1
AUTHOR: MARY JANE MACIEJKO, US EPA REGION 1
DOC ID: 41336 08/06/1987 23 PAGES

12. SAMPLING & ANALYSIS DATA: VOLATILE ORGANIC SCREENING (TRANSMITTAL MEMO IS ATTACHED)
TO: DONALD F BERGER, US EPA REGION 1
AUTHOR: MARY JANE MACIEJKO, US EPA REGION 1
MOIRA M LATAILLE, US EPA REGION 1
DOC ID: 41337 08/10/1987 16 PAGES

13. SAMPLING & ANALYSIS DATA: GAS CHROMATOGRAPHY-MASS SPECTROMETRY ANALYSIS OF EXTRACTABLE ORGANICS IN MUNICIPAL AND INDUSTRIAL DISCHARGES (TRANSMITTAL MEMO IS ATTACHED)
TO: ALEX SHERRIN, US EPA REGION 1
AUTHOR: RICHARD SISCANAW, US EPA REGION 1
SURESH SRIVASTAVA, US EPA REGION 1
DOC ID: 41338 09/18/1987 27 PAGES

2.REMOVAL RESPONSE (cont)

14. FORM : REMOVAL ASSESSMENT FORM FOR NPL SITE
AUTHOR: MARTYN B CLEMENTS, US EPA REGION 1
DOC ID: 19190 04/30/1991 3 PAGES

15. REPORT: PAR FINISHING EMERGENCY RESPONSE TEAM REPORT
AUTHOR: MARTYN B CLEMENTS, US EPA REGION 1
DOC ID: 19191 04/30/1991 5 PAGES

16. MEMO : REQUEST FOR REMOVAL ACTION - ACTION MEMORANDUM
TO: JULIE BELAGA, US EPA REGION 1
AUTHOR: LISA A DANEK, US EPA REGION 1
DOC ID: 19195 08/27/1991 7 PAGES

17. MEMO : REQUEST FOR REMOVAL ACTION - ACTION MEMORANDUM [CONCURRENCE PAGE ONLY]
TO: JULIE BELAGA, US EPA REGION 1
AUTHOR: LISA A DANEK, US EPA REGION 1
DOC ID: 19193 08/27/1991 1 PAGE

18. LETTER: REMOVAL ACTIONS HAVE BEGUN AT PAR FINISHING LAGOONS
TO: SUSANNE SIMON, US PUBLIC HEALTH SERVICE/ATSDR
AUTHOR: MARTYN B CLEMENTS, US EPA REGION 1
DOC ID: 19008 09/26/1991 1 PAGE

19. REPORT: POLREP #1 - REMOVAL ACTION
DOC ID: 65228 11/08/1991 3 PAGES

20. REPORT: POLREP #1 - REMOVAL ACTION
DOC ID: 65229 11/08/1991 3 PAGES

3. REMEDIAL INVESTIGATION (RI)

1. SAMPLING & ANALYSIS DATA: SAMPLING & ANALYSIS DATA
DOC ID: 27463 12 PAGES

2. MEMO : RESPONSE TO ATSDR HEALTH ASSESSMENT FOR YAWORSKI AND PRELIMINARY HEALTH ASSESSMENT FOR NUTMEG VALLEY
TO: MARILYN DISIRIO, US EPA REGION 1
AUTHOR: IRA W LEIGHTON, US EPA REGION 1
DOC ID: 19221 03/28/1988 3 PAGES

3. REPORT: HEALTH ASSESSMENT FOR NUTMEG VALLEY
AUTHOR: US PUBLIC HEALTH SERVICE/ATSDR
DOC ID: 19224 05/02/1988 4 PAGES

4. REPORT: PHASE 2 SUBSURFACE INVESTIGATIONS
TO: PAMELA PECK, CONNECTICUT NATIONAL BANK
AUTHOR: HRP ASSOCIATES INC
DOC ID: 27453 04/08/1991 21 PAGES

3.REMEDIAL INVESTIGATION (RI) (cont)

5. LETTER: RESPONSE TO TELEPHONE CONVERSATION REGARDING THE HEALTH ASSESSMENT FOR NUTMEG VALLEY
TO: EDWARD S WILENSKY, WOLCOTT (CT) TOWN HALL
AUTHOR: MARTYN B CLEMENTS, US EPA REGION 1
DOC ID: 19226 07/17/1991 1 PAGE

6. REPORT: DRAFT DATA SUMMARY REPORT
TO: US EPA REGION 1
AUTHOR: METCALF & EDDY INC
DOC ID: 19220 11/01/1992 47 PAGES

7. MEMO : SAMPLE RESULTS - ANALYSIS OF CHLORINATED PESTICIDES AND POLYCHLORINATED BIPHENYLS (PCBs) IN WATER SAMPLES
TO: DANIEL S GRANZ, US EPA REGION 1
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: PETER PHILBROOK, US EPA REGION 1
DOC ID: 42379 06/05/1996 9 PAGES

8. MEMO : SAMPLE RESULTS - SOILS--VOLATILE ORGANIC ANALYSIS BY GC/MS
TO: DANIEL S GRANZ, US EPA REGION 1
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: JOSEPH MONTANARO, US EPA REGION 1
DOC ID: 42381 06/10/1996 30 PAGES

9. MEMO : SAMPLE RESULTS - VOLATILE ORGANIC ANALYSIS BY GC/MS
TO: DANIEL S GRANZ, US EPA REGION 1
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: JOSEPH MONTANARO, US EPA REGION 1
DOC ID: 42380 06/10/1996 12 PAGES

10. MEMO : SAMPLE RESULTS - ANALYSIS OF CHLORINATED PESTICIDES AND POLYCHLORINATED BIPHENYLS (PCBs) IN SOIL SAMPLES
TO: DANIEL S GRANZ, US EPA REGION 1
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: PETER PHILBROOK, US EPA REGION 1
DOC ID: 42382 06/11/1996 25 PAGES

11. MEMO : SAMPLE RESULTS - GAS CHROMATOGRAPHY-MASS SPECTROMETRY ANALYSIS OF EXTRACTABLE ORGANICS IN AQUEOUS SAMPLES
TO: DANIEL S GRANZ, US EPA REGION 1
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: AGNES VANLANGENHOVE, US EPA REGION 1
DOC ID: 42384 06/17/1996 12 PAGES

12. MEMO : SAMPLE RESULTS - GAS CHROMATOGRAPHY-MASS SPECTROMETRY ANALYSIS OF EXTRACTABLE ORGANICS IN SOILS AND SEDIMENTS
TO: DANIEL S GRANZ, US EPA REGION 1
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: AGNES VANLANGENHOVE, US EPA REGION 1
DOC ID: 42383 06/17/1996 50 PAGES

3.REMEDIAL INVESTIGATION (RI) (cont)

13. MEMO : SAMPLE RESULTS - HG RESULTS
TO: DANIEL S GRANZ, US EPA REGION 1
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: SCOTT CLIFFORD, US EPA REGION 1
DOC ID: 42385 06/19/1996 4 PAGES

14. MEMO : SAMPLE RESULTS - TOTAL METALS RESULTS
TO: DANIEL S GRANZ, US EPA REGION 1
AUTHOR: MICHAEL DOWLING, US EPA REGION 1
SCOTT CLIFFORD, US EPA REGION 1
DOC ID: 41959 06/20/1996 9 PAGES

15. MEMO ': SAMPLE RESULTS - SITE AND SAMPLE DESCRIPTIONS
TO: JANE DOLAN, US EPA REGION 1
AUTHOR: DANIEL S GRANZ, US EPA REGION 1
DOC ID: 42386 07/17/1996 2 PAGES

16. REPORT: DRAFT PRELIMINARY ECOLOGICAL CHARACTERIZATION
AUTHOR: TETRA TECH NUS INC
DOC ID: 41979 01/01/1997 49 PAGES

17. REPORT: PRELIMINARY HYDROGEOLOGIC ASSESSMENT OF A GROUND WATER CONTAMINATION AREA IN WOLCOTT, CONNECTICUT
AUTHOR: US DEPT OF THE INTERIOR
DOC ID: 18826 01/01/1997 38 PAGES

18. MEMO : SAMPLING RESULTS - VOLATILE ORGANIC ANALYSIS OF PASSIVE VAPOR COLLECTORS
TO: JANE DOLAN, US EPA REGION 1
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: SCOTT CLIFFORD, US EPA REGION 1
DOC ID: 41957 07/19/1997 9 PAGES

19. LETTER: RESULTS OF PASSIVE VAPOR COLLECTOR ANALYSIS
TO: JANE DOLAN, US EPA REGION 1
AUTHOR: REMO A MONDAZZI, US DEPT OF THE INTERIOR
DOC ID: 19219 08/08/1997 10 PAGES

20. MEMO : SAMPLE RESULTS - VOLATILE ORGANIC ANALYSIS OF PASSIVE VAPOR COLLECTORS
TO: MARY JANE ODONNELL, US EPA REGION 1
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: PAUL CARROLL, US EPA REGION 1
DOC ID: 42387 11/25/1997 7 PAGES

21. MEMO : SAMPLE RESULTS - ANION RESULTS
TO: AGNES VANLANGENHOVE, US EPA REGION 1
CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
AUTHOR: WILLIAM J ANDRADE, US EPA REGION 1
DOC ID: 42390 06/09/1998 4 PAGES

3.REMEDIAL INVESTIGATION (RI) (cont)

22. MEMO : SAMPLE RESULTS - AQUEOUS TOTAL CYANIDE RESULTS
TO: JOHN R MULLANEY, US DEPT OF THE INTERIOR
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: JANET PAQUIN, US EPA REGION 1
DOC ID: 42394 06/12/1998 4 PAGES

23. MEMO : SAMPLE RESULTS - AQUEOUS TOTAL CYANIDE RESULTS
TO: JOHN R MULLANEY, US DEPT OF THE INTERIOR
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: JANET PAQUIN, US EPA REGION 1
DOC ID: 42395 06/16/1998 4 PAGES

24. MEMO : SAMPLE RESULTS - ANION RESULTS
TO: AGNES VANLANGENHOVE, US EPA REGION 1
CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
AUTHOR: WILLIAM J ANDRADE, US EPA REGION 1
DOC ID: 42396 06/24/1998 4 PAGES

25. MEMO : SAMPLE RESULTS - ANION RESULTS
TO: AGNES VANLANGENHOVE, US EPA REGION 1
CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
AUTHOR: WILLIAM J ANDRADE, US EPA REGION 1
DOC ID: 42398 06/24/1998 4 PAGES

26. MEMO : SAMPLE RESULTS - ANION RESULTS
TO: AGNES VANLANGENHOVE, US EPA REGION 1
CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
AUTHOR: WILLIAM J ANDRADE, US EPA REGION 1
DOC ID: 42399 06/24/1998 4 PAGES

27. MEMO : SAMPLE RESULTS - ANION RESULTS
TO: AGNES VANLANGENHOVE, US EPA REGION 1
CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
AUTHOR: WILLIAM J ANDRADE, US EPA REGION 1
DOC ID: 42400 06/24/1998 4 PAGES

28. MEMO : SAMPLE RESULTS - AQUEOUS TOTAL CYANIDE RESULTS
TO: JOHN R MULLANEY, US DEPT OF THE INTERIOR
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: JANET PAQUIN, US EPA REGION 1
DOC ID: 42397 06/24/1998 4 PAGES

29. MEMO : SAMPLE RESULTS - AQUEOUS TOTAL CYANIDE RESULTS
TO: JOHN R MULLANEY, US DEPT OF THE INTERIOR
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: JANET PAQUIN, US EPA REGION 1
DOC ID: 42388 06/30/1998 4 PAGES

3.REMEDIAL INVESTIGATION (RI) (cont)

30. MEMO : SAMPLE RESULTS - DISSOLVED METALS RESULTS
TO: JOHN R MULLANEY, US DEPT OF THE INTERIOR
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: MICHAEL DOWLING, US EPA REGION 1
DOC ID: 42389 06/30/1998 9 PAGES

31. MEMO : SAMPLING RESULTS - VOLATILE ORGANIC ANALYSIS BY GC/MS
TO: CAROLYN PINA-SPRINGER, US EPA REGION 1
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: JOSEPH MONTANARO, US EPA REGION 1
DOC ID: 41955 06/30/1998 26 PAGES

32. MEMO : SAMPLE RESULTS - VOLATILE ORGANIC ANALYSIS BY GC/MS
TO: CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: JOSEPH MONTANARO, US EPA REGION 1
DOC ID: 42401 07/01/1998 19 PAGES

33. MEMO : SAMPLE RESULTS - VOLATILE ORGANIC ANALYSIS BY GC/MS
TO: CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: JOSEPH MONTANARO, US EPA REGION 1
DOC ID: 42402 07/01/1998 24 PAGES

34. MEMO : SAMPLE RESULTS - VOLATILE ORGANIC ANALYSIS BY GC/MS
TO: CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: JOSEPH MONTANARO, US EPA REGION 1
DOC ID: 42403 07/02/1998 14 PAGES

35. MEMO : SAMPLE RESULTS - ANION RESULTS
TO: AGNES VANLANGENHOVE, US EPA REGION 1
CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
AUTHOR: WILLIAM J ANDRADE, US EPA REGION 1
DOC ID: 42404 07/06/1998 4 PAGES

36. MEMO : SAMPLE RESULTS - ANION RESULTS
TO: AGNES VANLANGENHOVE, US EPA REGION 1
CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
AUTHOR: WILLIAM J ANDRADE, US EPA REGION 1
DOC ID: 42405 07/07/1998 4 PAGES

3.REMEDIAL INVESTIGATION (RI) (cont)

37. MEMO : SAMPLE RESULTS - ANION RESULTS
TO: AGNES VANLANGENHOVE, US EPA REGION 1
CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
AUTHOR: WILLIAM J ANDRADE, US EPA REGION 1
DOC ID: 42406 07/07/1998 4 PAGES

38. MEMO : SAMPLE RESULTS - AQUEOUS TOTAL CYANIDE RESULTS
TO: JOHN R MULLANEY, US DEPT OF THE INTERIOR
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: JANET PAQUIN, US EPA REGION 1
DOC ID: 42407 07/08/1998 4 PAGES

39. MEMO : SAMPLE RESULTS - ANION RESULTS
TO: AGNES VANLANGENHOVE, US EPA REGION 1
CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
AUTHOR: WILLIAM J ANDRADE, US EPA REGION 1
DOC ID: 42408 07/09/1998 4 PAGES

40. MEMO : SAMPLE RESULTS - VOLATILE ORGANIC ANALYSIS BY GC/MS
TO: CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: JOSEPH MONTANARO, US EPA REGION 1
DOC ID: 42409 07/09/1998 17 PAGES

41. MEMO : SAMPLE RESULTS - ANION RESULTS
TO: AGNES VANLANGENHOVE, US EPA REGION 1
CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
AUTHOR: WILLIAM J ANDRADE, US EPA REGION 1
DOC ID: 42410 07/13/1998 4 PAGES

42. MEMO : SAMPLE RESULTS - VOLATILE ORGANIC ANALYSIS BY GC/MS
TO: CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: JOSEPH MONTANARO, US EPA REGION 1
DOC ID: 42411 07/16/1998 28 PAGES

43. MEMO : SAMPLE RESULTS - VOLATILE ORGANIC ANALYSIS BY GC/MS
TO: CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: JOSEPH MONTANARO, US EPA REGION 1
DOC ID: 42412 07/16/1998 15 PAGES

3.REMEDIAL INVESTIGATION (RI) (cont)

44. MEMO : SAMPLE RESULTS - VOLATILE ORGANIC ANALYSIS BY GC/MS
TO: CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: JOSEPH MONTANARO, US EPA REGION 1
DOC ID: 42413 07/20/1998 19 PAGES

45. MEMO : SAMPLE RESULTS - VOLATILE ORGANIC ANALYSIS BY GC/MS
TO: CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: JOSEPH MONTANARO, US EPA REGION 1
DOC ID: 42414 07/20/1998 14 PAGES

46. MEMO : SAMPLE RESULTS - AQUEOUS TOTAL CYANIDE RESULTS
TO: CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: JANET PAQUIN, US EPA REGION 1
DOC ID: 42415 07/21/1998 4 PAGES

47. MEMO : SAMPLE RESULTS - VOLATILE ORGANIC ANALYSIS BY GC/MS
TO: CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: JOSEPH MONTANARO, US EPA REGION 1
DOC ID: 42416 07/24/1998 20 PAGES

48. MEMO : SAMPLE RESULTS - ANION RESULTS
TO: AGNES VANLANGENHOVE, US EPA REGION 1
CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
AUTHOR: WILLIAM J ANDRADE, US EPA REGION 1
DOC ID: 42417 07/27/1998 4 PAGES

49. MEMO : SAMPLE RESULTS - VOLATILE ORGANIC ANALYSIS BY GC/MS
TO: CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: JOSEPH MONTANARO, US EPA REGION 1
DOC ID: 42418 07/27/1998 10 PAGES

50. MEMO : SAMPLE RESULTS - METALS RESULTS
TO: JOHN R MULLANEY, US DEPT OF THE INTERIOR
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: DANIEL CURRAN, US EPA REGION 1
MICHAEL DOWLING, US EPA REGION 1
DOC ID: 42419 07/28/1998 12 PAGES

3.REMEDIAL INVESTIGATION (RI) (cont)

51. MEMO : SAMPLE RESULTS - ANION RESULTS
TO: AGNES VANLANGENHOVE, US EPA REGION 1
CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
AUTHOR: WILLIAM J ANDRADE, US EPA REGION 1
DOC ID: 42420 07/30/1998 4 PAGES

52. MEMO : SAMPLE RESULTS - AQUEOUS TOTAL CYANIDE RESULTS
TO: CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: SCOTT CLIFFORD, US EPA REGION 1
DOC ID: 42421 08/04/1998 4 PAGES

53. MEMO : SAMPLE RESULTS - VOLATILE ORGANIC ANALYSIS
TO: CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: JOSEPH MONTANARO, US EPA REGION 1
DOC ID: 42422 08/04/1998 20 PAGES

54. MEMO : SAMPLE RESULTS - VOLATILE ORGANIC ANALYSIS BY GC/MS
TO: CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: JOSEPH MONTANARO, US EPA REGION 1
DOC ID: 42423 09/09/1998 16 PAGES

55. MEMO : SAMPLE RESULTS - AQUEOUS TOTAL CYANIDE RESULTS
TO: JOHN R MULLANEY, US DEPT OF THE INTERIOR
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: SCOTT CLIFFORD, US EPA REGION 1
DOC ID: 42424 09/16/1998 3 PAGES

56. MEMO : SAMPLE RESULTS - ANION RESULTS
TO: AGNES VANLANGENHOVE, US EPA REGION 1
CAROLYN PINA-SPRINGER, US EPA REGION 1
JOHN R MULLANEY, US DEPT OF THE INTERIOR
AUTHOR: WILLIAM J ANDRADE, US EPA REGION 1
DOC ID: 42425 09/21/1998 4 PAGES

57. MEMO : SAMPLE RESULTS - METAL RESULTS
TO: JOHN R MULLANEY, US DEPT OF THE INTERIOR
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: MICHAEL DOWLING, US EPA REGION 1
DOC ID: 42426 09/29/1998 7 PAGES

3.REMEDIAL INVESTIGATION (RI) (cont)

58. MEMO : SAMPLE RESULTS - VOLATILE ORGANIC ANALYSIS BY GC/MS
TO: SCOTT CLIFFORD, US EPA REGION 1
WILLIAM J ANDRADE, US EPA REGION 1
AUTHOR: JOSEPH MONTANARO, US EPA REGION 1
WILLIAM J ANDRADE, US EPA REGION 1
DOC ID: 42427 12/10/1998 20 PAGES

59. REPORT: DRAFT FINAL ECOLOGICAL RISK ASSESSMENT
AUTHOR: TETRA TECH NUS INC
DOC ID: 41950 11/01/1999 131 PAGES

60. REPORT: QUALITY ASSURANCE PROJECT PLAN (QAPP)
AUTHOR: TETRA TECH NUS INC
DOC ID: 41945 08/01/2000 179 PAGES

61. LETTER: TIER 2 ORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, CASE 28601, SDG NO. AQD48, LIBERTY ANALYTICAL
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: LINDA TERZIS, TETRA TECH NUS INC
LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27173 11/29/2000 28 PAGES

62. LETTER: TIER 2 ORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, DAS CASE 0180H, SDG D02394-OA, CEIMIC CORP
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27172 12/29/2000 35 PAGES

63. LETTER: TIER 2 ORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, DAS CASE 0180H, SDG NO. D02382-OA, CEIMIC CORP
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: LUCY GUZMAN, TETRA TECH NUS INC
MAUREEN PARKER, TETRA TECH NUS INC
DOC ID: 27171 01/03/2001 33 PAGES

64. LETTER: TIER 2 INORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, CASE 28601, SDG MA0086, LIBERTY ANALYTICAL/COMPUCHEM
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: ANN L FRANKE, TETRA TECH NUS INC
LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27170 01/04/2001 9 PAGES

65. LETTER: TIER 2 INORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, CASE 28601, SDG MA008Q, LIBERTY ANALYTICAL/COMPUCHEM
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: ANN L FRANKE, TETRA TECH NUS INC
LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27169 01/04/2001 8 PAGES

3.REMEDIAL INVESTIGATION (RI) (cont)

66. LETTER: TIER 2 ORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, CASE 28764, SDG NO. A01AL, LIBERTY ANALYTICAL
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: LINDA TERZIS, TETRA TECH NUS INC
LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27168 01/04/2001 12 PAGES

67. LETTER: TIER 2 ORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, CASE 28764, SDG A01A8, LIBERTY ANALYTICAL
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27182 01/10/2001 22 PAGES

68. LETTER: TIER 2 ORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, DAS CASE 0181H, SDG D02308, CEIMIC CORP
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27181 01/12/2001 18 PAGES

69. LETTER: TIER 2 INORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, CASE 28764, SDG MA0093, LIBERTY ANALYTICAL/COMPUCHEM
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: ANN L FRANKE, TETRA TECH NUS INC
LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27179 01/16/2001 9 PAGES

70. LETTER: TIER 2 INORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, CASE 28764, SDG MA00AB, LIBERTY ANALYTICAL/COMPUCHEM
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: ANN L FRANKE, TETRA TECH NUS INC
LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27178 01/16/2001 5 PAGES

71. LETTER: TIER 2 INORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, CASE 28789, SDG MA009C, LIBERTY ANALYTICAL/COMPUCHEM
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: ANN L FRANKE, TETRA TECH NUS INC
LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27180 01/16/2001 5 PAGES

72. LETTER: TIER 2 INORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, CASE 28764, SDG NO. MA00A8, LIBERTY ANALYTICAL
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: LINDA TERZIS, TETRA TECH NUS INC
LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27176 01/22/2001 10 PAGES

73. LETTER: TIER 2 ORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, DAS CASE 0181H, SDG D02431, CEIMIC CORP
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27177 01/23/2001 17 PAGES

3.REMEDIAL INVESTIGATION (RI) (cont)

74. LETTER: TIER 2 INORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, CASE 28789, SDG MA04N1, LIBERTY ANALYTICAL/COMPUCHEM
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: LINDA TERZIS, TETRA TECH NUS INC
LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27174 01/24/2001 7 PAGES

75. LETTER: REVISION, TIER 2 ORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, DAS CASE 0181H, SDG D02431, CEIMIC CORP
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27165 01/25/2001 17 PAGES

76. LETTER: TIER 2 INORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, CASE 28789, SDG MA009B, LIBERTY ANALYTICAL/COMPUCHEM
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: ANN L FRANKE, TETRA TECH NUS INC
LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27166 01/25/2001 10 PAGES

77. LETTER: TIER 2 ORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, CASE 28764, SDG N0.A01AH, COMPUCHEM/LIBERTY ANALYTICAL
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: LUCY GUZMAN, TETRA TECH NUS INC
MAUREEN PARKER, TETRA TECH NUS INC
DOC ID: 27175 01/25/2001 17 PAGES

78. LETTER: TIER 2 INORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, DAS CASE 0180H, SDG D02394-1A, CEIMIC CORP
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: ANN L FRANKE, TETRA TECH NUS INC
LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27156 01/30/2001 16 PAGES

79. LETTER: TIER 2 INORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, CASE 28789, SDG MA03YO, LIBERTY ANALYTICAL/COMPUCHEM
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: ANN L FRANKE, TETRA TECH NUS INC
LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27167 01/31/2001 8 PAGES

80. LETTER: TIER 2 ORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, CASE 28764, SDG A01AH, COMPUCHEM/LIBERTY ANALYTICAL
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: LUCY GUZMAN, TETRA TECH NUS INC
MAUREEN PARKER, TETRA TECH NUS INC
DOC ID: 27157 02/06/2001 4 PAGES

3.REMEDIAL INVESTIGATION (RI) (cont)

81. LETTER: TIER 2 INORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, DAS CASE 0180H, SDG D02382-1A, CEIMIC CORP
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: LINDA TERZIS, TETRA TECH NUS INC
LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27158 02/07/2001 14 PAGES

82. LETTER: TIER 1 DATA VALIDATION, W.A. NO. 001-RICO-0198, DAS CASE 0180H, SDG D02382-1B, CEIMIC CORP
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: LINDA TERZIS, TETRA TECH NUS INC
LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27153 02/08/2001 7 PAGES

83. LETTER: TIER 1 DATA VALIDATION, W.A. NO. 001-RICO-0198, DAS CASE 0180H, SDG D02394-1B, CEIMIC CORP
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: LINDA TERZIS, TETRA TECH NUS INC
LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27154 02/08/2001 18 PAGES

84. LETTER: TIER 2 ORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, DAS CASE 0181H, SDG D02328, CEIMIC CORP
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: LINDA TERZIS, TETRA TECH NUS INC
LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27155 02/09/2001 20 PAGES

85. LETTER: TIER 2 INORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, CASE 28893, SDG MA04X1, LIBERTY ANALYTICAL/COMPUCHEM
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: ANN L FRANKE, TETRA TECH NUS INC
LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27152 02/24/2001 11 PAGES

86. LETTER: TIER 2 INORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, CASE 28893, SDG MA04Z1, LIBERTY ANALYTICAL/COMPUCHEM
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: ANN L FRANKE, TETRA TECH NUS INC
LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27151 02/28/2001 8 PAGES

87. LETTER: TIER 2 ORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, CASE 28789, SDG A00PX, SOUTHWEST LABORATORIES OF OKLAHOMA
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: LUCY GUZMAN, TETRA TECH NUS INC
PAULA L DIMATTEI, TETRA TECH NUS INC
DOC ID: 27148 03/08/2001 37 PAGES

3.REMEDIAL INVESTIGATION (RI) (cont)

88. LETTER: TIER 2 ORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, CASE 28789, SDG A00Q2, SOUTHWEST LABORATORIES OF OKLAHOMA
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: LUCY GUZMAN, TETRA TECH NUS INC
PAULA L DIMATTEI, TETRA TECH NUS INC
DOC ID: 27147 03/08/2001 33 PAGES

89. LETTER: TIER 2 ORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, CASE 28893, SDG A0570, MITKEM CORP
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: LINDA TERZIS, TETRA TECH NUS INC
LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27150 03/09/2001 18 PAGES

90. LETTER: TIER 2 ORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, DAS CASE 0181H, SDG D02411, CEIMIC CORP
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: LINDA TERZIS, TETRA TECH NUS INC
LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27149 03/09/2001 18 PAGES

91. LETTER: TIER 2 ORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, CASE 28789, SDG A00QN, SOUTHWEST LABORATORIES OF OKLAHOMA
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: LINDA TERZIS, TETRA TECH NUS INC
LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27164 03/20/2001 25 PAGES

92. LETTER: TIER 2 ORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, CASE 28893, SDG A0554, MITKEM CORP
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: LUCY GUZMAN, TETRA TECH NUS INC
MAUREEN PARKER, TETRA TECH NUS INC
DOC ID: 27163 03/22/2001 33 PAGES

93. LETTER: TIER 2 ORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, DAS CASE 0181H, SDG D02328, CEIMIC CORP
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: LUCY GUZMAN, TETRA TECH NUS INC
MAUREEN PARKER, TETRA TECH NUS INC
DOC ID: 27162 03/30/2001 19 PAGES

94. LETTER: TIER 2 ORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, CASE 29426, SDG A 0488, MITKEM CORP
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: DAN WIELANDT, TETRA TECH NUS INC
LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27146 08/17/2001 28 PAGES

3.REMEDIAL INVESTIGATION (RI) (cont)

95. LETTER: TIER 2 ORGANIC DATA VALIDATION, W.A. NO. 001-RICO-0198, CASE 29426, SDG A0468, MITKEM CORP
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: LINDA TERZIS, TETRA TECH NUS INC
LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27159 09/06/2001 18 PAGES

96. LETTER: TIER 2 INORGANIC DATA VALIDATION, W.A. NO. 107-RICO-0198, CASE 29426, SDG MA04R6, MITKEM CORP
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: ANN L FRANKE, TETRA TECH NUS INC
LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27183 09/26/2001 11 PAGES

97. LETTER: TIER 2 INORGANIC DATA VALIDATION, W.A. NO. 107-RICO-0198, CASE 29426, SDG MA04T6, MITKEM CORP
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: ANN L FRANKE, TETRA TECH NUS INC
LUCY GUZMAN, TETRA TECH NUS INC
DOC ID: 27161 09/27/2001 6 PAGES

98. REPORT: FINAL DRAFT DATA EVALUATION REPORT
AUTHOR: TETRA TECH NUS INC
DOC ID: 41947 02/01/2002 281 PAGES

99. REPORT: FINAL DRAFT DATA EVALUATION REPORT (PART 2, APPENDICES E-I)
AUTHOR: TETRA TECH NUS INC
DOC ID: 41948 02/01/2002 600 PAGES

100. REPORT: DRAFT FINAL HUMAN HEALTH RISK ASSESSMENT, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS)
AUTHOR: TETRA TECH NUS INC
US EPA REGION 1
DOC ID: 208881 03/01/2002 279 PAGES

101. REPORT: QUALITY ASSURANCE PROJECT PLAN (QAPP) ADDENDUM
AUTHOR: TETRA TECH NUS INC
DOC ID: 41946 07/16/2002 624 PAGES

102. REPORT: TIER II INORGANIC DATA VALIDATION
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: TETRA TECH NUS INC
DOC ID: 42429 08/15/2002 8 PAGES

103. REPORT: TIER II INORGANIC DATA VALIDATION
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: TETRA TECH NUS INC
DOC ID: 41977 08/26/2002 13 PAGES

3.REMEDIAL INVESTIGATION (RI) (cont)

104. REPORT: TIER II INORGANIC DATA VALIDATION
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: TETRA TECH NUS INC
DOC ID: 42428 08/26/2002 7 PAGES

105. REPORT: TIER II INORGANIC DATA VALIDATION
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: TETRA TECH NUS INC
DOC ID: 42430 08/29/2002 29 PAGES

106. REPORT: TIER II INORGANIC DATA VALIDATION
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: TETRA TECH NUS INC
DOC ID: 42431 09/05/2002 9 PAGES

107. REPORT: TIER II INORGANIC DATA VALIDATION
TO: CHRISTINE CLARK, US EPA REGION 1
AUTHOR: TETRA TECH NUS INC
DOC ID: 42432 09/09/2002 28 PAGES

108. REPORT: DRAFT DATA EVALUATION ADDENDUM
TO: US EPA REGION 1
AUTHOR: TETRA TECH NUS INC
DOC ID: 201248 12/01/2002 35 PAGES

109. MAP : BEDROCK WELL WATER LEVEL POTENTIOMETRIC SURFACE - FIGURE 1
AUTHOR: TETRA TECH NUS INC
DOC ID: 208880 02/17/2004 1 PAGE

110. MAP : WATER TABLE CONTOUR MAP - 2004
AUTHOR: TETRA TECH NUS INC
DOC ID: 208877 02/17/2004 1 PAGE

111. MEMO : EVALUATION OF GROUNDWATER MONITORING DATA MW-96
TO: DEBORAH CHISHOLM
AUTHOR: MICHAEL HEALEY, TETRA TECH NUS INC
DOC ID: 208879 02/18/2004 71 PAGES

112. MEMO : REASSESSMENT OF HUMAN-HEALTH RISK
AUTHOR: KAREN LUMINO, US EPA REGION 1
DOC ID: 208878 06/03/2004 7 PAGES

4. FEASIBILITY STUDY (FS)

1. FACT SHEET: PROPOSED PLAN - EPA PROPOSED NO FURTHER ACTION AT SITE
AUTHOR: US EPA REGION 1
DOC ID: 213044 06/01/2004 12 PAGES

2. REPORT: FINAL GROUNDWATER USE AND VALUE DETERMINATION (TRANSMITTAL LETTER DATED 6/28/04 IS ATTACHED)
DOC ID: 65230 06/25/2004 20 PAGES

5. RECORD OF DECISION (ROD)

1. LETTER: COMMENTS ON PROPOSED PLAN
   TO: KAREN M LUMINO, US EPA REGION 1
   AUTHOR: DAN MORRONE, GARDEN APARTMENT WEST INC
   DOC ID: 213042 07/14/2004 2 PAGES

2. FORM : COMMENTS ON PROPOSED PLAN
   TO: KAREN M LUMINO, US EPA REGION 1
   AUTHOR: JEAN H WATSON, WOLCOTT (CT) RESIDENT
   DOC ID: 213041 07/22/2004 2 PAGES

3. FORM : COMMENTS ON PROPOSED PLAN
   TO: KAREN M LUMINO, US EPA REGION 1
   AUTHOR: FREDERICK L NAGLE JR
   DOC ID: 213043 07/26/2004 2 PAGES

4. FORM : COMMENTS ON PROPOSED PLAN
   TO: KAREN M LUMINO, US EPA REGION 1
   AUTHOR: MARY GRETCHEN IORIO
   DOC ID: 213040 08/02/2004 3 PAGES

5. PUBLIC MEETING RECORD: PUBLIC HEARING REGARDING SITE
   DOC ID: 213045 08/05/2004 11 PAGES

6. RECORD OF DECISION: RECORD OF DECISION (ROD)
   AUTHOR: US EPA REGION 1
   DOC ID: 213046 09/2004

10. ENFORCEMENT/NEGOTIATION

1. LITIGATION: ORDER BETWEEN WATERBURY HEAT TREATING INC AND THE COMMISSIONER OF ENVIRONMENTAL PROTECTION
   AUTHOR: CT DEPT OF ENVIRONMENTAL PROTECTION
   DOC ID: 19299 2 PAGES

2. LITIGATION: ORDER TO HIGHLAND MANUFACTURING COMPANY TO ABATE POLLUTION
   AUTHOR: EDWARD J MCDONOUGH, CT DEPT OF ENVIRONMENTAL PROTECTION
   DOC ID: 19254 06/21/1971 1 PAGE

3. LITIGATION: ORDER TO HIGHLAND MANUFACTURING COMPANY TO ABATE POLLUTION
   AUTHOR: EDWARD J MCDONOUGH, CT DEPT OF ENVIRONMENTAL PROTECTION
   DOC ID: 19255 09/20/1971 1 PAGE

4. LITIGATION: ORDER TO HIGHLAND MANUFACTURING COMPANY TO ABATE POLLUTION
   AUTHOR: EDWARD J MCDONOUGH, CT DEPT OF ENVIRONMENTAL PROTECTION
   DOC ID: 19253 09/21/1971 1 PAGE

5. LITIGATION: ORDER TO HIGHLAND MANUFACTURING COMPANY TO ABATE POLLUTION
   AUTHOR: ROBERT B TAYLOR, CT DEPT OF ENVIRONMENTAL PROTECTION
   DOC ID: 19256 11/19/1973 1 PAGE

10.ENFORCEMENT/NEGOTIATION (cont)

6. LITIGATION: CONSENT ORDER BETWEEN CELINDA W. MAYO AND THE COMMISSIONER OF ENVIRONMENTAL PROTECTION
TO: CELINDA W MAYO, WATERBURY HEAT TREATING INC
AUTHOR: STANLEY J PAC, CT DEPT OF ENVIRONMENTAL PROTECTION
DOC ID: 19293 07/15/1986 3 PAGES

7. LITIGATION: ORDER TO WATERBURY HEAT TREATING INC TO ABATE POLLUTION
TO: ROGER PELLETIER, WATERBURY HEAT TREATING INC
AUTHOR: STANLEY J PAC, CT DEPT OF ENVIRONMENTAL PROTECTION
DOC ID: 19296 11/06/1986 2 PAGES

8. CONTRACT: CONSENT ORDER
AUTHOR: STATE OF CONNECTICUT DEPT OF ENVIRONMENTAL PROTECTION
DOC ID: 41970 10/12/1994 5 PAGES

9. CONTRACT: CONSENT ORDER MODIFICATION
AUTHOR: STATE OF CONNECTICUT DEPT OF ENVIRONMENTAL PROTECTION
DOC ID: 41965 12/24/1996 1 PAGE

10. CONTRACT: TOWN OF WOLCOTT GROUNDWATER ORDINANCE
AUTHOR: ELAINE KING, WOLCOTT (CT), TOWN OF
GEORGE BABCOCK, WOLCOTT (CT), TOWN OF
THOMAS G DUNN, WOLCOTT (CT), TOWN OF
DOC ID: 208876 05/06/2004 5 PAGES

13. COMMUNITY RELATIONS

1. FACT SHEET: EXHIBIT 3 - THE SUPERFUND PROCESS
AUTHOR: US EPA
DOC ID: 19847 1 PAGE

2. FACT SHEET: GROUNDWATER CONTAMINATION AREA IN WOLCOTT AND WATERBURY, CONNECTICUT, DESCRIBED IN NEW USGS REPORT
AUTHOR: US DOI/US GEOLOGICAL SURVEY
DOC ID: 21353 1 PAGE

3. FACT SHEET: SITE DESCRIPTION AND REFERENCES FOR HAZARD RANKING SYSTEM (HRS) DOCUMENTATION
AUTHOR: US EPA
DOC ID: 19844 08/29/1986 3 PAGES

4. FACT SHEET: PUBLIC INVOLVEMENT IN THE SUPERFUND PROGRAM
AUTHOR: US EPA
DOC ID: 19850 01/01/1987 4 PAGES

5. FACT SHEET: SUPERFUND
AUTHOR: US EPA
DOC ID: 19848 01/01/1987 2 PAGES

13.COMMUNITY RELATIONS (cont)

6. PRESS RELEASE: ENVIRONMENTAL NEWS: NUTMEG VALLEY ROAD PROPOSED TO NATIONAL PRIORITY LIST
AUTHOR: US EPA REGION 1
DOC ID: 19610 01/23/1987 2 PAGES

7. FACT SHEET: STATE AND LOCAL INVOLVEMENT IN THE SUPERFUND PROGRAM
AUTHOR: US EPA
DOC ID: 19849 01/01/1988 4 PAGES

8. FACT SHEET: SITE DESCRIPTION, ADJUSTED NARRATIVE
AUTHOR: US EPA
DOC ID: 19846 03/01/1989 1 PAGE

9. FACT SHEET: SITE DESCRIPTION
AUTHOR: US EPA REGION 1
DOC ID: 19842 03/01/1990 1 PAGE

10. LETTER: LEGAL NOTICE TO BE INSERTED IN NEWSPAPER (07/18/91 TRANSMITTAL MEMO IS ATTACHED)
TO: WATERBURY REPUBLICAN AMERICAN
AUTHOR: SUSAN YURASEVECZ, CT DEPT OF PUBLIC HEALTH
DOC ID: 19588 07/16/1991 3 PAGES

11. LETTER: PACKET OF LETTERS TO WOLCOTT, CT HOMEOWNERS
TO: ALFREDA FRANKOWSKI, WOLCOTT (CT) HOMEOWNER
ANNABELLE B LYONS, WOLCOTT (CT) HOMEOWNER
ANNE E CIANCI, WOLCOTT (CT) RESIDENT
ANNE MARIE SANTORO, WOLCOTT (CT) RESIDENT
ANTHONY CIANCI, WOLCOTT (CT) RESIDENT
ANTHONY DESANTIS, WOLCOTT (CT) RESIDENT
BEATRICE C PUZZO, WOLCOTT (CT) RESIDENT
BEATRICE R DIMASSO, WOLCOTT (CT) RESIDENT
BERNICE A LAMBERT, WOLCOTT (CT) RESIDENT
BRYAN T KOVZELOVE, WOLCOTT (CT) RESIDENT
CAMELLA HENEBERG, WOLCOTT (CT) RESIDENT
CAROL J PRESLOPSKY, WOLCOTT (CT) RESIDENT
CELESTE M SHANNON, WOLCOTT (CT) RESIDENT
CELINDA J W MAYO, WOLCOTT (CT) RESIDENT
CLAIRE C BISAILLON, WOLCOTT (CT) RESIDENT
DAVID C SANTORO, WOLCOTT (CT) RESIDENT
DEBORAH T KILDAY, WOLCOTT (CT) RESIDENT
DIANA S DAGATA, WOLCOTT (CT) RESIDENT
DONNA BUTLER, WOLCOTT (CT) RESIDENT
ELIZABETH M TARASKEWICH, WOLCOTT (CT) RESIDENT
ELIZABETH MURPHY, WOLCOTT (CT) RESIDENT
FLORENCE W MORRILL, WOLCOTT (CT) HOMEOWNER
FONDA A CARMODY, WOLCOTT (CT) RESIDENT
GERARD R LAFRENIERE, WOLCOTT (CT) RESIDENT
HARRY KALOIDES, WOLCOTT (CT) RESIDENT
JAMES H WATSON, WOLCOTT (CT) RESIDENT
JAN FRANKOWSKI, WOLCOTT (CT) HOMEOWNER
JEAN H WATSON, WOLCOTT (CT) RESIDENT
JEAN M MONIDE, WOLCOTT (CT) RESIDENT

13.COMMUNITY RELATIONS (cont)

JOAN W MONROE, WOLCOTT (CT) HOMEOWNER
JOANNE P SPINO, WOLCOTT (CT) RESIDENT
JOHN B WAKELEE, WOLCOTT (CT) HOMEOWNER
JOHN J DAGATA, WOLCOTT (CT) RESIDENT
JOSEPH C DIMASSO, WOLCOTT (CT) RESIDENT
JOSEPH M RICHARDS, WOLCOTT (CT) RESIDENT
JUDITH A LAFRENIERE, WOLCOTT (CT) RESIDENT
KATHLEEN M KOVZELOVE, WOLCOTT (CT) RESIDENT
LEO A BISAILLON, WOLCOTT (CT) RESIDENT
LILLIAN BALDASSARI, WOLCOTT (CT) RESIDENT
LYNDA KALOIDES, WOLCOTT (CT) RESIDENT
MARGARET M DESANTIS, WOLCOTT (CT) RESIDENT
MARIE T VAISKAUSKAS, WOLCOTT (CT) HOMEOWNER
MARK F MURPHY, WOLCOTT (CT) RESIDENT
MICHAEL L KILDAY, WOLCOTT (CT) RESIDENT
MICHELLE RICHARDS, WOLCOTT (CT) RESIDENT
NANCY A JENKINS, WOLCOTT (CT) RESIDENT
PATRICK M CARMODY, WOLCOTT (CT) RESIDENT
PAUL A LAMBERT, WOLCOTT (CT) RESIDENT
PAUL PUZZO, WOLCOTT (CT) RESIDENT
RAYMOND J DOLLINGER, WOLCOTT (CT) RESIDENT
RICHARD L BUTLER, WOLCOTT (CT) RESIDENT
ROBERT C WAKELEES, WOLCOTT (CT) RESIDENT
ROBERT J SPINO, WOLCOTT (CT) RESIDENT
TOMASZ FRANKOWSKI, WOLCOTT (CT) HOMEOWNER
WILLIAM E JENKINS, WOLCOTT (CT) RESIDENT

AUTHOR: LINDA M MURPHY, US EPA REGION 1
DOC ID: 19565 10/10/1995 58 PAGES

12. LETTER: PACKET OF LETTERS TO WOLCOTT, CT PROPERTY OWNERS
TO: BRIAN P BORGHESI, WOLCOTT (CT) PROPERTY OWNER
CLAUDIA DISTASID, WOLCOTT (CT) PROPERTY OWNER
JAMES J JANNETTY, WOLCOTT (CT) PROPERTY OWNER
MICHAEL T JANNETTY, WOLCOTT (CT) PROPERTY OWNER
PASQUALE CUGLIARI, WOLCOTT (CT) PROPERTY OWNER
AUTHOR: LINDA M MURPHY, US EPA REGION 1
DOC ID: 19581 10/10/1995 6 PAGES

13. LETTER: PACKET OF LETTERS TO WOLCOTT, CT HOMEOWNERS
TO: BRIAN E KOVZELOVE, WOLCOTT (CT) HOMEOWNER
BRYAN T KOVZELOVE, WOLCOTT (CT) RESIDENT
KATHLEEN M KOVZELOVE, WOLCOTT (CT) RESIDENT
PAMELA J KOVZELOVE, WOLCOTT (CT) HOMEOWNER
AUTHOR: LINDA M MURPHY, US EPA REGION 1
DOC ID: 19584 10/11/1995 2 PAGES

13.COMMUNITY RELATIONS (cont)

14. LETTER: PACKET OF COMFORT LETTERS
TO: ALPINE ELECTRONIC COMPONENTS INC
ANTHONY S MOFFO, WOLCOTT (CT) PROPERTY OWNER
BARRATT TOOL CO INC
BERNICE ZAPPONE, WOLCOTT (CT) PROPERTY OWNER
BERTHA M SENDZIMIR, WOLCOTT (CT) PROPERTY OWNER
BUELL INDUSTRIES INC
CATHERINE A SPENCER, WOLCOTT (CT) PROPERTY OWNER
CHRISTOPHER ROWLAND, WOLCOTT (CT) PROPERTY OWNER
DANIEL J MENNILLO, COILS PLUS
DANIEL W FERRARO, WOLCOTT (CT) PROPERTY OWNER
DAVID J LABONTY, WOLCOTT (CT) RESIDENT
ELAINE MOFFO, WOLCOTT (CT) PROPERTY OWNER
ELLSWORTH P SERAFINE, WOLCOTT (CT) PROPERTY OWNER
JOANNE DIDOMIZIO, WOLCOTT (CT) PROPERTY OWNER
JOHN ANCHEFF, WOLCOTT (CT) PROPERTY OWNER
JOHN CHIARELLA, WOLCOTT (CT) PROPERTY OWNER
JOHN HYCHKO, WOLCOTT (CT) PROPERTY OWNER
JOHN J HOBAN, WOLCOTT (CT) PROPERTY OWNER
JOHN T GARTHWAIT, WOLCOTT (CT) PROPERTY OWNER
JOSEPH W GARTHWAIT, WOLCOTT (CT) PROPERTY OWNER
LOUIS ALBERT, WOLCOTT (CT) PROPERTY OWNER
MARIA LORUSSO, WOLCOTT (CT) PROPERTY OWNER
MARJORIE R DRUBNER, WOLCOTT (CT) PROPERTY OWNER
MICHAEL D MENNILLO, COILS PLUS
NATIONAL DIE CO INC
NUTMEG SCREW MACHINE PRODUCTS
PATSY FLAMMIA, WOLCOTT (CT) RESIDENT
PERRY L NEWSOME, WOLCOTT (CT) PROPERTY OWNER
RAYMOND BEDARD, WOLCOTT (CT) PROPERTY OWNER
RAYMOND J DOLLINGER, WOLCOTT (CT) RESIDENT
RICHARDS METAL PRODUCTS
ROBERT C WAKELEES, WOLCOTT (CT) RESIDENT
ROGER LEVESQUE, WOLCOTT (CT) RESIDENT
ROLAND B VICEDOMINI, WOLCOTT (CT) PROPERTY OWNER
THEODORE IORIO, WOLCOTT (CT) PROPERTY OWNER
THOMAS DIDOMIZIO, WOLCOTT (CT) PROPERTY OWNER
THOMAS GIANNI, NUTMEG VALLEY ASSOCIATES
THOMAS J BRUNDAGE, WOLCOTT (CT) RESIDENT
AUTHOR: LINDA M MURPHY, US EPA REGION 1
DOC ID: 19929 12/01/1995 104 PAGES

15. FACT SHEET: SUPERFUND PROGRAM FACTSHEET
AUTHOR: US EPA REGION 1
DOC ID: 41963 03/01/1996 2 PAGES

16. FACT SHEET: DECEMBER 1998 EPA FACT SHEET, NUTMEG VALLEY ROAD SUPERFUND SITE
AUTHOR: US EPA REGION 1
DOC ID: 21350 12/01/1998 1 PAGE

13.COMMUNITY RELATIONS (cont)

17. FACT SHEET: JUNE 1999 EPA FACT SHEET, NUTMEG VALLEY ROAD SUPERFUND SITE
AUTHOR: US EPA REGION 1
DOC ID: 21352 06/01/1999 2 PAGES

18. LETTER: LETTER TO MAYOR DENEGRIS
TO: MICHAEL DENEGRIS, MAYOR OF WOLCOTT
AUTHOR: KAREN LUMINO, US EPA REGION 1
DOC ID: 41976 12/21/2000 32 PAGES

19. FACT SHEET: EPA FACTSHEET ON NUTMEG VALLEY SUPERFUND SITE
AUTHOR: US EPA
DOC ID: 33605 07/09/2002 3 PAGES

17. SITE MANAGEMENT RECORDS

1. MAP : TWO MAPS WITH OVERLAYS - FIGURE 1: LOCATION MAP, AND FIGURE 2A: LAND USE AND DRAINAGE
DOC ID: 20084 1 PAGE

2. SAMPLING & ANALYSIS DATA: REPORTS OF SOIL ANALYSIS RELATED TO CLOSURE
DOC ID: 19524 17 PAGES

3. PHOTOGRAPH: AERIAL PHOTOGRAPH WITH OVERLAY - FIGURE 3
DOC ID: 20085 08/02/1951 1 PAGE

4. PHOTOGRAPH: AERIAL PHOTOGRAPH WITH OVERLAY - FIGURE 4
DOC ID: 20086 07/06/1963 1 PAGE

5. PHOTOGRAPH: AERIAL PHOTOGRAPH WITH OVERLAY - FIGURE 5
DOC ID: 20087 03/09/1970 1 PAGE

6. PHOTOGRAPH: AERIAL PHOTOGRAPH WITH OVERLAY - FIGURE 6
DOC ID: 20088 04/03/1980 1 PAGE

7. LETTER: TRANSMITTAL OF QUESTIONNAIRE TO BE FILLED OUT BY WOLCOTT WELL OWNERS (QUESTIONNARE IS ATTACHED)
TO: WOLCOTT (CT) WELL OWNER
AUTHOR: ELLEN Z HARRISON, CT DEPT OF ENVIRONMENTAL PROTECTION
DOC ID: 19499 04/01/1981 2 PAGES

8. MEMO : PRESENT STATUS OF INVESTIGATION OF PRIVATE WELL CONTAMINATIONS IN WOLCOTT
TO: RICHARD S WOODHULL, CT DEPT OF HEALTH SERVICES
AUTHOR: ROBERT J GRABAREK, CT DEPT OF HEALTH SERVICES
DOC ID: 19501 05/29/1981 5 PAGES

9. LETTER: NORTH END DISPOSAL AREA SEMI-ANNUAL REPORT AND MONITORING PROGRAM QUARTERLY REPORT (11/01/87 TRANSMITTAL IS ATTACHED)
TO: WATERBURY (CT) CITY OF
AUTHOR: DONALD L SMITH, ROALD HAESTAD INC
DOC ID: 19536 07/31/1984 19 PAGES

17.SITE MANAGEMENT RECORDS (cont)

10. SAMPLING & ANALYSIS DATA: SAMPLE INVOICES AND LABORATORY RESULTS FOR GROUNDWATER
AUTHOR: CT DEPT OF HEALTH SERVICES
DOC ID: 19522 12/06/1984 20 PAGES

11. REPORT: SELECTED PAGES FROM THE CHESPROCOTT HEALTH DISTRICT WATER SUPPLY STUDY
AUTHOR: LORRAINE DENICOLA, CHESPROCOTT HEALTH DISTRICT
DOC ID: 20092 04/01/1985 10 PAGES

12. SAMPLING & ANALYSIS DATA: RESULTS OF WOLCOTT WATER STUDY
AUTHOR: ENVIRONMENTAL MONITORING SYSTEMS LAB
DOC ID: 19525 09/25/1985 1 PAGE

13. PHOTOGRAPH: AERIAL PHOTOGRAPH
AUTHOR: CT DEPT OF ENVIRONMENTAL PROTECTION
DOC ID: 20090 03/29/1986 1 PAGE

14. PHOTOGRAPH: AERIAL PHOTOGRAPH WITH OVERLAY - FIGURE 7
DOC ID: 20089 03/29/1986 1 PAGE

15. REPORT: NORTH END DISPOSAL AREA MONITORING PROGRAM ANNUAL REPORT (09/24/87 TRANSMITTAL MEMO IS ATTACHED)
TO: WATERBURY (CT) CITY OF
AUTHOR: DONALD L SMITH, ROALD HAESTAD INC
DOC ID: 19526 09/30/1986 27 PAGES

16. SAMPLING & ANALYSIS DATA: ANALYSIS OF SAMPLES RECEIVED FOR NORTH END DISPOSAL AREA AND HEADWALL
TO: DONALD L SMITH, ROALD HAESTAD INC
DOC ID: 19528 04/14/1987 1 PAGE

17. LETTER: REPORTS ON NORTH END DISPOSAL AREA SAMPLES
TO: DONALD L SMITH, ROALD HAESTAD INC
AUTHOR: THOMAS D LEE, NEWLANDS SANITARY LABORATORY
DOC ID: 19530 04/30/1987 3 PAGES

18. LETTER: NORTH END DISPOSAL AREA MONITORING PROGRAM QUARTERLY REPORT
TO: WATERBURY (CT) CITY OF
AUTHOR: DONALD L SMITH, ROALD HAESTAD INC
DOC ID: 19534 05/14/1987 11 PAGES

19. REPORT: EPIC SITE ANALYSIS INTERIM REPORT [TEXT ONLY]
AUTHOR: US EPA - ENVIRONMENTAL PHOTOGRAPHIC INTERPRETATION CTR (EPIC)
DOC ID: 19457 02/01/1988 19 PAGES

20. REPORT: THOMAS GIANNI & SONS INC SITE ASSESSMENT REPORT
AUTHOR: HRP ASSOCIATES INC
DOC ID: 41954 11/14/1988 226 PAGES

17.SITE MANAGEMENT RECORDS (cont)

21. MEMO : SLUDGE, SOIL AND GROUNDWATER SAMPLING ANALYTICAL RESULTS
TO: JAMES KIRKPATRICK, ROY F WESTON
AUTHOR: CHRISTINE ATKINSON, CT DEPT OF ENVIRONMENTAL PROTECTION
DOC ID: 19541 03/07/1990 13 PAGES

22. LETTER: DATABASE OF RANDOM SAMPLES TAKEN AT THE NUTMEG VALLEY SITE
TO: MARTYN B CLEMENTS, US EPA REGION 1
AUTHOR: SUSAN YURASEVECZ, CT DEPT OF PUBLIC HEALTH
DOC ID: 19542 03/12/1991 15 PAGES

23. LETTER: WELL MONITORING TEST RESULTS
TO: LOU RICHARDS, RICHARDS METAL PRODUCTS
AUTHOR: DONALD L SMITH, ROALD HAESTAD INC
DOC ID: 19546 05/01/1991 1 PAGE

24. LETTER: NUTMEG VALLEY ROAD WELL WATER SURVEY, VOLATILE ORGANIC COMPOUNDS, 8/7/91 - 10/9/91
TO: MARTYN B CLEMENTS, US EPA REGION 1
AUTHOR: PATRICK ACCARDI, CHESPROCOTT HEALTH DISTRICT
DOC ID: 19509 10/24/1991 6 PAGES

25. LETTER: REPORT OF ADDITIONAL SITE INVESTIGATION (WITH ATTACHMENTS)
TO: ANTHONY GAETANO, C & A TECHNOLOGY INC
AUTHOR: L ANDREW WHITE, HRP ASSOCIATES INC
ROBERT W SIMMONS, HRP ASSOCIATES INC
DOC ID: 19212 02/08/1996 50 PAGES

26. REPORT: QUARTERLY OPERATIONS AND WATER QUALITY MONITORING REPORT, WATERBURY NORTH END DISPOSAL AREA, WATERBURY CONNECTICUT
AUTHOR: FUSS & ONEILL INC
DOC ID: 41952 05/06/1998 63 PAGES

27. LETTER: SUMMARY OF INVESTIGATION RESULTS
TO: STATE OF CONNECTICUT DEPT OF ENVIRONMENTAL PROTECTION
AUTHOR: BRIAN A CUTLER, LOUREIRO ENGINEERING ASSOCIATES INC
DOC ID: 41973 11/02/2000 38 PAGES

28. LETTER: LETTER REGARDING REVIEW OF CONCEPTUAL SITE MODEL REPORT FOR HIGHLAND MANUFACTURING CO
TO: ROBERT HANK, ILLINOIS TOOL WORKS INC
AUTHOR: MAURICE HAMEL, CT DEPT OF ENVIRONMENTAL PROTECTION
DOC ID: 65231 08/14/2003 1 PAGE

20. RECORDS MANAGEMENT

1. LIST : LIST OF GUIDANCE DOCUMENTS FOR NUTMEG VALLEY ROAD REMEDIAL ADMINISTRATIVE RECORD FILE
DOC ID: 65232 06/30/2004 1 PAGE

20.RECORDS MANAGEMENT (cont)

2. LETTER: TRANSMITTAL LETTER TO FIELD REPOSITORY FOR NUTMEG VALLEY REMEDIAL ADMINISTRATIVE RECORD FILE
TO: WOLCOTT PUBLIC LIBRARY
AUTHOR: HOLLY INGLIS, US EPA REGION 1
DOC ID: 65234 07/02/2004 1 PAGE

APPENDIX G

TOWN OF WOLCOTT GROUNDWATER ORDINANCE #87

ORDINANCE
Filed MAY 6, 2004 #87

TOWN OF WOLCOTT
GROUNDWATER ORDINANCE

I. Title

This Ordinance shall be known and be cited as the Groundwater Ordinance of the Town of Wolcott.

II. Purpose

The purpose of this Ordinance is to protect the health, safety and general welfare of the residents of Wolcott by identifying an Institutional Control Zone ("ICZ") and prohibiting the extraction, consumption or utilization of groundwater from land located within the ICZ so as to prevent public exposure to contaminated groundwater. The boundaries of the ICZ are set forth on Figure 1 attached hereto.

III. Scope and Authority

Within the boundaries of the ICZ, comprised as set forth in this Ordinance, no groundwater shall be extracted, consumed or utilized from the ground. This Ordinance shall apply to such areas notwithstanding the provisions of any other Town ordinance previously adopted.

IV. Definition

Groundwater: All the water found beneath the surface of the ground. In this Ordinance the term "groundwater" also refers to the slowly moving subsurface water present in aquifers and recharge areas.

V. Regulations

For the purpose of this Ordinance, there is hereby established within the Town of Wolcott a certain ICZ area.

VI. Area Affected

The particular properties contained within the initial ICZ are located on or adjacent to Wolcott Road, Town Line Road and Nutmeg Valley Road and are identified as follows:

#64 Wolcott Road, n/f owned by National Die Company, Inc., P.O. Box 6281, Wolcott, Connecticut 06716, Assessors Map Plate No. 109, Lot #69 (including adjacent triangular shaped parcel), Unique ID# N0404400

#84 Wolcott Road, n/f owned by Anthony S. Moffo, 61 Kalko Drive, Wolcott, Connecticut 06716, Assessors Map Plate No. 109, Lot #32 and 3A, Unique ID# M0386800

#17 Town Line Road, n/f owned by Dolores Riollano, Trustee of The Joseph M. Macary Trust, 9 Oakdale Avenue, Waterbury, Connecticut 06708, Assessors Map Plate No. 109, Lot #76A and Lot #76B and part of Lot #76 (including adjacent triangular shaped parcels), Unique ID# M0340800

Nutmeg Valley Road, n/f owned by Stanley Sendzimir c/o Jones, Foster and Johnson, P.O. Box 3475, West Palm Beach, Florida 33402, and Jan Peter and The Vanda Sendzimir Revocable Trust c/o Robert B. Needham, Trustee, 5 Forbes Lane, Andover, MA 01810 (Vacant Land) Assessors Map Plate No. 109, Lot #67-76, Unique ID# S0503900

#1 Nutmeg Valley Road, n/f owned by Thomas A. Gianni, Jr. and Carmen Gianni d/b/a Nutmeg Valley Associates, 1 Nutmeg Valley Road, Wolcott, Connecticut 06716, Assessors Map Plate No. 109, Lot #33, Unique ID# G0214400

#9 Nutmeg Valley Road, n/f owned by Barney H. Newsome, 178 Scott Road, Prospect, Connecticut 06712, Assessors Map Plate No. 109, Lot #34A, Unique ID# N0406100

Nutmeg Valley Road, n/f owned by Theodore Iorio, 15 Nutmeg Valley Road, Wolcott, Connecticut 06716, Assessors Map Plate No. 109, Lot #35, Unique ID# I0264300

#15 Nutmeg Valley Road, n/f owned by Nutmeg Screw Machine Products, Inc., P.O. Box 1470, Waterbury, CT 06720, Assessors Map Plate No. 109, Lot #34, Unique ID# N0410300

The referenced assessors maps are on file at the Office of the Assessor of the Town of Wolcott and are those bearing the following identification (as amended through the date of adoption of this Ordinance):

"Property Maps of the Town of Wolcott, Conn. Plate No. 109, Scale 1" = 200', April, 1958 Prepared by Vernon Graphics, Inc. Mt. Vernon, N.Y."

VII. <u>Use Regulations</u>

Within the ICZ, these regulations shall apply:

A. The following uses are prohibited in the ICZ: the extraction, consumption or utilization of groundwater for any purposes, including residential wells; provided, however, that groundwater in the ICZ may be removed and tested for purposes of evaluating groundwater quality only.

B. All properties within the ICZ shall abandon all existing groundwater wells (except groundwater monitoring wells) in accordance with the provisions of the General Statutes and Regulations of the State of Connecticut and the

regulations of the Chesprocott Health District, within ninety (90) days of the effective date of this ordinance.

C. All properties within the ICZ that contain any structures, (residential, commercial or industrial) shall connect to the existing public water supply systems within ninety (90) days of the effective date of this Ordinance.

D. This Ordinance shall not apply to any investigative or monitoring well installed or required to be installed, by any federal, state or local governmental authority.

VIII. Violations

A. The Town of Wolcott may institute or cause to be instituted, in the name of the Town, any and all actions, legal and equitable, that shall be appropriate or necessary for the enforcement of the provisions of this ordinance. A photograph or video of the removal and/or use of groundwater, properly authenticated, shall constitute prima facie evidence of a violation.

B. In addition, any person, firm or corporation, being the owner or occupant of, or having control or the use of land within the ICZ who is found to violate any provision of this Ordinance, shall be guilty of a civil violation and upon conviction thereof, shall be punished by a fine of $100.00. Each day such violation is permitted to exist after notification thereof shall constitute a separate offense. Such persons shall also be liable for any court costs and reasonable attorneys fees incurred by the Town of Wolcott to enforce this Ordinance.

IX. Effective Date

This Ordinance shall take effect on the twenty first day following publication.

Approved by the Town Council of the Town of Wolcott on the 13th day of APRIL, 2004.

George Babcock, Chairman,
Wolcott Town Council

DATE APRIL 13, 2004

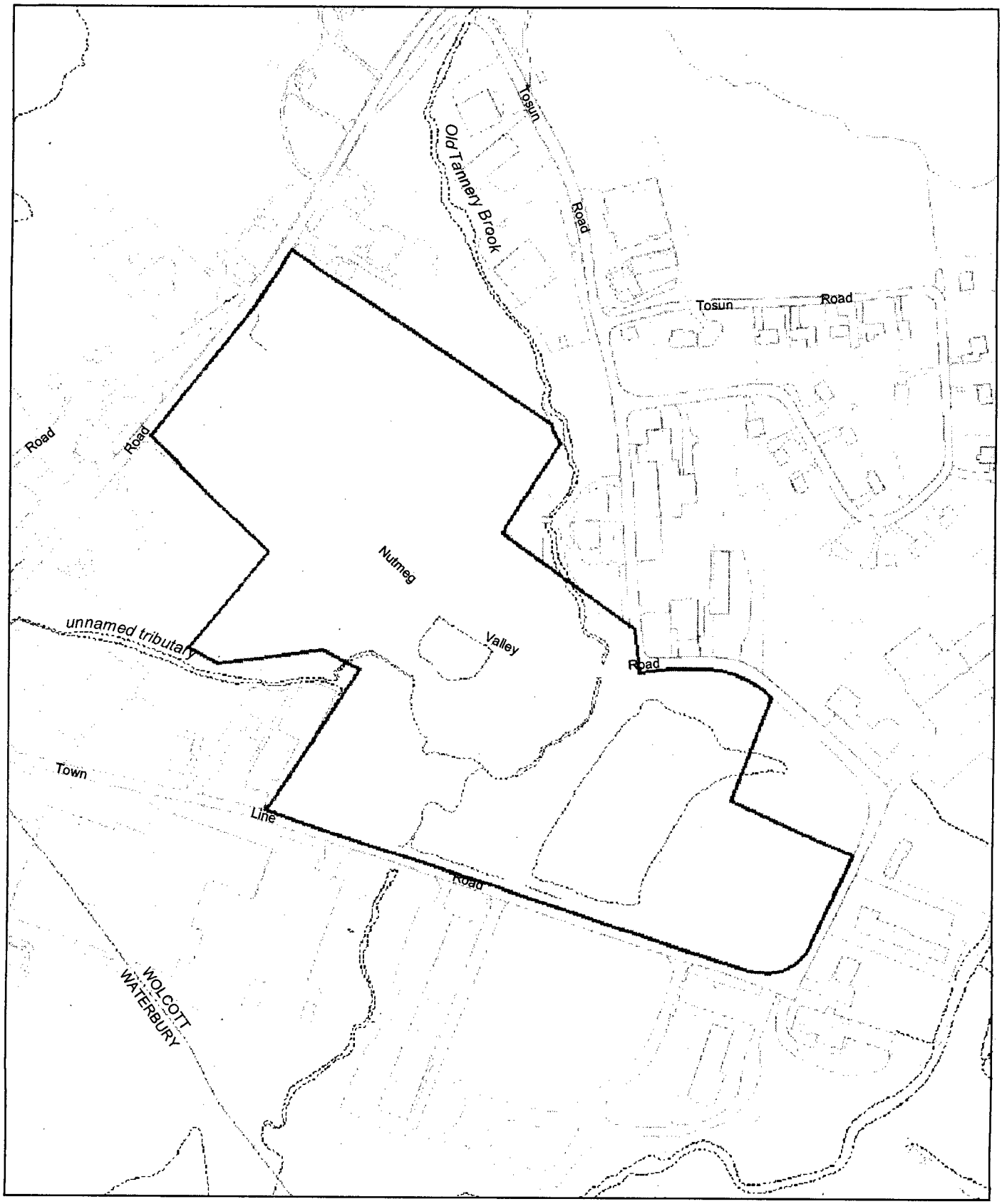
Thomas G. Dunn
Mayor, Town of Wolcott

DATE 4-14 ,2004

Date Published: APRIL 15th, 2004

Elaine King
Wolcott Town Clerk

Effective Date: MAY 6th ,2004 DATE May 6 ,2004



0 250 500 Feet

Institutional Control Zone

City/Town Line

Property Lines

Institutional Control Zones, Figure 1

Nutmeg Valley Road Site

Wolcott, CT

This map produced by the EPA New England GIS Center

5-March-2004

EPA United States Environmental Protection Agency New England