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RESPONSE TO EPA COMMENTS
RCRA FACILITY INVESTIGATION
PHASE I REPORT
ENVIRITE CORPORATION
THOMASTON, CONNECTICUT

PREPARED FOR:
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GZA
GeoEnvironmental, Inc.

Engineers and Scientists

May 30, 1997
File No. 41875

U.S. Environmental Protection Agency
Office of Site Remediation and Restoration
Corrective Action Section - HBT
J.F.K. Federal Building
Boston, MA 02203-0001

Attention: Mr. Raphael J. Cody
Project Manager

Re: Response to EPA Comments
RCRA Facility Investigation: Phase I Report
Envirite Corporation: RCRA Docket No. I-90-1032
Thomaston, Connecticut

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Dear Mr. Cody:

We are pleased to submit this Response to EPA Comments (Response) to U.S. EPA Region I (EPA) on behalf of Envirite Corporation. This Response was prepared to address EPA Comments appearing in their April 25, 1996 letter to Envirite Corporation, regarding the report: RCRA Facility Investigation, Phase I Report, Thomaston, Connecticut RCRA Docket No. I-90-1032. In addition to our review comment response, the last Appendix of this document presents a report summarizing the removal of the two underground spill containment tanks from the site.

If you have any questions regarding this report or any aspect of the project, please feel free to contact the undersigned at your convenience.

Very truly yours,

A Subsidiary of GZA GeoEnvironmental Technologies, Inc.

GZA GEOENVIRONMENTAL, INC.

E. Tyler Griffith
Sr. Project Manager

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Associate Principal

cc: William McTigue; Envirite Corporation
Clifford Brammer; Town of Thomaston
Thomas Mueller, P.E.; Town of Thomaston
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GENERAL COMMENTS

The Location of the bottom of the Landfill Cells with Respect to the Groundwater Table

1.0 INTRODUCTION

The "USEPA Comments On Envirite's RCRA Facility Investigation Report, Envirite Corporation, Thomaston, Connecticut" (Comments) states that the landfill residue could directly contact groundwater based on their respective elevations observed in the field and reported in the document: "RCRA Facility Investigation Report, Envirite Corporation, Thomaston, Connecticut" (RFI). The issue of the likelihood and duration of direct landfill residue contact with groundwater is addressed in this Section.

In general, to assess whether or not groundwater contacts the landfill residues, we have attempted to further characterize the elevation of the base of the landfill and the maximum water table elevation likely to occur. We then compared the data to estimate the proportion and duration of groundwater-landfill contact during the period over which data were collected. We performed the following specific tasks:

- **hypothesis testing to determine the statistical distribution of the landfill elevation data and the water level data;**
- **an estimation of the minimum elevation at which landfill residues exist;**
- **summary descriptions of the water level data to determine if differences exist in the data in space (e.g. proximity to Branch Brook or the Naugatuck River) or in time (e.g. seasonality), including:**
    1. **comparison between water level data subsets grouped by time,**
    2. **comparison between water level data subsets grouped by location;**
- **comparison between the water level data and the measured and estimated minimum elevation at which landfill residues exist, including:**
    3. **comparison between the landfill data and water level data subsets grouped by time,**
    4. **comparison between the landfill data and water level data subsets grouped by location, and**
    5. **comparison between the landfill data and the entire set of available water data.**

1.11 Minimum Base Elevation of the Landfill

The base elevation of landfill Cells 1, 2, and 3 as reported in the RFI (Table 7-4) is based on our evaluation of split-spoon soil samples from borings L-01 through L-10 shown on the attached Site Plan (Figure 1-1). These elevations range from 327.05 feet MSL at boring locations L-02 and L-05 to 338.15 feet MSL at boring location L-

08 (Figure 1-2). Based on the results of a Probability Plot Correlation Coefficient (PPCC) Test[1], these data are assumed to be normally distributed.

Because the lowest base elevation could occur at a location other than where borings were performed, we have estimated the minimum elevation landfill Cells 1, 2, and 3 using a frequency-of-occurrence plot[2]. The frequency-of-occurrence plot of expected probability versus existing elevations is shown on Figure 1-3. Based on the relative frequency of elevations and trends in elevation shown on this plot, we extrapolated 325.5 feet MSL to be the most likely elevation exceeded by "100%" of the data (i.e. 325.5 feet MSL represents the likely lowest elevation of the landfill materials).

1.12 Maximum Water Table Elevation

A proofed version of RFI Table 3-1: "Summary of Well and Groundwater Elevations" is attached as Table 1-1. The water level elevation data reported in the original RFI table were collected at various times and locations over a period of approximately two years.

1.12.1 Introduction

As stated in Section 1.0 (Introduction), our evaluation of the water table data began with hypothesis testing to determine if the data fit a normal or lognormal distribution. Following the evaluation of the data's distribution, we estimated the proportion and duration of groundwater-landfill contact. The following Sections describe the rationale for our analyses.

1.12.2 Distributional Assumptions

Several EPA references recommend using the assumption of normality or log-normality for many statistical characterizations of RCRA facility data[3] (unless the data are obviously not normally distributed). We evaluated the data's distribution to provide an indication of the appropriateness of using the Normal assumption (and related statistical tests), and to provide an indication of the spatial and temporal stability of the data. We felt that the data could be evaluated with more confidence if the behavior of the data was well understood, and that a good understanding of the behavior of the data might allow us to make some simplifying assumptions in our analyses and interpretations.

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[1] The PPCC test for distributional goodness-of-fit is described by Vogel (1986) - Water Resources Research, v.22, p. 587-590; v. 23, p. 2013.

[2] The construction of frequency-of-occurrence, or frequency analysis plots is described by Haan (1991) in "Statistical Methods in Hydrology", Iowa State University Press.

[3] USEPA Office of waste Programs Enforcement, Office of Solid Waste and Emergency Response: "RCRA Ground-Water Monitoring Technical Enforcement Guidance Document", Chapter Five, Sections 5.2 through 5.4 (September 1986); and USEPA SW-846 Volume II, Chapter 9, Section 9.1.1.2 (September 1986-Revision No. zero).

1.12.3 Evaluation of the Data-Set's Distribution as a Whole

Based on a histogram of the entire data set (Figure1-4), we felt the data might fit either normal or lognormal distribution. Therefore, we used the PPCC to determine the goodness-of-fit of data to the normal and lognormal distributions. Although we could not fit the overall dataset to a distribution.

1.12.4 Evaluation of the Distribution of the Data Sub-Sets

We tested each timeseries of data (grouped by location through time) and data from each monitoring round (grouped by date through all locations) for normality using the PPCC test.

We found that all of the timeseries subsets of data (data grouped by location) are likely to be normally distributed, with the exceptions of the data from MW-30S and MW-33. We observed that each of these two data sets appeared to contain a single anomalous point (indicated by bold italics on Table 1-1). If the anomalous data were excluded, we found that the MW-30S and MW-33 data were also apparently normally distributed.

1.12.5 Average and Variability within Data Sub-Sets

We tested the average values of each data subset against the average of all the data using t-tests, and the amount of variability within individual data subsets against the cumulative variability of all the data using F-tests.

The t-test and F-test results indicate that many of the data, when grouped by either time or location, are likely drawn from (normal) distributions with the same mean and variance. However, we also note that some of the data sets do not meet these criteria.

1.12.6 Summary and Conclusions: Water-Level Data Characterizations

We used comparisons of the data to the normal and lognormal distributions, comparisons of the averages of data subsets, and comparisons of the variability of data subsets to determine if the data sub-sets were from the same underlying population.

Based on the results of these analyses, we believe that the data can be pooled with caution for the purpose of evaluating the highest water table elevations likely to occur on-Site during a period of one year. While it is likely that the data vary in space and time, with higher regional means in upgradient locations and higher variances/standard deviations near to recharge/discharge boundaries (Branch Brook, the Naugatuck River, the ground surface, and possibly the bedrock surface), the available data sets appear adequate to assess

the likelihood of periodic contact between groundwater and the landfilled material.

1.13 Intersection Of The Minimum Base Elevation Of The Landfill Waste And The Water Table

Table 1-1 summarizes the water level data for each well that had a documented exceedence of the observed minimum elevation of landfill waste (327.05 feet MSL) or the estimated minimum elevation of landfill waste[4] of (325.5 feet MSL). Groundwater levels at or above 327.05 feet MSL are shaded in violet (darker) and groundwater levels at or above 325.5 feet MSL are shaded in yellow (lighter) on the table.

We performed a conservative analysis to estimate the proportion of landfill Cells 1, 2, and 3 contacted by groundwater and the frequency (duration) of contact by comparing water level data to the observed and estimated minimum landfill elevations described in Section 1.11. Two methods of comparison were used:

1. **We compared sub-sets of the entire water-level data set to the observed and estimated minimum landfill base elevation (Section 1.11).**

2. **We compared the entire data set to the observed and estimated landfill base elevation (Section 1.11).**

1.13.1 Assumptions

Our analyses rely on the assumptions that:

1. **the monitoring network wells are located in a manner that does not bias the water level data relative to the location of landfill; and,**

2. **that the data were collected at relatively even intervals during the monitoring period.**

Specifically, we assume that water level data are evenly distributed around the base of the entire landfill and that the base of the landfill is a horizontal planer feature. Based on this conservative assumption, the proportion of groundwater-landfill contact would be equivalent to the proportion of water level exceedences of the assumed landfill elevation that occur in the monitoring wells. In addition, assuming that water level data were collected at relatively even intervals throughout the monitoring period, the duration of groundwater-landfill contact throughout the monitoring period can be conservatively estimated as a proportion of how often the water level exceedences occurred.

[4] Estimated based on the landfill elevation frequency-of-occurrence plot discussed in Section 1.11.

1.13.2 Spatial Comparison of Water Level Data Sub-Sets and the Landfill Base Elevation

We estimated the proportion of the base of the landfill in contact with the water table by comparing the observed and estimated minimum base elevation of the landfill waste to the overburden water level data grouped into sub-sets by location.

The data indicate that the measured base elevation of Cells 1, 2 and 3 of 327.05 feet MSL was exceeded by the water table at 4 of 33 overburden monitoring locations (or 12% of the locations) and the estimated landfill base elevation of 325.5 feet MSL was exceeded by the water table at 9 of 33 overburden monitoring locations (or 27% of the locations). Given these results and the assumptions stated above, we estimated that up to 27% of the landfill bottom could have been intersected by the water table for an undetermined portion of the monitoring period (for an undetermined duration).

1.13.3 Temporal (Time) Comparison of Water Level Data Sub-Sets and the Landfill Base Elevation

We estimated the duration the base of the landfill is in contact with the water table by comparing the observed and estimated minimum base elevation of the landfill waste to the Water Level data grouped into sub-sets by monitoring round.

As shown on Table 1-1, the observed minimum landfill elevation of 327.05 feet MSL is predicted to be intersected during two of seven water level observations rounds (or 29% of the duration of monitoring), and the estimated minimum landfill elevation of 325.5 feet MSL is expected to be intersected during six of seven monitoring rounds (or 86% of the duration of monitoring). Given these results and the assumptions stated above, we estimate that some undetermined proportion of the landfill could be in contact with groundwater up to 86% of the time. We note that the actual duration of contact could significantly differ from these (relatively high) estimates, because there estimates are based on only seven monitoring rounds.

Temporal Correlations of Water Levels (Seasonality)

We also attempted to establish whether intersections of the water table and the base of the landfill were correlated to the portion of the year in which they occurred (seasonality). To predict seasonal variations in the data, we prepared a plot of the range and 95% confidence interval (about the average) of water level elevations through time (Figure 1-5). Based on this plot, it appears that the water table is equally likely to intersect the base of the landfill

at any time during the year. Therefore, additional analyses for serial/auto-correlation (seasonality) were not performed.

1.13.4 Evaluation of Groundwater-Landfill Contact: Entire Water Level Data-Set

Out of 163 available overburden water level data points collected over a period of 716 days (during the period from January 4, 1993 through December 20, 1994), a total of four exceedences of 327.05 feet MSL and 23 exceedences of 325.5 feet MSL occurred. These exceedences comprise total percentages of 2.5% and 14% of the 163 data point sample population.

1.14 Conclusions: Contact Between Groundwater and Landfill Residues

Our estimates of the total percentage of landfill contact over the monitoring period, generated by the various methods described above, are generally well correlated to one-another, indicating these estimates and the assumptions on which they are based are likely valid. Based on the discussions presented above it does appear likely that some portion of the landfill is in periodic contact with the water table.

RFI SPECIFIC COMMENTS

Section 1.0 - Introduction

a. Edit text to correct the date of the October 14, 1993 meeting between Envirite and USEPA which is incorrectly stated to have taken place on October 14, 1994.

We agree: Page 1, Section 1.0, bullet item No. 3 should be changed to read:

"The October 15, 1993 letter from Crowell & Moring of Washington D.C. to the EPA summarizing discussions and agreements reached at the October 14, 1993 meeting between Envirite and the EPA;"

b. Edit text to correct the date of the March 22, 1994 Alternative Proposals, which is incorrectly dated as March 2, 1994.

The above-referenced text found at page 1, Section 1.0, bullet item No. 5 should be changed to read:

"The March 22, 1994 Alternative Proposals for the RFI prepared by Geraghty & Miller, Inc., on behalf of Envirite;"

Section 3.0 - Characterization of Environmental Setting: Hydrogeology

a. Provide boring logs and installation details for Extraction Well, EX-1 and Monitoring Point, MP-1. These were not included in Appendix D.

Boring logs for the pump test extraction well (EX-1) and the monitoring point peizometer (MP-1) are attached as Appendix 3-1.

b. At times, depths in feet are not defined with respect to grade or MSL. This data is significant, due to the variability of the topography, particularly with respect to the landfill cells and the Naugatuck River and Branch Brook. Therefore, in the future, it would be prudent to set out all depths with respect to both grade and MSL.

In the future we will express subsurface data in terms of depth below grade and elevation referenced to mean Sea Level (MSL).

c. Include literature references for Ostle's Comparative test of Two Means and Haan's Test for Equivalence of Variance, as identified in Table 3-2. References were not included in Section 11.0 (References) or otherwise.

The following references are provided for the comparative test of two means described by Ostle and the test for equivalence of variance described by Haan:

- **Gibra, I. 1973. Probability and Statistical Inference for Scientists and Engineers. Prentice-Hall, Englewood Cliffs, New Jersey.**
- **Haan, C. 1991. Statistical Methods in Hydrology. The Iowa State University Press, Ames, Iowa.**
- **Ostle's Comparative Test of Two Means: Ostle, B. 1963. Statistics in Research. The Iowa State University Press, Ames, Iowa.**

d. Expand text to discuss deficiencies in hydraulic conductivity estimates.

We believe that the hydraulic conductivity estimates were generated using appropriate methods, that were implemented in a manner consistent with customary professional practice.

Borehole/Slug Test Methodology and Data Reduction

Borehole permeability tests/ slug tests were performed by evacuating the monitoring wells using a centrifugal pump run at full throttle and recording the rate of recovery of the water levels. In instances where the water level recovery was too rapid to manually obtain data, the pseudo-steady-state drawdown was recorded for a sustained pumping rate. These data were reduced in a manner consistent with

standard methods as described in textbooks such as Freeze and Cherry (1979) and research journal articles ("A Slug Test For Determining Hydraulic Conductivity Of Unconfined Aquifers With Completely Or Partially Penetrating Wells", H. Bouwer and R. Rice, Water Resources Research, v. 12, No. 3, 1976). The results of these tests are discussed below.

As shown on Table 3-2 of the RFI, 16 of 18 borehole permeability tests performed in overburden (or 89% of the overburden tests) were conducted as pseudo-steady-state under pumping conditions. The constant head data were reduced using Hvorslev's equation for sustained-drawdown, as described in our standard operating procedures (RFI Appendix C) and summarized on Table 3-1. Our field methods and application of the Hvorslev equation are consistent with assumptions of the method as described in standard textbooks, such as Freeze and Cherry (1979). Therefore, we do not believe the validity of these constant-head tests was compromised.

Nine (two in overburden and all seven tests in bedrock) tests were conducted via rising heads because yields were too low to sustain a pseudo-steady withdrawal rate. The borehole-permeability-test/slug-test recovery data were analyzed via either the Bouwer-Rice or Cooper et al, methods as implemented in Aqtesolv and summarized on Table 3-2[5]. As shown on Table 3-2, hydraulic conductivity estimates for overburden derived by variable head tests fall well within the first standard deviation of all overburden tests and do not appear biased. Hydraulic conductivity estimates for the bedrock aquifer show significantly more variation as is typical for this matrix. For these wells, the data is adequate to assess the heterogeneity of the bedrock aquifer and draw conclusions regarding the nature of flow in the bedrock. We believe our field tests and data analyses were conducted using appropriate methods in accordance with industry standard practices.

e. Strike or justify the statement that reads "However, the borehole permeability tests were performed using monitoring wells which are not designed for efficient transmission of groundwater." RFI Report at p. 15.

GZA's Site Operating Procedures (SOPs) for the installation of overburden and bedrock monitoring wells are provided in Appendix C of the RFI report. As stated in GZA's SOP, "Overburden wells are installed to provide access to groundwater for sampling purposes, determination of groundwater elevation, and to monitor fluctuations in groundwater elevation."; and "Bedrock wells are installed to provide access to groundwater contained in bedrock for sampling and monitoring purposes."

Groundwater monitoring wells are specifically designed and installed to yield representative groundwater samples for chemical analysis and to allow collection of accurate (static) water level data. To that end, the well screens and filter packs for these wells are selected to minimize the migration of fines into the well, rather than to reduce well losses (typically only encountered under high sustained flow rates) or

[5] Time-series data on this table are expressed in units of feet and minutes; data are also provided in Appendix 3-2.

short-term filter pack storage effects (induced by a rapid change in the water level). Therefore, the wells installed at the site are suitable for monitoring water quality and static water table elevations, but the response of these sampling wells to slug/constant head borehole permeability tests could be biased low. Therefore, it is likely that the slug tests and borehole permeability tests will yield results that are different (low) than those obtained from the same wells during a pump test.

f. Check and correct the statement which reads "Since the overburden aquifer is unconfined, specific yield estimates were derived from the steady-state Theim method and range between 2.3E-1 and 2.1E-0".[6] The Theim method cannot be used to obtain an estimate of specific yield, and a specific yield of 2.1 is physically impossible. It appears that there must be typographical errors here.

Fetter states that estimates of transmissivity based on steady-state conditions are typically superior to those derived from transient data (Fetter, 1988; Second Edition). Unfortunately, estimates of the storage coefficient (specific yield) can not be generated directly from the steady-state data. However, the estimates of transmissivity obtained using steady-state data can be substituted into the standard transient flow equations, to obtain an estimate of the storage coefficient that corresponds to the steady-state derived estimate of transmissivity. Using this substitution, we calculated an estimate of a storage coefficient which ranged from 0.23 to 2.1 (or 210% of the aquifer volume). Although upper bound estimate is obviously erroneous (as we state in the Phase I report), it provides information regarding the reliability of the analyses: 1) the estimate of transmissivity provided by the analysis is too high, 2) the estimated time to steady-state conditions is likely longer than the duration of our test, and 3) the actual storage coefficient is probably quite high (although not likely in excess of 0.3, or 30%).

g. Provide data to verify the statement which reads "The reliability of piezometric head contours for use in evaluating the area of influence during the pump test is expected to be poor, because the drawdowns induced by pumping were relatively minor compared to changes in piezometric head caused by unrelated influences such as stream stage".[7]

Stream stage data and data from monitoring wells located near the streams were collected during the pump test and recovery phase and are summarized on Table 3-3. Figure 3-1 provides a plot of stream stage measurements versus concurrently observed heads in monitoring wells. Figure 3-2 depicts a plot of average stream stage versus average groundwater heads based on the same data to illustrate effects of averaging the data for analysis (little effect on overall trends result). The time interval of the data included on these plots includes the entire duration of the pump test and three days of recovery monitoring.

[6] RFI Report at p. 15
[7] RFI Report at p. 15

Both plots indicate that all of the piezometer heads and monitoring well heads were very well correlated to stream stage throughout the pumping and recovery phases of the test. The slope of this relation ranges from near zero to three feet per foot change in groundwater heads relative to stream stage, indicating that the ratio of changes in groundwater levels to stream stage ranges from 0:1 to 3:1. The average slope, however, appears to be near 1:1, indicating equivalent changes in surface and groundwater elevations. These relations appear to be aerially consistent both upgradient and down/side gradient of the vicinity of the pump well, indicating that effects outside of the area of influence of the pump well are likely present. Based on the maximum ratio of groundwater elevations to stream stage (3:1), we infer that a significant proportion of the changes in water levels observed in monitoring wells near the streams before, during, and after the pump test are likely due to extraneous influences.

h. Provide, at a minimum, qualitative analysis of the effect of recharge from the Naugatuck River and Branch Brook on the radius of influence of the extraction well.

The "radius of influence" (r_I) is a hypothetical parameter frequently used to estimate the portion of a flow field influenced by pumping. The hydrologic parameters determined using the pump test data represent values averaged throughout this region. [8]

Analytical estimations of the radius of influence during the RFI pump test are summarized on Table 3-4. Empirical estimations of the radius of influence (from groundwater contour plans) were not relied upon in the RFI because: 1) half of the monitoring area (south of the extraction well and off the Envirite site) was inaccessible, due to the refusal of the town of Thomaston to grant us access for monitoring purposes, and 2) many of the induced drawdowns at the periphery of the expected radius of influence were of the same magnitude as changes in the ambient flow field[9]**, rendering accurate delineation of the zone of influence unlikely.**

<u>Estimated Radius of Influence</u>

As shown on Table 3-4, we estimated the radius of influence to range from approximately ten feet to 400 feet, typically approximately 140 feet (based on calculations using shallow overburden data) and 180 feet (based on calculations using deep overburden data). Because the pump well (EX-1) is located approximately 330 feet from Branch Brook and 340 feet from the Naugatuck River, both of these water bodies could conceivably have effected the observed radius of influence.

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[8] Other data from within the same area (if representative of parameters on a different scale) can be compared to the pump test results to characterize variability within the region influenced by pumping.

[9] We felt that the pump test induced only small differences in water levels relative to background changes observed during the test. Therefore, we believed that specific inferences based on these data are likely to be unreliable.

In the presence of a recharge boundary, observed drawdowns will be lower than predicted by the standard transmissivity-based flow equations. Induced recharge from the boundary will counteract pumping withdrawals, generally assumed to result in no net change in head at the boundary. Boundary effects are accounted for when relying on the horizontal flow equations using imaginary "image wells".

For this calculation, a recharge boundary is assumed to be located approximately 330 feet west of pump well EX-1 (Branch Brook) and 340 feet east of the pump well (the Naugatuck River). The ratio of discharge from the stream versus discharge from the pump well (the discharge ratio) can be found analytically or by use of published solutions. Todd (1980)[10] provides a graphical solution developed by Glover and Palmer[11]:

$$\left(\frac{Q_s}{Q}\right) \mathrm{F}\left[\frac{\sqrt{(x_a - x_w)^2 + (y_a - y_w)^2}}{\sqrt{4Tt/S}}\right]$$

<u>Where:</u>

Q_s = volumetric flux of induced recharge from a boundary (cubic feet per minute);
x_a = easting of the boundary (feet)
y_a = northing of a boundary (feet)
t = elapsed time (days)
S = storage coefficient/specific yield (dimensionless)

We developed a spline fit to hand-measured values of this equation, given by :

$$r_1 = 30.583\,x^6 - 101.14\,x^5 + 134.7\,x^4 - 92.702\,x^3 + 35.502\,x^2 - 8.6094\,x + 1.7551$$

We have modified the approximation of Glover and Palmer for the presence of two boundaries by invoking the Principle of Superposition:

$$\frac{Q_s}{Q} \propto \frac{\sum_{i=1}^{N=2} \sqrt{(x_{a_i} - x_w)^2 + (y_{a_i} - y_w)^2}}{\sqrt{4Tt/S}} \equiv \lambda$$

The following data can be used to calculate λ:

[10] Todd, D. K. 1980. <u>Groundwater Hydrology</u> (Second Edition), pp.142-144. John Wiley and Sons, Inc. New York, NY.

[11] Glover, R. E., and G. G. Balmer. 1954. "<u>River Depletion Resulting from Pumping a Well Near a River</u>". Trans. Amer. Geophysical Union, v. 35, pp. 468-470.

- **transmissivity estimate of 25.8 square feet per minute (37,152 square feet per day);**
- **specific yield/storage coefficient of 2.6E-3;**
- **a recharge boundary 330 feet west of pump well EX-1; and,**
- **a recharge boundary 340 feet east of pump well EX-1;**
- **2.868 days of elapsed pumping (data set from ~ one minute prior to pump shut-down).**

These data yield a value of 12,803 (dimensionless) for the square root of (4Tt/S)[12]. Substituting this value into the equation above, λ can be approximated by 0.052. Substituting this value for x in the spline equation, we obtained a value of ~1.6 for the discharge ratio. This suggests that at pseudo-steady-state up to about 70% or 45 gpm of 63 gpm discharged from the pump well could feasibly be attributed to the boundaries, with 49% of the boundary flux attributed to the Naugatuck River and 51% of the boundary flux attributed to Branch Brook.

These boundary effects would likely result in skewed drawdowns, which would be diminished in proportion to the relative proximity of the measuring point between the boundary and the pump well. We expect that under these conditions an elliptical cone of depression would result, with its long axis oriented roughly parallel to the two streams. In addition, the boundary effects would likely result in elevated estimates of transmissivity and hydraulic conductivity.

i. Clarify whether there is data to support the fact that decreased stream surface elevation referred to in Section 3.3 actually occurred during the pump test, or it is only hypothesized to have occurred.

A plot illustrating stream stage and groundwater head at multiple locations during the period of December 20, 1994 through January 26, 1995 is provided on Figure 3-1 (this time interval includes the pumping and recovery phase of the pump test). The data reflect a downward trend in stream surface elevation during the period included on the plot, and a downward trend in groundwater heads throughout the duration of the pumping phase. These downward trends in stream stage and groundwater head appear to be correlated, and the strength of this correlation does not appear to be altered during the active pumping phase of the pump test.

While the data are not sufficient to confirm the cause of the decreasing trends in stream stage and groundwater heads, the relatively steady state of the stream data during the active pumping phase, and the correlation of stream stage and groundwater levels both during and before and after the active pumping phase, indicate that factors other than pumping-induced head changes are significant.

[12] Rearranging this parameter indicates that Glover and Palmer's equation is a ratio of the distance to the boundary over the dividend of radius/$u^{1/2}$ (from a rearrangement of the standard Theis equation well function parameter u, where u=r2S/4tT).

j. Justify the statement which reads "Therefore, the most representative data for interpretation of flow patterns at the site are the historic averages presented on Figures 3-4, 3-8 and 3-12 through 3-16".[13]

The statement referenced in the EPA Comments relates to our development of a conceptual model of the flow system. Typically, a preliminary conceptual model is developed that is capable of describing pseudo-steady-state or typical existing conditions. Subsequently, the model is adjusted and calibrated to perturbations in the boundary conditions using field "snap-shot" data because of their ability to capture transitory driving forces and/or to provide a measure of variability within the system.

In using the averaged data, we attempted to develop a model that would show overall flow patterns at the site to preliminarily characterize source and sink areas within the system. We felt that the magnitude of the variability in the head data, as shown on the "snap-shot" groundwater contour plans from quarterly monitoring included in the RFI was large relative to the number of "snap-shots" available. Therefore, we sought a more stable data set to develop a preliminary description of the flow system. Because measures of central tendency provide "typical" or "expected" values, we decided to use an averaged data set for our preliminary analysis.

<u>Characterization of Expected System Behavior</u>

Contours of head are useful because they provide a visual means to evaluate gradients and gradients are descriptive of a flow system. Gradient is an expression of the relation of individual piezometric heads to one another in space in terms of relative magnitudes. We generated a contour plan of average gradients by averaging heads, since this provides the average gradient field with less effort and because it is more intuitive than a plot of actual gradients. To demonstrate this, it is necessary to discuss the behavior of the gradient "I" relative to individual heads "h" and distance "s":

$$I = (h_1-h_2)/(s_1-s_2);$$

and since (s_1-s_2) can be considered constant through time (the dimension over which the data will be averaged):

$$I = (h_1-h_2)\ C;$$

It can be seen that "I" will change (in the absence of other factors) by some fraction of the difference between adjacent head values and it can be shown that the differences in adjacent heads are preserved when heads are averaged. Therefore, it is reasonable to assume that the spatial relationships of heads (the gradients) will be preserved within the flow field when the measured heads are averaged to evaluate the gradient.

[13] RFI Report at p. 16

k. use site-specific porosity data in hydrogeologic calculations (unless such data does not exist).

Site-specific porosity values were obtained by Fuss & O'Neill of Manchester, Connecticut based on grain size distributions and permeability using the Fair-Hatch equation ("RCRA Facility Investigation Proposal, Docket No. I-90-1032, Envirite Corporation, Thomaston Connecticut, January 1991"). Porosities averaged 33%, ranging from 16% to 52%.

The average linear flow velocity was calculated in the RFI using overburden gradients of 0.001 ft/ft to 0.01 ft/ft, hydraulic conductivity estimates ranging from 0.014 ft/s to 0.011 ft/s and an estimated porosity of 25% (based on literature values). Substitution of the hydraulic conductivity estimates and gradient measurements values into the average linear flow rate equation ($v = KI/n_{effective}$) using a porosity of 33% yields linear flow rates ranging from approximately 2.9 to 37 feet per day versus the estimates given in the RFI of 4.8 to 34.6 feet per day.

l. Place all information concerning recharge to and from the Naugatuck River and Branch Brook into a single topic discussion. Discuss discrepancies between the various lines of evidence presented.

The results of the stream flow gaging, seepage meters, and the overburden pump test are presented in tables and graphs in Appendix E of the RFI report.

Summary of Available Data

The following information and interpretations were used to develop our conceptual model of surface water and groundwater interactions.

Stream Gaging

As discussed in Section 4.1.1.1 of the RFI report, the accuracy of the stream gauging method used was estimated to be ± 5% to 8% of the total flow (ASTM, 1990). Even though a few of the cross-sectional widths exceeded the recommended section width of 10% of the total flow, we do not believe that the accuracy of the data has been reduced (see Section 4a).

Naugatuck River Gaging

Using this range of accuracy, the individual and total percent changes in discharge observed along the Naugatuck River gaging reaches in May was too small (-4.9% total) to draw conclusions about changes in flow (RFI Table 4-1). The total percent change in discharge observed in October was large enough to suggest that the Naugatuck River was recharging water to the aquifer (-21.5%). However, a comparison of RFI Table 4-1 and RFI Figure 4-1 indicates that only

a relatively insignificant portion of the total recharge in October occurred in the reach upgradient and sidegradient of the Site (-8.7%). The remainder of the recharge from the Naugatuck to the subsurface was measured adjacent to the southeastern portion of the Site and downgradient of the Site.

Branch Brook Gaging

As shown on RFI Table 4-1, the total percent changes in discharge along the Branch Brook gaging reaches during April (-19.2%) and October (-12.9%) are significant enough to suggest that this reach of Branch Brook (between BBT-2 and BBT-4) is recharging water to the aquifer. These changes primarily occur between gaging transects upgradient and sidegradient of the Site as shown on RFI Table 4-1 and RFI Figure 4-1 (-15.8 % in April and -18.6% in October). Insignificant changes occurred downgradient of the Site and in the vicinity of the southwestern border of the Site (-3.4% in April and +5.7% in October).

Seepage Meter Discharge Estimates

As discussed in the RFI, seepage meters were not installed in the Naugatuck River.

The results of seepage meter measurements in Branch Brook indicate that some portions of the stream channel might seasonally discharge groundwater to the stream, as discussed in Section 4.1.2.2 of the RFI report. However, the measured volumes were very small in comparison to the total flow of the brook (measured losses of approximately 2 gpm over the observed length of the stream bed vs. stream flow measured to be 33,000 gpm to 85,000 gpm). In addition, these meters had to be installed in relatively coarse material (gravelly sand) which could have compromised a proper seal at the base of the meter. Therefore, the seepage meter data are considered to be in significant relative to the flow of the stream and potentially unreliable.

Groundwater Contour Plans

Groundwater flow patterns at the site have been evaluated based on the hydraulic characteristics discussed in Section 3.2 of the RFI and on groundwater contour plans (RFI Figures 3-1 through 3-16). The figures present both pseudo-instantaneous or "snap-shot" data and averaged data for the site.

Plan-View Groundwater Contour Plans

Based on averaged data (RFI Figures 3-4 and 3-8), overburden flow patterns indicate that groundwater from the northeastern portion of the site flows to the west-southwest, towards Branch Brook and its former stream channel (now filled with blast debris). Overburden groundwater flow throughout the rest of the site flows to the south and southwest, towards monitoring well clusters MW-43 and MW-44.

In contrast to the overburden aquifer, horizontal flow in bedrock beneath the Site does not appear to be preferentially influenced by recharge from the Naugatuck River or Branch Brook. As illustrated by a comparison of RFI Figures 2-5 and 3-12, groundwater flow directions in bedrock are generally to the south and southwest.

Cross-Sectional Groundwater Contour Plans

As shown on the RFI piezometric cross-sections (RFI Figures 3-13 through 3-16), groundwater flow in the eastern portion of the site is primarily horizontal. However, in the western portion of the site, averaged piezometric head data indicate a significant vertical component of flow. Piezometric contours on Cross-Section A-A' and B-B' (RFI Figures 3-13 and 3-14) indicate that vertical flow components are most pronounced beneath the southwest boundary and south-central portion of the site. This area corresponds to the vicinity of the former channel(s)[14] of Branch Brook, that was reportedly filled with gravel sized to boulder sized angular crystalline bedrock debris from the construction of Route 8. The January, 1991 RFI Work Plan prepared by Fuss and O'Neill states that ten to twenty feet of this material underlies the Site, and that up to ten feet of this material was placed as fill in the former brook channel and a low point in the bedrock surface. The greater transmissivity of both the former stream channel and the thicker overburden deposits likely accounts for the downward heads in this area.

Correlation of Stream Stage and Groundwater Piezometric Heads

As shown on the charts included in Appendix E of the RFI (stream stage versus groundwater piezometric heads under pumping conditions), the stream heads are related to piezometric heads in nearby overburden wells. The curvatures of head scatter-plots observed during December 20 through 23, 1994 (the active pumping phase) likely indicate transient effects unrelated to the pump test and are likely induced by a decreased stream surface elevation rather than having been induced by pumping. The overall trend of these plots suggests a linear relationship between stream stage and overburden head, which indicates that the hydrologic behavior of the aquifer is linked to the streams (i.e. recharge/discharge from the Naugatuck River or Branch Brook).

[14] Historical information available from a previous report (the RFI Work Plan prepared by Fuss & O'Neill) indicates that Branch Brook might have bifurcated in the stream reach that was reportedly filled with blast debris.

Interpretation of Available Data

As we discussed in the RFI report, not all of the available data used to evaluate the issue of groundwater recharge from Branch Brook and the Naugatuck River are in full agreement. Nonetheless, we believe there is substantial agreement in the data set and, when analyzed in its entirety (and in consideration of known heterogeneities in subsurface conditions and likely seasonal variations in flow conditions) we interpret the data as follows.

Stream gaging results indicate that actual flow in the river do not likely differ by more than the estimated 5%-8% margin in error, but the data still suggest significant recharging from the stream to the aquifer. Also, pseudo-linear correlations between stream stage and groundwater piezometric heads indicate a strong connection between the surface water bodies and the overburden groundwater (RFI Appendix E). Plan-view groundwater contour plans indicate flow beneath the Site is generally horizontal, and generally travels from the north-northeast toward the south-southwest (summarized on RFI Figures 3-4, 3-8, and 3-12). Subsurface cross-sections also indicate that groundwater flow is predominantly horizontal, with downward components in the overburden occurring along Branch Brook in the vicinity of its former channel and well cluster MW-61, well MW-33, and well cluster MW-44 (RFI Figures 3-13 and 3-16). As shown on the two cross sections depicting flow in the vicinity of the MW-44 well cluster (RFI Figures 3-13 and 3-14), a relatively small upward component of flow from bedrock also exists at this location.

Because of the observed connection between surface water and groundwater, the relatively permeable overburden materials (RFI Table 3-2), relatively impermeable bedrock (RFI Table 3-2), and the lack of evidence for significant bedrock recharge/discharge, we believe the total water mass within the local flow system is generally controlled by the Naugatuck River and Branch Brook. Water within the local flow system likely flows sub-parallel to the base of the overburden in the absence of subsurface heterogeneities in permeability, or recharge/discharge locations.

Based on the results of mass-balance calculations performed on stream gaging and seepage meter data, some degree of groundwater recharge from Branch Brook likely occurs northeast and east (or upgradient and sidegradient) of the Site during the spring and fall (RFI Figure 3-13).

We believe that overburden flow, usually from north-northwest to south-southwest across the Site, intercepts a significant flow "sink" in the vicinity of the southwest boundary of the Site. This effect is evidenced by the general drop in heads shown along Branch Brook relative to neighboring heads, as summarized on RFI Figures 3-8, 3-13 (and to a lesser extent, RFI Figures 3-4 and 3-16); and a slight increase in heads above the bedrock surface in the vicinity of well cluster MW-44 (indicating losses to bedrock at this location can not account for the overlying head losses). We believe this sink effect could be the result of a relatively high-permeability zone in this area, which serves as a preferential flow path for groundwater. The effect of the "sink"

flow system likely flows sub-parallel to the base of the overburden in the absence of subsurface heterogeneities in permeability, or recharge/discharge locations.

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m. Proofread tables and figures and edit as necessary.

We have proofed the RFI tables and Figures and have corrected errors found. Tables are noted for corrections or are attached in the Appendicies.

Section 4.0 - Characterization of Environmental Setting: Surface Water and Sediment

a. Check accuracy of estimates for stream gauging method; correct as necessary.

As specified in the RFI Work Plan, we utilized the flow measurement method described in Standard Practice for Open-Channel Flow Measurement of Water by Velocity Area Method, ASTM 1990, (D3858-79). Each transect of Branch Brook and The Naugatuck River was divided into fifteen sections and velocity measurements were collected using the one, two, or three point method depending on the depth of water within each section. According to the reference above, the standard error using the one-point depth method at 16 sections (one more than the 15 sections we used) is 4.2%.

In addition, the ASTM 1990 reference states that "partial sections should be spaced so that no partial section contains more than 10% of the total discharge". Review of our sections and estimated discharges indicate that 87% of the sections on Branch Brook and the Naugatuck River Transects contained less than 10% of the total flow in each transect. The average discharge percentage, per section was 6.7%.

discharge to the surface water systems in the vicinity of the site make these calculations moot.

c. Clarify discrepancy between seepage meter data and conclusions regarding seepage meter results.

Please see Section 3.0 (l) of this supplement: "Seepage Meter Discharge Estimates" and "Interpretation of Available Data".

d. Provide additional details justifying the exclusion of two sample stations from sediment chemical constituent characterization.

Protocols for performing sediment sampling locations evaluations were specified in the RFI Work Plan Sections 27.1.2 and 27.2.4 and the Alternate Proposals for RFI Envirite Corporation, Thomaston, Connecticut prepared by Geraghty & Miller, Inc. These documents specified sediment sample collection procedures developed as a result of meetings with and comments by the USEPA. The Alternate proposal states "Eight preliminary sediment samples will be collected from both the Branch Brook and Naugatuck River. Section 27.2.4 of the RFI Work Plan states that, "Sediment data will be evaluated to ensure that the sediment samples are of similar size ...". In addition, sediment sample locations will be within areas of finer grained sediments in both water bodies; however, greater emphasis will be placed on consistent spatial distribution along both channels." As noted in the RFI report consistent with the specified protocols, NRT-03 was excluded due to its higher grain density and coarse grain size distribution. Similarly, Station NRI-17 was excluded since it was one of several samples collected in the vicinity of Envirite's southern property boundary. Therefore, we concluded that inclusion of this location would not provide for consistent spatial distribution of sample locations as required. Exclusion of these two samples still allowed for analysis of eight samples from both BB and the NR as required.

e. Provide information on sediment sample loss during retrieval.

The sediments of Branch Brook and the Naugatuck River were evaluated to determine appropriate sediment sampling locations and subsequently sampled for physical and chemical parameters in a multi-step fashion as described in the RFI Work Plan and "Alternate Proposals for RFI" (March 1994).

As a initial step to identify areas of significant sediment accumulation, soft sediment thicknesses were measured by advancing a 1/2-inch diameter rod through the sediments until it encountered refusal. Secondly, screening level stream sediment samples were collected using a hand-held soil auger. These samples were catalogued in the field on a qualitative basis for color and grain size. Based upon the sediment thickness and initial stream sediment samples,

preliminary sampling locations were identified. Ten preliminary sediment sampling locations were selected in each stream.

Both the sediment samples for preliminary analysis and for chemical constituent characterization were collected with a stainless-steel hand-held Wildco Sediment Corer (Model No. 2420-H45) designed for this purpose. The Wildco hand corer is equipped with an automatic flutter valve which seals the upper end of the core tube during retrieval. The closing of the flutter valve results in low internal pressure within the core tube, which helps prevent sample washout as the corer is pulled from the substrata. The coarser the sediment, the more likely that gravity will overcome the low internal pressure which could result in sample loss.

f. Clarify whether surface water measurements are true stage measurements or piezometer measurements, as Appendix E implies.

Updated tables and plots are included in Appendix 4-1.

In the Phase I report, piezometer **measurements were compared to groundwater levels to evaluate vertical head differences between surface water bodies and groundwater. Piezometer measurements were used because the data appeared to contain less random variability, which we ascribed to slight measurement errors.**

For this supplement we have re-done our comparison of surface water measurements and groundwater table levels (and associated comparative plots in RFI Appendix E) using stream stage instead of piezometer measurements. The plots are provided in Appendix 4-1. The regenerated correlations are quite similar to those obtained previously, and are therefore interpreted similarly. Please refer to our response to Section 3.0 comments for interpretation.

g. No soil borings were advanced further than west of Old Waterbury Road. Provide an explanation as to how and why the cross-sectional figures provided in the RFI report depict bedrock under the Naugatuck River to be a shallow as 320 MSL.

The elevation of bedrock beneath the Naugatuck River was extrapolated based upon available bedrock investigation reports and boring logs from the neighboring Whyco Chromium facility. Whyco is located on the east side of the Naugatuck River, approximately 1000 feet south (downstream) of the Envirite Site.

Our interpretation was also influenced by the observation of bedrock outcrops in the vicinity of the Naugatuck River and regional topography (steep river valley walls on the east side of the Naugatuck River) suggests the presence of near surface bedrock on the east side of the Naugatuck River. Nonetheless, in

response to your comment, RFI report Figure 2-4, geologic cross-sections; D-D' has been amended to accurately represent the D-D' cross section length shown on Figure 1-1, Site Plan (RFI Figure 1-2).

Section 6.0 - Source and Waste Characterization: Pre-Envirite Waste Material

a. Resolve the discrepancy between the number of samples submitted for analysis and the results reported in the RFI Report.

As cited in the RFI report, seven samples (six samples and one blind duplicate) of Pre-Envirite Waste Material were analyzed. The Appendix G table did not accurately reflect these analyses and results. Revised result tables for the Pre-Envirite Waste Material samples are attached in Appendix 6-1. The following six samples and one blind duplicate sample of Pre-Envirite Waste Material were submitted for analysis:

WP WO9G	**WPW24E**	**WOX1 (duplicate of WPWP9G)**
WP W11D	**WPW25C**	
WP WP19D	**WPW30E**	

b. Resolve the discrepancy between the nature and number of samples submitted for analysis and the results reported in the RFI Report.

All of the Pre-Envirite Waste Material samples (six samples plus one blind duplicate) were analyzed for total and extractable (TCLP) constituents. The Pre-Envirite Waste Material data tables have been revised and are attached in Appendix 6-1.

Section 7.0 - Source and Waste Characterization: Landfilled Treatment Residues

a. Provide the chemical composition(s) of the landfilled treatment residues.

Section 13.0 of the Approved RFI Work Plan describes the composition, characteristics and methods used by Envirite to generate the Landfilled Treatment Residues (LTR). In addition, LTR samples were analyzed during the execution of the RFI; a summary of the LTR analytical data is presented on Table 9-5 of the RFI report. Variability in sample composition is best evaluated by a comparison of the minimum and maximum levels of detected analytes. Analytical results for the LTR samples are presented in Appendix G of the RFI report.

b. Expand text to discuss the limitations and the effects of those limitations in your ability to identify and quantify the presence of vinyl chloride.

The gas chromatograph used in the field by GZA during the 1994 Soil Gas Survey was not equipped with a column capable of separating vinyl chloride

well enough to quantify the compound. However, in August 1996, a soil gas investigation was performed at the Envirite facility by Environ as a supplemental investigation in accordance with an EPA approved work plan. The purpose of the investigation was to quantify the potential presence of vinyl chloride in the soil gas at the Envirite facility, if any. Environ's October 9, 1996 report presenting the results of the soil gas investigation at the Envirite facility is presented in Appendix 7-1.

Environ did not detect vinyl chloride in any of the soil gas samples collected and in accordance with the work plan, no further investigation pertaining to vinyl chloride in soil gas was performed.

c. Provide results for total cyanide as appropriate.

Total cyanide results for landfill treatment residue are presented on the Landfill Soils - Herbicides and Miscellaneous table located in Appendix I, Volume 5 of the RFI report.

d. Comment on the discrepancy between the laboratory detection limits (ldl) of the analytical procedure and CT DEP's remediation standards.

EAS Laboratories (EAS) used the methodologies and detection limits approved as part of the RFI Work Plan. Connecticut's Remediation Standard Regulations (RSR's) were not final at the time the Phase I work was conducted and were therefore not incorporated into the Phase I program.

The criteria for evaluating the adequacy of the detection limits realized is whether or not the data generated are adequate to complete the PHERE and generate proposed Media Protection Standards (MPSs). The consultant performing the PHERE (Environ) believes the available data set is adequate.

Discussion of Soil Gas Survey: Sections 6.0 and 7.0

a. Provide qualification as to the origin and distribution of VOCs in the landfills.

As discussed in the Phase I RFI report, VOCs were observed in samples from the pre-Envirite wastes materials and from the landfilled treatment residues (LTR). Relatively high concentrations of VOCs appear to be spread throughout the pre-Envirite waste material and were most likely present at the time they were deposited. Substantially lower concentrations of VOCs were observed in many of the LTR samples. It is probable that the VOCs were part of the LTR at the time of deposition since the likely low permeability of the LTR (a very fine grained, cohesive, high moisture content material) would preclude significant migration from the pre-Envirite wastes into the LTR.

b. Expand the RFI report to discuss the probable migration of contaminants in the landfills and the potential contamination of groundwater by soil gas.

As discussed above, VOCs were observed to be present in the pre-Envirite waste material and, at much lower concentrations, in the LTR. Given the significantly higher VOC concentrations observed in the pre-Envirite waste (average concentrations were one to three orders of magnitude higher in the pre-Envirite waste) this material is likely to be the predominant source of VOCs in soil gas. Also the low permeability nature of the LTR (discussed above) would limit emission of VOCs to the soil gas from all but the outer zone of the LTR.

While it is possible that the concentrations of VOCs observed in soil gas samples could result in some level of deposition in unimpacted soil and groundwater, portions of the pre-Envirite waste are located below the water table and have contaminated the groundwater well in excess of the impacts that are theoretically possible based on the observed soil gas concentrations.

Discussion of Selected Issues Raised by Information in Reports Submitted by the Town of Thomaston

(The following response to comments raised by reports submitted by the Town of Thomaston was prepared by Envirite Corporation).

Sampling of Soils within Wastewater Spill Area

If the Town is correct in its finding that the pipe spill area had been excavated by Envirite, then it is reasonable to assume that, following excavation activities, the excavation was backfilled with clean fill. This would bring into question the integrity and representativeness of soil samples which were collected by Envirite, for purposes of this investigation, from depths of zero (0) to six (6) inches below grade within the spill area. Please comment.

At the Town's direction , HRP Associates, Inc. (HRP) re-sampled the subject area. On August 3 and 4, 1995 HRP installed a total of nineteen borings — sixteen in the area of the main wastewater spill, two in a smaller area impacted by the spill, and one boring in a location where sample was collected at two different depths to provide information regarding background soil quality.

Soil samples were collected for analysis from two intervals: 0 to 2 feet; and 2 to 4 feet. They were analyzed for various parameters including:

- **aromatic volatile organics (EPA Method 8020)**

- **halogenated volatile organics ((EPA Method 8010)**
- **total petroleum hydrocarbons (EPA Method 418.1)**
- **inorganic parameters including chloride, cyanide*, magnesium*, phenols, chromium*, zinc*, sulfate, cadmium*, sodium*, nickel*, and lead*. ("*" denotes analysis by TCLP.)**

The sampling project's data quality objectives included a total of 39 aromatic volatile and halogenated volatile compounds at a detection limit of 5 μg/kg, except for two compounds. The detection limit for 2-chloroethyl vinyl ether and benzyl chloride was set at 10μg/kg. The Town selected the test parameters based upon its review of both the Fuss & O'Neill Scope of Work (upon which much of the RFI field work was based) and Envirite's Phase I RFI Report, which was prepared by GZA in March, 1995.

HRP reported that the lab analyses for every sample indicated analyte concentrations below the values established in the [then] proposed Remedial Standard Regulations published by Connecticut Department of Environmental Protection (CTDEP). However, HRP noted that the analysis of samples taken from the spill area showed higher concentrations for two or more parameters than were observed in the 0 to 2 ft. and 2 to 4 ft. depths at the single background sampling location.

Envirite believes that two samples from a single location are not sufficient to encompass the range of variation in background concentrations that is often exhibited by naturally occurring constituents, such as metals. The fact that the measured inorganic parameters in the two available background sample values are often quite different is evidence that there is significant variation in background conditions.

Furthermore, HRP's protocol for identifying contaminated samples (by comparison to the maximum observed background concentrations) is not appropriate, since it is inconsistent with valid procedures described in USEPA guidance documents (e.g, "Determination of Background Concentrations of Inorganics in Soils and Sediments in Hazardous Waste Sites," December, 1995, EPA/540/5-96/500). In general, this guidance specifies that a minimum of four samples from the same soil type are needed to establish background concentrations, and that statistical methods should be used to determine whether soils are contaminated. HRP's report uses only two samples for background and does not use statistical methods to identify contamination.

It is Envirite's understanding that the Town's interest in soil contamination within the wastewater spill area is partly based upon the Town's concern that the pipe (which had ruptured in 1988) contained listed hazardous waste. It is Envirite's belief that, in applying "mixture" and "derived from" principles per 40 CFR 261.3 the Town is concerned that the soil contains listed hazardous waste.

In view of the landmark *Shell Oil* decision in 1991, and as affirmed by subsequent federal court decisions and a decision of USEPA's Environmental Appeals Board, waste management activities during the 1980 - 1991 time period were not subject to the mixture and derived from rules. [See *Shell Oil v. Environmental Protection Agency,* 950 F 2d 741 (D.C. Cir. 1991.) See *United States* v. *Goodner Brothers Aircraft, Inc.*, 966 F 2d 380 (8th Cir. 1992). See *United States v. Recticel Foam Corporation*, 858 F. Supp. 726 (E.D. Tenn. 1993.) See *United States v. Bethlehem Steel Corporation* 38 F. 3d 862 (7th Cir. 1994.) See *In Re Hardin County, Ohio* Docket No. RCRA B.W.89.R.29 (April 12, 1994), (USEPA's Environmental Appeals Board.)]

Envirite believes that ample evidence exists to support the view that, should the Town ever need to excavate and dispose of the soil, such disposed material would not be classified as a listed hazardous waste. Furthermore, based both on its knowledge of the affected area and all analytical reports to which it has had access, Envirite believes that the material does not exhibit any characteristic of hazardous waste.

Also, it should be noted that in its October 9, 1996 correspondence to the Town, CTDEP opined that the soil in the affected area is not RCRA hazardous waste, and that such soil should be managed as polluted soil in accordance with applicable Connecticut regulations.

Analysis of soil samples collected from spill area

EPA agrees that it would have been prudent for Envirite to analyze soil samples collected from the Wastewater Spill Area for organics. Additionally, Envirite should have performed an SPLP leach procedure on select samples...

As noted above, analytical data on the concentration of organic chemicals in the soil are now available, and they indicate that all are below the levels set in CTDEP's conservative Residential Direct Exposure to Soil remediation standards. With respect to SPLP testing, it should be noted that all samples collected by HRP were analyzed by TCLP to determine the presence of leachable cadmium and chromium. The TCLP test results indicate leachate concentrations for both metals at one one hundredth of the TC characteristic regulatory level. When compared to the vast majority of samples analyzed, the TC regulatory level is at least three orders of magnitude greater than measured leachate concentrations.

With respect to the organics results, methlyene chloride was detected in every sample, except for one. Reported values were in the range of 3.5 to 27 μg/kg. Methylene chloride is a common laboratory contaminant. It is not logically related to any release from the ruptured effluent pipe. Furthermore, it is so volatile, that it most likely would have dissipated from the area from the time the pipe ruptured in 1988 until the time HRP collected samples in August, 1995. Also of note is the fact that CTDEP's Residential Direct Exposure to Soil standard is 82 mg/kg, which is more than one-thousand times greater than the high end of the data range. Further, the highest reported value is less than EPA's Region III risk-based criterion for industrial settings.

RFI PRELIMINARY ECOLOGICAL HAZARD IDENTIFICATION

SPECIFIC COMMENTS

Section 4.2 Sediment

Page 25, first paragraph

Address the likelihood that contaminants are being discharged from the non-contact cooling water outfall depicted in Figure 4-4.

The non-contact cooling water outfall is no longer used and has reportedly not been used since May 1990.

Section 4.2.1.3 Chemical Constituent Characterization

Page 25, last paragraph

Due to the history of metals waste treatment at the site, it is recommended that any future sediment chemical analysis performed for this investigation include acid volatile sulfides/simultaneously extracted metals (AVS/SEM) as a measure of bioavailability for divalent metals.

Future sampling will include AVS/SEM.

Section 5.1 Benthic Invertebrate Bioassessment

Page 27, last paragraph

It should be noted that the benthic invertebrate sampling stations were not collocated with any sediment sampling station in which chemical analysis was performed. Typically, in an effort to strengthen the causal relationship between chemical contaminants detected in sediments to biological impacts, sediments should be sampled from one sampling location

and split for benthic community and chemistry analysis. In this instance, "riffle" stations were used to indicate areas of potential impacts and perhaps the need for additional evaluation.

As described in the approved RFI Work Plan, sediment sampling stations were selected based on consistency of the sediment matrix (i.e. samples composed of similar distributions of grain-size and organic content). At the Envirite site, the areas of similar sediment type did not correspond to the stream environment areas which were important to the ecological assessment as described in EPA guidance.

Section 5.6 Conclusions

In the first sentence BB-A2 should be changed to BB-A3.

Further consideration should be devoted to impacts occurring as a result of anthropogenic activities:

The conclusions state that RBP metrics indicate that BB-A2 shows slight-impairment. The conclusions go further to state that this condition may be caused by beaver activity. However, it should also be noted that the Plecoptera species are non-existent in the spring and greatly reduced in the fall at this location in comparison to the reference location. There is scientific information that suggests the Plecoptera are early indicators of subtile but existing degradation. Envirite property is hydraulically upgradient of this location.

The first sentence of Section 5.6, the reference to BB-A2 should be changed to BB-A3. The conclusions regarding RBP metrics is discussed further in the PHERE.

Table 4-5 Results of Physical Parameter Analysis

Total organic carbon (TOC) units are in error. Correct the units to read mg/kg.

Explain or Correct: location NRA-2 is missing from the following tables with no notation of explanation:

> Table 5-10 FISH SURVEY OF BRANCH BROK AND NAUGATUCK RIVER ROUND 1: JUNE 1994
>
> Table 5-11: FISH SURVEY OF BRANCH BROOK AND NAUGATUCK RIVER ROUND 2: NOVEMBER 1994

A corrected table is attached in the appendices.

Date from NRA-2 is presented on the referenced tables (see appendices)

Tables 9-1 through 9-34

The units associated with the results found in these tables are absent and should be included.

Without clarification, it is assumed that the concentrations for surface water and sediment are in mg/kg (ppm).

The units are mg/kg (ppm).

Table 9-33 Naugatuck River Upstream Sediment Analytical Data Summary

Provide clarification and correction, as required:

> Table 9-33 includes sample location NRI11 which, according to Figure 4-4, is a location found adjacent to the site.

Based on groundwater flow paths observed at the site this location was interpreted to be upstream from potential site impacts.

Table 9-35 Sample Identification Key

Provide units of measurement in Section 5 of this key.

Measurement units are in feet (ft).

QUALITY ASSURANCE REVIEW
APPENDIX I - DATA VALIDATION

General Comments

1) GZA stated in their data validation report (Appendix I) that the abbreviated validation frequently included some of the above full validation parameters, if there was an indication that data quality may be affected. It must be identified what criteria made an abbreviated data validation proceed to a full data validation procedure.

Issues which would indicate a need for further review include a suspected problem with the chromatography (for example, the presence of TICs in the trip blank as weel as all the samples), a suspected error in reporting (for example, the detection of an unusual compound), or a question about dilution factors. In addition, when internal area summaries were presented to the validator, this information was reviewed during the abbreviated validation.

2) Region I has published guidance for a three tier data validation approach. The title of the guidance document is "Region I Tiered Organic and Inorganic Data Validation Guidelines (7-1-93)". *See Attachment #2. The QA office recommends that GZA study*

this document and consider using it as a basis for future work. It was designed to expedite data validation and to cut costs.

GZA will review guidance for use in future work.

3) Performance Evaluation (PE) samples are a necessity to the Region I tiered approach. It is recommended that PE samples be included per analytical method and matrix. A summary of the PE samples must be included in the Quality Assurance Plan (Section 33.0 of the RFI proposal). PE samples are available from commercial sources. They provide a degree of confidence in the data.

In the next phase of work, the PE samples will be written into the QAPP and discussed with the laboratory to ensure they are ordered, analyzed and reported with packages.

4) GZA did not strictly follow the Region I Functional Guidelines practice of using three data validation flags of U, J, and R. When positive hits were found in the various blank, these hits were found in the field samples, they were flagged with an "X". The qualifiers "B" and "X" are CLP laboratory data qualifiers and should not be used on validated data.

Validation flags on future validation efforts will be limited to U, J, and R.

5) It is recommended that the DV procedures include a review of positive hits and non-detects, for positive compound identification and quantification.

Full validation of the data included a review for quantification and qualification. However, the screening level validation did not include this level of review unless an unusual compound was identified.

<u>Specific Comments - Organics</u>

<u>Holding Times and Preservatives</u>

The holding time and preservation procedures for each of the analytical methods are presented in Table 33-2 of the "Data Collection Quality Assurance Plan" of the RFI proposal. The holding times and preservatives proposed by GZA correspond to the ones recommended in the various analytical methods and in the Functional Guidelines. The appropriate holding times are indicated on the worksheets for each set of data.

The QA office checked all the holding times recorded on the worksheets. Qualifications for holding time violations were correctly applied. GZA found only 28 samples where minor holding time violations occurred and the data were properly qualified.

Sample 9405569 was an exception for which qualification due to a holding time violation was not imposed. This occurred in Volume X (2) in the first group of samples. Sample

9405569 was extracted in nine days instead of seven days as required. All the results for the pesticide/PCB fraction should have been estimated. The results were all non-detected, so the "U" qualifications should properly be qualified as "UJ". The data usability impact due to this discrepancy must be evaluated.

There is one holding time problem that was noted by GZA on several worksheets. It occurred on three reports covering a total of 36 samples. For the samples processed by the Synthetic Rain Leaching Procedure, no leach date was recorded on the results report (Form I) and no laboratory log books were available to help determine the holding times. However, for the Phase II, it is imperative to specify who is responsible for recording the dates and providing them for the final report. It is recommended that these roles and responsibilities be clearly stated in the QA Plan.

Sample 9405569 for pesticides/PCBs: The validation notes says it was extracted outside HT. However, the data was not flagged as estimated (J flag). The data should be amended to have a UJ flag (undetected-estimated). This should be noted in all the existing tales and will be revised in future submittals.

Blanks

GZA followed the Region I Functional Guidelines in applying qualifications based on blank contamination. Action levels were calculated for the blank contaminates and then the samples were qualified accordingly.

However, GZA made one deviation from the Region I Functional Guidelines. In examining the worksheets it was noted that they used a multiplication factor of X10 to calculate the action level for 2-hexanone, where X5 is required according to the Region I Functional Guidelines. See the 4/94 Groundwater VOA results in Volume X(1) of X(16). It is recommended that the data be reviewed with the appropriate action level and assessed for usability.

High levels of acetone, methylen chloride and 2-butanone were found in the equipment blanks. See 4/94 Groundwater VOA report and 10/94 SED VOA report in Appendix I Volume X(1) of X(6). This indicates a problem exists with the sampling protocol. The high blank values preclude obtaining any low level results for these analytes. However, the correct qualifies were applied to the associated data. It is recommended that these blank results be monitored more closely and that the samplers be alerted to any blank contamination problems that may be occurring so that corrective action can be taken. GZA should also determine if the elevated detection limits for the blank contaminants prohibit the use of the results for these analytes in meeting the DQO's of the project.

The target limit for 2-hexanone would be lowered from 14 to 7 ug/L. This change does not affect the usability of the data. 2-hexanone was only detected in one sample at 1.4 ug/L. This was changed to 10 U and remains at 10 U.

The Sampling protocol will be reviewed and modified so as to minimize the ketone contamination issues.

Calibration

To evaluate initial and continuing calibration results, a full (as opposed to abbreviated) data validation report was examined. The full data validation report for SDG Z1160 (2-15-95) was prepared by a subcontractor (A.L. Lindell) for GZA. Minor problems with the calibration data were identified by the original validator. The data validation qualifiers were applied appropriately.

However, one typo may have occurred on page 13 of her report. The report states "These samples did contain any pattern that would possibly match Aroclor-1260". Judging from the context of the paragraph this sentence would make sense if it said "These sampled did not contain any pattern that would possibly match Aroclor-1260". It is recommended that his ambiguity be reviewed and resolved.

The text should be corrected to read "These samples did not contain..." as noted by EPA.

Specific Comments - Inorganics

ICP Interference Check Sample and Serial Dilution

According to the Data Validation Procedures and Results narrative (page 1, Appendix I0, the ICP Interference Check Results were supposed to be examined during the abbreviated data validations. However, no discussion of the ICP Interference Check Sample Results could be found on the Abbreviated Data Validation Worksheets. See for example cases 1335B, 1335C, 1335D, and Z1340. If these results were reviewed, then the review should be documented on the worksheets. If they were not reviewed during the abbreviated data validation, then the narrative at the beginning of Appendix I should be corrected to reflect what actually was validated.

The same comments apply to serial dilution results. If they were performed, then their validation must be documented.

ICP Interference Check Sample: The data for the interference check samples and serial dilutions were not included in these reports and these items should be stricken from the narrative section of the report.

TABLES

TABLE 1-1
SUMMARY OF WELL AND GROUNDWATER ELEVATIONS
Envirite Facility
Thomaston, Connecticut

WELL ELEVATIONS (Feet MSL)

Well Number	MP-1	EX-1	MW30S	MW31S	MW31D	MW32S	MW32D	MW33	MW36S
Top of PVC	342.96	340.17	341.74	340.30	341.76	340.59	340.35	340.48	328.83
Ground	341	338	342	340	-	341	338	339	327
Top of Screen	328	317	303	323	313	324	308	323	305
Base of Screen	303	284	293	313	308	314	398	313	295
Bedrock Surface	-	281	293	-	309	298	298	-	-

GROUNDWATER DEPTH (Feet MSL)

Well Number	MP-1	EX-1	MW30S	MW31S	MW31D	MW32S	MW32D	MW33	MW36S
January 4, 1993	-	-	15.75	16.00	-	12.50	13.25	16.50	7.31
April 5, 1993	-	-	10.17	15.50	-	13.50	13.67	16.83	5.00
July 6, 1993	-	-	18.13	16.40	17.97	16.07	16.24	18.68	7.12
October 12, 1993	-	-	17.75	17.50	17.58	15.00	-	17.42	5.67
April 19-28, 1994	-	-	16.75	16.46	16.58	14.50	14.50	17.08	5.67
October 4-5, 1994	-	-	17.40	16.09	17.57	15.32	15.30	16.64	4.69
December 20, 1994	19.47	16.75	16.56	15.40	16.85	14.80	14.74	16.53	4.52

GROUNDWATER ELEVATION (Feet MSL)

Well Number	MP-1	EX-1	MW30S	MW31S	MW31D	MW32S	MW32D	MW33	MW36S
January 4, 1993	-	-	**325.99**	324.30	-	**328.09**	**327.10**	323.98	321.52
April 5, 1993	-	-	***331.57***	324.80	-	**327.09**	**326.68**	323.65	323.83
July 6, 1993	-	-	323.61	323.90	323.79	324.52	324.11	***321.80***	321.71
October 12, 1993	-	-	323.99	322.80	324.18	**325.59**	-	323.06	323.16
April 19-28, 1994	-	-	324.99	323.84	325.18	**326.09**	**325.85**	323.40	323.16
October 4-5, 1994	-	-	324.34	324.21	324.19	325.27	325.05	323.84	324.14
December 20, 1994	323.49	323.42	325.18	324.90	324.91	**325.79**	**325.61**	323.95	324.31

GROUNDWATER ELEVATION SUMMARY STATISTICS

Well Number	MP-1	EX-1	MW30S	MW31S	MW31D	MW32S	MW32D	MW33	MW36S
Count:	1	1	7	7	5	7	6	7	7
Exceedences of 327.05 feet MSL:	0	0	1	0	0	2	1	0	0
Exceedences of 325.5 feet MSL:	0	0	2	0	0	5	4	0	0
Minimum:	323.49	323.42	323.61	322.80	323.79	324.52	324.11	321.8	321.52
Maximum:	323.49	323.42	331.57	324.90	325.18	328.09	327.10	323.98	324.31
Average (x):	323.49	323.42	325.67	324.11	324.45	326.06	325.73	323.38	323.12
Median:	323.49	323.42	324.99	324.21	324.19	325.79	325.73	323.65	323.16
Standard Deviation (s):	-	-	2.72	0.70	0.57	1.19	1.09	0.77	1.12
Coefficient of Variation s/x:	-	-	0.008	0.002	0.002	0.004	0.003	0.002	0.003
Normally Distributed*:	-	-	Reject	Reject	Reject	Reject	Reject	Reject	Reject
Ensemble Mean**:	-	-	Accept	Accept	Accept	Accept	Accept	Accept	Accept
Ensemble Mean StDev***:	-	-	Reject	Reject	Reject	Accept	Accept	Reject	Accept

TABLE 1-1
SUMMARY OF WELL AND GROUNDWATER ELEVATIONS
Envirite Facility
Thomaston, Connecticut

WELL ELEVATIONS (Ft. MSL)								
Well Number	MW37D	MW41S	MW41D	MW42S	MW43S	MW43D	MW44S	MW44D
Top of PVC	328.39	335.23	334.40	341.12	340.42	340.64	338.64	339.26
Ground	326	333	333	339	339	339	338	338
Top of Screen	299	323	311	316	317	281	321	276
Base of Screen	294	313	300	306	307	271	311	266
Bedrock Surface	276	297	297	-	271	271	266	266

GROUNDWATER DEPTH (Feet MSL)								
Well Number	MW37D	MW41S	MW41D	MW42S	MW43S	MW43D	MW44S	MW44D
January 4, 1993	-	13.38	10.83	18.08	18.42	18.33	17.33	17.17
April 5, 1993	-	10.50	9.42	16.75	17.83	17.92	16.58	16.33
July 6, 1993	-	13.23	12.17	19.54	18.86	19.07	17.10	17.67
October 12, 1993	-	12.67	12.17	18.58	18.86	19.07	12.66	17.33
April 19-28, 1994	-	11.46	10.42	17.58	18.42	18.92	15.75	16.42
October 4-5, 1994	3.82	12.30	11.31	17.98	17.11	17.26	14.96	15.68
December 20, 1994	3.33	11.77	10.81	17.62	16.82	16.99	14.81	15.46

GROUNDWATER ELEVATION (Feet MSL)								
Well Number	MW37D	MW41S	MW41D	MW42S	MW43S	MW43D	MW44S	MW44D
January 4, 1993	-	321.85	323.57	323.04	322.00	322.31	321.31	322.09
April 5, 1993	-	324.73	324.98	324.37	322.59	322.72	322.06	322.93
July 6, 1993	-	322.00	322.23	321.58	321.56	321.57	321.54	321.59
October 12, 1993	-	322.56	322.23	322.54	321.56	321.57	**325.98**	321.93
April 19-28, 1994	-	323.77	323.98	323.54	322.00	321.72	322.89	322.84
October 4-5, 1994	324.57	322.93	323.09	323.14	323.31	323.38	323.68	323.58
December 20, 1994	325.06	323.46	323.59	323.50	323.60	323.65	323.83	323.80

GROUNDWATER ELEVATION SUMMARY STATISTICS								
Well Number	MW37D	MW41S	MW41D	MW42S	MW43S	MW43D	MW44S	MW44D
Count:	2	7	7	7	7	7	7	7
Exceedences of 327.05 feet MSL:	0	0	0	0	0	0	0	0
Exceedences of 325.5 feet MSL:	0	0	0	0	0	0	1	0
Minimum:	324.57	321.85	322.23	321.58	321.56	321.57	321.31	321.59
Maximum:	325.06	324.73	324.98	324.37	323.60	323.65	325.98	323.80
Average (x):	324.82	323.04	323.38	323.10	322.37	322.42	323.04	322.68
Median:	324.82	322.93	323.57	323.14	322.00	322.31	322.89	322.84
Standard Deviation (s):	0.35	1.03	0.98	0.88	0.82	0.86	1.63	0.84
Coefficient of Variation s/x:	0.001	0.003	0.003	0.003	0.003	0.003	0.005	0.003
Normally Distributed*:	Accept	Reject	Reject	Reject	Reject	Reject	Reject	Reject
Ensemble Mean**:	Accept	Accept	Accept	Accept	Accept	Accept	Accept	Accept
Ensemble Mean StDev***:	Reject	Reject	Reject	Reject	Reject	Reject	Accept	Reject

TABLE 1-1
SUMMARY OF WELL AND GROUNDWATER ELEVATIONS
Envirite Facility
Thomaston, Connecticut

WELL ELEVATIONS (Ft MSL)									
Well Number	MW50S	MW51D	MW52D	MW53D	MW56S	MW56D	MW57S	MW58S	MW58D
Top of PVC	337.66	340.37	342.45	339.75	332.96	332.78	331.30	329.30	329.21
Ground	337	341	342	338	333	333	331	329	329
Top of Screen	328	322	294	308	326	284	324	323	261
Base of Screen	318	312	284	298	321	279	319	318	256
Bedrock Surface	316	307	281	297	-	279.6	-	-	255

GROUNDWATER DEPTH (Feet MSL)									
Well Number	MW50S	MW51D	MW52D	MW53D	MW56S	MW56D	MW57S	MW58S	MW58D
January 4, 1993	12.00	14.67	16.67	13.50	-	-	-	-	-
April 5, 1993	11.92	14.00	15.83	13.83	-	-	-	-	-
July 6, 1993	14.07	17.16	19.80	15.97	-	-	-	-	-
October 12, 1993	13.50	16.58	19.80	15.33	-	-	-	-	-
April 19-28, 1994	13.25	15.75	17.54	15.04	10.33	10.50	8.92	7.50	7.25
October 4-5, 1994	13.72	16.14	18.04	15.61	10.04	10.19	8.56	7.65	7.41
December 20, 1994	13.09	15.35	17.23	14.96	-	-	-	-	-

GROUNDWATER ELEVATION (Feet MSL)									
Well Number	MW50S	MW51D	MW52D	MW53D	MW56S	MW56D	MW57S	MW58S	MW58D
January 4, 1993	**325.66**	**325.70**	**325.78**	**326.25**	-	-	-	-	-
April 5, 1993	**325.74**	**326.37**	**326.62**	**325.92**	-	-	-	-	-
July 6, 1993	323.59	323.21	322.65	323.78	-	-	-	-	-
October 12, 1993	324.16	323.79	322.65	324.42	-	-	-	-	-
April 19-28, 1994	324.41	324.62	324.91	324.71	322.63	322.28	322.38	321.80	321.96
October 4-5, 1994	323.94	324.23	324.41	324.14	322.92	322.59	322.74	321.65	321.80
December 20, 1994	324.57	325.02	325.22	324.79	-	-	-	-	-

GROUNDWATER ELEVATION SUMMARY STATISTICS									
Well Number	MW50S	MW51D	MW52D	MW53D	MW56S	MW56D	MW57S	MW58S	MW58D
Count:	7	7	7	7	2	2	2	2	2
Exceedences of 327.05 feet MSL:	0	0	0	0	0	0	0	0	0
Exceedences of 325.5 feet MSL:	2	2	2	2	0	0	0	0	0
Minimum:	323.59	323.21	322.65	323.78	322.63	322.28	322.38	321.65	321.80
Maximum:	325.74	326.37	326.62	326.25	322.92	322.59	322.74	321.80	321.96
Average (x):	324.58	324.71	324.61	324.86	322.78	322.44	322.56	321.73	321.88
Median:	324.41	324.62	324.91	324.71	322.78	322.44	322.56	321.73	321.88
Standard Deviation (s):	0.83	1.09	1.51	0.91	0.21	0.22	0.25	0.11	0.11
Coefficient of Variation s/x:	0.003	0.003	0.005	0.003	0.001	0.001	0.001	0.000	0.000
Normally Distributed*:	Reject	Reject	Reject	Reject	Accept	Accept	Accept	Accept	Accept
Ensemble Mean**:	Accept	Accept	Accept	Accept	Accept	Accept	Accept	Accept	Accept
Ensemble Mean StDev***:	Reject	Accept	Accept	Reject	Reject	Reject	Reject	Reject	Reject

TABLE 1-1
SUMMARY OF WELL AND GROUNDWATER ELEVATIONS
Envirite Facility
Thomaston, Connecticut

WELL ELEVATIONS (Ft. MSL)							
Well Number	MW59S	MW59D	MW60S	MW61S	MW61D	MW62S (3)	MW63S
Top of PVC	331.12	331.36	329.61	339.31	339.34	338.49	342.68
Ground	331	331	330	-	-	-	-
Top of Screen	326	291	326	315	296	318	-
Base of Screen	316	281	316	309	286	316	-
Bedrock Surface	-	280	-	284	284	316	-

GROUNDWATER DEPTH (Feet MSL)							
Well Number	MW59S	MW59D	MW60S	MW61S	MW61D	MW62S (3)	MW63S
January 4, 1993	-	-	-	-	-	-	-
April 5, 1993	-	-	-	-	-	-	-
July 6, 1993	-	-	-	16.81	20.04	15.29	17.84
October 12, 1993	-	-	-	16.81	17.58	14.92	17.25
April 19-28, 1994	8.75	8.92	7.58	15.00	15.33	14.50	16.08
October 4-5, 1994	9.05	9.27	7.93	16.10	15.02	14.89	17.09
December 20, 1994	-	-	-	14.79	14.85	14.35	16.48

GROUNDWATER ELEVATION (Feet MSL)							
Well Number	MW59S	MW59D	MW60S	MW61S	MW61D	MW62S (3)	MW63S
January 4, 1993	-	-	-	-	-	-	-
April 5, 1993	-	-	-	-	-	-	-
July 6, 1993	-	-	-	322.50	319.30	323.20	324.84
October 12, 1993	-	-	-	322.50	321.76	323.57	325.43
April 19-28, 1994	322.37	322.44	322.03	324.31	324.01	323.99	**326.60**
October 4-5, 1994	322.07	322.09	321.68	323.21	324.32	323.60	**325.59**
December 20, 1994	-	-	-	324.52	324.49	324.14	**326.20**

GROUNDWATER ELEVATION SUMMARY STATISTICS							
Well Number	MW59S	MW59D	MW60S	MW61S	MW61D	MW62S (3)	MW63S
Count:	2	2	2	5	5	5	5
Exceedences of 327.05 feet MSL:	0	0	0	0	0	0	0
Exceedences of 325.5 feet MSL:	0	0	0	0	0	0	3
Minimum:	322.07	322.09	321.68	322.50	319.30	323.20	324.84
Maximum:	322.37	322.44	322.03	324.52	324.49	324.14	326.60
Average (x):	322.22	322.27	321.86	323.41	322.78	323.70	325.73
Median:	322.22	322.27	321.86	323.21	324.01	323.60	325.59
Standard Deviation (s):	0.21	0.25	0.25	0.97	2.23	0.37	0.69
Coefficient of Variation s/x:	0.001	0.001	0.001	0.003	0.007	0.001	0.002
Normally Distributed*:	Accept	Accept	Accept	Reject	Accept	Reject	Reject
Ensemble Mean**:	Accept	Accept	Accept	Accept	Accept	Accept	Accept
Ensemble Mean StDev***:	Reject	Reject	Reject	Reject	Accept	Reject	Reject

TABLE 1-1
SUMMARY OF WELL AND GROUNDWATER ELEVATIONS
Envirite Facility
Thomaston, Connecticut

WELL ELEVATIONS (Ft. MSL)

Well Number	Count:	Exceedences of 327.05 feet MSL:	Exceedences of 325.5 feet MSL:	Minimum:	Maximum:
Top of PVC	33	33	33	328.39	342.96
Ground	28	26	28	326.39	342.11
Top of Screen	32	2	5	260.71	328.00
Base of Screen	32	1	1	255.71	397.74
Bedrock Surface	22	0	0	254.51	316.47

GROUNDWATER DEPTH (Feet MSL)

Well Number	Count:	Exceedences of 327.05 feet MSL:	Exceedences of 325.5 feet MSL:	Minimum:	Maximum:
January 4, 1993	17	0	0	7.31	18.42
April 5, 1993	17	0	0	5.00	17.92
July 6, 1993	22	0	0	7.12	20.04
October 12, 1993	21	0	0	5.67	19.80
April 19-28, 1994	30	0	0	5.67	18.92
October 4-5, 1994	31	0	0	3.82	18.04
December 20, 1994	25	0	0	3.33	19.47

GROUNDWATER ELEVATION (Feet MSL)

Well Number	Count:	Exceedences of 327.05 feet MSL:	Exceedences of 325.5 feet MSL:	Minimum:	Maximum:
January 4, 1993	17	2	7	321.31	328.09
April 5, 1993	17	2	7	322.06	331.57
July 6, 1993	22	0	0	319.30	324.84
October 12, 1993	21	0	2	321.56	325.98
April 19-28, 1994	30	0	3	321.72	326.60
October 4-5, 1994	31	0	1	321.65	325.59
December 20, 1994	25	0	3	323.42	326.20

Legend:

BOLD ITALICS : probable outliers

Bold,Light shading: exceed 325.55 Ft. MSL

Bold, Medium shading: exceed 327.05 Ft. MSL

* PPCC Test (Vogel, 1986, Water Resources Research., v. 22, p. 587-590; v. 23, p. 2013).

** Ostle's t-test (Haan, 1991, Statistical Methods in Hydrology, Iowa State University Press).

*** EXCEL 7.1 F-test

Accept indicates a statistical test was NOT able to differentiate the sample data from the hypothesized statistic (the ensemble mean or variance) or the hypothesized distribution (the Normal distribution)... **possibily due to insuffiicinent data, or else there is truly no significant difference.**

Reject indicates a statistical test was able to differentiate the sample data from the hypothesized statistic (the ensemble mean or variance) or the hypothesized distribution (the Normal distribution)... **a significant difference exists.**

TABLE 1-1
SUMMARY OF WELL AND GROUNDWATER ELEVATIONS
Envirite Facility
Thomaston, Connecticut

WELL ELEVATIONS (Ft. MSL)				
Well Number	Average (x):	Median:	Standard Deviation (s):	Coefficient of Variation s/x:
Top of PVC	337.06	339.31	4.81	0.014
Ground	335.61	337.86	4.83	0.014
Top of Screen	310.29	316.25	17.09	0.054
Base of Screen	303.68	307.62	24.15	0.079
Bedrock Surface	287.32	283.84	16.75	0.059

GROUNDWATER DEPTH (Feet MSL)				
Well Number	Average (x):	Median:	Standard Deviation (s):	Coefficient of Variation s/x:
January 4, 1993	14.81	15.75	3.04	0.193
April 5, 1993	13.86	14.00	3.50	0.250
July 6, 1993	16.60	17.13	2.96	0.173
October 12, 1993	15.91	17.25	3.22	0.187
April 19-28, 1994	13.43	14.75	3.86	0.262
October 4-5, 1994	13.23	15.02	4.19	0.279
December 20, 1994	14.57	15.35	3.69	0.240

GROUNDWATER ELEVATION (Feet MSL)				
Well Number	Average (x):	Median:	Standard Deviation (s):	Coefficient of Variation s/x:
January 4, 1993	324.15	323.98	2.14	0.007
April 5, 1993	325.10	324.80	2.29	0.007
July 6, 1993	322.66	322.58	1.31	0.004
October 12, 1993	323.31	323.06	1.31	0.004
April 19-28, 1994	323.62	323.66	1.35	0.004
October 4-5, 1994	323.54	323.60	1.03	0.003
December 20, 1994	324.44	324.49	0.81	0.002

Notes:

1. Groundwater elevations measured by EAS Laboratory personnel in January, April, and October 1993 and April and October 1994. Other groundwater elevations measured by GZA.

2. A "-" indicates information not available. "S" indicates Shallow Overburden. "D" indicates Deep Overburden, and "B" indicates Bedrock.

3. Historic data for well MW-62B indicate that the well does not recharge, indicating that water levels do not reflect piezometer head in the bedrock.

TABLE 1-1
SUMMARY OF WELL AND GROUNDWATER ELEVATIONS
Envirite Facility
Thomaston, Connecticut

WELL ELEVATIONS (Ft. MSL)			
Well Number	Normally Distributed*:	Ensemble Mean	Ensemble StDev
Top of PVC	Reject	Accept	Reject
Ground	Reject	Accept	Reject
Top of Screen	Reject	Accept	Reject
Base of Screen	Reject	Accept	Accept
Bedrock Surface	Reject	Accept	Reject

GROUNDWATER DEPTH (Feet MSL)			
Well Number	Normally Distributed*:	Ensemble Mean	Ensemble StDev
January 4, 1993	Reject	Accept	Accept
April 5, 1993	Reject	Accept	Accept
July 6, 1993	Reject	Accept	Accept
October 12, 1993	Reject	Accept	Accept
April 19-28, 1994	Reject	Accept	Accept
October 4-5, 1994	Reject	Accept	Accept
December 20, 1994	Reject	Accept	Accept

GROUNDWATER ELEVATION (Feet MSL)			
Well Number	Normally Distributed*:	Ensemble Mean	Ensemble StDev
January 4, 1993	Reject	Accept	Reject
April 5, 1993	Reject	Accept	Reject
July 6, 1993	Reject	Accept	Accept
October 12, 1993	Reject	Accept	Accept
April 19-28, 1994	Reject	Accept	Accept
October 4-5, 1994	Reject	Accept	Reject
December 20, 1994	Reject	Accept	Reject

TABLE 1-2
LANDFILL BASE ELEVATION MEASURMENTS
Former Envirite Facility
Thomaston, Connecticut

LANDFILL BORING DESIGNATION	BASE OF RESIDUE ELEVATION AS FEET ABOVE MEAN SEA LEVEL
L-01	331.31
L-02	**327.05**
L-03	332.45
L-04	329.15
L-05	**327.05**
L-06	331.35
L-07	345.05
L-08	338.15
L-09	330.55
L-10	332.15

1. Residue elevations reported in this table are based upon split-spoon soil samples collected every five feet while advancing the landfill borings.

TABLE 3-2
SUMMARY BOREHOLE PERMEABILITY TESTS
ENVIRITE FACILITY
Thomaston, Connecticut

Shallow Overburden (S)				Deep Overburden (D)				Shallow Bedrock (B)			
WELL	TEST TYPE	HYDRAULIC CONDUCTIVITY (ft/sec.)	LOGARITHMS	WELL	TEST TYPE	HYDRAULIC CONDUCTIVITY (ft/sec.)	LOGARITHMS	WELL	TEST TYPE	HYDRAULIC CONDUCTIVITY (ft/sec.)	LOGARITHMS
MW-32S	c	3.5E-3	-2.45	MW-30	c	2.1E-3	-2.68	MW-37B	v	1.4E-3	-2.85
MW-36	c	1.6E-3	-2.80	MW-31D	c	2.1E-4	-3.67	MW-41B	v	2.3E-5	-4.64
MW-41S	c	1.3E-3	-2.89	MW-32D	c	6.8E-4	-3.17	MW-42B	v	2.3E-6	-5.64
MW-42S	c	4.4E-3	-2.36	MW-37D	c	7.2E-4	-3.15	MW-44B	v	1.6E-4	-3.80
MW-44S	c	2.0E-3	-2.70	MW-41D	c	1.5E-3	-2.82	MW-51B	v	3.3E-6	-5.48
MW-50S	c	4.4E-4	-3.36	MW-44D	c	8.3E-3	-2.08	MW-55B	v	1.9E-5	-4.72
MW-59S	c	5.2E-4	-3.28	MW-51D	c	9.4E-4	-3.03	MW-61B	v	1.8E-7	-6.74
MW-60	c	2.2E-4	-3.65	MW-53D	c	5.8E-3	-2.24				
MW-57	v	2.2E-3	-2.66	MW-58D	c	3.1E-3	-2.51				
				MW-59D	c	1.8E-3	-2.74				
				MW-56D	v	2.6E-3	-2.59				
Samples:		9	9			11	11			7	7
Mean:		1.8E-3	-2.91			2.5E-3	-2.79			2.3E-4	-4.84
Median:		1.6E-3	-2.80			1.8E-3	-2.74			1.9E-5	-4.72
Std Dev:		1.4E-3	0.44			2.5E-3	0.45			5.2E-4	1.28
Variance:		2.0E-6	0.19			6.0E-6	0.20			2.7E-7	1.63
Skew:		0.77	-0.55			1.62	-0.35			2.58	0.14
Coeff Var:		0.79	-0.15			0.97	-0.16			2.26	-0.26

STATISTICAL COMPARISON OF SAMPLE DATA FOR UNDERLYING POPULATIONS OF IDENTICAL MEANS	SHALLOW OVERBURDEN: DEEP OVERBURDEN		ALL OVERBURDEN:BEDROCK	
	Original data	Log transforms	Original data	Log transforms
Ostle test statistic (1963):	0.83	0.59	3.96	4.06
T-based test criterion:	2.25	2.27	2.15	2.44
Same mean of underlying pops.; 95% confidence level:	LIKELY	LIKELY	NO	NO
Variance test statistic (var.1/var.2):	0.33	0.93	15.35	0.12
F-based test criterion:	3.35	3.35	2.60	2.60
Same variance of two normal pops.; 95% confidence level:	LIKELY	LIKELY	NO	POSSIBLY

NOTES:

"c": constant drawdown test

"v": variable head test

1. Hydraulic conductivity data are expressed in feet per second.
2. Borehole permeability tests were conducted by GZA personnel on June 14 through June 22, 1994.
3. Constant drawdown test data were evaluated using the method of Hvorslev (1951). See additional borehole permeability test tables included in Appendix E for other information.
4. Variable drawdown test data were evaluated using AQTESOLV version 1.1. See additional borehole permeability test tables included in Appendix E for other information.
5. The comparative test of two means of Ostle (1963) and the test for equivalence of variance have been implemented as described in Haan (1991).

TABLE 3-3
COMPARISON OF SURFACE WATER AND GROUNDWATER ELEVATIONS
ENVIRITE CORPORATION
Thomaston Connecticut

BBP-1				MW-33				MW-41S			
Date	Time	Stream Stage	Head	Date	Time	Depth to Water	Head	Date	Time	Depth to Water	Head
20-Dec	9:06	0.75	323.99	20-Dec	9:55:00	16.53	323.95	20-Dec	9:53:00	14.79	324.52
20-Dec	14:43	0.75	323.99	20-Dec	13:10:30	16.52	323.96	20-Dec	13:13:00	14.79	324.52
20-Dec	15:58	0.75	323.99	20-Dec	15:49:00	16.57	323.91	20-Dec	15:47:00	14.81	324.50
21-Dec	8:14	0.76	323.98	21-Dec	7:41:00	16.67	323.81	21-Dec	7:46:00	14.84	324.47
21-Dec	11:42	0.75	323.99	21-Dec	10:07:00	16.67	323.81	21-Dec	10:05:00	14.85	324.46
21-Dec	15:22	0.76	323.98	21-Dec	14:41:00	16.68	323.80	21-Dec	14:47:00	14.85	324.46
22-Dec	8:19	0.78	323.96	22-Dec	7:26:00	16.74	323.74	22-Dec	7:29	14.88	324.43
22-Dec	11:47	0.77	323.97	22-Dec	18:42:00	16.76	323.72	22-Dec	11:04	14.88	324.43
23-Dec	7:41	0.79	323.95	23-Dec	5:47:00	16.78	323.70	23-Dec	5:51	14.91	324.40
23-Dec	10:27	0.77	323.97	23-Dec	11:42:00	16.74	323.74	23-Dec	11:45	14.91	324.40
27-Dec	11:20	0.49	324.27	27-Dec	11:04:00	16.08	324.40	27-Dec	11:06	14.31	325.00
26-Jan	-	#N/A	#N/A	26-Jan	-	16.37	324.11	26-Jan	-	14.62	324.69

BBP-3				MW-36				MW-44S			
Date	Time	Stream Stage	Head	Date	Time	Depth to Water	Head	Date	Time	Depth to Water	Head
20-Dec	9:01	1.46	323.96	20-Dec	9:20:00	4.52	324.31	20-Dec	11:42:00	14.81	323.83
20-Dec	14:39	1.46	323.96	20-Dec	14:53:00	4.54	324.29	20-Dec	13:47:00	14.86	323.78
20-Dec	15:42	1.46	323.96	20-Dec	16:07:00	4.55	324.28	20-Dec	18:25:30	14.9	323.74
21-Dec	8:10	1.46	323.96	21-Dec	9:11:00	4.61	324.22	21-Dec	7:39:00	15	323.64
21-Dec	11:39	1.46	323.96	21-Dec	11:52:00	4.61	324.22	21-Dec	10:12:00	15	323.64
21-Dec	15:18	1.46	323.96	21-Dec	15:30:00	4.62	324.21	21-Dec	14:37:00	15.03	323.61
22-Dec	8:16	1.49	323.93	22-Dec	8:31:00	4.66	324.17	22-Dec	7:24:00	15.08	323.56
22-Dec	11:44	1.47	323.95	22-Dec	11:57:00	4.67	324.16	22-Dec	10:58:00	15.10	323.54
23-Dec	7:38	1.48	323.94	23-Dec	7:49:00	4.69	324.14	23-Dec	5:47:00	15.14	323.50
23-Dec	10:22	1.48	323.94	23-Dec	10:53:00	4.68	324.15	23-Dec	11:41:00	15.07	323.57
27-Dec	11:15	1.20	324.41	27-Dec	11:30:00	4.05	324.78	27-Dec	11:02:00	14.27	324.37
26-Jan	-	#N/A	#N/A	26-Jan	-	4.37	324.46	26-Jan	-	14.66	323.98

NRP-1				MW-31D				MW-31S			
Date	Time	Stream Stage	Head	Date	Time	Depth to Water	Head	Date	Time	Depth to Water	Head
20-Dec	10:53	2.18	324.88	20-Dec	10:05:00	16.85	324.91	20-Dec	10:03:00	15.40	324.90
20-Dec	15:20	2.18	324.88			#N/A	#N/A			#N/A	#N/A
20-Dec	16:34	2.18	324.88	20-Dec	16:48:00	16.87	324.89	20-Dec	16:50:00	15.42	324.88
21-Dec	8:44	2.25	324.81	21-Dec	7:02:00	16.91	324.85	21-Dec	7:04:00	15.46	324.84
21-Dec	11:23	2.26	324.80	21-Dec	11:10:00	16.92	324.84	21-Dec	11:11:00	15.46	324.84
22-Dec	8:02	2.29	324.77	22-Dec	7:47:00	16.96	324.80	22-Dec	7:48:00	15.50	324.80
22-Dec	11:27	2.31	324.75	22-Dec	10:30:00	16.97	324.79	22-Dec	10:31:00	15.51	324.79
23-Dec	7:22	2.31	324.75	23-Dec	5:18:00	16.99	324.77	23-Dec	5:19:00	15.52	324.78
23-Dec	11:01	2.32	324.74	23-Dec	11:22:00	17.00	324.76	23-Dec	11:23:00	15.53	324.77
27-Dec	10:55	1.65	325.41	27-Dec	10:35:00	16.16	325.60	27-Dec	10:36:00	14.66	325.64

Prepared. 1/4/95
Updated: 4/4/97
Printed. 5/27/97

TABLE 3-4
SUMMARY OF DRAWDOWN ONE MINUTE PRIOR TO PUMP SHUTDOWN AND ESTIMATED RADIUS OF INFLUENCE
Former Envirite Facility
THomaston, Connecticut

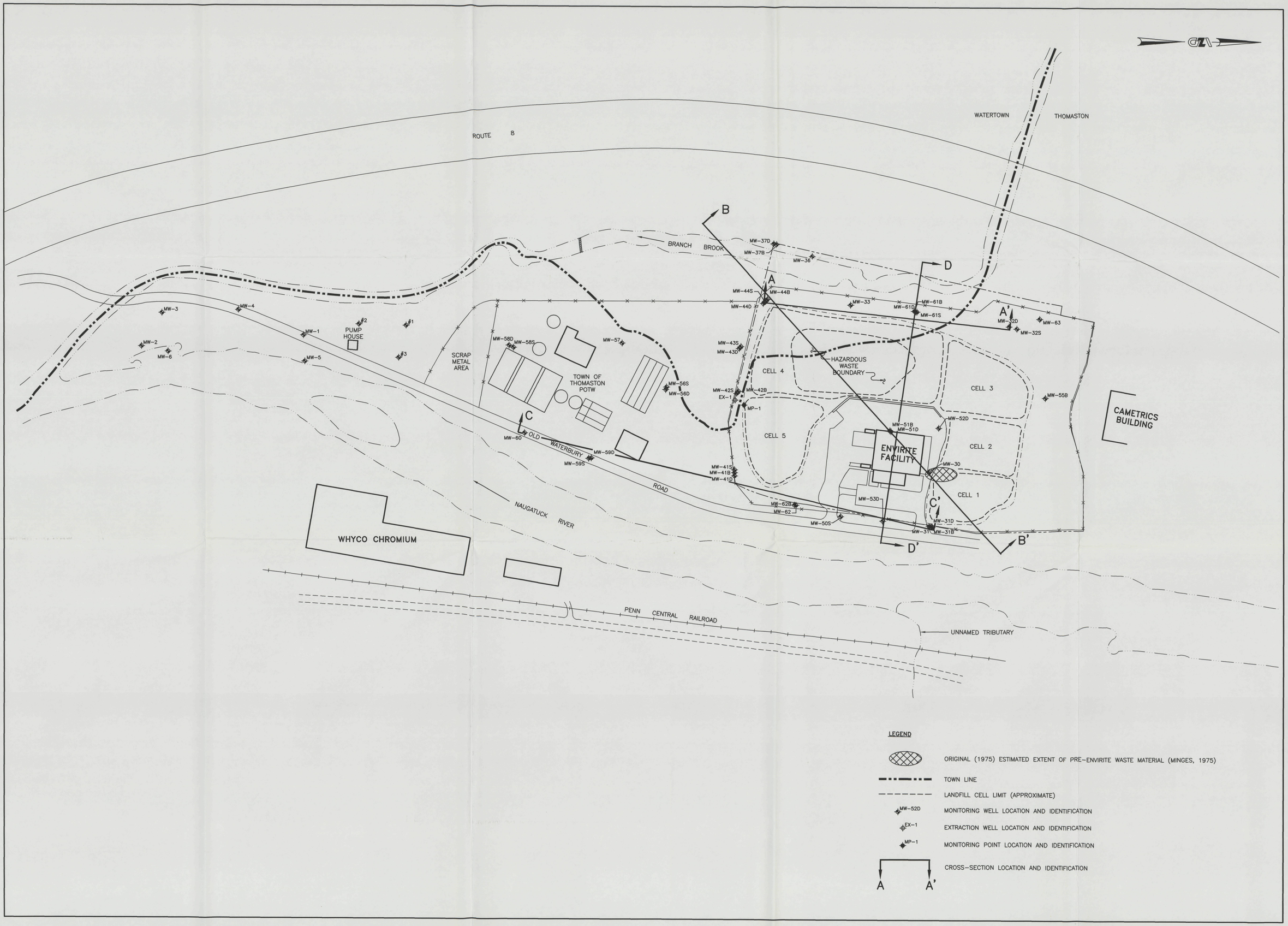
	LOCATION			REFERENCE ELEVATION	DRAWDOWN	PIEZOMETRIC HEAD	RADIUS OF INFLUENCE		
WELL	Northing	Easting	Distance to Pump Well EX-1	PVC	Barometrically Corrected	feet MSL	Bedrock	Deep Overburden	Shallow Overburden
MW-42B	1,859	1,440	16	341.15	-0.017	341.17	16	-	-
MW-44B	2,019	1,691	295	340.31	0.100	340.21	170	-	-
MW-41B	1,827	1,271	175	334.56	0.040	334.52	161	-	-
MW-41D	1,825	1,251	195	334.40	0.020	334.38	-	192	-
MW-43D	1,902	1,575	139	340.64	0.288	340.35	-	1	-
MW-44D	1,991	1,671	263	339.26	0.090	339.17	-	168	-
MW-51D	2,237	1,305	402	340.37	-0.010	340.38	-	402	-
EX-1	1,859	1,443	0	-	12.352	-	-	-	-
MP-2	1,872	1,446	18	-	1.838	-	-	-	-
MW-41S	1,830	1,293	153	335.23	0.020	335.21	-	-	150
MW-42S	1,864	1,462	10	341.12	0.085	341.04	-	-	7
MW-43S	1,912	1,593	159	340.42	0.055	340.36	-	-	135
MW-44S	1,996	1,691	283	338.64	0.040	338.60	-	-	261

MEDIAN RADIUS OF INFLUENCE ESTIMATES			
Shallow Overburden:	-	-	**142**
Deep Overburden:	-	**180**	-
All Overburden:	-	**159**	
Bedrock:	**161**	-	-
All Estimates:	-	**161**	-

Notes:

1. All data are expressed in units of feet. **Elevations are relative to feet above Mean Sea Level (MSL).**
2. The Pump was run from 12:40:40 PM on December 20 through 0930 AM on December 23, 1994.
3. The data shown were collected at 0929 AM on Deceber 23, 1994.
4. Drawdowns have been corrected for barometric changes and changes caused by disturbances to preesure transducers.
5. The pump rate is assumed to have been 63 gallons per minute throughout the pumping period.
6. Radii of influence were approximated using the Theim equation for steady state flow.

FIGURES



LEGEND

- ORIGINAL (1975) ESTIMATED EXTENT OF PRE-ENVIRITE WASTE MATERIAL (MINGES, 1975)
- TOWN LINE
- LANDFILL CELL LIMIT (APPROXIMATE)
- MW-52D MONITORING WELL LOCATION AND IDENTIFICATION
- EX-1 EXTRACTION WELL LOCATION AND IDENTIFICATION
- MP-1 MONITORING POINT LOCATION AND IDENTIFICATION
- A A' CROSS-SECTION LOCATION AND IDENTIFICATION

REV#	DESCRIPTION	BY	DATE

1"=100'
0' 50' 100' 200' 300' 400'

GZA GeoEnvironmental, Inc.

DESIGNED BY: JTG
CHECKED BY: JTG
REVIEWED BY: TFS
DRAWN BY: RJD
SCALE: 1"=100'
DATE: MARCH 15, 1995

ENVIRITE RCRA FACILITY INVESTIGATION
THOMASTON, CONNECTICUT

SITE PLAN

PROJECT NO. 41302.4

FIGURE NO. 1-1

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CADD FILE No.:52021\1-2 XREF FILE No.:XREF-BOR-100

FIGURE 1-2

BASE ELEVATION OF LANDFILL WASTE
PPCC TEST FOR NORMALITY
Former Envirite Facility
Thomaston, Connecticut

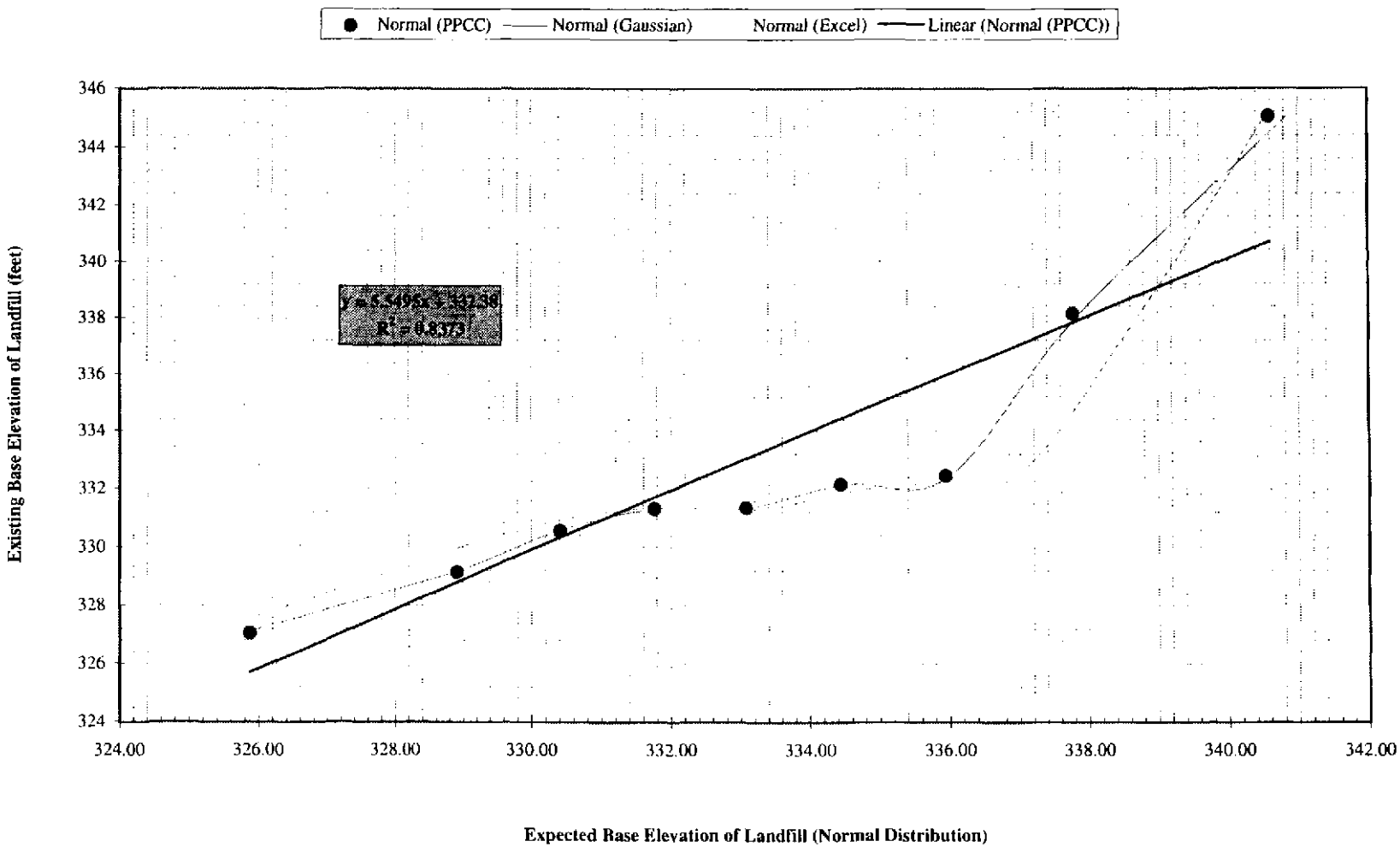


FIGURE 1-2

BASE ELEVATION OF LANDFILL WASTE
PPCC TEST FOR NORMALITY
Former Envirite Facility
Thomaston, Connecticut

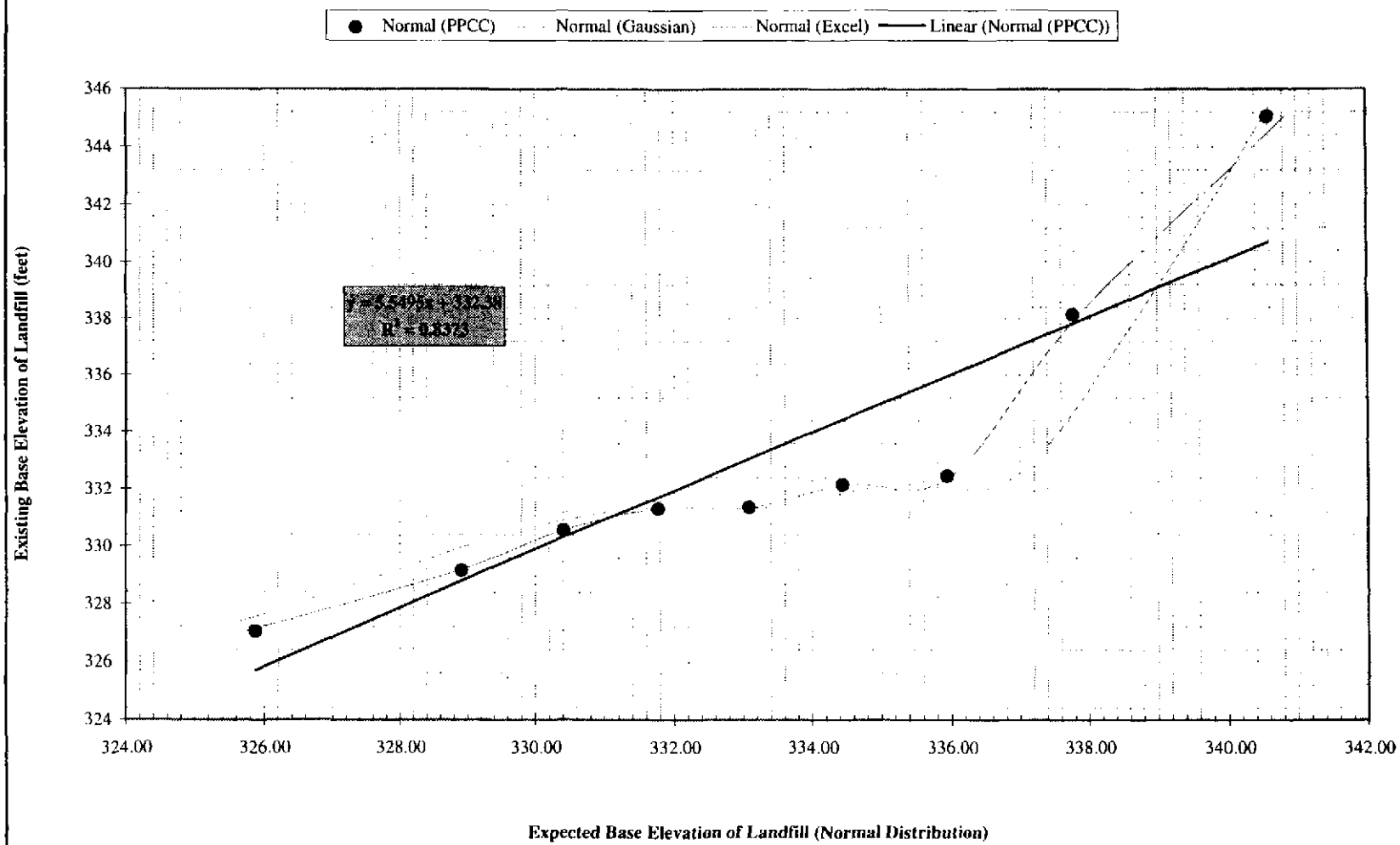


FIGURE 1-3

BASE ELEVATION OF LANDFILL WASTE FREQUENCY ANALYSIS
Former Envirite Facility
Thomaston, Connecticut

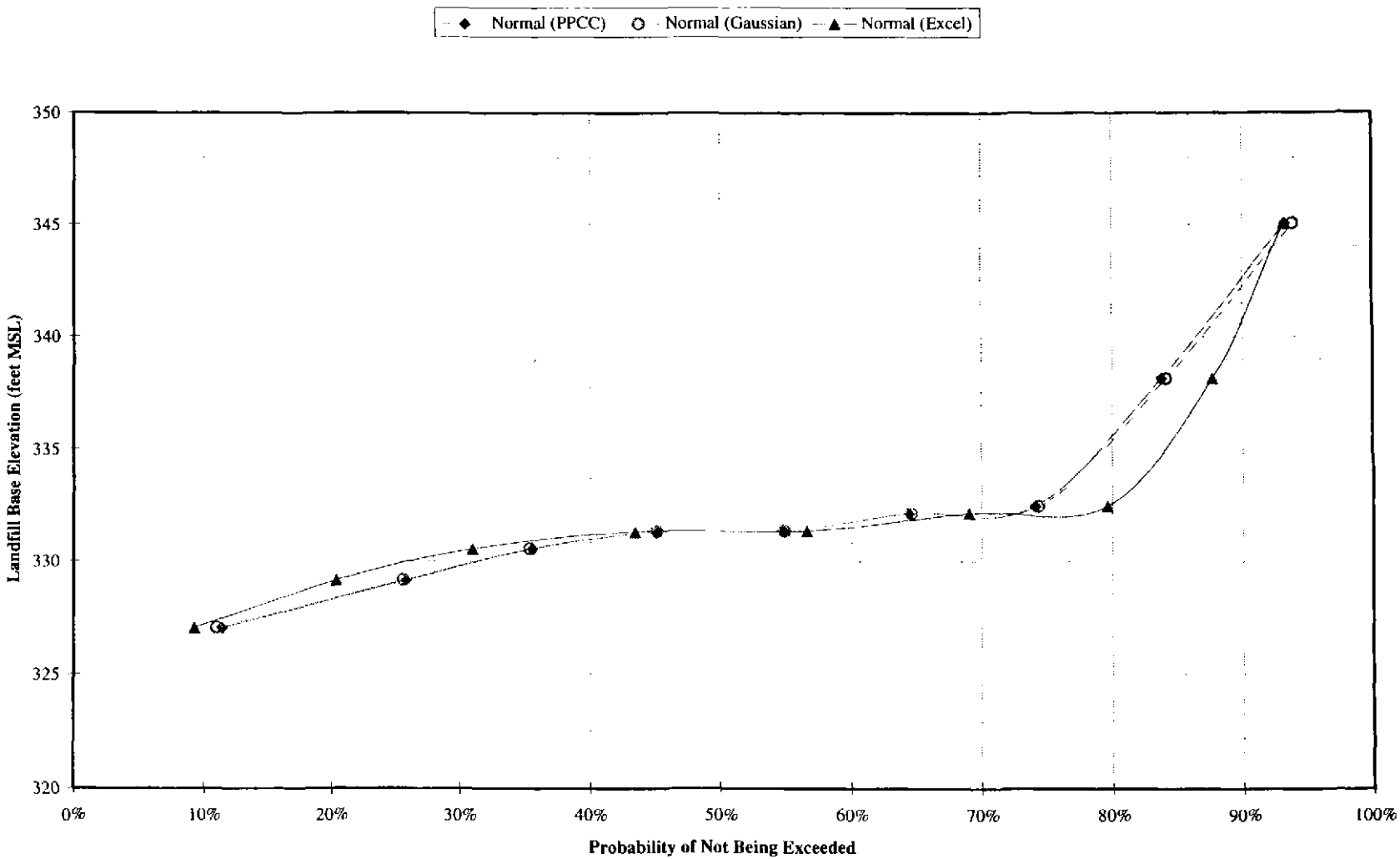


FIGURE 1-3

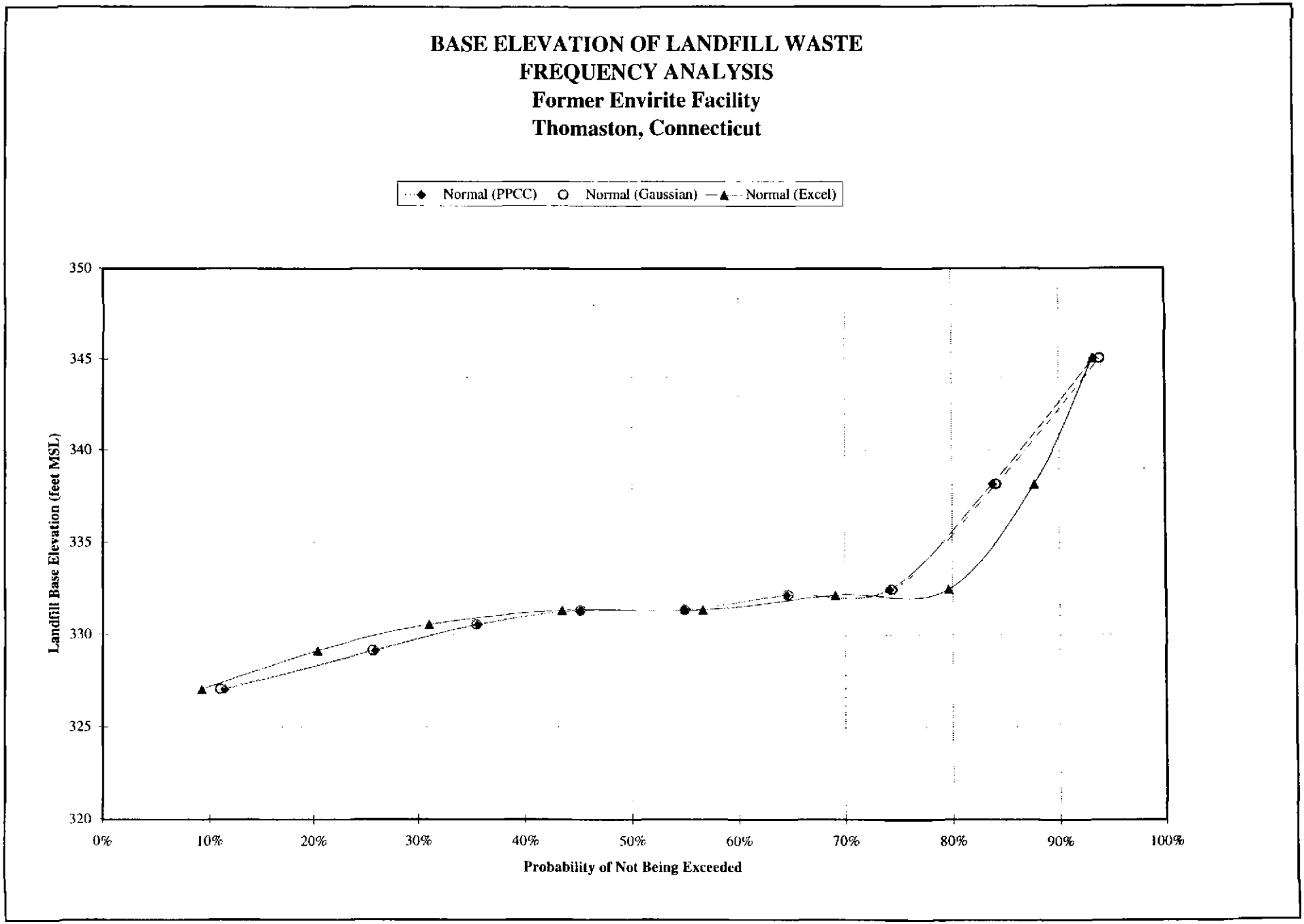

BASE ELEVATION OF LANDFILL WASTE
FREQUENCY ANALYSIS
Former Envirite Facility
Thomaston, Connecticut
Normal (PPCC)
Normal (Gaussian)
Normal (Excel)
Landfill Base Elevation (feet MSL)
350
345
340
335
330
325
320
0%
10%
20%
30%
40%
50%
60%
70%
80%
90%
100%
Probability of Not Being Exceeded

FIGURE 1-4

HISTOGRAM OF WATER LEVEL ELEVATION ENSEMBLE
January 4, 1993 through December 20, 1994
Former Envirite Facility
Thomaston, Connecticut

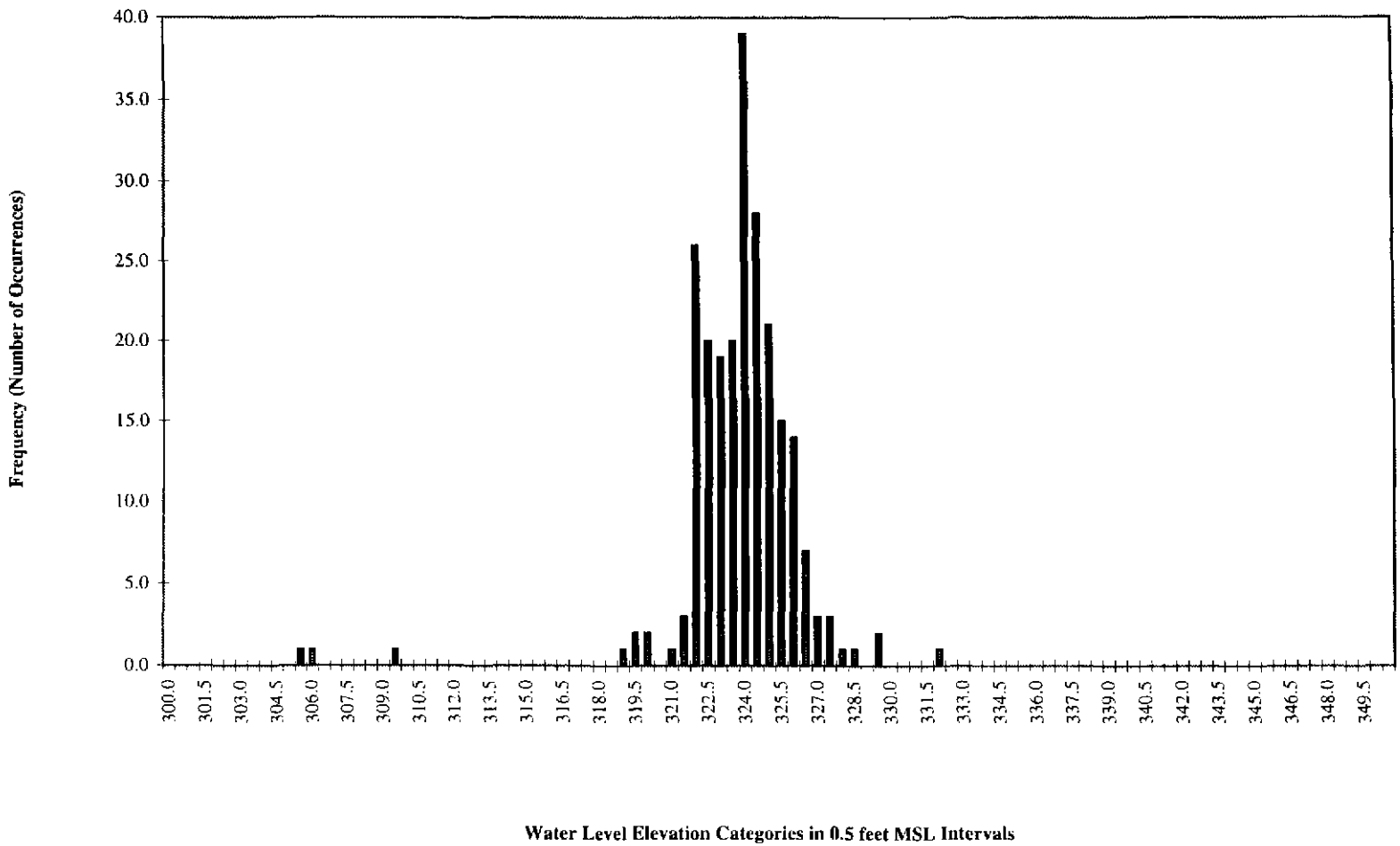
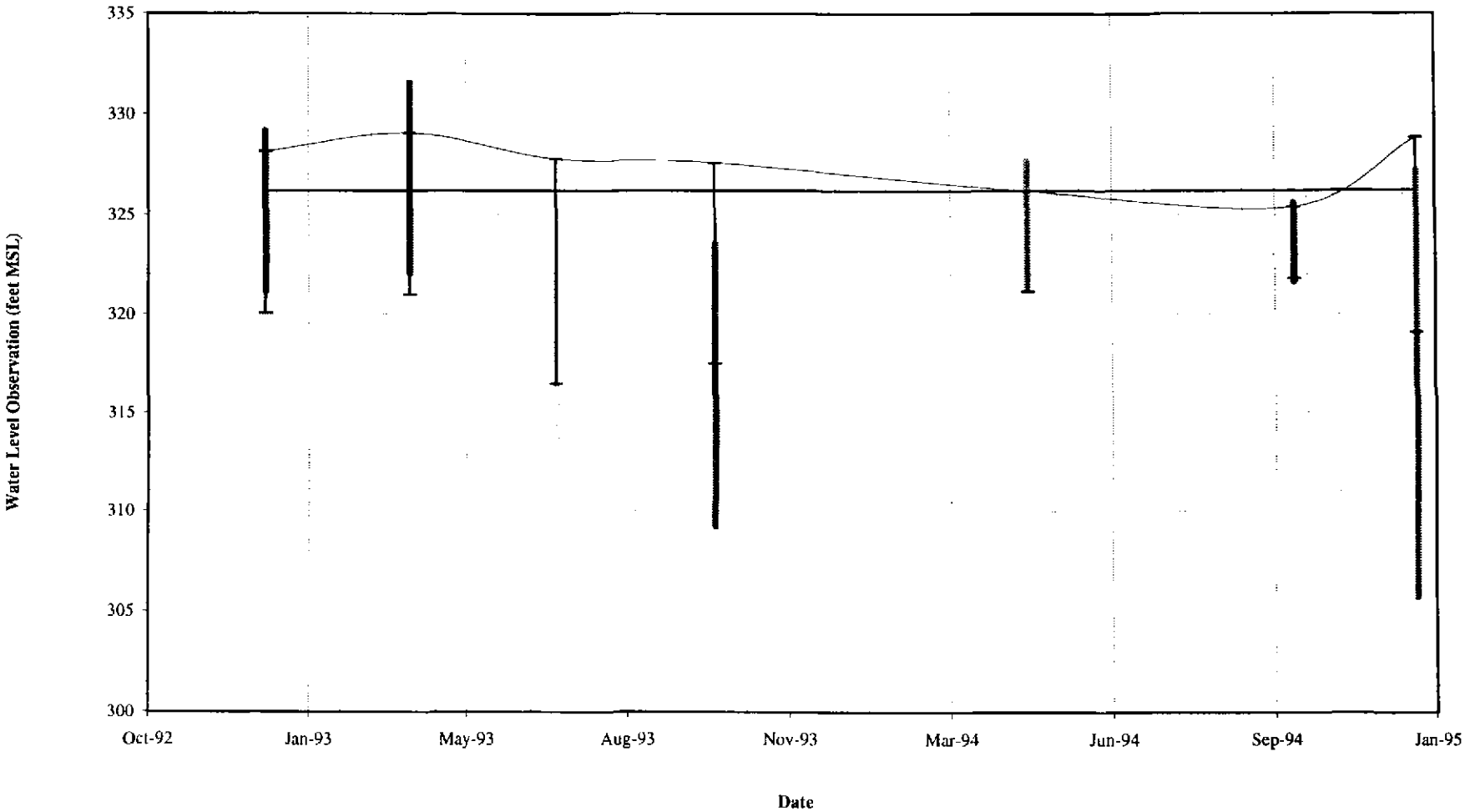


FIGURE 1-5

ENSEMBLE MSL WATER LEVEL OBSERVATIONS
DATA RANGES AND 90% CONFIDENCE INTERVALS ABOUT THE MEAN

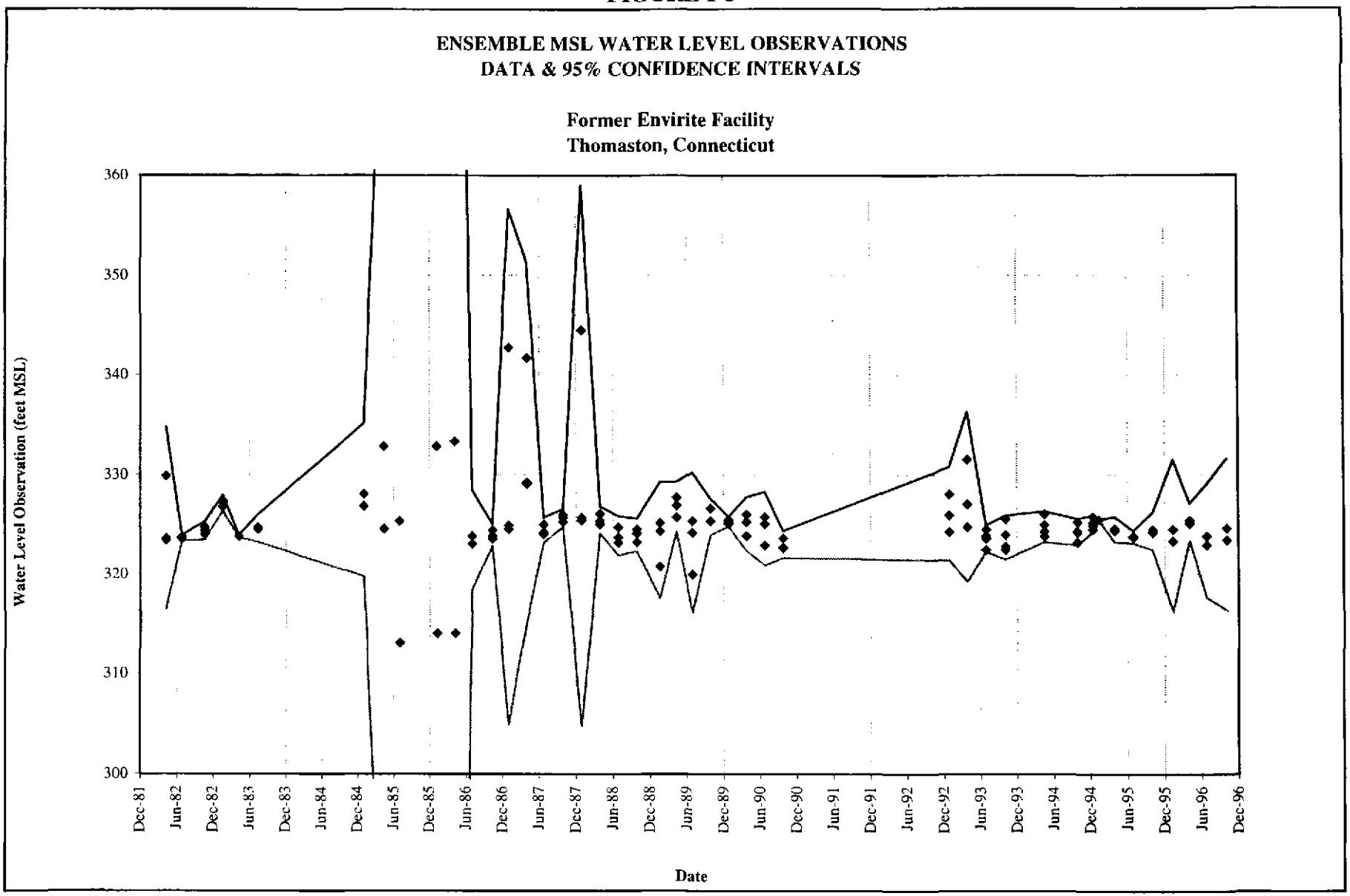
Former Envirite Facility
Thomaston, Connecticut



NOTES:

1. Data Ranges are shaded.
2. Confidence Intervals are shown as I-bars.

FIGURE 1-5



NOTES:

1. Data Ranges are shaded.
2. Confidence Intervals are shown as I-bars.

FIGURE 3-1

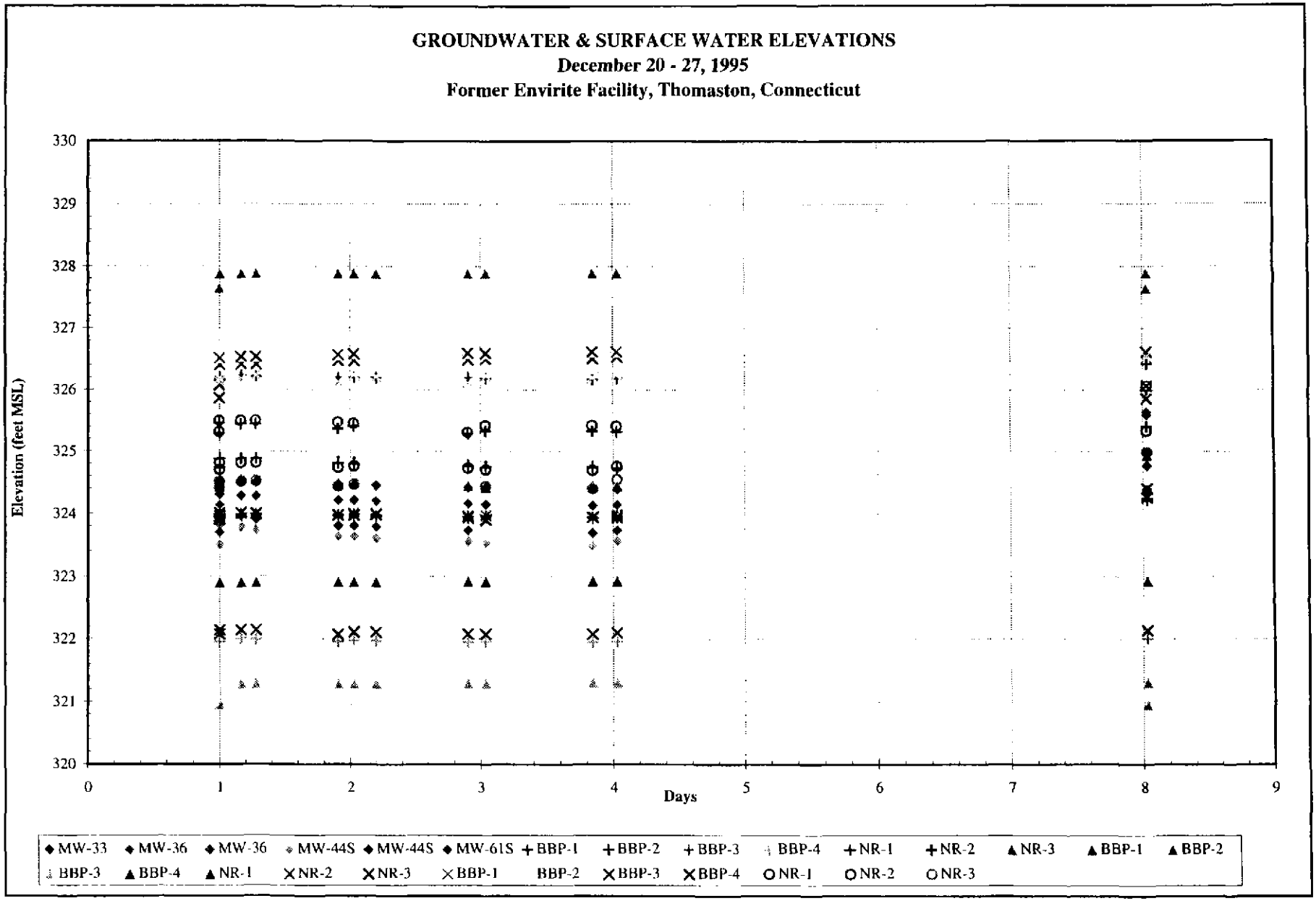
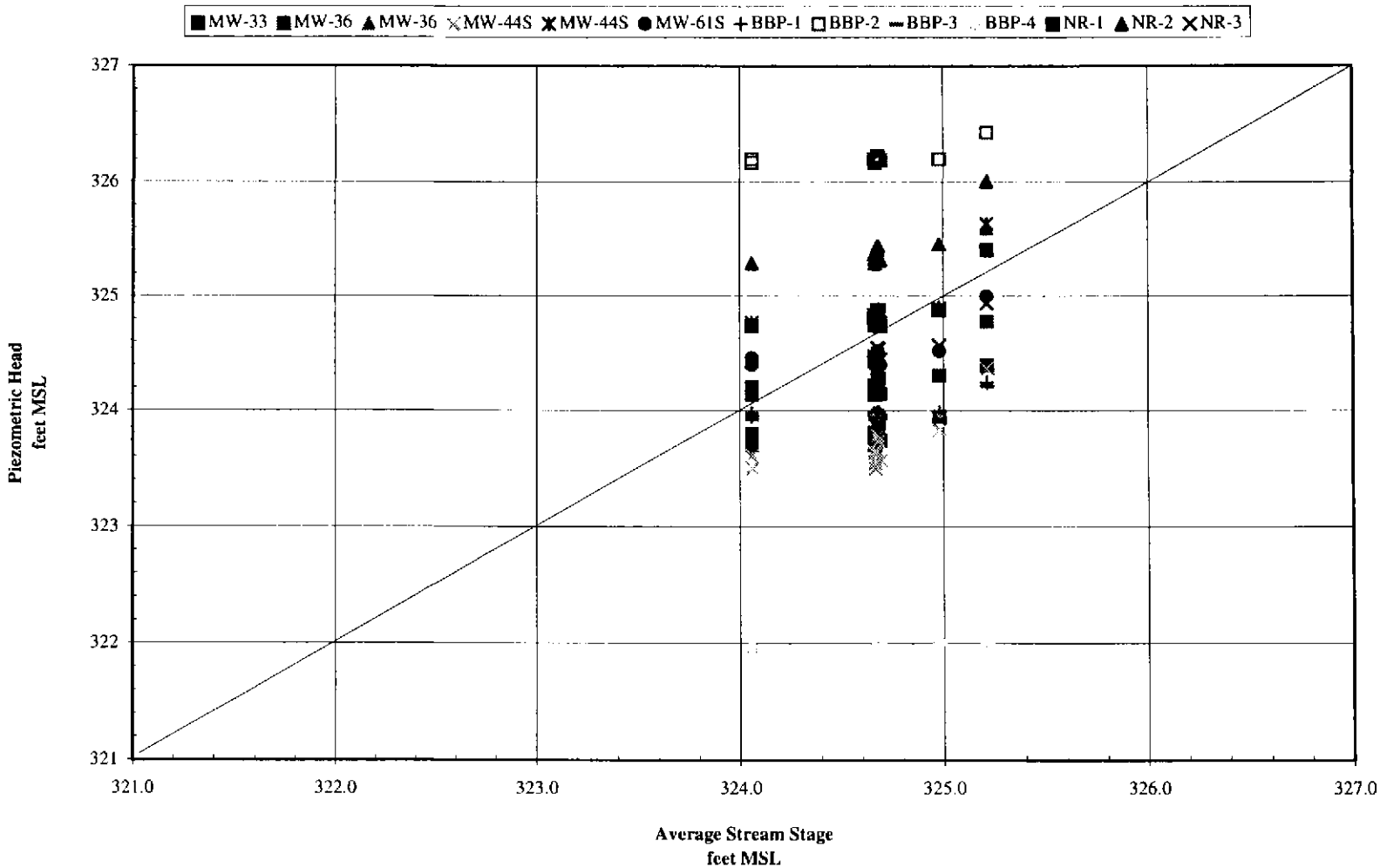

GROUNDWATER & SURFACE WATER ELEVATIONS
December 20 - 27, 1995
Former Envirite Facility, Thomaston, Connecticut
Elevation (feet MSL)
330
329
328
327
326
325
324
323
322
321
320
0
1
2
3
4
5
6
7
8
9
Days
MW-33
MW-36
MW-36
MW-44S
MW-44S
MW-61S
BBP-1
BBP-2
BBP-3
BBP-4
NR-1
NR-2
NR-3
BBP-1
BBP-2
BBP-3
BBP-4
NR-1
NR-2
NR-3
BBP-1
BBP-2
BBP-3
BBP-4
NR-1
NR-2
NR-3

FIGURE 3-2

AVERAGE STREAM STAGE VERSUS
SHALLOW PIEZOMETERS AND MONITORING WELLS
December 20 - 27, 1994
Former Envirite Facility
Thomaston, Connecticut



APPENDIX 3-1
BORINGS LOGS

GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655	ENVIRITE THOMASTON, CONNECTICUT	Boring No. EX-1 Page 1 of 2 File No. 41302.4 Chkd. By: JTG

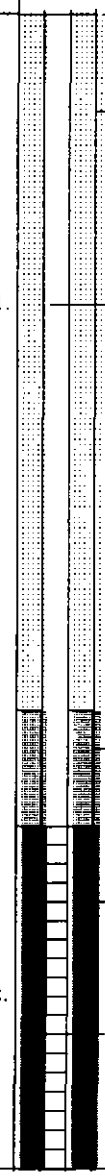
			Casing	Sampler
Boring Co.	GZA DRILLING			
Foreman	Al Augustine	Type	HSA	S.S.
GZA GeoEnvironmental Rep.	Pete Klingelhoffer	I.D./O.D.	6"	2" O.D.
Date Start 8/19/94	End 8/26/94	Hammer Wt.		140 LB.
Location	EX-1	Hammer Fall		30"
GS.Elev.	Datum	Other		

Groundwater Readings

Date	Time	Depth	Casing	Stab. Time
8/26/94	0730	14.8'	56.0'	15 hours

DPTH	CBSLNWGS	Sample Information: No.	Pen./Rec.	Depth (Ft.)	Blows/6"	Field Test Data	Sample Description & Classification	Stratum Description	RMKS
5									
10							NO SAMPLES COLLECTED		1.
15									
20								22'	
25		S-1	24/6	25-27	22-24	0.2 ppm	Dense, brown, fine SAND, some (-) Silt	FINE SAND	2.
					29-33			28'	
								FINE TO MEDIUM SAND	

Equipment Installed



Remarks

1. From 0 to 22 feet below grade, a down-hole hammer was used to penetrate boulder and cobbles fill. From 22 feet to end of exploration roller bit and drive methods were used to sample and complete the extraction well.
2. Soil samples field screened with a Thermo Environmental Instruments Model 580B Photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background values for each sample. ND indicates None Detected.

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655	ENVIRITE THOMASTON, CONNECTICUT	Boring No. EX-1 Page 2 of 2 File No. 41302.4 Chkd. By: JTG

			Casing	Sampler
Boring Co.	GZA DRILLING	Type	HSA	S.S.
Foreman	Al Augustine	I.D./O.D.	6"	2" O.D.
GZA GeoEnvironmental Rep.	Pete Klingelhoffer	Hammer Wt.		140 LB.
Date Start 8/19/94	End 8/26/94	Hammer Fall		30"
Location	EX-1	Other		
GS.Elev.	Datum			

Groundwater Readings

Date	Time	Depth	Casing	Stab. Time
8/26/94	0730	14.8'	56.0'	15 hours

DEPTH	CBSLNWGS	Sample Information No.	Pen./Rec.	Depth (Ft.)	Blows/6"	Field Test Data	Sample Description & Classification	Stratum Description	RMKS	Equipment Installed
		S-2	24/15	30-32	17-25	ND	Dense, light brown, fine to medium SAND, trace (+) Silt, trace fine Gravel			
					30-41					
35		S-3	24/12	35-37	12-19	ND	Dense, brown, fine SAND, trace Silt			
					42-105					
								FINE TO MEDIUM SAND		4" 30-slot Stainless steel screen 21'-54'
40		S-4	24/11	40-42	5-10	ND	Dense, brown, fine to medium SAND, trace Silt			
					20-50					
45		S-5	18/10	45-46.5	14-18	ND	Dense, brown, fine to medium SAND, trace (-) Silt			
					53					
50		S-6	24/16	50-52	10-20	ND	Dense, brown, fine to medium SAND, trace (-) Silt			
					23-24					
								54.0'	3.	
								FINE TO COARSE SAND AND GRAVEL 56.2'		///// ///// Sand and weathered bedrock 54'-55.5'
55		S-7	14/4	55-56.2	97-100	ND	Very dense, brown, fine to coarse SAND and GRAVEL, trace (+) Silt (Gravel is angular and may be weathered bedrock)			
					100/2"			BEDROCK 56.8'		
								END OF EXPLORATION (roller bit refusal)		

Remarks

3. Casing refusal at 55.5' depth.

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. EX-1

GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655	ENVIRITE THOMASTON, CONNECTICUT	Boring No. MP-1 Page 1 of 2 File No. 41302.4 Chkd. By: JTG

			Casing	Sampler
Boring Co.	GZA GEOENVIRONMENTAL, INC.			
Foreman	Ron Holman	Type	HSA	S.S.
GZA GeoEnvironmental Rep.	Ron Holman	I.D./O.D.	2-1/4"	2" O.D.
Date Start 8/4/94	End 8/5/94	Hammer Wt.		140 LB.
Location	See Plan	Hammer Fall		30"
GS.Elev.	Datum	Other		

Groundwater Readings

Date	Time	Depth	Casing	Stab. Time
8/4/94	0945	18.4'	20.0'	5 minutes

DEPTH	CSNG	BLWS	Sample Information: No.	Pen./Rec.	Depth (Ft.)	Blows/6"	Field Test Data	Sample Description & Classification	Stratum Description	RMKS
								NO SAMPLES COLLECTED FROM 0 TO 15 FOOT DEPTH (CABLE TOOL RIG USED TO ADVANCE HOLE)		1.
5										
10										
									15.0'	
15			S-1	24/18	15-17	3-13	ND	Medium dense, brown, fine to coarse SAND, some fine to coarse Gravel, trace Silt		
						16-26				
20			S-2	9/6	20-22	29-	ND	Very dense, brown, fine to coarse SAND, some fine to coarse Gravel, trace Silt	FINE TO COARSE SAND AND GRAVEL	
						100/3"				
25			S-3	24/10	25-27	45-27	ND	Dense, brown, fine to coarse SAND, little fine to coarse Gravel, trace Silt		
						9-9				
									28.0'	
									FINE TO MEDIUM SAND	

Equipment Installed

Remarks

1. Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background values. "*" sample sent to laboratory for additional screening. ND indicates None Detected above background.

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. MP-1

GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655	ENVIRITE THOMASTON, CONNECTICUT	Boring No. MP-1 Page 2 of 2 File No. 41302.4 Chkd. By: JTG

			Casing	Sampler
Boring Co.	GZA GEOENVIRONMENTAL, INC.	Type	HSA	S.S.
Foreman	Ron Holman	I.D./O.D.	2-1/4"	2" O.D.
GZA GeoEnvironmental Rep.	Ron Holman	Hammer Wt.		140 LB.
Date Start 8/4/94	End 8/5/94	Hammer Fall		30"
Location	See Plan	Other		
GS.Elev.	Datum			

Groundwater Readings

Date	Time	Depth	Casing	Stab. Time
8/4/94	0945	18.4'	20.0'	5 minutes

DPTH	CBLSNWGS	Sample Information No.	Pen./Rec.	Depth (Ft.)	Blows/6"	Field Test Data	Sample Description & Classification	Stratum Description	RMKS	Equipment Installed
		S-4	24/10	30-32	7-6	ND	Medium dense, brown, fine to medium SAND, trace Silt			
					8-8					
								FINE TO MEDIUM SAND		Filter sand pack 11'-38'
35		S-5	24/12	35-37	9-13	ND	Medium dense, brown, fine to medium SAND, trace Silt			3/4" PVC screen 13'-38'
					15-19					
								38.0'		
								END OF EXPLORATION	2.	
40										
45										
50										
55										

Remarks

2. 15 feet of 3/4" PVC screen set at approximatley 38 feet below grade. Well completed with 3/4" PVC riser. Filter sand placed in annulus around well from 38 to 11 feet below grade. Bentonite seal placed from 11 to 9 feet below grade. Remaining annulus around well backfilled with natural backfill from 9 to 0 feet below grade.

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. MP-1

APPENDIX 3-2
SLUG TEST TIME SERIES DATA

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW-37B
Former Envirite Facility
Thomaston, Connecticut

SE1000B Environmental Logger

06/20 14:56

Unit# 00000 Test# 0

INPUT 1: Level (F)

Reference 38.59
Scale factor 29.94
Offset - 0.02

Step# 0 06/20 13:55

Elapsed Time Value

SECONDS	FEET
0.0000	19.25
0.0033	19.20
0.0066	19.20
0.0099	19.15
0.0133	19.14
0.0166	19.10
0.0200	19.13
0.0233	19.12
0.0266	19.10
0.0300	19.08
0.0333	19.06
0.0500	19.05
0.0666	19.13
0.0833	19.28
0.1000	19.42
0.1166	19.57
0.1333	19.72
0.1500	19.85
0.1666	19.98
0.1833	20.12
0.2000	20.26
0.2166	20.40
0.2333	20.54
0.2500	20.68
0.2666	20.81
0.2833	20.96
0.3000	21.07
0.3166	21.21
0.3333	21.34
0.4167	21.99
0.5000	22.75
0.5833	23.31
0.6667	23.91

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW-37B
Former Envirite Facility
Thomaston, Connecticut

SE1000B Environmental Logger

06/20 14:56

Unit# 00000 Test# 0

INPUT 1: Level (F)

Reference 38.59
Scale factor 29.94
Offset - 0.02

Step# 0 06/20 13:55

Elapsed Time Value

SECONDS	FEET
0.7500	24.47
0.8333	25.04
0.9167	25.58
1.0000	26.10
1.0833	26.61
1.1667	27.10
1.2500	27.58
1.3333	28.03
1.4166	28.48
1.5000	28.92
1.5833	29.48
1.6667	29.73
1.7500	30.10
1.8333	30.45
1.9167	30.72
2.0000	31.08
2.5000	32.92
3.0000	34.37
3.5000	35.50
4.0000	36.35
4.5000	36.97
5.0000	37.45
5.5000	37.78
6.0000	38.03
6.5000	38.19
7.0000	38.31
7.5000	38.39
8.0000	38.44
8.5000	38.48
9.0000	38.51
9.5000	38.53
10.0000	38.54
11.0000	38.56

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW-37B
Former Envirite Facility
Thomaston, Connecticut

SE1000B Environmental Logger

06/20 14:56

Unit# 00000 Test# 0

INPUT 1: Level (F)

Reference 38.59
Scale factor 29.94
Offset - 0.02

Step# 0 06/20 13:55

Elapsed Time Value

SECONDS	FEET
12.0000	38.57
13.0000	38.59
14.0000	38.56
15.0000	38.57
16.0000	38.57

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW 41B
Former Envirite Facility
Thomaston, Connecticut

SE1000B Environmental Logger

06/17 10:08

Unit# 00000 Test# 0

INPUT 1: Level (F)

Reference 33.70
Scale factor 29.94
Offset - 0.02

Step# 0 06/17 08:47

Elapsed Time Value

SECONDS	FEET
0.0000	33.69
0.0033	33.69
0.0066	33.69
0.0099	33.69
0.0133	33.68
0.0166	33.68
0.0200	33.69
0.0233	33.69
0.0266	33.72
0.0300	33.72
0.0333	33.72
0.0500	33.67
0.0666	33.68
0.0833	33.66
0.1000	33.66
0.1166	33.69
0.1333	33.66
0.1500	33.69
0.1666	33.59
0.1833	33.52
0.2000	33.48
0.2166	33.40
0.2333	33.34
0.2500	33.30
0.2666	33.23
0.2833	33.19
0.3000	33.16
0.3166	33.12
0.3333	33.08
0.4167	32.73
0.5000	32.34
0.5833	31.48
0.6667	29.81

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW 41B
Former Envirite Facility
Thomaston, Connecticut

SE1000B Environmental Logger

06/17 10:08

Unit# 00000 Test# 0

INPUT 1: Level (F)

Reference 33.70
Scale factor 29.94
Offset - 0.02

Step# 0 06/17 08:47

Elapsed Time Value

SECONDS	FEET
0.7500	27.15
0.8333	24.75
0.9167	22.54
1.0000	20.58
1.0833	18.94
1.1667	17.59
1.2500	17.37
1.3333	17.41
1.4166	17.41
1.5000	17.41
1.5833	17.41
1.6667	17.42
1.7500	17.41
1.8333	17.42
1.9167	17.45
2.0000	17.49
2.5000	17.67
3.0000	17.82
3.5000	17.96
4.0000	18.10
4.5000	18.23
5.0000	18.36
5.5000	18.49
6.0000	18.63
6.5000	18.74
7.0000	18.87
7.5000	19.00
8.0000	19.12
8.5000	19.23
9.0000	19.36
9.5000	19.47
10.000	19.59
11.000	19.84

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW 41B
Former Envirite Facility
Thomaston, Connecticut

SE1000B Environmental Logger

06/17 10:08

Unit# 00000 Test# 0

INPUT 1: Level (F)

Reference 33.70
Scale factor 29.94
Offset - 0.02

Step# 0 06/17 08:47

Elapsed Time Value

SECONDS	FEET
12.000	20.07
13.000	20.28
14.000	20.50
15.000	20.72
16.000	20.94
17.000	21.14
18.000	21.34
19.000	21.53
20.000	21.73
21.000	21.92
22.000	22.11
23.000	22.29
24.000	22.47
25.000	22.65
26.000	22.82
27.000	23.00
28.000	23.16
29.000	23.33
30.000	23.49
31.000	23.66
32.000	23.82
33.000	23.97
34.000	24.12
35.000	24.26
36.000	24.41
37.000	24.56
38.000	24.70
39.000	24.84
40.000	24.97
41.000	25.10
42.000	25.24
43.000	25.36
44.000	25.49

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW 41B
Former Envirite Facility
Thomaston, Connecticut

SE1000B Environmental Logger

06/17 10:08

Unit# 00000 Test# 0

INPUT 1: Level (F)

Reference 33.70
Scale factor 29.94
Offset - 0.02

Step# 0 06/17 08:47

Elapsed Time Value

SECONDS	FEET
45.000	25.62
46.000	25.74
47.000	25.85
48.000	25.98
49.000	26.08
50.000	26.18
51.000	26.29
52.000	26.38
53.000	26.49
54.000	26.58
55.000	26.68
56.000	26.77
57.000	26.87
58.000	26.96
59.000	27.06
60.000	27.14
61.000	27.23
62.000	27.31
63.000	27.40
64.000	27.48
65.000	27.56

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW-42B
Former Envirite Facility
Thomaston, Connecticut

SE1000B Environmental Logger

06/14 16:02

Unit# 00000 Test# 0

INPUT 1: Level (F)

Reference 47.47
Scale factor 29.94
Offset - 0.02

Step# 0 06/14 10:27

Elapsed Time Value

SECONDS	FEET
0.0000	47.47
0.0033	47.47
0.0066	47.47
0.0099	47.46
0.0133	47.46
0.0166	47.46
0.0200	47.46
0.0233	47.46
0.0266	47.46
0.0300	47.46
0.0333	47.47
0.0500	47.47
0.0666	47.46
0.0833	47.46
0.1000	47.47
0.1166	47.47
0.1333	47.46
0.1500	47.46
0.1666	47.46
0.1833	47.46
0.2000	47.46
0.2166	47.46
0.2333	47.46
0.2500	47.46
0.2666	47.46
0.2833	47.46
0.3000	47.46
0.3166	47.46
0.3333	47.46
0.4167	47.44
0.5000	47.34
0.5833	47.25
0.6667	47.21

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW-42B
Former Envirite Facility
Thomaston, Connecticut

SE1000B Environmental Logger

06/14 16:02

Unit# 00000 Test# 0

INPUT 1: Level (F)

Reference 47.47
Scale factor 29.94
Offset - 0.02

Step# 0 06/14 10:27

Elapsed Time Value

SECONDS	FEET
0.7500	47.08
0.8333	46.94
0.9167	46.84
1.0000	46.47
1.0833	46.44
1.1667	46.42
1.2500	46.33
1.3333	46.28
1.4166	46.26
1.5000	46.23
1.5833	46.05
1.6667	45.99
1.7500	45.88
1.8333	45.76
1.9167	45.67
2.0000	45.67
2.5000	45.66
3.0000	45.66
3.5000	45.67
4.0000	45.66
4.5000	45.67
5.0000	45.66
5.5000	45.67
6.0000	45.66
6.5000	45.67
7.0000	45.67
7.5000	45.67
8.0000	45.68
8.5000	45.68
9.0000	45.68
9.5000	45.68
10.0000	45.68
11.0000	45.68

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW-42B
Former Envirite Facility
Thomaston, Connecticut

SE1000B Environmental Logger

06/14 16:02

Unit# 00000 Test# 0

INPUT 1: Level (F)

Reference 47.47
Scale factor 29.94
Offset - 0.02

Step# 0 06/14 10:27

Elapsed Time Value

SECONDS	FEET
12.0000	45.68
13.0000	45.68
14.0000	45.69
15.0000	45.69
16.0000	45.70
17.0000	45.70
18.0000	45.70
19.0000	45.70
20.0000	45.71
21.0000	45.72
22.0000	45.72
23.0000	45.72
24.0000	45.73
25.0000	45.73
26.0000	45.73
27.0000	45.74
28.0000	45.74
29.0000	45.75
30.0000	45.75
31.0000	45.75
32.0000	45.76
33.0000	45.76
34.0000	45.76
35.0000	45.76
36.0000	45.77
37.0000	45.77
38.0000	45.77
39.0000	45.77
40.0000	45.77
41.0000	45.78
42.0000	45.78
43.0000	45.78
44.0000	45.78

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW-42B
Former Envirite Facility
Thomaston, Connecticut

SE1000B Environmental Logger

06/14 16:02

Unit# 00000 Test# 0

INPUT 1: Level (F)

Reference 47.47
Scale factor 29.94
Offset - 0.02

Step# 0 06/14 10:27

Elapsed Time Value

SECONDS	FEET
45.0000	45.79
46.0000	45.79
47.0000	45.79
48.0000	45.79
49.0000	45.79
50.0000	45.80
51.0000	45.80
52.0000	45.80
53.0000	45.80
54.0000	45.80
55.0000	45.81
56.0000	45.80
57.0000	45.81
58.0000	45.81
59.0000	45.81
60.0000	45.81

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW-44B
Former Envirite Facility
Thomaston, Connecticut

SE1000B Environmental Logger

06/16 13:27

Unit# 00000 Test# 0

INPUT 1: Level (F)

Reference 47.99
Scale factor 29.94
Offset - 0.02

Step# 0 06/16 11:27

Elapsed Time Value

SECONDS	FEET
0.0000	39.90
0.0033	39.91
0.0066	39.91
0.0099	39.91
0.0133	39.96
0.0166	39.89
0.0200	39.89
0.0233	39.91
0.0266	39.90
0.0300	39.90
0.0333	39.89
0.0500	39.90
0.0666	39.91
0.0833	39.93
0.1000	39.93
0.1166	39.95
0.1333	39.97
0.1500	39.99
0.1666	40.01
0.1833	40.03
0.2000	40.05
0.2166	40.07
0.2333	40.08
0.2500	40.10
0.2666	40.11
0.2833	40.12
0.3000	40.13
0.3166	40.15
0.3333	40.16
0.4167	40.25
0.5000	40.31
0.5833	40.38
0.6667	40.44

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW-44B
Former Envirite Facility
Thomaston, Connecticut

SE1000B Environmental Logger

06/16 13:27

Unit# 00000 Test# 0

INPUT 1: Level (F)

Reference 47.99
Scale factor 29.94
Offset - 0.02

Step# 0 06/16 11:27

Elapsed Time Value

SECONDS	FEET
0.7500	40.50
0.8333	40.56
0.9167	40.63
1.0000	40.68
1.0833	40.75
1.1667	40.81
1.2500	40.86
1.3333	40.92
1.4166	40.98
1.5000	41.03
1.5833	41.10
1.6667	41.15
1.7500	41.22
1.8333	41.26
1.9167	41.32
2.0000	41.37
2.5000	41.70
3.0000	42.00
3.5000	42.29
4.0000	42.57
4.5000	42.83
5.0000	43.08
5.5000	43.33
6.0000	43.55
6.5000	43.76
7.0000	43.97
7.5000	44.17
8.0000	44.36
8.5000	44.54
9.0000	44.71
9.5000	44.87
10.0000	45.02
11.0000	45.30

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW-44B
Former Envirite Facility
Thomaston, Connecticut

SE1000B Environmental Logger

06/16 13:27

Unit# 00000 Test# 0

INPUT 1: Level (F)

Reference 47.99
Scale factor 29.94
Offset - 0.02

Step# 0 06/16 11:27

Elapsed Time Value

SECONDS	FEET
12.0000	45.57
13.0000	45.80
14.0000	46.03
15.0000	46.22
16.0000	46.39
17.0000	46.55
18.0000	46.69
19.0000	46.82
20.0000	46.94
21.0000	47.05
22.0000	47.14
23.0000	47.23
24.0000	47.30
25.0000	47.38
26.0000	47.45
27.0000	47.49
28.0000	47.55
29.0000	47.60
30.0000	47.63
31.0000	47.67
32.0000	47.70
33.0000	47.73
34.0000	47.76
35.0000	47.79
36.0000	47.81
37.0000	47.82
38.0000	47.81
39.0000	47.83
40.0000	47.84
41.0000	47.85

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW-51B
Former Envirite Facility
Thomaston, Connecticut

SE1000B
Environmental Logger
06/22 11:11

Unit# 00000 Test# 0

INPUT 1: Level (F)

Reference 17.82
Scale factor 29.94
Offset - 0.02

Step# 0 06/22 09:41

Elapsed Time Value

SECONDS	FEET
0.0000	7.21
0.0033	7.20
0.0066	7.20
0.0099	7.20
0.0133	7.19
0.0166	7.19
0.0200	7.19
0.0233	7.19
0.0266	7.19
0.0300	7.19
0.0333	7.19
0.0500	7.20
0.0666	7.20
0.0833	7.20
0.1000	7.20
0.1166	7.20
0.1333	7.20
0.1500	7.20
0.1666	7.20
0.1833	7.20
0.2000	7.20
0.2166	7.21
0.2333	7.21
0.2500	7.21
0.2666	7.21
0.2833	7.21
0.3000	7.21
0.3166	7.22
0.3333	7.22
0.4167	7.23
0.5000	7.24
0.5833	7.24
0.6667	7.24

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW-51B
Former Envirite Facility
Thomaston, Connecticut

SE1000B
Environmental Logger
06/22 11:11

Unit# 00000 Test# 0

INPUT 1: Level (F)

Reference 17.82
Scale factor 29.94
Offset - 0.02

Step# 0 06/22 09:41

Elapsed Time Value

SECONDS	FEET
0.7500	7.25
0.8333	7.25
0.9167	7.25
1.0000	7.25
1.0833	7.27
1.1667	7.27
1.2500	7.27
1.3333	7.27
1.4166	7.28
1.5000	7.28
1.5833	7.29
1.6667	7.29
1.7500	7.30
1.8333	7.30
1.9167	7.31
2.0000	7.31
2.5000	7.34
3.0000	7.36
3.5000	7.39
4.0000	7.42
4.5000	7.43
5.0000	7.45
5.5000	7.47
6.0000	7.48
6.5000	7.51
7.0000	7.53
7.5000	7.54
8.0000	7.56
8.5000	7.58
9.0000	7.60
9.5000	7.61
10.0000	7.62
11.0000	7.65

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW-51B
Former Envirite Facility
Thomaston, Connecticut

SE1000B
Environmental Logger
06/22 11:11

Unit# 00000 Test# 0

INPUT 1: Level (F)

Reference 17.82
Scale factor 29.94
Offset - 0.02

Step# 0 06/22 09:41

Elapsed Time Value

SECONDS	FEET
12.0000	7.69
13.0000	7.72
14.0000	7.74
15.0000	7.77
16.0000	7.79
17.0000	7.82
18.0000	7.85
19.0000	7.87
20.0000	7.90
21.0000	7.93
22.0000	7.95
23.0000	7.97
24.0000	7.99
25.0000	8.02
26.0000	8.04
27.0000	8.06
28.0000	8.09
29.0000	8.11
30.0000	8.13
31.0000	8.15
32.0000	8.17
33.0000	8.19
34.0000	8.21
35.0000	8.23
36.0000	8.24
37.0000	8.27
38.0000	8.28
39.0000	8.30
40.0000	8.32
41.0000	8.33
42.0000	8.35
43.0000	8.36
44.0000	8.38

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW-51B
Former Envirite Facility
Thomaston, Connecticut

SE1000B
Environmental Logger
06/22 11:11

Unit# 00000 Test# 0

INPUT 1: Level (F)

Reference 17.82
Scale factor 29.94
Offset - 0.02

Step# 0 06/22 09:41

Elapsed Time Value

SECONDS	FEET
45.0000	8.40
46.0000	8.41
47.0000	8.43
48.0000	8.45
49.0000	8.46
50.0000	8.48
51.0000	8.50
52.0000	8.51
53.0000	8.52
54.0000	8.53
55.0000	8.55
56.0000	8.58
57.0000	8.59
58.0000	8.61
59.0000	8.62
60.0000	8.65
61.0000	8.66
62.0000	8.68
63.0000	8.69
64.0000	8.70
65.0000	8.71
66.0000	8.73
67.0000	8.74
68.0000	8.77

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW-55B
Former Envirite Facility
Thomaston, Connecticut

SE1000B Environmental Logger

06/21 12:09

Unit# 00000 Test# 0

INPUT 1: Level (F)

Reference 10.80
Scale factor 29.94
Offset - 0.02

Step# 0 06/21 10:42

Elapsed Time Value

SECONDS	FEET
0.0000	5.87
0.0033	5.87
0.0066	5.81
0.0099	5.86
0.0133	5.82
0.0166	5.83
0.0200	5.79
0.0233	5.85
0.0266	5.78
0.0300	5.78
0.0333	5.80
0.0500	6.13
0.0666	6.50
0.0833	6.84
0.1000	7.11
0.1166	7.33
0.1333	7.49
0.1500	7.60
0.1666	7.69
0.1833	7.74
0.2000	7.77
0.2166	7.79
0.2333	7.82
0.2500	7.85
0.2666	7.88
0.2833	7.90
0.3000	7.91
0.3166	7.92
0.3333	7.93
0.4167	7.93
0.5000	7.95
0.5833	7.96
0.6667	7.97

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW-55B
Former Envirite Facility
Thomaston, Connecticut

SE1000B Environmental Logger

06/21 12:09

Unit# 00000 Test# 0

INPUT 1: Level (F)

Reference 10.80
Scale factor 29.94
Offset - 0.02

Step# 0 06/21 10:42

Elapsed Time Value

SECONDS	FEET
0.7500	7.97
0.8333	7.98
0.9167	8.00
1.0000	8.02
1.0833	8.04
1.1667	8.06
1.2500	8.07
1.3333	8.08
1.4166	8.09
1.5000	8.11
1.5833	8.11
1.6667	8.12
1.7500	8.13
1.8333	8.14
1.9167	8.15
2.0000	8.16
2.5000	8.21
3.0000	8.26
3.5000	8.30
4.0000	8.33
4.5000	8.37
5.0000	8.41
5.5000	8.45
6.0000	8.47
6.5000	8.51
7.0000	8.54
7.5000	8.58
8.0000	8.61
8.5000	8.64
9.0000	8.66
9.5000	8.69
10.0000	8.72
11.0000	8.77

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW-55B
Former Envirite Facility
Thomaston, Connecticut

SE1000B Environmental Logger

06/21 12:09

Unit# 00000 Test# 0

INPUT 1: Level (F)

Reference 10.80
Scale factor 29.94
Offset - 0.02

Step# 0 06/21 10:42

Elapsed Time Value

SECONDS	FEET
12.0000	8.83
13.0000	8.87
14.0000	8.92
15.0000	8.97
16.0000	9.01
17.0000	9.03
18.0000	9.07
19.0000	9.10
20.0000	9.13
21.0000	9.16
22.0000	9.18
23.0000	9.21
24.0000	9.24
25.0000	9.27
26.0000	9.29
27.0000	9.33
28.0000	9.36
29.0000	9.37
30.0000	9.40
31.0000	9.43
32.0000	9.45
33.0000	9.47
34.0000	9.50
35.0000	9.52
36.0000	9.54
37.0000	9.55
38.0000	9.58
39.0000	9.60
40.0000	9.62
41.0000	9.64
42.0000	9.66
43.0000	9.67
44.0000	9.69

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW-55B
Former Envirite Facility
Thomaston, Connecticut

SE1000B Environmental Logger

06/21 12:09

Unit# 00000 Test# 0

INPUT 1: Level (F)

Reference 10.80
Scale factor 29.94
Offset - 0.02

Step# 0 06/21 10:42

Elapsed Time Value

SECONDS	FEET
45.0000	9.71
46.0000	9.72
47.0000	9.74
48.0000	9.76
49.0000	9.77
50.0000	9.79
51.0000	9.81
52.0000	9.82
53.0000	9.84
54.0000	9.86
55.0000	9.87
56.0000	9.89
57.0000	9.90
58.0000	9.91
59.0000	9.92
60.0000	9.94
61.0000	9.95
62.0000	9.97
63.0000	9.98

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW-56D
Former Envirite Facility
Thomaston, Connecticut

SE1000B Environmental Logger

06/17 12:21

Unit# 00000 Test# 1

INPUT 1: Level (F)

Reference 31.45
Scale factor 29.94
Offset - 0.02

Step# 0 06/17 11:49

Elapsed Time Value

SECONDS	FEET
0.0000	22.75
0.0033	22.78
0.0066	22.81
0.0099	22.83
0.0133	22.85
0.0166	22.88
0.0200	22.91
0.0233	22.94
0.0266	22.96
0.0300	23.01
0.0333	23.02
0.0500	23.11
0.0666	23.22
0.0833	23.35
0.1000	23.51
0.1166	23.67
0.1333	23.83
0.1500	23.98
0.1666	24.13
0.1833	24.28
0.2000	24.43
0.2166	24.57
0.2333	24.71
0.2500	24.84
0.2666	24.98
0.2833	25.11
0.3000	25.23
0.3166	25.36
0.3333	25.49
0.4167	26.07
0.5000	26.60
0.5833	27.07
0.6667	27.54

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW-56D
Former Envirite Facility
Thomaston, Connecticut

SE1000B Environmental Logger

06/17 12:21

Unit# 00000 Test# 1

INPUT 1: Level (F)

Reference 31.45
Scale factor 29.94
Offset - 0.02

Step# 0 06/17 11:49

Elapsed Time Value

SECONDS	FEET
0.7500	27.89
0.8333	28.24
0.9167	28.57
1.0000	28.85
1.0833	29.12
1.1667	29.34
1.2500	29.56
1.3333	29.75
1.4166	29.91
1.5000	30.07
1.5833	30.21
1.6667	30.34
1.7500	30.45
1.8333	30.55
1.9167	30.64
2.0000	30.73
2.5000	31.07
3.0000	31.25
3.5000	31.35
4.0000	31.40
4.5000	31.43
5.0000	31.45
5.5000	31.45
6.0000	31.45
6.5000	31.45
7.0000	31.46
7.5000	31.45
8.0000	31.45
8.5000	31.46
9.0000	31.46
9.5000	31.42
10.0000	31.44

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW-57
Former Envirite Facility
Thomaston, Connecticut

SE1000B Environmental Logger

06/17 12:24

Unit# 00000 Test# 0

INPUT 1: Level (F)

Reference 2.53
Scale factor 29.94
Offset - 0.02

Step# 0 06/17 11:10

Elapsed Time Value

SECONDS	FEET
0.0000	0.98
0.0033	1.00
0.0066	0.99
0.0099	0.98
0.0133	0.99
0.0166	0.99
0.0200	0.99
0.0233	0.98
0.0266	0.97
0.0300	0.98
0.0333	0.98
0.0500	1.00
0.0666	1.09
0.0833	1.17
0.1000	1.22
0.1166	1.26
0.1333	1.28
0.1500	1.32
0.1666	1.35
0.1833	1.38
0.2000	1.41
0.2166	1.44
0.2333	1.46
0.2500	1.49
0.2666	1.53
0.2833	1.56
0.3000	1.60
0.3166	1.63
0.3333	1.65
0.4167	1.80
0.5000	1.93
0.5833	2.02
0.6667	2.10

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW-57
Former Envirite Facility
Thomaston, Connecticut

SE1000B Environmental Logger

06/17 12:24

Unit# 00000 Test# 0

INPUT 1: Level (F)

Reference 2.53
Scale factor 29.94
Offset - 0.02

Step# 0 06/17 11:10

Elapsed Time Value

SECONDS	FEET
0.7500	2.16
0.8333	2.20
0.9167	2.23
1.0000	2.26
1.0833	2.28
1.1667	2.31
1.2500	2.34
1.3333	2.36
1.4166	2.38
1.5000	2.40
1.5833	2.43
1.6667	2.44
1.7500	2.45
1.8333	2.47
1.9167	2.48
2.0000	2.48
2.5000	2.51
3.0000	2.52
3.5000	2.52
4.0000	2.52
4.5000	2.52
5.0000	2.52
5.5000	2.52
6.0000	2.52
6.5000	2.52
7.0000	2.52
7.5000	2.51
8.0000	2.52
8.5000	2.52
9.0000	2.52
9.5000	2.51
10.0000	2.52

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW-61B
Former Envirite Facility
Thomaston, Connecticut

SE1000B Environmental Logger

06/14 16:04

Unit# 00000 Test# 1

INPUT 1: Level (F)

Reference 22.61
Scale factor 29.94
Offset - 0.02

Step# 0 06/14 14:47

Elapsed Time Value

SECONDS	FEET
0.0000	14.19
0.0033	14.23
0.0066	14.22
0.0099	14.20
0.0133	14.23
0.0166	14.25
0.0200	14.24
0.0233	14.19
0.0266	14.25
0.0300	14.21
0.0333	14.19
0.0500	14.25
0.0666	14.22
0.0833	14.23
0.1000	14.23
0.1166	14.23
0.1333	14.23
0.1500	14.22
0.1666	14.22
0.1833	14.22
0.2000	14.22
0.2166	14.24
0.2333	14.23
0.2500	14.23
0.2666	14.24
0.2833	14.25
0.3000	14.24
0.3166	14.24
0.3333	14.24
0.4167	14.24
0.5000	14.23
0.5833	14.24
0.6667	14.23

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW-61B
Former Envirite Facility
Thomaston, Connecticut

SE1000B Environmental Logger

06/14 16:04

Unit# 00000 Test# 1

INPUT 1: Level (F)

Reference 22.61
Scale factor 29.94
Offset - 0.02

Step# 0 06/14 14:47

Elapsed Time Value

SECONDS	FEET
0.7500	14.24
0.8333	14.23
0.9167	14.23
1.0000	14.24
1.0833	14.24
1.1667	14.23
1.2500	14.24
1.3333	14.23
1.4166	14.23
1.5000	14.23
1.5833	14.24
1.6667	14.24
1.7500	14.24
1.8333	14.24
1.9167	14.24
2.0000	14.24
2.5000	14.24
3.0000	14.25
3.5000	14.24
4.0000	14.24
4.5000	14.24
5.0000	14.24
5.5000	14.23
6.0000	14.24
6.5000	14.24
7.0000	14.24
7.5000	14.24
8.0000	14.24
8.5000	14.24
9.0000	14.24
9.5000	14.24
10.0000	14.24
11.0000	14.24

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW-61B
Former Envirite Facility
Thomaston, Connecticut

SE1000B Environmental Logger

06/14 16:04

Unit# 00000 Test# 1

INPUT 1: Level (F)

Reference 22.61
Scale factor 29.94
Offset - 0.02

Step# 0 06/14 14:47

Elapsed Time Value

SECONDS	FEET
12.0000	14.24
13.0000	14.26
14.0000	14.25
15.0000	14.25
16.0000	14.25
17.0000	14.25
18.0000	14.25
19.0000	14.25
20.0000	14.25
21.0000	14.25
22.0000	14.26
23.0000	14.26
24.0000	14.26
25.0000	14.26
26.0000	14.26
27.0000	14.25
28.0000	14.26
29.0000	14.26
30.0000	14.26
31.0000	14.27
32.0000	14.26
33.0000	14.26
34.0000	14.27
35.0000	14.27
36.0000	14.27
37.0000	14.27
38.0000	14.27
39.0000	14.28
40.0000	14.27
41.0000	14.27
42.0000	14.28
43.0000	14.28
44.0000	14.28

APPENDIX 3-2
SLUG TEST TIME SERIES DATA
WELL MW-61B
Former Envirite Facility
Thomaston, Connecticut

SE1000B Environmental Logger

06/14 16:04

Unit# 00000 Test# 1

INPUT 1: Level (F)

Reference 22.61
Scale factor 29.94
Offset - 0.02

Step# 0 06/14 14:47

Elapsed Time Value

SECONDS	FEET
45.0000	14.28
46.0000	14.28
47.0000	14.28
48.0000	14.28
49.0000	14.28
50.0000	14.28
51.0000	14.29
52.0000	14.29
53.0000	14.29
54.0000	14.29
55.0000	14.29
56.0000	14.29
57.0000	14.29
58.0000	14.29
59.0000	14.29
60.0000	14.29
61.0000	14.30
62.0000	14.30
63.0000	14.30
64.0000	14.30
65.0000	14.30
66.0000	14.30

APPENDIX 4-1

APPENDIX 4-1
(RFI Appendix E)

COMPARISON OF SHALLOW PIEZOMETER AND GROUNDWATER ELEVATIONS
ENVIRITE CORPORATION
Thomaston Connecticut

BBP-1				MW-33				MW-61S			
Date	Time	Shallow Piezo.	Head	Date	Time	Depth to Water	Head	Date	Time	Depth to Water	Head
20-Dec	9:06	0.78	323.96	20-Dec	9:55:00	16.53	323.95	20-Dec	9:53:00	14.79	324.52
20-Dec	14:43	0.74	324.00	20-Dec	13:10:30	16.52	323.96	20-Dec	13:13:00	14.79	324.52
20-Dec	15:58	0.75	323.99	20-Dec	15:49:00	16.57	323.91	20-Dec	15:47:00	14.81	324.50
21-Dec	8:14	0.75	323.99	21-Dec	7:41:00	16.67	323.81	21-Dec	7:46:00	14.84	324.47
21-Dec	11:42	0.74	324.00	21-Dec	10:07:00	16.67	323.81	21-Dec	10:05:00	14.85	324.46
21-Dec	15:22	0.73	324.01	21-Dec	14:41:00	16.68	323.80	21-Dec	14:47:00	14.85	324.46
22-Dec	8:19	0.80	323.94	22-Dec	7:26:00	16.74	323.74	22-Dec	7:29	14.88	324.43
22-Dec	11:47	0.76	323.98	22-Dec	18:42:00	16.76	323.72	22-Dec	11:04	14.88	324.43
23-Dec	7:41	0.78	323.96	23-Dec	5:47:00	16.78	323.70	23-Dec	5:51	14.91	324.40
23-Dec	10:27	0.75	323.99	23-Dec	11:42:00	16.74	323.74	23-Dec	11:45	14.91	324.40
27-Dec	11:20	0.47	324.27	27-Dec	11:04:00	16.08	324.40	27-Dec	11:06	14.31	325.00
26-Jan	-	0.60	324.14	26-Jan	-	16.37	324.11	26-Jan	-	14.62	324.69

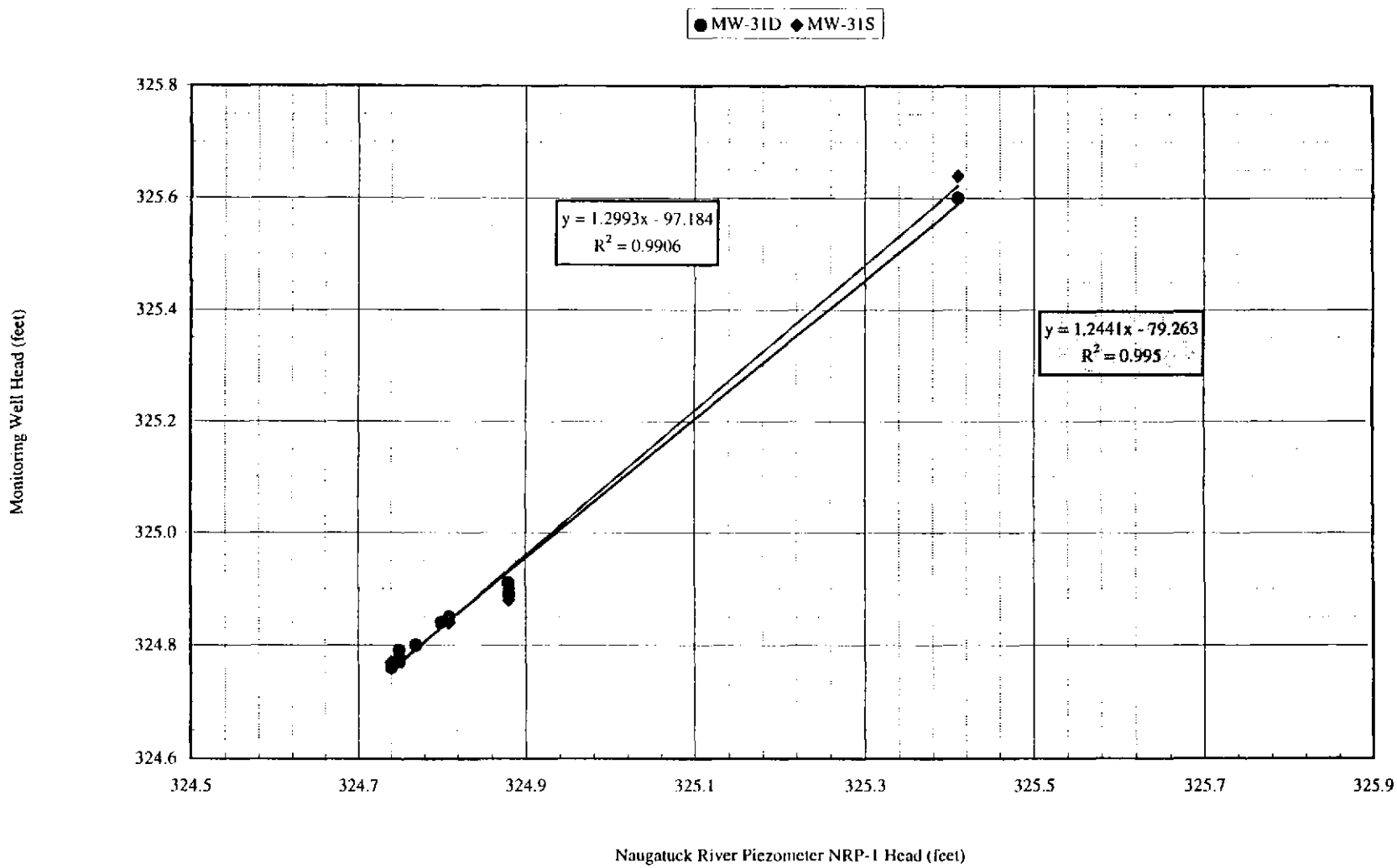
BBP-3				MW-36				MW-44S			
Date	Time	Shallow Piezo.	Head	Date	Time	Depth to Water	Head	Date	Time	Depth to Water	Head
20-Dec	9:01	1.41	324.01	20-Dec	9:20:00	4.52	324.31	20-Dec	11:42:00	14.81	323.83
20-Dec	14:39	1.41	324.01	20-Dec	14:53:00	4.54	324.29	20-Dec	13:47:00	14.86	323.78
20-Dec	15:42	1.42	324.00	20-Dec	16:07:00	4.55	324.28	20-Dec	18:25:30	14.9	323.74
21-Dec	8:10	1.44	323.98	21-Dec	9:11:00	4.61	324.22	21-Dec	7:39:00	15	323.64
21-Dec	11:39	1.44	323.98	21-Dec	11:52:00	4.61	324.22	21-Dec	10:12:00	15	323.64
21-Dec	15:18	1.43	323.99	21-Dec	15:30:00	4.62	324.21	21-Dec	14:37:00	15.03	323.61
22-Dec	8:16	1.46	323.96	22-Dec	8:31:00	4.66	324.17	22-Dec	7:24:00	15.08	323.56
22-Dec	11:44	1.51	323.91	22-Dec	11:57:00	4.67	324.16	22-Dec	10:58:00	15.10	323.54
23-Dec	7:38	1.47	323.95	23-Dec	7:49:00	4.69	324.14	23-Dec	5:47:00	15.14	323.50
23-Dec	10:22	1.47	323.95	23-Dec	10:53:00	4.68	324.15	23-Dec	11:41:00	15.07	323.57
27-Dec	11:15	1.01	324.41	27-Dec	11:30:00	4.05	324.78	27-Dec	11:02:00	14.27	324.37
26-Jan	-	1.28	324.14	26-Jan	-	4.37	324.46	26-Jan	-	14.66	323.98

NRP-1				MW-31D				MW-31S			
Date	Time	Shallow Piezo.	Head	Date	Time	Depth to Water	Head	Date	Time	Depth to Water	Head
20-Dec	10:53	2.25	324.81	20-Dec	10:05:00	16.85	324.91	20-Dec	10:03:00	15.40	324.90
20-Dec	15:20	2.25	324.81			#N/A	#N/A			#N/A	#N/A
20-Dec	16:34	2.25	324.81	20-Dec	16:48:00	16.87	324.89	20-Dec	16:50:00	15.42	324.88
21-Dec	8:44	2.32	324.74	21-Dec	7:02:00	16.91	324.85	21-Dec	7:04:00	15.46	324.84
21-Dec	11:23	2.30	324.76	21-Dec	11:10:00	16.92	324.84	21-Dec	11:11:00	15.46	324.84
22-Dec	8:02	2.33	324.73	22-Dec	7:47:00	16.96	324.80	22-Dec	7:48:00	15.50	324.80
22-Dec	11:27	2.35	324.71	22-Dec	10:30:00	16.97	324.79	22-Dec	10:31:00	15.51	324.79
23-Dec	7:22	2.36	324.70	23-Dec	5:18:00	16.99	324.77	23-Dec	5:19:00	15.52	324.78
23-Dec	11:01	2.30	324.76	23-Dec	11:22:00	17.00	324.76	23-Dec	11:23:00	15.53	324.77
27-Dec	10:55	1.73	325.33	27-Dec	10:35:00	16.16	325.60	27-Dec	10:36:00	14.66	325.64

Prepared: 1/4/95
Updated: 4/4/97
Printed: 5/27/97

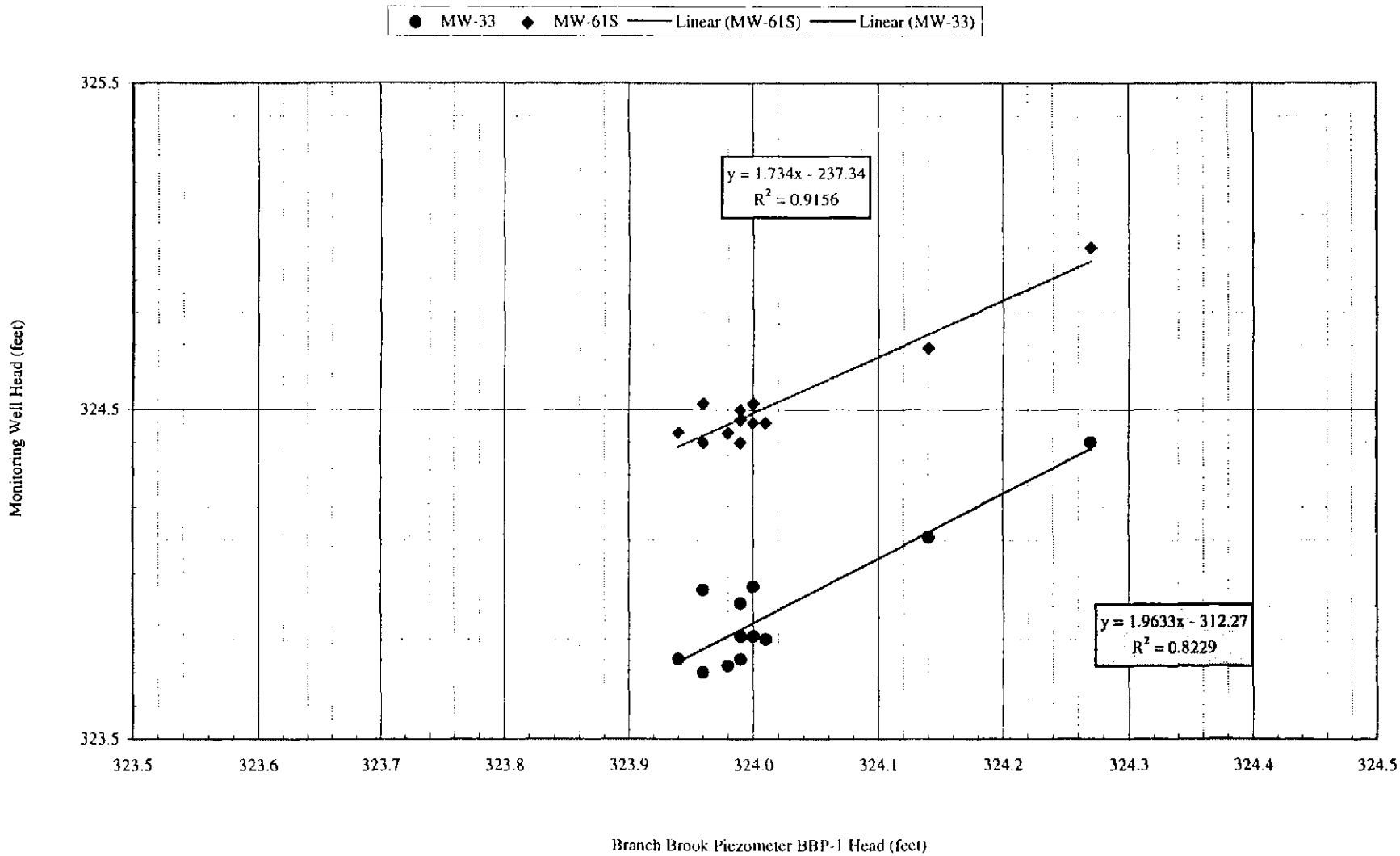
APPENDIX 4-1
(RFI Appendix E)

COMPARISON OF SURFACE WATER AND OVERBURDEN MONITORING WELL PIEZOMETRIC HEADS
December 1994



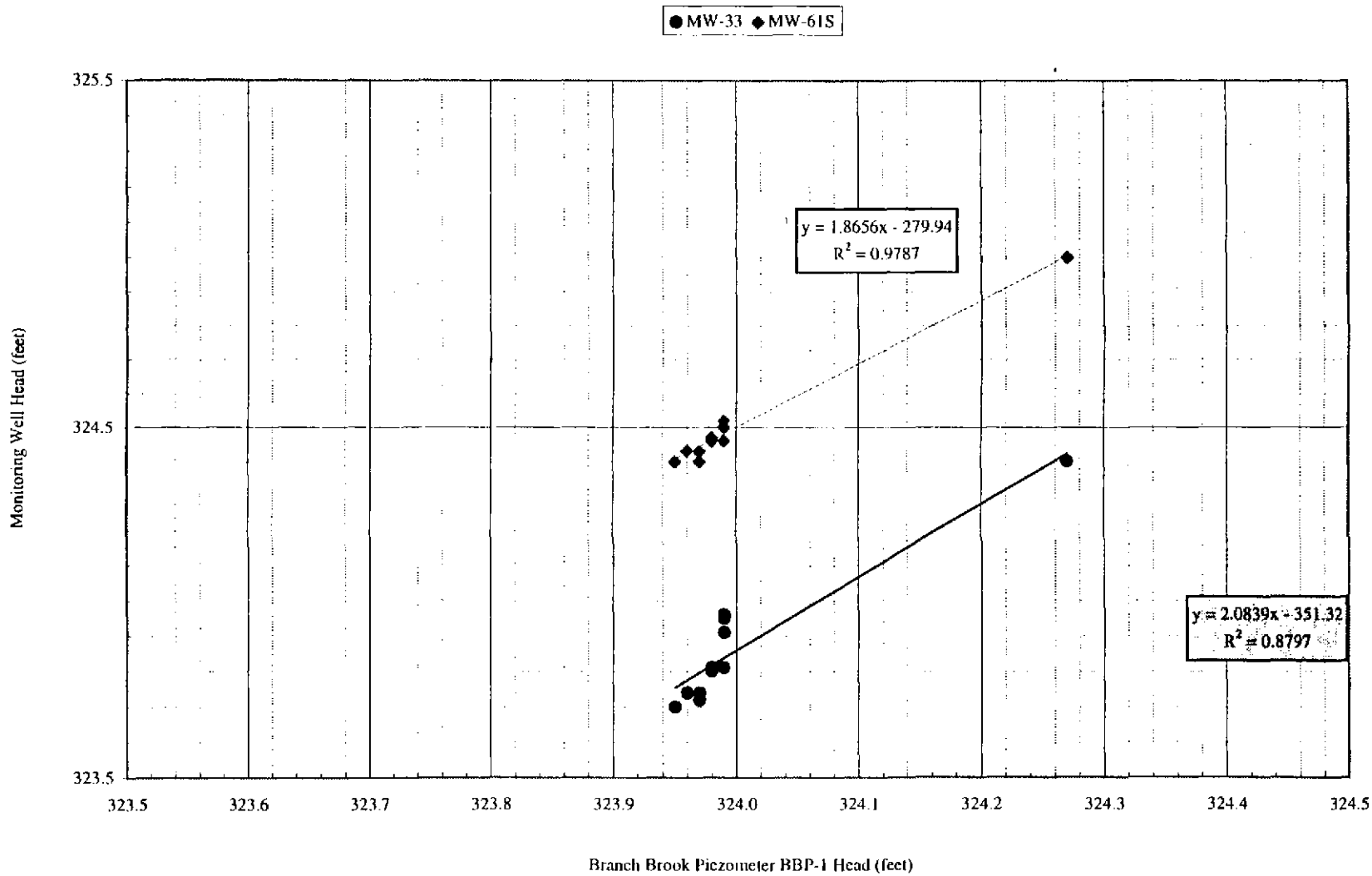
APPENDIX 4-1
(RFI Appendix E)

COMPARISON OF STREAM PIEZOMETER AND OVERBURDEN MONITORING WELL PIEZOMETRIC HEADS
December 1994 - January 1995



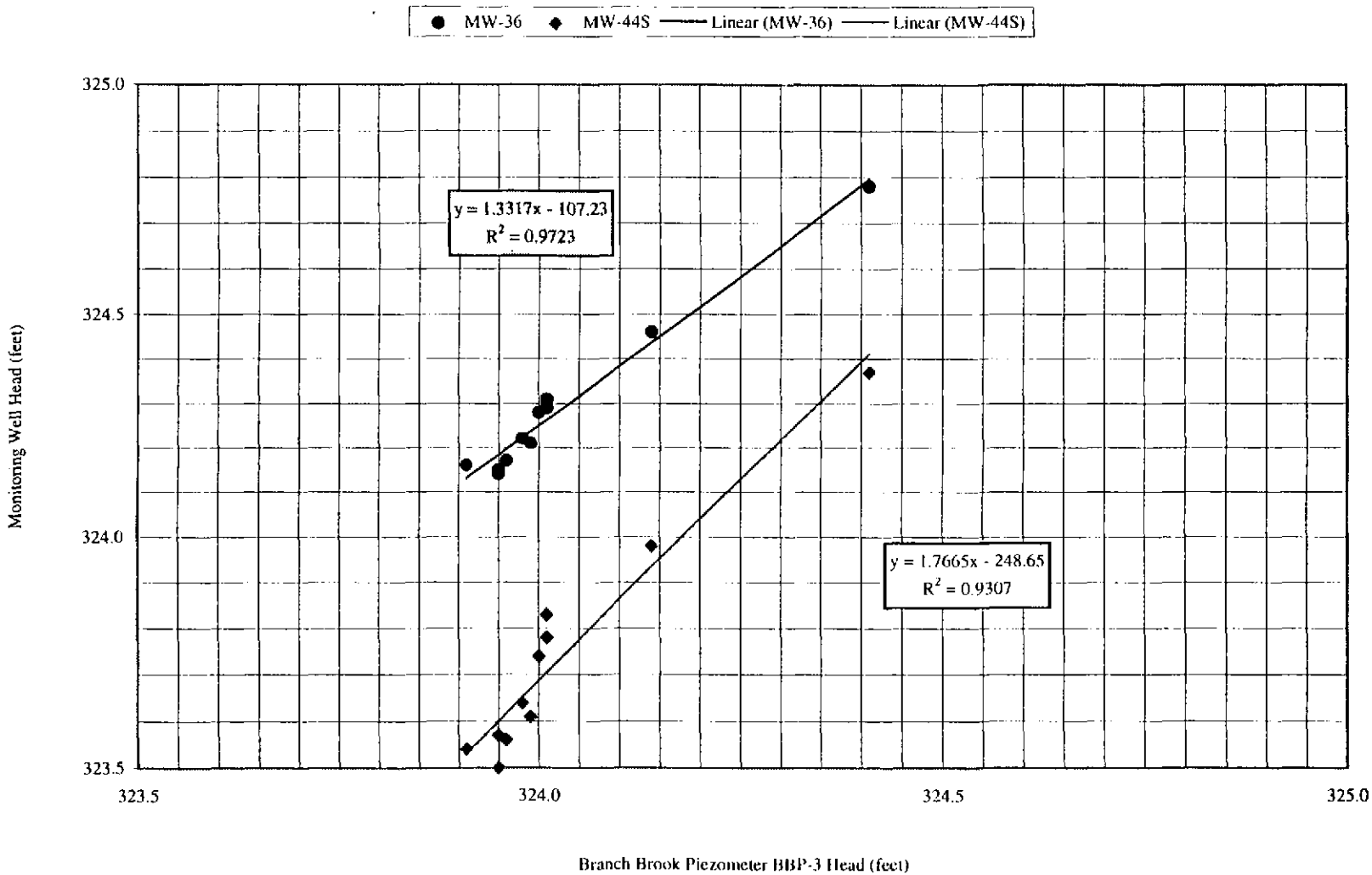
APPENDIX 4-1
(RFI Appendix E)

COMPARISON OF SURFACE WATER AND OVERBURDEN MONITORING WELL PIEZOMETRIC HEADS
December 1994 - January 1995



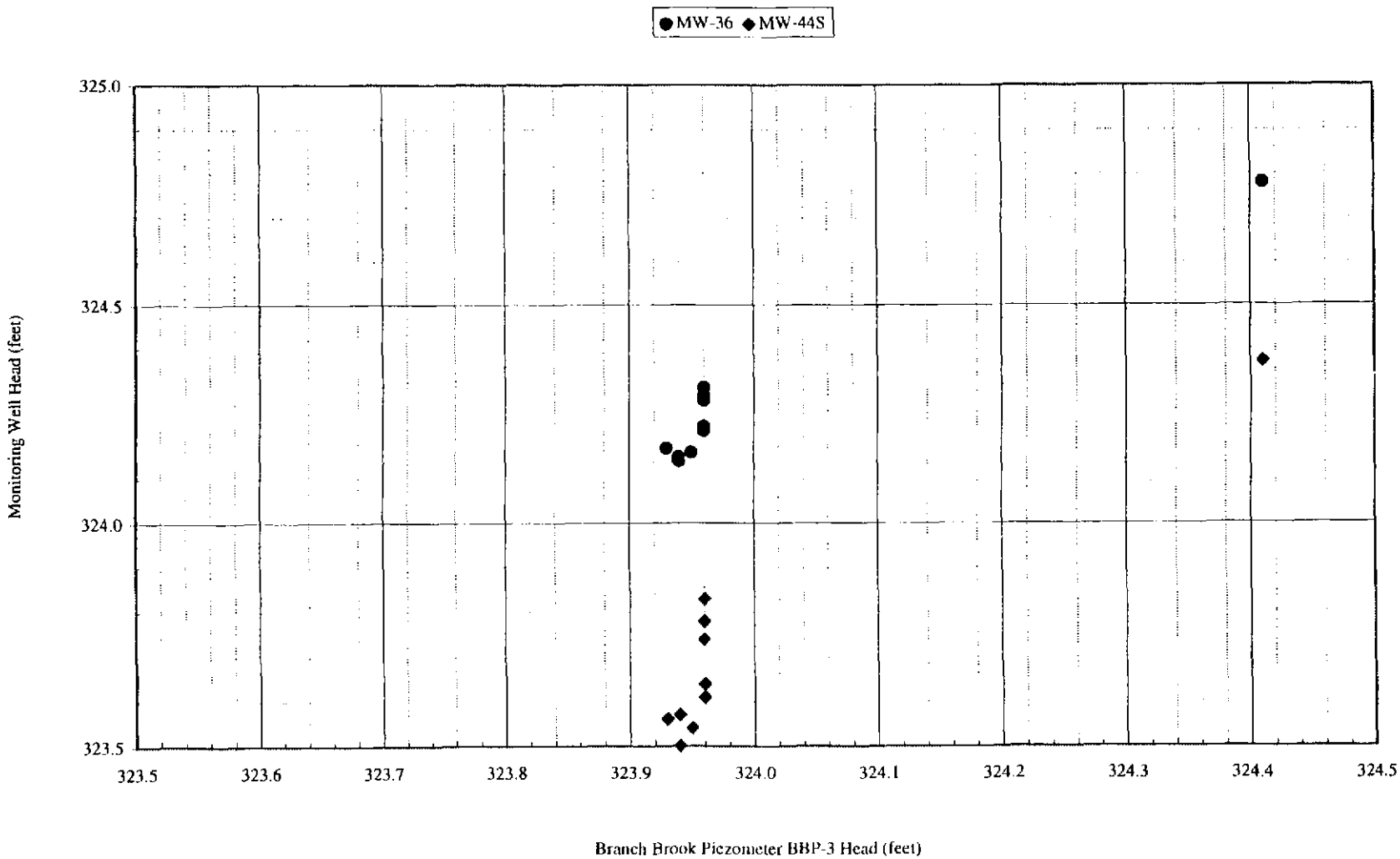
APPENDIX 4-1
(RFI Appendix E)

COMPARISON OF STREAM PIEZOMETER AND OVERBURDEN MONITORING WELL PIEZOMETRIC HEADS
December 1994 - January 1995



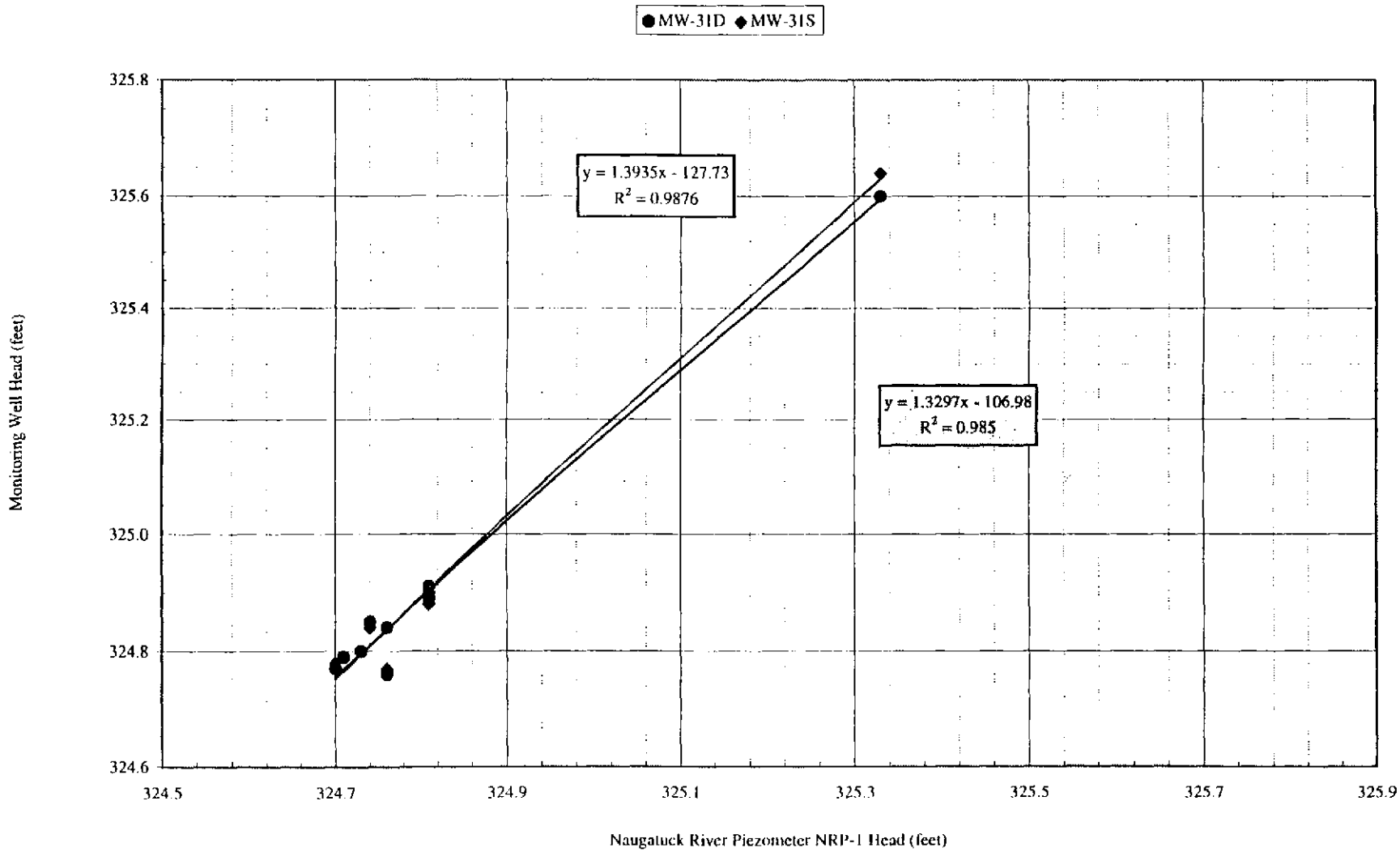
APPENDIX 4-1
(RFI Appendix E)

COMPARISON OF SURFACE WATER AND OVERBURDEN MONITORING WELL PIEZOMETRIC HEADS
December 1994 - January 1995



APPENDIX 4-1
(RFI Appendix E)

COMPARISON OF STREAM PIEZOMETER AND OVERBURDEN MONITORING WELL PIEZOMETRIC HEADS
December 1994



APPENDIX 6-1

RFI TABLE 3-1
SUMMARY OF WELL AND GROUNDWATER ELEVATIONS
Envirite Facility
Thomaston, Connecticut

WELL ELEVATIONS (FEET MSL)								
Well Number	MP-1	EX-1	MW30S	MW31S	MW31D	MW31B	MW32S	MW32D
Top of PVC	342.96	340.17	341.74	340.30	341.76	341.75	340.59	340.35
Ground	341	338	342	340	-	-	341	338
Top of Screen	328	317	303	323	313	303	324	308
Base of Screen	303	284	293	313	308	293	314	398
Bedrock Surface	-	281	293	-	309	309	298	298

GROUNDWATER DEPTH (Feet MSL)								
Well Number	MP-1	EX-1	MW30S	MW31S	MW31D	MW31B	MW32S	MW32D
January 4, 1993	-	-	15.75	16.00	-	-	12.50	13.25
April 5, 1993	-	-	10.17	15.50	-	-	13.50	13.67
July 6, 1993	-	-	18.13	16.40	17.97	17.99	16.07	16.24
October 12, 1993	-	-	17.75	17.50	17.58	17.75	15.00	-
April 19-28, 1994	-	-	16.75	16.46	16.58	16.08	14.50	14.50
October 4-5, 1994	-	-	17.40	16.09	17.57	17.48	15.32	15.30
December 20, 1994	19.47	16.75	16.56	15.40	16.85	16.60	14.80	14.74

GROUNDWATER ELEVATION (Feet MSL)								
Well Number	MP-1	EX-1	MW30S	MW31S	MW31D	MW31B	MW32S	MW32D
January 4, 1993	-	-	325.99	324.30	-	-	328.09	327.10
April 5, 1993	-	-	331.57	324.80	-	-	327.09	326.68
July 6, 1993	-	-	323.61	323.90	323.79	323.76	324.52	324.11
October 12, 1993	-	-	323.99	322.80	324.18	324.00	325.59	-
April 19-28, 1994	-	-	324.99	323.84	325.18	325.67	326.09	325.85
October 4-5, 1994	-	-	324.34	324.21	324.19	324.27	325.27	325.05
December 20, 1994	323.49	323.42	325.18	324.90	324.91	325.15	325.79	325.61

Notes:

1. Groundwater elevations measured by EAS Laboratory personnel in January, April, and October 1993 and April and October 1994. Other groundwater elevations measured by GZA.
2. Calculated groundwater elevations are based on a survey performed during the RFI by Dicura Land Surveying Services of Winstead, Connecticut and on surveys performed by GZA during the RFI.
3. A "-" indicates information not available. "S" indicates Shallow Overburden, "D" indicates Deep Overburden, and "B" indicates Bedrock.
4. Historic data for well MW-62B indicate that the well does not recharge, indicating that water levels do not reflect piezometer head in the bedrock.

RFI TABLE 3-1
SUMMARY OF WELL AND GROUNDWATER ELEVATIONS
Envirite Facility
Thomaston, Connecticut

WELL ELEVATIONS (Ft. MSL)

Well Number	MW33	MW36S	MW37D	MW37B	MW41S	MW41D	MW41B	MW42S
Top of PVC	340.48	328.83	328.39	327.59	335.23	334.40	334.56	341.12
Ground	339	327	326	326	333	333	333	339
Top of Screen	323	305	299	-	323	311	323	316
Base of Screen	313	295	294	-	313	300	313	306
Bedrock Surface	-	-	276	276	297	297	297	-

GROUNDWATER DEPTH (Feet MSL)

Well Number	MW33	MW36S	MW37D	MW37B	MW41S	MW41D	MW41B	MW42S
January 4, 1993	16.50	7.31	-	-	13.38	10.83	13.00	18.08
April 5, 1993	16.83	5.00	-	-	10.50	9.42	11.83	16.75
July 6, 1993	18.68	7.12	-	-	13.23	12.17	12.17	19.54
October 12, 1993	17.42	5.67	-	-	12.67	12.17	14.83	18.58
April 19-28, 1994	17.08	5.67	-	-	11.46	10.42	12.67	17.58
October 4-5, 1994	16.64	4.69	3.82	3.46	12.30	11.31	11.55	17.98
December 20, 1994	16.53	4.52	3.33	3.69	11.77	10.81	10.88	17.62

GROUNDWATER ELEVATION (Feet MSL)

Well Number	MW33	MW36S	MW37D	MW37B	MW41S	MW41D	MW41B	MW42S
January 4, 1993	323.98	321.52	-	-	321.85	323.57	321.56	323.04
April 5, 1993	323.65	323.83	-	-	324.73	324.98	322.73	324.37
July 6, 1993	321.80	321.71	-	-	322.00	322.23	322.39	321.58
October 12, 1993	323.06	323.16	-	-	322.56	322.23	319.73	322.54
April 19-28, 1994	323.40	323.16	-	-	323.77	323.98	321.89	323.54
October 4-5, 1994	323.84	324.14	324.57	324.13	322.93	323.09	323.01	323.14
December 20, 1994	323.95	324.31	325.06	323.90	323.46	323.59	323.68	323.50

Notes:

1. Groundwater elevations measured by EAS Laboratory personnel in January, April, and October 1993 and April and October 1994. Other groundwater elevations measured by GZA.
2. Calculated groundwater elevations are based on a survey performed during the RFI by Dicara Land Surveying Services of Winstead, Connecticut and on surveys performed by GZA during the RFI.
3. A "-" indicates information not available. "S" indicates Shallow Overburden, "D" indicates Deep Overburden, and "B" indicates Bedrock.
4. Historic data for well MW-62B indicate that the well does not recharge, indicating that water levels do not reflect piezometer head in the bedrock.

RFI TABLE 3-1
SUMMARY OF WELL AND GROUNDWATER ELEVATIONS
Envirite Facility
Thomaston, Connecticut

WELL ELEVATIONS (FT MSL)								
Well Number	MW42B	MW43S	MW43D	MW44S	MW44D	MW44B	MW50S	MW51D
Top of PVC	341.15	340.42	340.64	338.64	339.26	340.31	337.66	340.37
Ground	-	339	339	338	338	338	337	341
Top of Screen	275	317	281	321	276	263	328	322
Base of Screen	265	307	271	311	266	253	318	312
Bedrock Surface	281	271	271	266	266	264	316	307

GROUNDWATER DEPTH (Feet MSL)								
Well Number	MW42B	MW43S	MW43D	MW44S	MW44D	MW44B	MW50S	MW51D
January 4, 1993	-	18.42	18.33	17.33	17.17	19.17	12.00	14.67
April 5, 1993	-	17.83	17.92	16.58	16.33	18.25	11.92	14.00
July 6, 1993	-	18.86	19.07	17.10	17.67	18.76	14.07	17.16
October 12, 1993	21.67	18.86	19.07	12.66	17.33	20.58	13.50	16.58
April 19-28, 1994	18.33	18.42	18.92	15.75	16.42	19.00	13.25	15.75
October 4-5, 1994	19.37	17.11	17.26	14.96	15.68	16.78	13.72	16.14
December 20, 1994	22.33	16.82	16.99	14.81	15.46	16.54	13.09	15.35

GROUNDWATER ELEVATION (Feet MSL)								
Well Number	MW42B	MW43S	MW43D	MW44S	MW44D	MW44B	MW50S	MW51D
January 4, 1993	-	322.00	322.31	321.31	322.09	321.14	325.66	325.70
April 5, 1993	-	322.59	322.72	322.06	322.93	322.06	325.74	326.37
July 6, 1993	-	321.56	321.57	321.54	321.59	321.55	323.59	323.21
October 12, 1993	319.48	321.56	321.57	325.98	321.93	319.73	324.16	323.79
April 19-28, 1994	322.82	322.00	321.72	322.89	322.84	321.31	324.41	324.62
October 4-5, 1994	321.78	323.31	323.38	323.68	323.58	323.53	323.94	324.23
December 20, 1994	318.82	323.60	323.65	323.83	323.80	323.77	324.57	325.02

Notes:

1. Groundwater elevations measured by EAS Laboratory personnel in January, April, and October 1993 and April and October 1994. Other groundwater elevations measured by GZA.
2. Calculated groundwater elevations are based on a survey performed during the RFI by Dicara Land Surveying Services of Winstead, Connecticut and on surveys performed by GZA during the RFI.
3. A "-" indicates information not available. "S" indicates Shallow Overburden, "D" indicates Deep Overburden, and "B" indicates Bedrock.
4. Historic data for well MW-62B indicate that the well does not recharge, indicating that water levels do not reflect piezometer head in the bedrock.

RFI TABLE 3-1
SUMMARY OF WELL AND GROUNDWATER ELEVATIONS
Envirite Facility
Thomaston, Connecticut

WELL ELEVATIONS (FT MSL)								
Well Number	MW51B	MW52D	MW53D	MW55B	MW56S	MW56D	MW57S	MW58S
Top of PVC	340.24	342.45	339.75	341.25	332.96	332.78	331.30	329.30
Ground	-	342	338	340	333	333	331	329
Top of Screen	302	294	308	326	326	284	324	323
Base of Screen	292	284	298	315	321	279	319	318
Bedrock Surface	307	281	297	332	-	279.6	-	-

GROUNDWATER DEPTH (Feet MSL)								
Well Number	MW51B	MW52D	MW53D	MW55B	MW56S	MW56D	MW57S	MW58S
January 4, 1993	-	16.67	13.50	12.08	-	-	-	-
April 5, 1993	-	15.83	13.83	12.17	-	-	-	-
July 6, 1993	17.04	19.80	15.97	16.91	-	-	-	-
October 12, 1993	17.04	19.80	15.33	15.50	-	-	-	-
April 19-28, 1994	15.33	17.54	15.04	13.58	10.33	10.50	8.92	7.50
October 4-5, 1994	15.94	18.04	15.61	15.75	10.04	10.19	8.56	7.65
December 20, 1994	15.03	17.23	14.96	14.02	-	-	-	-

GROUNDWATER ELEVATION (Feet MSL)								
Well Number	MW51B	MW52D	MW53D	MW55B	MW56S	MW56D	MW57S	MW58S
January 4, 1993	-	325.78	326.25	329.17	-	-	-	-
April 5, 1993	-	326.62	325.92	329.08	-	-	-	-
July 6, 1993	323.20	322.65	323.78	324.34	-	-	-	-
October 12, 1993	323.20	322.65	324.42	325.75	-	-	-	-
April 19-28, 1994	324.91	324.91	324.71	327.67	322.63	322.28	322.38	321.80
October 4-5, 1994	324.30	324.41	324.14	325.50	322.92	322.59	322.74	321.65
December 20, 1994	325.21	325.22	324.79	327.23	-	-	-	-

Notes:

1. Groundwater elevations measured by EAS Laboratory personnel in January, April, and October 1993 and April and October 1994. Other groundwater elevations measured by GZA.
2. Calculated groundwater elevations are based on a survey performed during the RFI by Dicara Land Surveying Services of Winstead, Connecticut and on surveys performed by GZA during the RFI.
3. A "-" indicates information not available, "S" indicates Shallow Overburden, "D" indicates Deep Overburden, and "B" indicates Bedrock.
4. Historic data for well MW-62B indicate that the well does not recharge, indicating that water levels do not reflect piezometer head in the bedrock.

RFI TABLE 3-1
SUMMARY OF WELL AND GROUNDWATER ELEVATIONS
Envirite Facility
Thomaston, Connecticut

WELL ELEVATIONS (FUMSL)

Well Number	MW58D	MW59S	MW59D	MW60S	MW61S	MW61D	MW61B	MW62S (3)
Top of PVC	329.21	331.12	331.36	329.61	339.31	339.34	339.53	338.49
Ground	329	331	331	330	-	-	-	-
Top of Screen	261	326	291	326	315	296	278	318
Base of Screen	256	316	281	316	309	286	268	316
Bedrock Surface	255	-	280	-	284	284	284	316

GROUNDWATER DEPTH (Feet MSL)

Well Number	MW58D	MW59S	MW59D	MW60S	MW61S	MW61D	MW61B	MW62S (3)
January 4, 1993	-	-	-	-	-	-	-	-
April 5, 1993	-	-	-	-	-	-	-	-
July 6, 1993	-	-	-	-	16.81	20.04	16.83	15.29
October 12, 1993	-	-	-	-	16.81	17.58	16.00	14.92
April 19-28, 1994	7.25	8.75	8.92	7.58	15.00	15.33	15.17	14.50
October 4-5, 1994	7.41	9.05	9.27	7.93	16.10	15.02	16.15	14.89
December 20, 1994	-	-	-	-	14.79	14.85	18.61	14.35

GROUNDWATER ELEVATION (Feet MSL)

Well Number	MW58D	MW59S	MW59D	MW60S	MW61S	MW61D	MW61B	MW62S (3)
January 4, 1993	-	-	-	-	-	-	-	-
April 5, 1993	-	-	-	-	-	-	-	-
July 6, 1993	-	-	-	-	322.50	319.30	322.70	323.20
October 12, 1993	-	-	-	-	322.50	321.76	323.53	323.57
April 19-28, 1994	321.96	322.37	322.44	322.03	324.31	324.01	324.36	323.99
October 4-5, 1994	321.80	322.07	322.09	321.68	323.21	324.32	323.38	323.60
December 20, 1994	-	-	-	-	324.52	324.49	320.92	324.14

Notes:

1. Groundwater elevations measured by EAS Laboratory personnel in January, April, and October 1993 and April and October 1994. Other groundwater elevations measured by GZA.
2. Calculated groundwater elevations are based on a survey performed during the RFI by Dicara Land Surveying Services of Winstead, Connecticut and on surveys performed by GZA during the RFI.
3. A "-" indicates information not available, "S" indicates Shallow Overburden, "D" indicates Deep Overburden, and "B" indicates Bedrock.
4. Historic data for well MW-62B indicate that the well does not recharge. indicating that water levels do not reflect piezometer head in the bedrock.

RFI TABLE 3-1
SUMMARY OF WELL AND GROUNDWATER ELEVATIONS
Envirite Facility
Thomaston, Connecticut

WELL ELEVATIONS (Ft. MSL)								
Well Number	MW62B	MW63S	BBP-1 in	BBP-1 out	BBP-2 in	BBP-2 out	BBP-3 in	BBP-3 out
Top of PVC	338.57	342.68	324.74	324.74	329.17	329.17	325.42	325.42
Ground	-	-	-	-	-	-	-	-
Top of Screen	311	-	-	-	-	-	-	-
Base of Screen	301	-	-	-	-	-	-	-
Bedrock Surface	316	-	-	-	-	-	-	-

GROUNDWATER DEPTH (Feet MSL)								
Well Number	MW62B	MW63S	BBP-1 in	BBP-1 out	BBP-2 in	BBP-2 out	BBP-3 in	BBP-3 out
January 4, 1993	-	-	-	-	-	-	-	-
April 5, 1993	-	-	-	-	-	-	-	-
July 6, 1993	33.12	17.84	-	-	-	-	-	-
October 12, 1993	29.33	17.25	-	-	-	-	-	-
April 19-28, 1994	16.04	16.08	-	-	-	-	-	-
October 4-5, 1994	14.90	17.09	-	-	3.13	-	-	-
December 20, 1994	32.85	16.48	0.78	0.75	2.99	2.97	1.41	1.46

GROUNDWATER ELEVATION (Feet MSL)								
Well Number	MW62B	MW63S	BBP-1 in	BBP-1 out	BBP-2 in	BBP-2 out	BBP-3 in	BBP-3 out
January 4, 1993	-	-	-	-	-	-	-	-
April 5, 1993	-	-	-	-	-	-	-	-
July 6, 1993	305.45	324.84	-	-	-	-	-	-
October 12, 1993	309.24	325.43	-	-	-	-	-	-
April 19-28, 1994	322.53	326.60	-	-	-	-	-	-
October 4-5, 1994	323.67	325.59	-	-	326.04	-	-	-
December 20, 1994	305.72	326.20	323.96	323.99	326.18	326.20	324.01	323.96

Notes:

1. Groundwater elevations measured by EAS Laboratory personnel in January, April, and October 1993 and April and October 1994. Other groundwater elevations measured by GZA.
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3. A "-" indicates information not available. "S" indicates Shallow Overburden. "D" indicates Deep Overburden, and "B" indicates Bedrock.
4. Historic data for well MW-62B indicate that the well does not recharge, indicating that water levels do not reflect piezometer head in the bedrock.

Date Prepared: 1/24/95
Updated: 2/16/95
Printed: 6/2/97

RFI TABLE 3-1
SUMMARY OF WELL AND GROUNDWATER ELEVATIONS
Envirite Facility
Thomaston, Connecticut

WELL ELEVATIONS (Ft. MSL)								
Well Number	BBP-4 in	BBP-4 out	NRP-1 in	NRP-1 out	NRP-2 in	NRP-2 out	NRP-3 in	NRP-3 out
Top of PVC	324.39	324.39	327.06	327.06	327.86	327.86	327.79	327.79
Ground	-	-	-	-	-	-	-	-
Top of Screen	-	-	-	-	-	-	-	-
Base of Screen	-	-	-	-	-	-	-	-
Bedrock Surface	-	-	-	-	-	-	-	-

GROUNDWATER DEPTH (Feet MSL)								
Well Number	BBP-4 in	BBP-4 out	NRP-1 in	NRP-1 out	NRP-2 in	NRP-2 out	NRP-3 in	NRP-3 out
January 4, 1993	-	-	-	-	-	-	-	-
April 5, 1993	-	-	-	-	-	-	-	-
July 6, 1993	-	-	-	-	-	-	-	-
October 12, 1993	-	-	-	-	-	-	-	-
April 19-28, 1994	-	-	-	-	-	-	-	-
October 4-5, 1994	2.38	-	2.88	-	3.08	-	3.78	-
December 20, 1994	2.25	2.38	2.25	2.18	2.37	2.40	3.28	3.22

GROUNDWATER ELEVATION (Feet MSL)								
Well Number	BBP-4 in	BBP-4 out	NRP-1 in	NRP-1 out	NRP-2 in	NRP-2 out	NRP-3 in	NRP-3 out
January 4, 1993	-	-	-	-	-	-	-	-
April 5, 1993	-	-	-	-	-	-	-	-
July 6, 1993	-	-	-	-	-	-	-	-
October 12, 1993	-	-	-	-	-	-	-	-
April 19-28, 1994	-	-	-	-	-	-	-	-
October 4-5, 1994	322.01	-	324.18	-	324.78	-	324.01	-
December 20, 1994	322.14	322.01	324.81	324.88	325.49	325.46	324.51	324.57

Notes:

1. Groundwater elevations measured by EAS Laboratory personnel in January, April, and October 1993 and April and October 1994. Other groundwater elevations measured by GZA.
2. Calculated groundwater elevations are based on a survey performed during the RFI by Dicara Land Surveying Services of Winstead, Connecticut and on surveys performed by GZA during the RFI.
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4. Historic data for well MW-62B indicate that the well does not recharge, indicating that water levels do not reflect piezometer head in the bedrock.

RFI TABLE 3-1
SUMMARY OF WELL AND GROUNDWATER ELEVATIONS
Envirite Facility
Thomaston, Connecticut

WELL ELEVATIONS (Ft MSL)		
Well Number	NRP-4 in	NRP-4 out
Top of PVC	325.13	325.13
Ground	-	-
Top of Screen	-	-
Base of Screen	-	-
Bedrock Surface	-	-

GROUNDWATER DEPTH (Feet MSL)		
Well Number	NRP-4 in	NRP-4 out
January 4, 1993	-	-
April 5, 1993	-	-
July 6, 1993	-	-
October 12, 1993	-	-
April 19-28, 1994	-	-
October 4-5, 1994	3.11	-
December 20, 1994		

GROUNDWATER ELEVATION (Feet MSL)		
Well Number	NRP-4 in	NRP-4 out
January 4, 1993	-	-
April 5, 1993	-	-
July 6, 1993	-	-
October 12, 1993	-	-
April 19-28, 1994	-	-
October 4-5, 1994	322.02	-
December 20, 1994	325.13	325.13

Notes:

1. Groundwater elevations measured by EAS Laboratory personnel in January, April, and October 1993 and April and October 1994. Other groundwater elevations measured by GZA.
2. Calculated groundwater elevations are based on a survey performed during the RFI by Dicara Land Surveying Services of Winstead, Connecticut and on surveys performed by GZA during the RFI.
3. A "-" indicates information not available, "S" indicates Shallow Overburden, "D" indicates Deep Overburden, and "B" indicates Bedrock.
4. Historic data for well MW-62B indicate that the well does not recharge, indicating that water levels do not reflect piezometer head in the bedrock.

PRE-ENVIRITE WASTE MATERIAL - VOLATILES

Sample ID	HMH941026WPW09G		HMH941026WPW09G		HMH941026WPW0X1		HMH941026WPW0X1		HMH941031WPW11D		HMH941031WPW11D		HMH941109WPW19D	
EAS or IEA No.	1160013		1160013		1160016		1160016		1160020		1160020		1160034	
Units	mg/kg		mg/l		mg/kg		mg/l		mg/kg		mg/l		mg/kg	
Run By	IEA		IEA		IEA		IEA		IEA		IEA		IEA	
Collection Date	10/26/94		10/26/94		10/26/94		10/26/94		10/31/94		10/31/94		11/9/94	
Matrix	WP		WP-TCLP		WP		WP-TCLP		WP		WP-TCLP		WP	
Depth (feet)	23.5-25.5		23.5-25.5		N		N		26-28		26-28		20.5-22.5	
Subarea	W		W		W		W		W		W		W	
Chloromethane	1.3	U			1.3	U			0.011	U			1.3	U
Vinyl chloride	1.3	U	0.01	U	1.3	U	0.01	U	0.011	U	0.01	U	1.3	U
Bromomethane	1.3	U			1.3	U			0.011	U			1.3	U
Chloroethane	1.3	U			1.3	U			0.011	U			1.3	U
Acetone	1.3	U			1.3	U			0.021	U			1.3	U
1,1-Dichloroethene	1.3	U	0.005	U	1.3	U	0.005	U	0.011	U	0.005	U	0.07	J
Methylene chloride	1.3	U			1.3	U			0.011	U			1.3	U
Carbon disulfide	1.3	U			1.3	U			0.011	U			1.3	U
Trans-1,2-Dichloroethene	1.3	U			1.3	U			0.002	J,half			1.3	U
1,1-Dichloroethane	1.3	U			1.3	U			0.011	U			1.3	U
Vinyl acetate													N	N
2-Butanone	1.3	U	0.01	UJ	1.3	U	0.01	UJ	0.011	U	0.01	UJ	1.3	U
Cis-1,2-Dichloroethene	1.3	U			1.3	U			0.002	J,half			1.3	U
Chloroform	1.3	U	0.005	U	0.24	J	0.005	U	0.011	U	0.005	U	1.3	U
1,1,1-Trichloroethane	1.3	U			1.3	U			0.011	U			1.3	U
Carbon tetrachloride	1.3	UJ	0.005	U	1.3	UJ	0.005	U	0.011	U	0.005	UJ	1.3	U
1,2-Dichloroethane	1.3	U	0.005	U	1.3	U	0.005	U	0.011	U	0.005	U	1.3	U
Benzene	1.3	U	0.005	U	1.3	U	0.005	U	0.002	J	0.005	U	0.15	J
Trichloroethene	1.3	U	0.005	U	1.3	U	0.005	U	0.011	U	0.005	U	0.2	J
1,2-Dichloropropane	1.3	U			1.3	U			0.011	U			1.3	U
Bromodichloromethane	1.3	U			1.3	U			0.011	U			1.3	U
2-Chloroethyl vinyl ether	N	N	N	N	N	N	N	N	N	N	N	N		
4-Methyl-2-pentanone	1.3	U			1.3	U			0.011	U			1.3	U
Cis-1,3-Dichloropropene	1.3	U			1.3	U			0.011	U			1.3	U
Toluene	0.61	J			0.92	J			0.005	J			0.28	JB
Trans-1,3-Dichloropropene	1.3	U			1.3	U			0.011	U			1.3	U
1,1,2-Trichloroethane	1.3	U			1.3	U			0.011	U			1.3	U
2-Hexanone	1.3	U			1.3	U			0.011	U			1.3	U
Tetrachloroethene	1.3	U	0.002	J	1.3	U	0.005	U	0.015	X	0.005	U	0.1	J
Dibromochloromethane	1.3	U			1.3	U			0.011	U			1.3	U
Chlorobenzene	1.3	U	0.005	U	1.3	U	0.005	U	0.011	U	0.005	U	0.15	J
Ethylbenzene	8.6	X			14	X			0.047	X			1.3	U

PRE-ENVIRITE WASTE MATERIAL - VOLATILES

Sample ID	HMH941026WPW09G		HMH941026WPW09G		HMH941026WPW0X1		HMH941026WPW0X1		HMH941031WPW11D		HMH941031WPW11D		HMH941109WPW19D	
EAS or IEA No.	1160013		1160013		1160016		1160016		1160020		1160020		1160034	
Units	mg/kg		mg/l		mg/kg		mg/l		mg/kg		mg/l		mg/kg	
Run By	IEA		IEA		IEA		IEA		IEA		IEA		IEA	
Collection Date	10/26/94		10/26/94		10/26/94		10/26/94		10/31/94		10/31/94		11/9/94	
Matrix	WP		WP-TCLP		WP		WP-TCLP		WP		WP-TCLP		WP	
Depth (feet)	23.5-25.5		23.5-25.5		N		N		26-28		26-28		20.5-22.5	
Subarea	W		W		W		W		W		W		W	
Xylenes (total)	27	J			50	J			0.018	X			0.23	JB
Styrene	1.3	U			1.3	U			0.011	U			1.3	U
Bromoform	1.3	U			1.3	U			0.011	U			1.3	U
1,1,2,2-Tetrachloroethane	1.3	U			1.3	U			0.011	U			1.3	U
1,2,3-Trichloropropane														
Iodomethane														
1,4-Dichloro-2-butene														
Ethyl methacrylate														
Acrolein														
Acrylonitrile														
Allyl chloride														
Acetonitrile														
Chloroprene														
Methacrylonitrile														
Methyl methacrylate														
1,4-Dioxane														
1,2-Dibromoethane														
Pentachloroethane														
1,2-Dibromo-3-chloropropane														
Trichlorofluoromethane														

PRE-ENVIRITE WASTE MATERIAL - VOLATILES

Sample ID	HMH941109WPW19D		HMH941115WPW24E		HMH941115WPW24E		HMH941121WPW25C		HMH941121WPW25C		CW941207WPW30E		CW941207WPW30E	
EAS or IEANo.	1160034		9406151		9406151		1340002		1340002		1412008		1412008	
Units	mg/l		mg/kg		mg/l		mg/kg		mg/l		mg/kg		mg/l	
Run By	IEA		EAS		EAS		IEA		IEA		IEA		EAS	
Collection Date	11/9/94		11/15/94		11/15/94		11/21/94		11/21/94		12/7/94		12/7/94	
Matrix	WP-TCLP		WP		WP-TCLP		WP		WP-TCLP		WP		WP-TCLP	
Depth (feet)	20.5-22.5		13-15		13-15		9-11		9-11		13-15		13-15	
Subarea	W		W		W		W		W		W		W	
Chloromethane	N	N	1.2	UR	N	N	900	U			94	U		
Vinyl chloride	0.01	U	1.2	UR	0.25	U	900	U	0.01	U	94	U	0.20	U
Bromomethane	N	N	1.2	UR	N	N	900	U			94	U		
Chloroethane	N	N	1.2	UR	N	N	900	U			94	U		
Acetone	N	N	47	U	N	N	900	U			94	U		
1,1-Dichloroethene	0.005	U	1.2	UR	0.13	U	900	U	0.005	U	94	U	0.1	U
Methylene chloride	N	N	1.2	UR	N	N	900	U			94	U		
Carbon disulfide	N	N	1.2	UR	N	N	900	U			94	U		
Trans 1,2-Dichloroethene	N	N	3.2	J, half	N	N	70	J,half			26	J,half		
1,1-Dichloroethane	N	N	1.2	UR	N	N	900	U			94	U		
Vinyl acetate	N	N									94	U		
2-Butanone	0.01	U	260	J	0.45	X	2100	X	0.1	X	94	U	0.20	U
Cis-1,2-Dichloroethene	N	N	3.2	J, half	N	N	70	J,half			26	J,half		
Chloroform	0.005	U	2.1	J	0.02	J	900	U	0.005	U	94	U	0.1	U
1,1,1-Trichloroethane	N	N	1.2	UR	N	N	900	U			94	U		
Carbon tetrachloride	0.005	U	1.2	UR	0.13	U	900	U	0.005	U	94	U	0.10	U
1,2-Dichloroethane	0.005	U	1.2	UR	0.13	U	900	U	0.005	U	94	U	0.10	U
Benzene	0.005	U	0.57	J	0.03	J	30	J	0.005	U	94	U	0.10	U
Trichloroethene	0.005	U	43	J	2.8	T	3300	X	0.024	X	250	X	0.93	X
1,2-Dichloropropane	N	N	1.2	UR	N	N	900	U			94	U		
Bromodichloromethane	N	N	1.2	UR	N	N	900	U			94	U		
2-Chloroethyl vinyl ether												N		
4-Methyl-2-pentanone	N	N	240	J	N	N	7900	X			540	X		
Cis-1,3-Dichloropropene	N	N	1.2	UR	N	N	900	U			94	U		
Toluene	N	N	170	J	N	N	15000	X			2000	X		
Trans-1,3-Dichloropropene	N	N	1.2	UR	N	N	900	U			94	U		
1,1,2-Trichloroethane	N	N	1.2	UR	N	N	900	U			94	U		
2-Hexanone	N	N	1.2	UR	N	N	900	U			94	U		
Tetrachloroethene	0.005	U	41	J	1.5	X	3100	X	0.007	X	440	X	1.2	X
Dibromochloromethane	N	N	1.2	UR	N	N	900	U			94	U		
Chlorobenzene	0.005	U	0.38	J	0.01	J	900	U	0.005	U	94	U	0.10	U
Ethylbenzene	N	N	67	J	N	N	3100	X			700	X		

PRE-ENVIRITE WASTE MATERIAL - VOLATILES

Sample ID	HMH941109WPW19D		HMH941115WPW24E		HMH941115WPW24E		HMH941121WPW25C		HMH941121WPW25C		CW941207WPW30E		CW941207WPW30E	
EAS or IEANo.	1160834		9406151		9406151		1340002		1340002		1412008		1412008	
Units	mg/l		mg/kg		mg/l		mg/kg		mg/l		mg/kg		mg/l	
Run By	IEA		EAS		EAS		IEA		IEA		IEA		EAS	
Collection Date	11/9/94		11/15/94		11/15/94		11/21/94		11/21/94		12/7/94		12/7/94	
Matrix	WP-TCLP		WP		WP-TCLP		WP		WP-TCLP		WP		WP-TCLP	
Depth (feet)	20.5-22.5		13-15		13-15		9-11		9-11		13-15		13-15	
Subarea	W		W		W		W		W		W		W	
Xylenes (total)	N	N	310	J	N	N	16000	X			2600	B		
Styrene	N	N	1.2	UR	N	N	2300	X			620	X		
Bromoform	N	N	1.2	UR	N	N	900	U			94	U		
1,1,2,2-Tetrachloroethane	N	N	1.2	UR	N	N	900	U	N	N	94	U		
1,2,3-Trichloropropane														
Iodomethane														
1,4-Dichloro-2-butene														
Ethyl methacrylate														
Acrolein														
Acrylonitrile														
Allyl chloride														
Acetonitrile														
Chloroprene														
Methacrylonitrile														
Methyl methacrylate														
1,4-Dioxane														
1,2-Dibromoethane														
Pentachloroethane														
1,2-Dibromo-3-chloropropane														
Trichlorofluoromethane														

PRE-ENVIRITE WASTE MATERIAL - SVOCs

Sample ID	HMH941026WPW09G		HMH941026WPW09G		HMH941026WPW0X1		HMH941026WPW0X1		HMH941031WPW11D		HMH941031WPW11D		HMH941109WPW19D	
EAS or IEA No.	1160013		1160013		1160016		1160016		1160020		1160020		1160034	
Units	mg/kg		mg/l		mg/kg		mg/l		mg/kg		mg/l		mg/kg	
Run By	IEA		IEA		IEA		IEA		IEA		IEA		IEA	
Collection Date	10/26/94		10/26/94		10/26/94		10/26/94		10/31/94		10/31/94		11/9/94	
Matrix	WP		WP-TCLP		WP		WP-TCLP		WP		WP-TCLP		WP	
Depth (feet)	23.5-25.5		23.5-25.5		N		N		26-28		26-28		20.5-22.5	
Subarea	W		W		W		W		W		W		W	
2-Chlorophenol	74	U			38	U			7.6	U			89	U
2,4-Dichlorophenol	74	U			38	U			7.6	U			89	U
Naphthalene	12	J			6.8	J			7.6	U			18	J
2-Methylnaphthalene	74	U			2.1	J			7.6	U			4.5	J
Acenaphthene	74	U			38	U			7.6	U			89	U
Dibenzofuran	74	U			38	U			7.6	U			89	U
Diethyl phthalate	74	U			38	U			7.6	U			89	U
Fluorene	74	U			38	U			7.6	U			89	U
N-Nitrosodiphenylamine	74	U			38	U			7.6	U			89	U
Phenanthrene	74	U			38	U			7.6	U			89	U
Anthracene	74	U			38	U			7.6	U			89	U
Di-n-butylphthalate	74	U			38	U			7.6	U			200	X
Fluoranthene	74	U			38	U			7.6	U			89	U
Pyrene	74	U			38	U			7.6	U			89	U
Butylbenzylphthalate	200	B			120	U			7.6	U			89	U
Bis(2-ethylhexyl)phthalate	340	U			210	U			38	U			610	B
Di-n-octylphthalate	74	U			38	U			7.6	U			7	J
Benzo(b)fluoranthene	74	U			38	U			7.6	U			89	U
Benzo(k)fluoranthene	74	U			38	UJ			7.6	U			89	U
Benzo(a)pyrene	74	U			38	U			7.6	U			89	U
N-Nitrosodimethylamine														
2,6-Dichlorophenol														
1,4-Dichlorobenzene	74	U	0.02	U	38	U	0.02	U	7.6	U	0.02	U	89	U
Hexachloroethane	74	U	0.02	U	38	U	0.02	U	7.6	U	0.02	U	89	U
Nitrobenzene	74	U	0.02	U	38	U	0.02	U	7.6	U	0.02	U	89	U
Hexachlorobutadiene	74	U	0.02	U	38	U	0.02	U	7.6	U	0.02	U	89	U
2,4,6-Trichlorophenol	74	U	0.02	U	38	U	0.02	U	7.6	U	0.02	U	89	U
2,4,5-Trichlorophenol	180	U	0.1	U	91	U	0.1	U	18	U	0.1	U	220	U
2,4-Dinitrotoluene	74	U	0.02	U	38	U	0.02	U	7.6	U	0.02	U	89	U
Hexachlorobenzene	74	U	0.02	U	38	U	0.02	U	7.6	U	0.02	U	89	U
Pentachlorophenol	180	UJ	0.1	U	91	U	0.1	U	18	UJ	0.1	U	220	U
2-Methylphenol	74	U	0.02	U	38	U	0.02	U	7.6	U	0.02	U	89	U

PRE-ENVIRITE WASTE MATERIAL - SVOCs

Sample ID	HMH941026WPW09G		HMH941026WPW09G		HMH941026WPW0X1		HMH941026WPW0X1		HMH941031WPW11D		HMH941031WPW11D		HMH941109WPW19D	
EAS or IEANo.	1160013		1160013		1160016		1160016		1160020		1160020		1160034	
Units	mg/kg		mg/l		mg/kg		mg/l		mg/kg		mg/l		mg/kg	
Run By	IEA		IEA		IEA		IEA		IEA		IEA		IEA	
Collection Date	10/26/94		10/26/94		10/26/94		10/26/94		10/31/94		10/31/94		11/9/94	
Matrix	WP		WP-TCLP		WP		WP-TCLP		WP		WP-TCLP		WP	
Depth (feet)	23.5-25.5		23.5-25.5		N		N		26-28		26-28		20.5-22.5	
Subarea	W		W		W		W		W		W		W	
4-Methylphenol	74	U	0.02	U	38	U	0.02	U	7.6	U	0.02	U	89	U
Pyridine			0.02	U			0.02	U			0.02	U	N	N
Acenaphthylene	74	U			38	UJ			7.6	U			89	U
Benzidine	N	N	N	N	N	N	N	N	N	N	N	N		
Benzo(a)anthracene	74	U			38	U			7.6	U			89	U
Benzo(g,h,i)perylene	74	U			38	U			7.6	U			89	U
Bis(2-chloroethyl)ether	74	U			38	U			7.6	U			89	U
Bis(2-chloroethoxy)methane	74	U			38	U			7.6	U			89	U
Bis(2-chloroisopropyl)ether														
4-Bromophenyl phenyl ether	74	U			38	U			7.6	U			89	U
2-Chloronaphthalene	74	U			38	U			7.6	U			89	U
4-Chlorophenyl phenyl ether	74	U			38	U			7.6	U			89	U
Chrysene	74	U			38	U			7.6	U			89	U
Dibenzo(a,h)anthracene	74	U			38	U			7.6	U			89	U
1,3-Dichlorobenzene	74	U			38	U			7.6	U			89	U
1,2-Dichlorobenzene	74	U			38	U			7.6	U			89	U
3,3'-Dichlorobenzidine	74	U			38	U			7.6	U			89	U
Dimethyl phthalate	74	U			38	U			7.6	U			89	U
2,6-Dinitrotoluene	74	U			38	U			7.6	U			89	U
Hexachlorocyclopentadiene	74	UJ			38	UJ			7.6	UJ			89	U
Indeno(1,2,3-cd)pyrene	74	U			38	U			7.6	U			89	U
Isophorone	74	U			38	U			7.6	U			89	U
N-Nitroso-di-n-propylamine	74	U			38	U			7.6	U			89	U
1,2,4-Trichlorobenzene	74	U			38	U			7.6	U			89	U
1,2-Diphenylhydrazine	N	N	N	N	N	N	N	N	N	N				
4-Chloro-3-methylphenol	74	U	N	N	38	U	N	N	7.6	U			89	U
2,4-Dimethylphenol	74	U	N	N	38	U	N	N	7.6	U			89	U
2,4-Dinitrophenol	180	UJ	N	N	91	UJ	N	N	18	UJ			220	U
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	180	U			91	UJ	N	N	18	U	N	N	220	U
2-Nitrophenol	74	U			38	UJ			7.6	U			89	U
4-Nitrophenol	180	U			91	U			18	U			220	U

PRE-ENVIRITE WASTE MATERIAL - SVOCs

Sample ID	HMH941026WPW09G		HMH941026WPW09G		HMH941026WPW0X1		HMH941026WPW0X1		HMH941031WPW11D		HMH941031WPW11D		HMH941109WPW19D	
EAS or IEA No.	1160013		1160013		1160016		1160016		1160020		1160020		1160034	
Units	mg/kg		mg/l		mg/kg		mg/l		mg/kg		mg/l		mg/kg	
Run By	IEA		IEA		IEA		IEA		IEA		IEA		IEA	
Collection Date	10/26/94		10/26/94		10/26/94		10/26/94		10/31/94		10/31/94		11/9/94	
Matrix	WP		WP-TCLP		WP		WP-TCLP		WP		WP-TCLP		WP	
Depth (feet)	23.5-25.5		23.5-25.5		N		N		26-28		26-28		20.5-22.5	
Subarea	W		W		W		W		W		W		W	
Phenol	74	U			38	U			7.6	U			89	U
2,2' oxybis(1-Chloropropane)	74	U			38	UJ	N	N	7.6	U			89	U
4-Chloroaniline	74	UJ	N	N	38	UJ			7.6	UJ			89	U
2-Nitroaniline	180	U			91	U			18	U			220	U
3-Nitroaniline	180	U			91	UJ			18	U			220	U
4-Nitroaniline	180	U			91	U			18	U			220	U
Carbazole	74	U			38	U			7.6	U			89	U
1,2,4,5-Tetrachlorobenzene									N	N			N	N
1,4-Naphthoquinone									N	N			N	N
1-Naphthylamine									N	N			N	N
2,3,4,6-Tetrachlorophenol									N	N				
2-Acetylaminofluorene														
2-Chloronaphthalene														
2-Naphthylamine														
2-Picoline														
3,3'-Dimethylbenzidine														
3-Methylcholanthrene														
4-Aminobiphenyl														
4-Nitroquinoline-1-oxide														
5-Nitro-o-toluidine														
7,12-Dimethylbenz(a)anthracene														
Acetophenone														
alpha,alpha-Dimethylphenethylamine														
Aniline														
Aramite														
Benzoic acid														
Benzyl alcohol														
Bis(2-chloro-1-methylethyl)ether														
Chlorobenzilate														
Diallate														
Dimethoate														
Diphenylamine														

PRE-ENVIRITE WASTE MATERIAL - SVOCs

Sample ID	HMH941109WPW19D		HMH941115WPW24E		HMH941115WPW24E		HMH941121WPW25C		HMH941121WPW25C		CW941207WPW30E		CW941207WPW30E	
EAS or IEA No.	1160034		9406151		9406151		1340002		1340002		1412008		1412008	
Units	mg/l		mg/kg		mg/l		mg/kg		mg/l		mg/kg		mg/l	
Run By	IEA		EAS		EAS		IEA		IEA		IEA		EAS	
Collection Date	11/9/94		11/15/94		11/15/94		11/21/94		11/21/94		12/7/94		12/7/94	
Matrix	WP-TCLP		WP		WP-TCLP		WP		WP-TCLP		WP		WP-TCLP	
Depth (feet)	20.5-22.5		13-15		13-15		9-11		9-11		13-15		13-15	
Subarea	W		W		W		W		W		W		W	
4-Methylphenol	0.02	U	0.33	U	0.05	X	240	U	1.2	J	25	U	0.11	X
Pyridine	0.02	U	N	N	0.02	U			0.29	J			0.02	U
Acenaphthylene	N	N	0.33	U	N	N	240	U			25	U		
Benzidine														
Benzo(a)anthracene	N	N	0.33	U	N	N	240	U			25	U		
Benzo(g,h,i)perylene	N	N	0.33	U	N	N	240	U			25	U		
Bis(2-chloroethyl)ether	N	N	0.33	U	N	N	240	U			25	U		
Bis(2-chloroethoxy)methane	N	N	0.33	U	N	N	240	U			25	U		
Bis(2-chloroisopropyl)ether														
4-Bromophenyl phenyl ether	N	N	0.33	U	N	N	240	U			25	U		
2-Chloronaphthalene	N	N	0.33	U	N	N	240	U			25	U		
4-Chlorophenyl phenyl ether	N	N	0.33	U	N	N	240	U			25	U		
Chrysene	N	N	0.33	U	N	N	240	U			25	U		
Dibenzo(a,h)anthracene	N	N	0.33	U	N	N	240	U			25	U		
1,3-Dichlorobenzene	N	N	0.33	U	N	N	240	U			25	U		
1,2-Dichlorobenzene	N	N	0.33	U	N	N	240	U			25	U		
3,3'-Dichlorobenzidine	N	N	0.33	U	N	N	240	U			25	U		
Dimethyl phthalate	N	N	0.33	U	N	N	240	U			25	U		
2,6-Dinitrotoluene	N	N	0.33	U	N	N	240	U			25	U		
Hexachlorocyclopentadiene	N	N	0.33	U	N	N	240	U			25	U		
Indeno(1,2,3-cd)pyrene	N	N	0.33	U	N	N	240	U			25	U		
Isophorone	N	N	13	J	N	N	68	J			1.9	J		
N-Nitroso-di-n-propylamine	N	N	0.33	U	N	N	240	U			25	U		
1,2,4-Trichlorobenzene	N	N	0.33	U	N	N	240	U			25	U		
1,2-Diphenylhydrazine														
4-Chloro-3-methylphenol	N	N	0.33	U	N	N	240	U			25	U		
2,4-Dimethylphenol	N	N	0.33	U	N	N	240	U			25	U		
2,4-Dinitrophenol	N	N	0.8	U	N	N	570	U			61	U		
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	N	N	0.8	U	N	N	570	U			61	U		
2-Nitrophenol	N	N	0.33	U	N	N	240	U			25	U		
4-Nitrophenol	N	N	0.8	U	N	N	570	U			61	U		

PRE-ENVIRITE WASTE MATERIAL/WASTE MATERIAL - HERBACIDES AND MISCELLANEOUS

Sample ID	HMH941026WPW09G		HMH941026WPW09G		HMH941026WPW0X1		HMH941026WPW0X1		HMH941031WPW11D		HMH941031WPW11D		HMH941109WPW19D	
EAS No	1160013		1160013		1160016		1160016		1160020		1160020		1160034	
Units	mg/kg		mg/l		mg/kg		mg/l		mg/kg		mg/l		mg/kg	
Run By	IEA		IEA		IEA		IEA		IEA		IEA		IEA	
Collection Date	10/26/94		10/26/94		10/26/94		10/26/94		10/31/94		10/31/94		11/9/94	
Matrix	WP		WP-TCLP		WP		WP-TCLP		WP		WP-TCLP		WP	
Depth	23.5-25.5		23.5-25.5		N		N		26-28		26-28		20.5-22.5	
Subarea	W		W		W		W		W		W		W	
% Moisture													N	N
2,4-D	0.89	U	0.005	U	0.44	U	0.005	U	0.023	U	0.005	U	0.022	U
2,4,5-TP (Silvex)	0.89	U	0.005	U	0.44	U	0.005	U	0.023	U	0.005	U	0.022	U
2,4-DB	0.89	U	N	N	0.44	U	N	N	0.023	U	N	N	0.022	U
2,4,5-T	0.22	U	N	N	0.11	U	N	N	0.0057	U	N	N	0.0054	U
Dalapon	1.8	U	N	N	0.89	U	N	N	0.19	U	N	N	0.043	U
Dicamba	0.22	U	N	N	0.11	U	N	N	0.0057	U	N	N	0.0054	U
Dichloroprop (2,4-DP)	0.22	U	N	N	0.11	U	N	N	0.0057	U	N	N	0.0054	U
Dinoseb	0.22	U	N	N	0.11	U	N	N	0.0057	U	N	N	0.0054	U
MCPA	220	U	N	N	110	U	N	N	5.7	U	N	N	0.54	U
MCPP	22	U	N	N	11	U	N	N	0.57	U	N	N	5.4	U
TSS	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Cyanide	N	N	N	N	N	N	N	N	N	N	N	N	0.5	U
Sulfide	N	N	N	N	N	N	N	N	N	N	N	N	10.4	X
Reactive Cyanide	0.5	U	N	N	0.5	U	N	N	0.5	U	N	N	N	N
Ignitability	0	U	N	N	0	U	N	N	0	U	N	N	N	N
Reactivity	0	U	N	N	0	U	N	N	0	U	N	N	N	N
Reactive Sulfide	10	U	N	N	10	U	N	N	10	U	N	N	N	N

PRE-ENVIRITE WASTE MATERIAL/WASTE MATERIAL - HERBACIDES AND MISCELLANEOUS

Sample ID	HMH941109WPW19D		HMH941115WPW24E		HMH941115WPW24E		HMH941121WPW25C		HMH941121WPW25C		CW941207WPW30E		CW941207WPW30E	
EAS No	1160034		1160042		1160042		1340002		1340002		1412008		1412008	
Units	mg/l		mg/kg		mg/l		mg/kg		mg/l		mg/kg		mg/l	
Run By	EAS		IEA		IEA		EAS		EAS		IEA		EAS	
Collection Date	11/9/94		11/15/94		11/15/94		11/21/94		11/21/94		12/7/94		12/7/94	
Matrix	WP-WCLP		WP		WP-TCLP		WP		WP-TCLP		WP		WP-TCLP	
Depth	20.5-22.5		N		N		9-11		9-11		13-15		13-15	
Subarea	W		W		W		W		W		W		W	
% Moisture	N	N	N	N	N	N	N	N	N	N	28.4	X		
2,4-D	0.0025	U	N	N	0.0025	U	0.2	U	0.05	U	0.2	U	0.005	U
2,4,5-TP (Silvex)	0.0025	U	N	N	0.0025	U	0.05	U	0.005	U	0.05	U	0.0005	U
2,4-DB	N	N	0.02	U	N	N	0.2	U	0.05	U	0.2	U	N	N
2,4,5-T	N	N	N	N	N	N	0.05	U	0.005	U	0.05	U	N	N
Dalapon	N	N	0.04	U	N	N	1	U	0.005	U	1	U	N	N
Dicamba	N	N	0.005	U	N	N	0.05	U	0.005	U	0.05	U	N	N
Dichloroprop (2,4-DP)	N	N	0.005	U	N	N	0.2	U	0.05	U	0.2	U	N	N
Dinoseb	N	N	N	N	N	N	N	N	N	N	N	N		
MCPA	N	N	N	N	N	N	50	U	3	U	50	U		
MCPP	N	N	N	N	N	N	50	U	3	U	50	U		
TSS	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Cyanide	N	N	N	N	N	N	0.5	U	N	N	N	N	N	N
Sulfide	N	N	N	N	N	N	10	U	N	N	N	N	N	N
Reactive Cyanide	N	N	N	N	N	N	0.5	U	N	N	0.05	U	N	N
Ignitability	N	N	N	N	N	N	0	U	N	N	0	U	N	N
Reactivity	N	N	N	N	N	N	0	U	N	N	0	U	N	N
Reactive Sulfide	N	N	N	N	N	N	10	U	N	N	10	U	N	N

PRE-ENVIRITE WASTE MATERIAL - METALS

Sample ID	HMH941026WPW09G		HMH941026WPW09G		HMH941026WPW0X1		HMH941026WPW0X1		HMH941031WPW11D		HMH941031WPW11D		HMH941109WPW19D		HMH941109WPW19D	
EAS or IEA No.	1160013		1160013		1160016		1160016		1160020		1160020		1160034		1160034	
Units	mg/kg		mg/l		mg/kg		mg/l		mg/kg		mg/l		mg/kg		mg/l	
Run By	IEA		IEA		IEA		IEA		IEA		IEA		IEA		IEA	
Collection Date	10/26/94		10/26/94		10/26/94		10/26/94		10/31/94		10/31/94		11/9/94		11/9/94	
Matrix	WP		WP-TCLP		WP		WP-TCLP		WP		WP-TCLP		WP		WP-TCLP	
Depth (feet)	23.5-25.5		23.5-25.5		N		N		26-28		26-28		20.5-22.5		20.5-22.5	
Subarea	W		W		W		W		W		W		W		W	
Arsenic	1.2	UJ	0.03	U	1.2	UJ	0.03	U	1.9	UJ	0.03	U	2.3	J	0.03	U
Barium	69.5	X	0.23	X	63.9	X	0.23	X	45.6	J	0.29	X	32.7	J	0.29	X
Cadmium	8.1	J	0.03	X	4.3	J	0.11	X	0.56	J	0.02	X	0.43	U	0.002	U
Chromium	48.8	X	0.04	X	34.3	X	0.04	X	25.7	X	0.12	X	15.5	X	0.01	X
Lead	25.9	J	0.02	B	13	X	0.04	B	21	X	0.08	B	12.7	X	0.05	J
Mercury	0.098	UJ	0.002	U	0.11	UJ	0.002	U	0.096	UJ	0.002	U	0.1	U	0.002	U
Selenium	0.22	U	0.05	U	0.23	UJ	0.05	U	0.24	UJ	0.05	U	0.22	U	0.05	U
Silver	1.1	J	0.003	UJ	0.68	U	0.003	UJ	0.72	U	0.003	UJ	36.5	X	0.003	U

PRE-ENVIRITE WASTE MATERIAL - METALS

Sample ID	HMH941115WPW24E		HMH941115WPW24E		HMH941121WPW25C		HMH941121WPW25C		CW941207WPW30E		CW941207WPW30E	
EAS or IEA No.	9406151		9406151		1340002		1340002		1412008		1412008	
Units	mg/kg		mg/l		mg/kg		mg/l		mg/kg		mg/kg	
Run By	EAS		EAS		IEA		IEA		IEA		EAS	
Collection Date	11/15/94		11/15/94		11/21/94		11/21/94		12/7/94		12/7/94	
Matrix	WP		WP-TCLP		WP		WP-TCLP		WP		WP-TCLP	
Depth (feet)	13-15		13-15		9-11		9-11		13-15		13-15	
Subarea	W		W		W		W		W		W	
Arsenic	1.5	J	0.03	U	2.8	J	0.027	U	2.8	X	0.03	U
Barium	59.9	X	0.34	X	1710	X	0.394	X	260	X	0.51	X
Cadmium	13.7	X	0.25	X	394	X	5.71	X	29.1	X	0.36	X
Chromium	32.8	J	0.02	X	1240	J	0.117	J	220	X	0.03	X
Lead	131	X	0.24	X	5900	X	11.2	X	541	X	0.23	X
Mercury	0.14	X	0.002	U	2.4	X	0.002	U	0.3	X	0.002	U
Selenium	1.3	X	0.05	U	47.5	J	0.047	U	6.3	X	0.05	U
Silver	0.6	U	0.003	U	10.8	X	0.003	U	0.94	J	0.003	U

PRE-ENVIRITE WASTE MATERIAL - METALS

Sample ID	HMH941026WPW09G		HMH941026WPW09G		HMH941026WPW0X1		HMH941026WPW0X1		HMH941031WPW11D		HMH941031WPW11D		HMH941109WPW19D		HMH941109WPW19D	
EAS or IEA No.	1160013		1160013		1160016		1160016		1160020		1160020		1160034		1160034	
Units	mg/kg		mg/l		mg/kg		mg/l		mg/kg		mg/l		mg/kg		mg/l	
Run By	IEA		IEA		IEA		IEA		IEA		IEA		IEA		IEA	
Collection Date	10/26/94		10/26/94		10/26/94		10/26/94		10/31/94		10/31/94		11/9/94		11/9/94	
Matrix	WP		WP-TCLP		WP		WP-TCLP		WP		WP-TCLP		WP		WP-TCLP	
Depth (feet)	23.5-25.5		23.5-25.5		N		N		26-28		26-28		20.5-22.5		20.5-22.5	
Subarea	W		W		W		W		W		W		W		W	
Beryllium	0.87	J	N	N	0.33	J	N	N	0.24	U	N	N	0.28	J		
Cobalt	10.5	J	N	N	9.7	J	N	N	7.6	J	N	N	9.5	J		
Copper	162	J	N	N	62.3	J	N	N	135	J	N	N	26.5	X		
Nickel	44.5	J	N	N	29.2	J	N	N	26.3	X	N	N	17	X		
Antimony	8.5	UJ	N	N	8.6	UJ	N	N	9.1	UJ	N	N	8.4	UJ		
Tin	3.8	J	N	N	3	U	N	N	3.1	U	N	N	2.8	UJ		
Thallium	0.22	UJ	N	N	0.25	J	N	N	0.24	U	N	N	0.22	U		
Vanadium	28.3	X			38.8	X			27.3	X			19.8	X		
Zinc	188	J			185	J			50.1	J			50.9	X		
Aluminum																
Calcium																
Hexavalent Chromium																
Iron																
Potassium																
Magnesium																
Manganese																
Sodium																
Titanium																

PRE-ENVIRITE WASTE MATERIAL - METALS

Sample ID	HMH941115WPW24E		HMH941115WPW24E		HMH941121WPW25C		HMH941121WPW25C		CW941207WPW30E		CW941207WPW30E	
EAS or IEA No.	9406151		9406151		1340002		1340002		1412008		1412008	
Units	mg/kg		mg/l		mg/kg		mg/l		mg/kg		mg/kg	
Run By	EAS		EAS		IEA		IEA		IEA		EAS	
Collection Date	11/15/94		11/15/94		11/21/94		11/21/94		12/7/94		12/7/94	
Matrix	WP		WP-TCLP		WP		WP-TCLP		WP		WP-TCLP	
Depth (feet)	13-15		13-15		9-11		9-11		13-15		13-15	
Subarea	W		W		W		W		W		W	
Beryllium	0.6	J	N	N	0.29	U			0.43	J	N	N
Cobalt	5.3	J	N	N	24.8	X			11	J	N	N
Copper	223	X	N	N	3340	J			1070	X	N	N
Nickel	12.3	X	N	N	58.8	X			25	X	N	N
Antimony	7.6	U	N	N	96.3	J			9.9	U		
Tin	2.6	U	N	N	35.4	J			3.4	U		
Thallium	0.22	J	N	N	0.59	J			0.26	J		
Vanadium	18.5	X	N	N	10.7	J			23.9	X		
Zinc	298	X	N	N	5570	J			838	J		
Aluminum	N	N	N	N								
Calcium	N	N	N	N								
Hexavalent Chromium	N	N	N	N								
Iron	N	N	N	N								
Potassium	N	N	N	N								
Magnesium	N	N	N	N								
Manganese	N	N	N	N								
Sodium	N	N	N	N								
Titanium	N	N	N	N								

PRE-ENVIRITE WASTE MATERIAL - PESTICIDES AND PCBs

Sample ID	HMH941026WPW09G		HMH941026WPW09G		HMH941026WPW0X1		HMH941026WPW0X1		HMH941031WPW11D		HMH941031WPW11D		HMH941109WPW19D	
EAS or IEANo.	1160013		1160013		1160016		1160016		1160020		1160020		1160034	
Units	mg/kg		mg/l		mg/kg		mg/l		mg/kg		mg/l		mg/kg	
Run By	IEA		IEA		IEA		IEA		IEA		IEA		IEA	
Collection Date	10/26/94		10/26/94		10/26/94		10/26/94		10/31/94		10/31/94		11/9/94	
Matrix	WP		WP-TCLP		WP		WP-TCLP		WP		WP-TCLP		WP	
Depth (feet)	23.5-25.5		23.5-25.5		N		N		26-28		26-28		20.5-22.5	
Subarea	W		W		W		W		W		W		W	
Chlordane			0.001	U	N	N	0.001	U	N	N	0.001	U	N	N
Endrin	0.018	U	0.0005	U	0.018	U	0.0005	U	0.0038	U	0.0005	U	0.0071	UJ
Heptachlor	0.0094	U	0.00025	U	0.0094	U	0.00025	U	0.002	U	0.00025	U	0.0036	UJ
Heptachlor epoxide	0.0094	U	0.00025	U	0.0094	U	0.00025	U	0.002	U	0.00025	U	0.0036	UJ
Gamma-BHC (Lindane)	0.0094	U	0.00025	U	0.0094	U	0.00025	U	0.002	U	0.00025	U	0.0036	UJ
Methoxychlor	0.094	U	0.0025	U	0.094	U	0.0025	U	0.02	U	0.0025	U	0.036	UJ
Toxaphene	0.94	U	0.005	U	0.94	U	0.005	U	0.2	U	0.005	U	0.36	UJ
Alpha-BHC	0.0094	U	N	N	0.0094	U	N	N	0.002	U	N	N	0.0036	UJ
Beta-BHC	0.0094	U	N	N	0.0094	U	N	N	0.002	U	N	N	0.0036	UJ
Delta-BHC	0.0094	U	N	N	0.0094	U	N	N	0.002	U	N	N	0.0036	UJ
Aldrin	0.0094	U	N	N	0.0094	U	N	N	0.002	U	N	N	0.0036	UJ
Endosulfan I	0.0094	U	N	N	0.0094	U	N	N	0.002	U	N	N	0.0036	UJ
Dieldrin	0.018	U			0.018	U	N	N	0.0038	U	N	N	0.0071	UJ
4,4'-DDE	0.018	U			0.018	U	N	N	0.0038	U	N	N	0.0071	UJ
Endosulfan II	0.018	U			0.018	U	N	N	0.0038	U	N	N	0.0071	UJ
4,4'-DDD	0.018	U			0.018	U	N	N	0.0038	U	N	N	0.0071	UJ
Endosulfan sulfate	0.018	U			0.018	U	N	N	0.0038	U	N	N	0.0071	UJ
4,4'-DDT	0.018	U			0.018	U	N	N	0.0038	U	N	N	0.0071	UJ
Endrin ketone	0.018	U			0.018	U	N	N	0.0038	U	N	N	0.0071	UJ
Endrin aldehyde	0.018	U			0.018	U			0.0038	U	N	N	0.0071	UJ
alpha-Chlordane	0.0094	U			0.0094	U			0.002	U			0.0036	UJ
gamma-Chlordane	0.0094	U			0.0094	U			0.002	U			0.0036	UJ
Tetrachloro-m-xylene														
Decachlorobiphenyl														
Aroclor 1016	0.18	U			0.18	U			0.038	U			0.071	UJ
Aroclor 1221	0.37	U			0.37	U			0.077	U	N	N	0.14	UJ
Aroclor 1232	0.18	U	N	N	0.18	U	N	N	0.038	U	N	N	0.071	UJ
Aroclor 1242	0.18	U	N	N	0.18	U	N	N	0.038	U	N	N	0.071	UJ
Aroclor 1248	0.18	U	N	N	0.18	U	N	N	0.038	U	N	N	4	J
Aroclor 1254	9.5	X	N	N	9.4	X	N	N	1	X	N	N	13	J
Aroclor 1260	2.8	X	N	N	2.9	X	N	N	0.22	X	N	N	0.071	UJ

PRE-ENVIRITE WASTE MATERIAL - PESTICIDES AND PCBs

Sample ID	HMH941109WPW19D		HMH941115WPW24E		HMH941115WPW24E		HMH941121WPW25C		HMH941121WPW25C		CW941207WPW30E		CW941207WPW30E	
EAS or IEA No.	1160034		9406151		9406151		1340002		1340002		1412008		1412008	
Units	mg/l		mg/kg		mg/l		mg/kg		mg/l		mg/kg		mg/l	
Run By	IEA		EAS		EAS		IEA		IEA		IEA		EAS	
Collection Date	11/9/94		11/15/94		11/15/94		11/21/94		11/21/94		12/7/94		12/7/94	
Matrix	WP-TCLP		WP		WP-TCLP		WP		WP-TCLP		WP		WP-TCLP	
Depth (feet)	20.5-22.5		13-15		13-15		9-11		9-11		13-15		13-15	
Subarea	W		W		W		W		W		W		W	
Chlordane	0.001	U	N	N	0.001	U			0.001	UJ	N	N	0.001	U
Endrin	0.0005	U	0.0033	U	0.0005	U	0.047	U	0.0005	UJ	0.025	U	0.0005	U
Heptachlor	0.00025	U	0.0017	U	0.00025	U	0.024	U	0.00025	UJ	0.013	U	0.00025	U
Heptachlor epoxide	0.00025	U	0.0017	U	0.00025	U	0.024	U	0.00025	UJ	0.013	U	0.00025	U
Gamma-BHC (Lindane)	0.00025	U	0.0017	U	0.00025	U	0.024	U	0.00025	UJ	0.013	U	0.00025	U
Methoxychlor	0.0025	U	0.017	U	0.0025	U	0.24	U	0.0025	UJ	0.13	U	0.0025	U
Toxaphene	0.005	U	0.017	U	0.005	U	2.4	U	0.005	UJ	1.3	U	0.005	U
Alpha-BHC	N	N	0.0017	U	N	N	0.024	U			0.013	U	N	N
Beta-BHC	N	N	0.0017	U	N	N	0.024	U			0.013	U	N	N
Delta-BHC	N	N	0.0017	U	N	N	0.024	U			0.013	U	N	N
Aldrin	N	N	0.0017	U	N	N	0.024	U			0.013	U	N	N
Endosulfan I	N	N	0.0017	U	N	N	0.024	U			0.013	U	N	N
Dieldrin	N	N	0.0033	U	N	N	0.047	U			0.025	U	N	N
4,4'-DDE	N	N	0.0033	U	N	N	0.047	U			0.025	U	N	N
Endosulfan II	N	N	0.0033	U	N	N	0.047	U			0.025	U	N	N
4,4'-DDD	N	N	0.0033	U	N	N	0.047	U			0.025	U	N	N
Endosulfan sulfate	N	N	0.0033	U	N	N	0.047	U			0.025	U	N	N
4,4'-DDT	N	N	0.0033	U	N	N	0.047	U			0.025	U	N	N
Endrin ketone	N	N	0.0033	U	N	N	0.047	U			0.025	U	N	N
Endrin aldehyde	N	N	0.0033	U	N	N	0.047	U			0.025	U	N	N
alpha-Chlordane	N	N	0.0017	U	N	N	0.024	U			0.013	U	N	N
gamma-Chlordane	N	N	0.0017	U	N	N	0.024	U			0.013	U	N	N
Tetrachloro-m-xylene													N	N
Decachlorobiphenyl													N	N
Aroclor 1016	N	N	0.033	U	N	N	0.46	U			0.25	U	N	N
Aroclor 1221	N	N	0.067	U	N	N	0.96	U			0.51	U	N	N
Aroclor 1232	N	N	0.033	U	N	N	0.46	U			0.25	U	N	N
Aroclor 1242	N	N	0.033	U	N	N	0.46	U			0.25	U	N	N
Aroclor 1248	N	N	0.033	U	N	N	0.46	U			1.2	J	N	N
Aroclor 1254	N	N	0.51	X	N	N	36	X			9	J	N	N
Aroclor 1260	N	N	0.17	X	N	N	0.46	U			5.9	J	N	N

RCRA FACILITY INVESTIGATION
TABLE 4-5
RESULTS OF PHYSICAL PARAMETER ANALYSES

Naugatuck River Sediment Samples
May 24, 1994

Sample Location	Sieve Description (Burmister)	Grain Density (3)	Cation Exchange (mg/kg as Na) (4)	TOC (mg/kg)	pH (Standard Units)
NRI-05	Brown, f-m SAND, trace Silt.	2.71	680	2700	6.1
TNR-02	Brown, fine SAND, little (-) Silt.	2.68	1500	4900	5.8
NRI-09	Brown, f-m SAND, trace (-) Silt.	2.72	420	2500	5.5
NRI-11	Brown, f-m SAND, trace (+) Silt.	2.70	1200	5400	5.8
TNR-03	Brown, m-c SAND, some (+) Gravel, trace (-	3.08	570	3300	6.7
NRI-13	Brown, f-m SAND, trace (+) Silt.	2.72	1000	6200	6.7
NRI-17	Brown, f-m SAND, trace (+) Silt.	2.69	1200	3600	6.6
TNR-04	Brown, f-m SAND, trace Silt.	2.71	540	6200	6.3
NRI-18	Brown, fine SAND, trace Silt.	2.70	1300	7500	6.0
NRI-20	Brown, fine SAND, trace (+) Silt.	2.70	3200	13000	6.4
Mode	-	2.70	1200	6200	5.8
Mean	-	2.74	1161	5530	6.2
Median	-	2.70	1100	5150	6.2
Standard Deviation	-	0.12	805	3107	0.4
2 Standard Deviatio	-	0.24	1611	6214	0.8
3 Standard Deviatio	-	0.36	2416	9321	1.3

Branch Brook Sediment Samples
May 23, 1994

Sample Location	Sieve Description (Burmister)	Grain Density (3)	Cation Exchange (mg/kg as Na) (4)	TOC (mg/kg)	pH (Standard Units)
BBI-02	Brown, f-c GRAVEL and m-c SAND, trace (	2.98	390	1300	6.9
BBI-04	Brown, f-c SAND, little (+) Gravel, trace (-)	2.79	2300	6400	9.4
TBB-02	Brown, f-c GRAVEL and f-c SAND, trace (-	2.89	1000	5000	6.8
BBI-10	Brown, f-c GRAVEL and m-c SAND, trace (	2.78	460	2200	6.3
BBI-12	Brown, f-m SAND, some (-) Gravel, trace Si	2.73	880	1900	6.3
TBB-03	Brown, m-c SAND, some (+) Gravel, trace (-	2.79	620	28000	6.7
BBI-17	Brown f-m SAND, little (+) Gravel, trace Sil	2.78	900	2700	6.6
TBB-04	Brown, f-m SAND, trace Gravel, trace (-) Sil	2.71	340	1800	6.0
BBI-24	Brown, f-c SAND, little (+) Gravel, trace (-)	2.74	340	2200	6.6
BBI-28	Brown, f-c GRAVEL and f-c SAND, trace (-	2.87	960	4800	6.8
Mode	-	2.79	340	2200	6.8
Mean	-	2.81	819	5630	6.8
Median	-	2.79	750	2450	6.7
Standard Deviation	-	0.08	584	8038	0.9
2 Standard Deviatio	-	0.17	1168	16077	1.9
3 Standard Deviatio	-	0.25	1751	24115	2.8

Notes:

1. Sediment samples were collected using a Wildlife Supply Company (Wildco) Model 2420-H45 sediment corer.
2. A "-" indicates statistical data was not reduced for this parameter.
3. Grain density is defined as the Specific Gravity of the sample.
4. Cation Exchange capacity reported as Sodium (Na).

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RCRA FACILITY INVESTIGATION

TABLE 5-10
FISH SURVEY OF BRANCH BROOK AND NAUGATUCK RIVER
ROUND 1, JUNE 1994
Envirite Facility
Thomaston, Connecticut

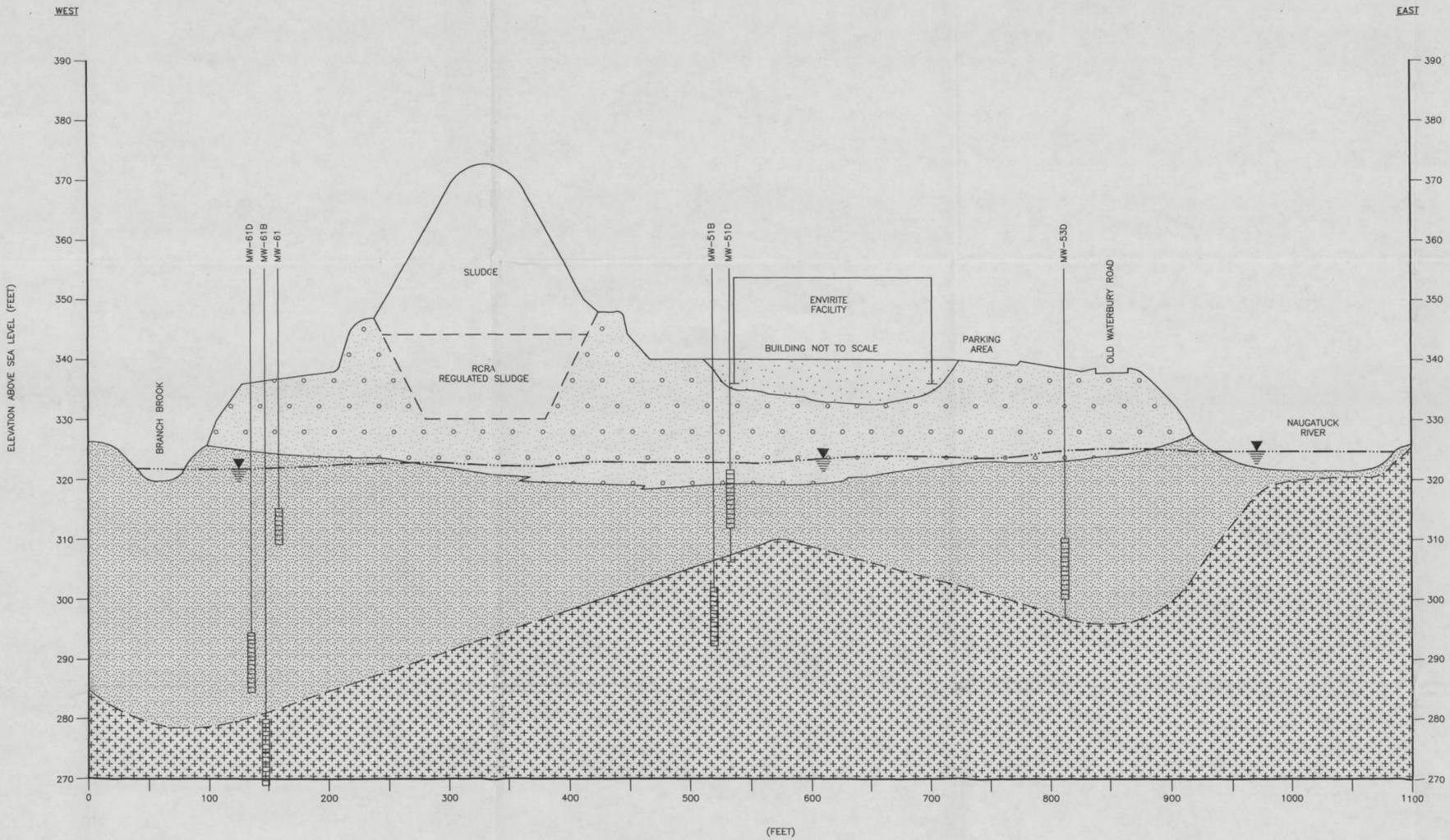
FISH SPECIES	FISH SAMPLING STATIONS						
	BRANCH BROOK				NAUGATUCK RIVER		
	BBA1	BBA2	BBA3	BBR1	NRA-1	NRA-2	NRR-1
Blue Gill *Lepomis macrochirus*	9 (0.14-0.23)	1 (0.17)	9 (0.15-0.25)		2 (0.15-0.24)	4 (0.3-0.5)	SSNN
Longnose Dace *Rhinichthys cataractae*	5 (0.18 - 0.20)	1 (0.19)	3 (0.20-0.21)	4 (0.21-0.29)			
Black Nose Dace *Rhinichthys atratulus*	14 (0.18-0.28)	7 (0.11-0.18)	6 (0.17-0.21)	26 (0.13-0.28)			
White Sucker *Catastomus commersoni*	12 (0.22-1.15)		9 (0.27-1.15)	2 (0.26-1.08)	4 (0.42-1.31)	8 (0.45-1.38)	
Fall Fish *Semotilus corporalis*	22 (0.14-0.62)		2 (0.34-0.37)	4 (0.20-0.42)	2 (0.33-0.31)	2 (0.75)	SSNN
Tessellated Darter *Etheostoma olmstedi*	1 (0.16)	1 (0.23)	1 (0.23)	2 (0.16-0.17)			
Golden Shiner *Notemigonus crysoleucas*	1 (0.23)	1 (0.38)					
Rock Bass *Ambloplites rupestris*	1 (0.55)				4 (0.53-0.58)	3 (0.3-0.64)	3 (0.63-0.64)
Smallmouth Bass *Micropterus dolomieui*					1 (0.40)	1 (0.78)	
American Eel *Anguilla rostata*						4 (1.2-3.0)	1 (1.5)
Brown Bullhead *Lepomis auritus*					1 (0.71)		
Redbreast Sunfish *Ictalurus nebolosos*					1 (0.55)		

1. 9(0.20-0.21)= Number of individuals caught; followed in parenthesis by the range of total lengths in feet.
2. BBA1 indicates Branch Brook, adjacent Station, with last digit indicating the Station number, in this case adjacent Station 1 (see Figure 5-1).
3. BBR1 indicates Branch Brook Upstream Reference Station (see Figure 5-1).
4. NRA1 indicates Naugatuch River and, adjacent Station, with last digit indicating the Station number, in this case adjacent Station 1.
5. NRR1 indicates Naugatuch River upstream Reference Station (see Figure 5-1).
6. Fish were captured on June 22 and 23, 1994, using a backpack electroshock unit, with one or two persons manning fine mesh dip nets.
7. SSNN - indicates that several individuals were seen within electric field but none were stunned sufficiently to be netted.

RCRA FACILI INVESTIGATION
TABLE 5-11
FISH SURVEY OF BRANCH BROOK AND NAUGATUCK RIVER
ROUND 2, NOVEMBER 1994
Envirite Facility
Thomaston, Connecticut

FISH SPECIES	FISH SAMPLING STATIONS							
	BRANCH BROOK				NAUGATUCK RIVER			
	BBA1	BBA2	BBA3	BBR1	NRA-1	NRA-2	NRA-3	NRR-1
Blue Gill *Lepomis macrochirus*		1 (0.14)	2 (0.21-0.34)		4 (0.10-0.18)	16 (0.10-0.19)	3 (0.13-0.34)	6 (0.13-0.28)
Longnose Dace *Rhinichthys cataractae*	2 (0.30-0.32)	1 (0.38)		1 (0.24)			1 (0.23)	
Black Nose Dace *Rhinichthys atratulus*	28 (0.14-0.30)	1 (0.21)	12 (0.11-0.26)	27 (0.12-0.26)		7 (0.18-0.24)		6 (0.16-0.22)
White Sucker *Catastomus commersoni*	1 (2.2)	1 (0.45)	3 (0.40-0.44)			3 (0.28-0.31)	1 (0.25)	3 (0.28-0.38)
Fall Fish *Semotilus corporalis*		2 (0.39-0.46)	21 (0.18-0.38)	6 (0.15-0.40)	15 (0.16-0.28)	24 (0.15-0.26)	2 (0.25-0.26)	30 (0.17-0.28)
Tessellated Darter *Etheostoma olmstedi*	4 (0.21-0.28)	1 (0.16)		1 (0.12)	10 (0.17-0.26)	11 (0.18-0.30)	11 (0.18-0.26)	10 (0.16-0.27)
Golden Shiner *Notemigonus crysoleucas*			1 (0.48)					
Rock Bass *Ambloplites rupestris*			1 (0.40)		1 (0.12)		1 (0.13)	3 (0.11-0.34)
Smallmouth Bass *Micropterus dolomieui*					9 (0.17-0.30)	6 (0.12-0.26)	5 (0.20-0.28)	7 (0.17-0.51)
Largemouth Bass *Micropterus Salmoides*		1 (0.20)	1 (0.20)					1 (0.18)
Pumpkinseed *Lepomis gibbosos*			4 (0.33-0.48)					
Brown Trout *Salmo Trutta*				1 (1.11)				
Red Fin Pickeral *Esox americanus*					1 (0.27)			
Cut lips Minnon *Exoglossum Maxillingua*						1 (0.19)		

1. 9(0.20-0.21)= Number of individuals caught; followed in parenthesis by the range of total lengths in feet.
2. BBA1 indicates Branch Brook, adjacent Station, with last digit indicating the Station number, in this case adjacent Station 1 (see Figure 5-1).
3. BBR1 indicates Branch Brook Upstream Reference Station (see Figure 5-1).
4. NRA1 indicates Naugatuch River and, adjacent Station, with last digit indicating the Station number, in this case adjacent Station 1.
5. NRR1 indicates Naugatuch River upstream Reference Station (see Figure 5-1).
6. Fish were captured on November 2 and 3, 1994, using a backpack electroshock unit, with one or two persons manning Fire mesh dip nets.



SECTION D–D'

SCALE: 1"=50' HORIZ.
1"=10' VERT.

LEGEND:

MW-51D MONITORING WELL

ELEVATION OF WATER TABLE (APPROXIMATE)

FILL

DARK BROWN TO REDDISH ORANGE BROWN BOULDER FILL WITH FINE TO COARSE SAND AND GRAVEL

ALLUVIUM

BROWN, FINE SAND

BROWN, FINE TO MEDIUM SAND

BROWN, FINE TO COARSE SAND CONTAINING FINE TO COARSE GRAVEL

BEDROCK

LIGHT GRAY – DARK GRAY, MEDIUM – DARK GRAYISH GREEN, FINE TO COARSE GRAINED AMPHIBOLITIC AND GRANITIC GNEISS

NOTES:

1) GEOLOGY BASED ON GEOLOGIC LOGS, CONNECTICUT GEOL. & HIST. SURVEY OPEN FILE AND ON FIELD OBSERVATIONS.

2) INFERRED GEOLOGIC CONTACTS SHOWN AS DASHES.

3) BASE MAP WAS DEVELOPED FROM PLANS PROVIDED BY ENVIRITE ENTITLED "GEOLOGIC CROSS-SECTION C-C'" DATED JUNE, 1993, ORIGINAL SCALE 1"=50' HORIZ., 1"=10' VERT.

4) THE LOCATION OF THE BORINGS WERE APPROXIMATELY DETERMINED BY SURVEY. THIS DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

5) CONTOURS AND GEOLOGIC STRATA ARE EXTRAPOLATED FROM WELL POINT DATA USING PROFESSIONAL JUDGEMENT.

REV#	DESCRIPTION	BY	DATE

–VERTICAL SCALE– 0' 5' 10' 20' 30' 40'
–HORIZONTAL SCALE– 0' 25' 50' 100' 150' 200'

GZA GeoEnvironmental, Inc.

DESIGNED BY: LER
CHECKED BY: JTG
REVIEWED BY: TFS
DRAWN BY: RJD
SCALE: AS SHOWN
DATE: MARCH 15, 1995

ENVIRITE RCRA
FACILITY INVESTIGATION
THOMASTON, CONNECTICUT

GEOLOGIC CROSS SECTIONS:
SECTION D–D'

PROJECT NO.
41302.4

FIGURE NO.
2–4

CADD FILE No. 41302.A\2-4

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NOTES:

1) WATER LEVEL READINGS WERE MADE IN THE MONITORING WELLS FROM APRIL 21 TO APRIL 28, 1994. THIS DATA HAS BEEN REVIEWED AND INTERPRETATIONS MADE IN THE TEXT OF THIS REPORT. FLUCTUATIONS IN GROUNDWATER LEVEL OCCUR DUE TO VARIATIONS IN RAINFALL AND OTHER FACTORS.

2) CONTOURS ARE EXTRAPOLATED FROM WELL POINT DATA USING PROFESSIONAL JUDGEMENT.

3) GROUNDWATER ELEVATIONS ARE BASED ON MEAN SEA LEVEL DATUM.

4) GROUND SURFACE ELEVATIONS ARE BASED ON SURVEY BY DICARA LAND SURVEYING SERVICES OF WINSTEAD, CT. GROUND SURFACE ELEVATIONS ARE BASED ON MEAN SEA LEVEL DATUM.

LEGEND:

MW-41D 323.98 — MONITORING WELL LOCATION AND IDENTIFICATION INDICATES GROUNDWATER ELEVATION (FEET)

322.5 — GROUNDWATER CONTOUR

REV#	DESCRIPTION	BY	DATE

1"=100'
0' 50' 100' 200' 300' 400'

GZA GeoEnvironmental, Inc.

DESIGNED BY: LER
CHECKED BY: JTG
REVIEWED BY: TFS
DRAWN BY: RJD
SCALE: 1"=100'
DATE: REV. 6/2/97

ENVIRITE RCRA FACILITY INVESTIGATION
THOMASTON, CONNECTICUT

APRIL, 1994
DEEP OVERBURDEN PIEZOMETRIC HEAD CONTOURS

PROJECT NO. 41302.4

FIGURE NO. 3-5

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CADD FILE No.:41302.4\3-5 XREF FILE No.: BASE, BOR-100

APPENDIX 7-1

ENVIRON

October 9, 1996

Raphael J. Cody, Project Manager
Corrective Action Section, Office of Site Remediation and Restoration
United States Environmental Protection Agency, Region I
John F. Kennedy Federal Building
Boston, Massachusetts 02203-0001

Dear Mr. Cody:

ENVIRON Corporation (ENVIRON) has recently completed a limited soil gas sampling investigation on behalf of Envirite Corporation (Envirite) in accordance with the Workplan for Soil Gas Sampling at the Envirite Facility in Thomaston, Connecticut, dated July 23, 1996, which was approved by the United States Environmental Protection Agency (USEPA) on July 30, 1996. The soil gas sampling activities were conducted as Phase II activities as set forth in USEPA's final comments regarding Envirite's RCRA Facility Investigation (RFI) Phase I Interim Report and Phase II Proposal (dated April 25, 1996). The purpose of this limited investigation was to quantify the potential presence of vinyl chloride in the soil gas at the Envirite facility, if any. The results from this investigation will be used to determine whether further investigation for vinyl chloride in soil gas is warranted.

The soil gas sampling was conducted on August 21, 1996, by Target Environmental Services, Inc. (Target), under the direction of an on-site ENVIRON geologist. The soil gas sampling focused on locations where the highest concentrations of tetrachloroethylene (PCE) had been detected during a previous soil gas survey conducted by GZA GeoEnvironmental, Inc (GZA) in 1994. Since vinyl chloride can be formed as an intermediate product in the biodegradation of PCE, under certain environmental conditions, the highest concentrations of vinyl chloride in soil gas would be expected in these locations. These locations are as summarized below:

	Maximum PCE Concentration		
Grid Location	(mg/m^3)	(ppmv)	Sampling Depth (in)
H7	50	7	42
J8	25	4	42
I7	24	3.5	10, 12, 42
G5	22	3	16, 42
E8	20	3	42
D5	18	2.5	16, 42

These sampling locations, which are shown in Figure 1, also correspond with the locations where the highest concentrations of total volatile organic compounds (VOCs) were reported.

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The results of the soil gas sampling are summarized in Table 1. The final data tables prepared by Target are included in Attachment A. The only VOCs detected were PCE and trichloroethylene (TCE); no vinyl chloride was detected in any of the soil gas samples collected at a method detection limit of 0.4 ppm. Concentrations of PCE and TCE generally were detected at lower concentrations than during the previous soil gas survey.

Based on these results, we believe that no further investigation pertaining to vinyl chloride in soil gas is necessary. These results will be incorporated into the RFI Supplement and the final Public Health and Environmental Risk Evaluation (PHERE).

Sincerely,

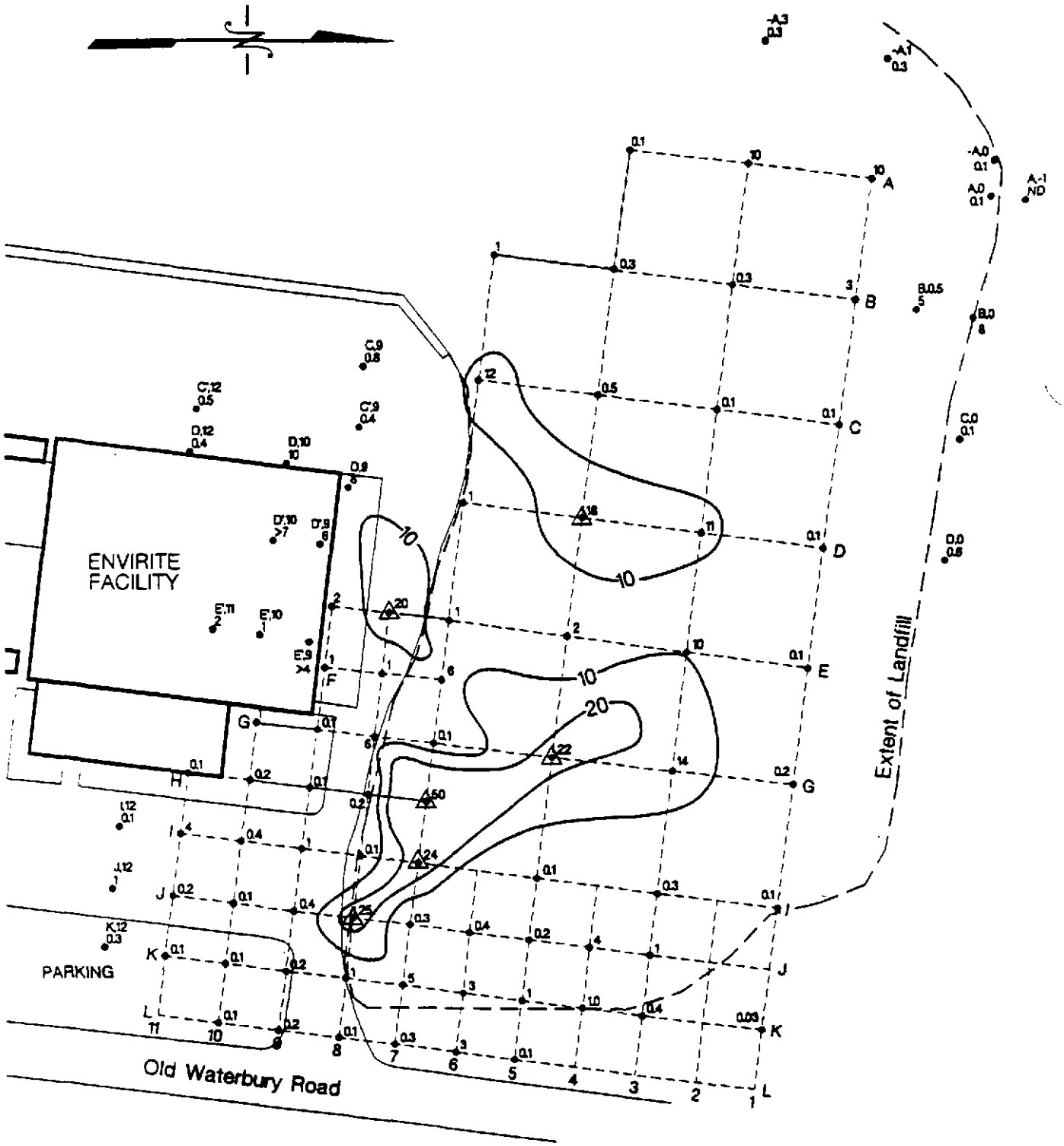
Ranjit J. Machado, P.E.
Manager

cc: W. McTigue
J. Krupa

TABLE 1
Comparison of Soil Gas Survey Sampling Results[a]
Envirite Facility, Thomaston, Connecticut

Sample Location - Depth	PCE - 1994 (mg/m^3)[b,d]	PCE - 1996 (mg/m^3)[c,d]	TCE - 1994 (mg/m^3)[b,d]	TCE - 1996 (mg/m^3)[c,d]
D5 - 16 in	10	2.4	ND	ND
D5 - 42 in	18	4.2	0.8	ND
E8 - 42 in	20	1.4	7.2	ND
G5 - 16 in	0.15 / 0.076[e]	ND	ND / ND[e]	ND
G5 - 42 in	22	ND	ND	ND
H7 - 42 in	50	5.0	ND	1.1
I7 - 10 in	0.4	2.4	ND	ND
I7 - 12 in	1.2	5.6	ND	ND
I7 - 42 in	24 / 20[e]	9.5 / 9.8[e]	1.4 / ND[e]	ND / ND[e]
J8 - 42 in	>20 / 25[e]	41	ND / ND[e]	ND

Notes:
a 1994 survey conducted between April 20 and May 13; 1996 survey conducted August 21.
b ND = not detected at method detection limit (MDL);
MDL for 1996 survey = 0.231 mg/m^3 for PCE and 0.135 mg/m^3 for TCE.
c MDL for 1994 survey not specified in 1995 RFI report.
d 1 mg/m^3 PCE = 0.147 ppm; 1 mg/m^3 TCE = 0.186 ppm.
e Duplicate samples collected from this location; results presented for both samples.



ENVIRON
A Division of APBI
Environmental Sciences Group, Inc.

GZA SOIL GAS SURVEY RESULTS
PERCHLOROETHYLENE - ENVIRITE CORPORATION
THOMASTON, CONNECTICUT

Figure 1

ATTACHMENT A

Data Summary Report

Samples Collected:	8/21/96	Collected by:	Charlie Kirk	Client:	Environ Corp.
Samples Received:	8/22/96	Received by:	Mike Marrale	Client Address:	4350 North Fairfax Dr
Samples Analyzed:	8/22/96	Analyzed by:	Mike Marrale		Arlington,VA 22203
Samples Reported:	8/26/96	Reported by:	Mike Marrale		
Project Identification:	WASTE FACILITY	Report Revision:	0.0	Client Contact:	Alan Kao
Target Job Code:	ENW001	Method Deviations:	None	Client Phone:	(703)516-2388
Purchase Order:	N/A	Sampling Method:	4 Foot Slidehammer	Client Fax:	(703)516-2344

USEPA Method 8260 Air Sample Analysis Results in ug/L

Compound	MW[1] (g/mole)	MDL[2] (ug/L)	PQL[3] (ug/L)	EQB1 (ug/L)	D5-16 (ug/L)	D5-42 (ug/L)	G5-16 (ug/L)	G5-42 (ug/L)	H7-42 (ug/L)	I7-10 (ug/L)	I7-12 (ug/L)
Dichlorodifluoromethane	120.91	0.688	5.00	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	50.49	0.559	5.00	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	62.50	1.011	5.00	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	94.94	0.444	5.00	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	64.51	0.341	5.00	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	138.38	0.334	5.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	96.94	0.298	5.00	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	84.93	0.448	5.00	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	96.94	0.419	5.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	98.96	0.488	5.00	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	96.94	0.455	5.00	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	119.38	0.472	5.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	133.40	0.465	5.00	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	153.82	0.421	5.00	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	78.11	0.496	5.00	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	98.96	0.639	5.00	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	131.39	0.135	5.00	ND	ND	ND	ND	ND	1.05	ND	ND
1,2-Dichloropropane	112.99	0.121	5.00	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	163.83	0.161	5.00	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	173.83	0.525	5.00	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	110.97	0.306	5.00	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	92.14	0.156	5.00	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	110.97	0.412	5.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	133.40	0.551	5.00	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene or PCE	165.83	0.231	5.00	ND	2.36	4.20	ND	ND	4.99	2.40	5.61
Dibromochloromethane	208.28	0.264	5.00	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	187.86	0.562	5.00	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	112.56	0.171	5.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	167.85	0.117	5.00	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	106.17	0.308	5.00	ND	ND	ND	ND	ND	ND	ND	ND
m&p-Xylene	106.17	0.473	10.0	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	106.17	0.227	5.00	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	104.15	0.181	5.00	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	120.19	0.339	5.00	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	252.73	0.338	5.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	167.85	0.649	5.00	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	147.43	0.451	5.00	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	157.01	0.127	5.00	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	134.22	0.296	5.00	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	134.22	0.301	5.00	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	147.00	0.084	5.00	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	147.00	0.047	5.00	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	147.00	0.164	5.00	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	134.22	0.276	5.00	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	181.45	0.406	5.00	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	260.76	0.461	5.00	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	128.17	0.715	5.00	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	181.45	0.573	5.00	ND	ND	ND	ND	ND	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)			1	S	S	S	S	S	S	S	S

S Satisfactory, U Unsatisfactory

U see sample narrative

Dilution numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[1] MW Molecular Weight

[2] MDL Method detection limit according to EPA 40CFR Part 136 Appendix B

[3] PQL Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable

SAMPLE NARRATIVE

Quality Control Analyst:

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Samples Collected:	8/21/96	Collected by:	Charlie Kirk	Client:	Environ Corp.
Samples Received:	8/22/96	Received by:	Mike Marrale	Client Address:	4350 North Fairfax Dr.
Samples Analyzed:	8/22/96	Analyzed by:	Mike Marrale		Arlington,VA 22203
Samples Reported:	8/26/96	Reported by:	Mike Marrale		
Project Identification:	WASTE FACILITY	Report Revision:	0.0	Client Contact:	Alan Kao
Target Job Code:	ENW001	Method Deviations:	None	Client Phone:	(703)516-2388
Purchase Order:	N/A	Sampling Method:	4 Foot Slidehammer	Client Fax:	(703)516-2344

USEPA Method 8260 Air Sample Analysis Results in ug/L

Compound	MW[1] (g/mole)	MDL[2] (ug/L)	PQL[3] (ug/L)	I7-42 (ug/L)	I7-42D (ug/L)	J8-42 (ug/L)	E8-38 (ug/L)	EQB2 (ug/L)
Dichlorodifluoromethane	120.91	0.688	5.00	ND	ND	ND	ND	ND
Chloromethane	50.49	0.559	5.00	ND	ND	ND	ND	ND
Vinyl Chloride	62.50	1.011	5.00	ND	ND	ND	ND	ND
Bromomethane	94.94	0.444	5.00	ND	ND	ND	ND	ND
Chloroethane	64.51	0.341	5.00	ND	ND	ND	ND	ND
Trichlorofluoromethane	138.38	0.334	5.00	ND	ND	ND	ND	ND
1,1-Dichloroethene	96.94	0.298	5.00	ND	ND	ND	ND	ND
Methylene Chloride	84.93	0.448	5.00	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	96.94	0.419	5.00	ND	ND	ND	ND	ND
1,1-Dichloroethane	98.96	0.488	5.00	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	96.94	0.455	5.00	ND	ND	ND	ND	ND
Chloroform	119.38	0.472	5.00	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	133.40	0.465	5.00	ND	ND	ND	ND	ND
Carbon Tetrachloride	153.82	0.421	5.00	ND	ND	ND	ND	ND
Benzene	78.11	0.496	5.00	ND	ND	ND	ND	ND
1,2-Dichloroethane	98.96	0.639	5.00	ND	ND	ND	ND	ND
Trichloroethylene	131.39	0.135	5.00	ND	ND	ND	ND	ND
1,2-Dichloropropane	112.99	0.121	5.00	ND	ND	ND	ND	ND
Bromodichloromethane	163.83	0.161	5.00	ND	ND	ND	ND	ND
Dibromomethane	173.83	0.525	5.00	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	110.97	0.306	5.00	ND	ND	ND	ND	ND
Toluene	92.14	0.156	5.00	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	110.97	0.412	5.00	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	133.40	0.551	5.00	ND	ND	ND	ND	ND
Tetrachloroethylene or PCE	165.83	0.231	5.00	9.47	9.76	40.5	1.39	ND
Dibromochloromethane	208.28	0.264	5.00	ND	ND	ND	ND	ND
1,2-Dibromoethane	187.86	0.562	5.00	ND	ND	ND	ND	ND
Chlorobenzene	112.56	0.171	5.00	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	167.85	0.117	5.00	ND	ND	ND	ND	ND
Ethylbenzene	106.17	0.308	5.00	ND	ND	ND	ND	ND
m&p-Xylene	106.17	0.473	10.0	ND	ND	ND	ND	ND
o-Xylene	106.17	0.227	5.00	ND	ND	ND	ND	ND
Styrene	104.15	0.181	5.00	ND	ND	ND	ND	ND
Isopropylbenzene	120.19	0.339	5.00	ND	ND	ND	ND	ND
Bromoform	252.73	0.338	5.00	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	167.85	0.649	5.00	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	147.43	0.451	5.00	ND	ND	ND	ND	ND
Bromobenzene	157.01	0.127	5.00	ND	ND	ND	ND	ND
tert-Butylbenzene	134.22	0.296	5.00	ND	ND	ND	ND	ND
sec-Butylbenzene	134.22	0.301	5.00	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	147.00	0.084	5.00	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	147.00	0.047	5.00	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	147.00	0.164	5.00	ND	ND	ND	ND	ND
n-Butylbenzene	134.22	0.276	5.00	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	181.45	0.406	5.00	ND	ND	ND	ND	ND
Hexachlorobutadiene	260.76	0.461	5.00	ND	ND	ND	ND	ND
Naphthalene	128.17	0.715	5.00	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	181.45	0.573	5.00	ND	ND	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)			1	S	S	S	S	S

S: Satisfactory, U: Unsatisfactory

U: see sample narrative

Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[1] MW: Molecular Weight

[2] MDL: Method detection limit according to EPA 40CFR Part 136 Appendix B

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable

SAMPLE NARRATIVE:

Quality Control Analyst:

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JOB CODE: ENW001

DATE: 8-21-96

SAMPLE NUMBER	AREA: GENERAL: WOODS	FIELD	LANDSCAPED/PLANTER	PAVED OR GRAVEL LOT	ROAD	INSIDE BLDG.	EXCAVATION	OTHER	AREA: SPECIAL: UST	AST	PUMPS/LINES	GROUND STAINS	DRUMS	JUNK/REFUSE	CONIFERS	SURFACE MATERIAL: VEGETATION	SOIL	GRAVEL	ASPHALT	CONCRETE	SUBSURFACE COMPOSITION: ORGANICS	CLAY	SILT	SAND	GRAVEL	FILL	MOISTURE: DRY	DAMP	WET	PROBE INFO.: DECON PROBE	4' S.S. PROBE	POST RUN TUBING	DEPTH	TYPE: ROTARY HAMMER	SLIDE HAMMER/DRIVE ROD	HYDRAULIC PROBE	SOIL GAS SAMPLE	WATER SAMPLE	SOIL SAMPLE	OTHER	ADDITIONAL OBSERVATIONS (WRITTEN DESCRIPTION OF SAMPLE LOCATIONS)
8-42-82196		✓														✓	✓						✓	✓				✓			✓		42"			✓		✓				
3-38-82196				✓															✓				✓	✓				✓			✓		38"	✓	✓		✓					3 ATTEMPTS REFUSAL @ 38"
2B2-82196																																									FILTERED AIR BLOWN
																																									END OF JOB

ADDITIONAL NOTES:

JOB CODE: ENW001

DATE: 8-21-96

SAMPLE NUMBER	AREA: GENERAL: WOODS	FIELD	LANDSCAPED/PLANTER	PAVED OR GRAVEL LOT	ROAD	INSIDE BLDG.	EXCAVATION	OTHER	SPECIAL: UST	AST	PUMPS/LINES	GROUND STAINS	DRUMS	JUNK/REFUSE	CONIFERS	SURFACE MATERIAL: VEGETATION	SOIL	GRAVEL	ASPHALT	CONCRETE	SUBSURFACE COMPOSITION: ORGANICS	CLAY	SILT	SAND	GRAVEL	FILL	MOISTURE: DRY	DAMP	WET	PROBE INFO.: DECON PROBE	4" S.S. PROBE	POST RUN TUBING	DEPTH	TYPE: ROTARY HAMMER	SLIDE HAMMER/DRIVE ROD	HYDRAULIC PROBE	SOIL GAS SAMPLE	WATER SAMPLE	SOIL SAMPLE	OTHER	ADDITIONAL OBSERVATIONS (WRITTEN DESCRIPTION OF SAMPLE LOCATIONS)
																																									VERY TIGHT
7-42-82196		✓														✓	✓						✓	✓						✓			42"		✓		✓				
7-10-82196		✓														✓	✓						✓	✓						✓			10"		✓		✓				
7-12-82196		✓														✓	✓						✓	✓						✓			12"		✓		✓				
7-42-82196		✓														✓	✓						✓	✓						✓			42"		✓		✓				
7-42D-82196																																									DUPLICATE

ADDITIONAL NOTES:

JOB CODE: ENW 001

DATE: 8-21-96

SAMPLE NUMBER	AREA: GENERAL: WOODS	FIELD	LANDSCAPED/PLANTER	PAVED OR GRAVEL LOT	ROAD	INSIDE BLDG.	EXCAVATION	OTHER	AREA: SPECIAL: UST	AST	PUMPS/LINES	GROUND STAINS	DRUMS	JUNK/REFUSE	CONIFERS	SURFACE: MATERIAL: VEGETATION	SOIL	GRAVEL	ASPHALT	CONCRETE	SUBSURFACE: COMPOSITION: ORGANICS	CLAY	SILT	SAND	GRAVEL	FILL	MOISTURE: DRY	DAMP	WET	PROBE INFO.: DECON PROBE	4' S.S. PROBE	POST RUN TUBING	DEPTH	TYPE: ROTARY HAMMER	SLIDE HAMMER/DRIVE ROD	HYDRAULIC PROBE	SOIL GAS SAMPLE	WATER SAMPLE	SOIL SAMPLE	OTHER	ADDITIONAL OBSERVATIONS (WRITTEN DESCRIPTION OF SAMPLE LOCATIONS)
II-EQ B1 82196																																								FILTERED AMBIENT AIR BLANK - COLLECTED AT FIRST LOCATION
-16-82196		X														X	X						V	A			V			X			16"		X		V			
-42-82196		X														V	V						V	V				V		V			42"		V		V			MOISTURE ON PROBE. DECON PROBE
16-82196		X														V	V						V	V				V		V			16"		X		V			
42-82196		X														X	X						A	X				X		X			42"		X		V			DECON PROBE

ADDITIONAL NOTES:

TAKGET/TEG

(410) 992-6622

CHAIN-OF-CUSTODY RECORD

P.O. #:

CLIENT: ENVIRON CORP

ADDRESS: 4350 NORTH FAIRFAX DR. ARLINGTON VA 22203

PHONE: 703-516-2338 FAX: 703-516-2344

CLIENT PROJECT #:

PROJECT MANAGER: ALAN KAO

DATE: 8-21-96 PAGE 1 OF 1

TEG PROJECT #: ENV 001

LOCATION: ENI SITE

COLLECTOR: KILK

DATE OF COLLECTION: 8/21/96

Sample Number	Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PNA 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	pH	ASBESTOS	FIELD NOTES	Total Number Of Containers	Laboratory Note Number
EQB1-82196	—		SOILGAS	20mL VIAL			X													EQUIPMENT BLANK	1	
D5-16-82196	16"						X														1	
D5-42-82196	42"						X														1	
S5-16-82196	16"						X														1	
S5-42-82196	42"						X														1	
H7-42-82196	42"						X														1	
I7-10-82196	10"						X														1	
I7-12-82196	12"						X														1	
I7-42-82196	42"						X														1	
I7-42D-82196	42"						X														1	
J8-42-82196	42"						X														1	
EB-38-82196	38"						X														1	
EQB2-82196	—						X													EQUIPMENT BLANK	1	

RELINQUISHED BY (Signature) DATE/TIME RECEIVED BY (Signature) DATE/TIME

RELINQUISHED BY (Signature) DATE/TIME RECEIVED BY (Signature) DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS

[ ] TEG DISPOSAL @ $2.00 each [ ] Return [ ] Pickup

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SEALS Y/N/NA

SEALS INTACT? Y/N/NA

RECEIVED GOOD COND./COLD

NOTES

LABORATORY NOTES:

ENVIRITE CORPORATION
TECHNOLOGY FOR THE ENVIRONMENT

July 29, 1996

Mr. Raphael J. Cody, Project Manager
Corrective Action Section - HBT
Office of Site Remediation and Restoration
United States Environmental Protection Agency
J. F. Kennedy Federal Building
Boston, MA 02203-2211

By FedEx

Re: RCRA Docket I-90-1032: Envirite Corporation; Soil Gas Survey Work Plan

Dear Mr. Cody,

Pursuant to your final comments on Envirite's Phase I Interim Report dated March, 1995 attached is a brief work plan describing the manner by which Envirite intends to quantify and qualify the potential presence of vinyl chloride. This work plan replaces the draft work plan that Envirite submitted to you on June 20, 1996, as it amends the draft plan in accordance with our telephone conversations during the past several weeks. Envirite requests that you review and approve the enclosed plan.

Please be advised that Envirite will notify the Agency at least one week in advance of performing any field sampling work described in the plan.

Should you have any questions or comments, please do not hesitate to contact either John Krupa or me.

Thank you for your attention in this matter.

Very truly yours,

William R. McTigue Jr.

William R. McTigue, Jr.
Director, Environmental Affairs

NO ENCLOSURES

cc: C. Brammer, D. Duva, T. Griffith, J. Krupa, R. Machado, F. Marrazza, T. McCrum,

All by 1st CLASS MAIL. POSTMARKED 7/30/96

620 WEST GERMANTOWN PIKE SUITE 250 PLYMOUTH MEETING, PA 19462 PHONE (610) 828-8655 FAX (610) 828-8406

Recycled Paper

WORK PLAN
FOR SOIL GAS SAMPLING AT THE
ENVIRITE FACILITY IN
THOMASTON, CONNECTICUT

Prepared for

Envirite Corporation
Plymouth Meeting, PA

Prepared by

ENVIRON Corporation
Arlington, VA

July 23, 1996

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I. PROJECT SCOPE

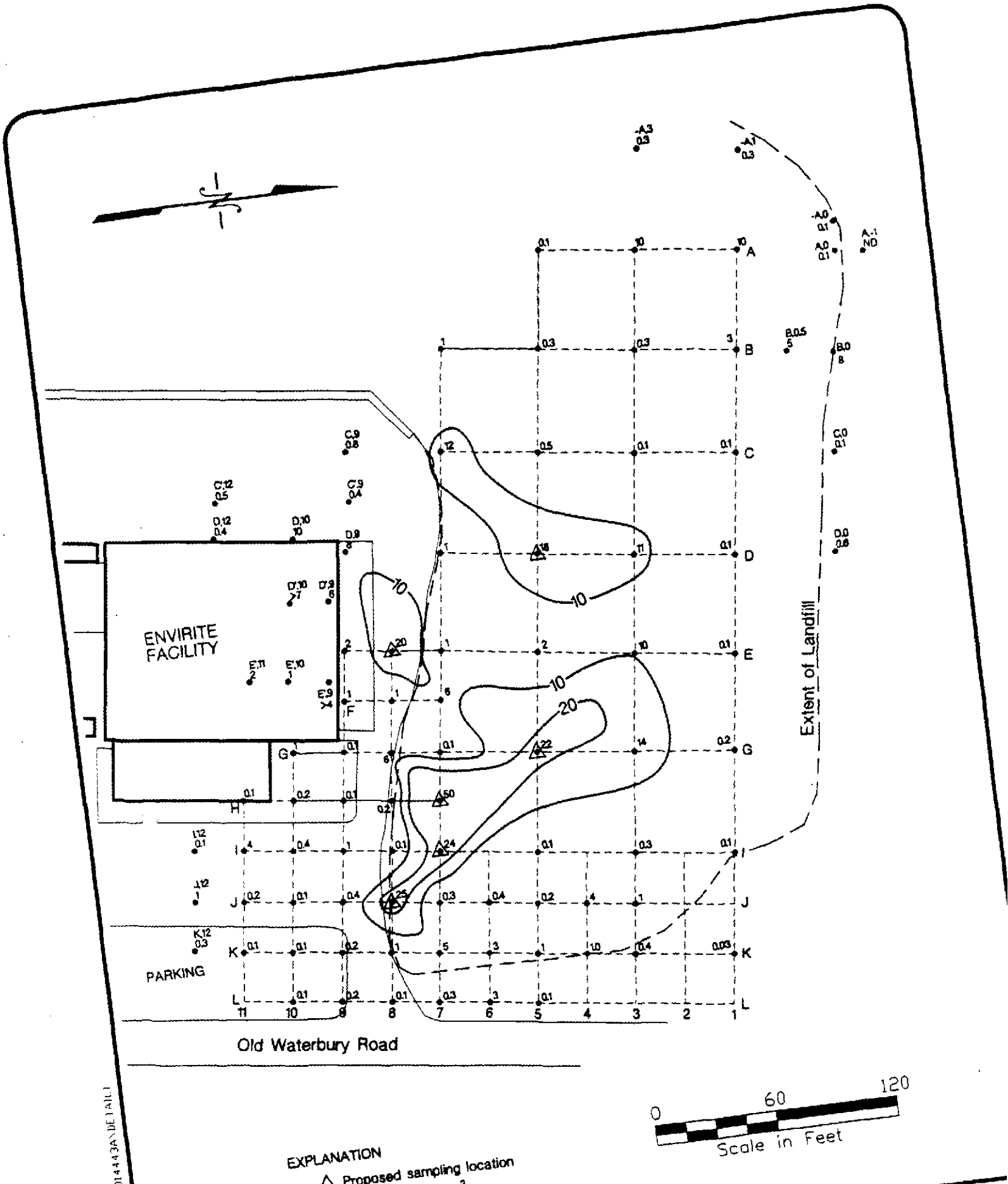
A. Background

Envirite Corporation (Envirite) operated a hazardous waste treatment and nonhazardous solid waste disposal facility ("site") in Thomaston, Connecticut from 1975 until 1990. In November 1990, Envirite and the United States Environmental Protection Agency (USEPA) entered into a Consent Agreement issued under Section 3008(h) of the Resource Conservation and Recovery Act (RCRA) requiring Envirite to investigate the nature, rate, and extent of migration of potential releases of hazardous constituents from the solid waste management units at the facility.

Pursuant to the Consent Agreement, a RCRA Facility Investigation (RFI) Phase I report was prepared for Envirite by GZA GeoEnvironmental, Inc. (GZA) and submitted to USEPA in March 1995. This Phase I RFI report includes the results of soil and ground water samples collected at the site and analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), and metals. A soil gas survey was also conducted by GZA, which involved the collection of soil gas samples from 92 locations on a sampling grid shown in Figure 1. This included survey points in the vicinity of an oily sludge, which was discovered in the northeast corner of the site in 1975 prior to Envirite's operations at the site ("Pre-Envirite Waste Material").

VOCs detected in the soil or ground water samples include tetrachloroethene (PCE), trichloroethene (TCE), 1,1-dichloroethene (1,1-DCE), *trans*-1,2-dichloroethene (t-1,2-DCE), 1,1,1-trichloroethane (1,1,1-TCA), 1,2-dichloroethane (1,2-DCA), and vinyl chloride. The primary VOC detected in soil gas was PCE. As shown in Figure 1, there are three primary areas at the site in which PCE was detected in soil gas. Other VOCs included in the soil gas survey include TCE, 1,1-DCE, t-1,2-DCE, 1,1,1-TCA, and 1,2-DCA. Vinyl chloride could not be detected in the soil gas survey performed by GZA.

Because vinyl chloride is a natural degradation product of PCE, USEPA has requested the collection of a limited number of soil gas samples to quantify concentrations of vinyl chloride in soil gas at the site. Envirite has retained ENVIRON Corporation (ENVIRON) to prepare a work plan for this soil gas survey. The results of this soil gas survey will be incorporated into the RFI Supplement and the final Public Health and Environmental Risk Evaluation (PHERE).



ENVIRON

GZA SOIL GAS SURVEY RESULTS
PERCHLOROETHYLENE - ENVIRITE CORPORATION
THOMASTON, CONNECTICUT

Figur
1

B. Soil Gas Survey Design

The soil gas survey will be conducted in a phased manner. The first phase, described below, is designed to evaluate whether vinyl chloride is present in significant[1] concentrations at the site. As shown in Figure 1, PCE was detected in relatively low concentrations in soil gas. Although PCE was detected in soil samples, no vinyl chloride has been detected in soil samples. Since vinyl chloride can be formed as an intermediate product in the biodegradation of PCE, under certain environmental conditions, this initial phase will focus on locations where the highest concentrations of vinyl chloride may be expected.

Generally, the highest concentrations of vinyl chloride in soil gas would be expected in locations where the highest concentrations of PCE have been detected. Thus, soil gas samples will be collected for vinyl chloride and PCE analysis at the same locations and sampling depths where PCE was detected in soil gas in relatively high concentrations by GZA. Based on a review of the available data, six locations where PCE was detected in soil gas at the highest concentrations will be sampled as follows:

	Maximum PCE Concentration		
Grid Location	(mg/m^3)	(ppmv)	Sampling Depth (in)
H7	50	7	42
J8	25	4	42
I7	24	3.5	10, 12, 42
G5	22	3	16, 42
E8	20	3	42
D5	18	2.5	16, 42

These sampling locations, which are shown in Figure 1, also correspond with the locations where the highest concentrations of total VOCs were reported. Data collected from this effort will be used to extrapolate to other points on the sampling grid, as appropriate. Depending on the sampling results, if significant concentrations of vinyl chloride are detected (i.e., substantially above one ppm), a second round of sampling that is more comprehensive in scope may be proposed.[2]

---

[1]The term "significant" is used to indicate the need for further sampling, and is not intended to indicate the need for remedial action.

[2]The significance of the results of the first phase of sampling in terms of decisions on further sampling will be discussed following a review of the results of the initial sampling.

C. Data Table Report

The analytical results (including QA/QC information) will be summarized in a short report. Data tables will identify sample number and compound concentration. A copy of the field map will be included to relate sample number to location. Sample collection and standard QA/QC procedures will be documented in the field procedures section of the report.

D. Schedule

Envirite anticipates that sampling will be conducted approximately two weeks after USEPA's final approval of this work plan. The 10 soil gas samples will be collected over a period of a single day. Envirite will notify USEPA at least one week prior to implementing this plan.

Within 90 days of USEPA approving this work plan, Envirite will submit to USEPA a letter report summarizing the results of this project. In addition to being summarized in a letter report, results of this project will be included in both the RFI Supplement and final PHERE, as required by the Consent Order.

II. SAMPLING PROTOCOL

This section describes the procedures that will be used for collection and analysis of soil gas samples, including a brief description of quality assurance and quality control (QA/QC) protocols.

A. Sampling and Analysis Procedures

Sampling will be conducted by Target Environmental Services, Inc., under the direction of ENVIRON Corporation. Upon arrival at the site, the sampling team will check the site map for accuracy, identify the predetermined sampling locations, and mark each location with a pin flag or paint. The sampling equipment will be purged with bottled nitrogen or ambient air filtered through a dust and organic vapor cartridge.

At each location, a 1/2" diameter hole will be made to the sampling depth by using a slide hammer (1/2" in diameter steel rod with a sliding weight attached to one end, the rod is driven into the ground by a reciprocating motion manually applied to the weight). A 1/2" diameter stainless steel probe will be inserted to the full depth of the hole and sealed off from the atmosphere using a biodegradable inert sealant. Samples of soil gas will then be drawn from the prescribed depth by a manual syringe pump, and collected as described below.

In a two-step process, a consistent volume of *in situ* soil gas vapor will be withdrawn and encapsulated in a pre-evacuated, EPA-clean glass vial at 2 atmospheres (15 psig) pressure. The two-step sampling procedure allows for an initial gas draw to fully "charge" the sampling apparatus with soil gas, and remove all purge gases from the system. The second draw, then, produces a truly representative soil gas sample. Small consistent volumes of extracted soil gas help to ensure consistent sampling of *in situ* vapors.

Following collection, the sample will be labeled and stored in a dark container pending analysis. The interior surfaces of all sample handling equipment and storage containers are stainless steel, teflon, and/or EPA-clean glass. The samples will be returned to an analytical laboratory the same day they are obtained. Samples will be analyzed on a gas chromatograph/mass spectroscopy (GC/MS) system. Standards will be analyzed in order to quantify vinyl chloride to a detection limit of 0.2 ppm and perchloroethylene to a detection limit of 0.15 ppm.

All of the equipment required by the sampling procedure is portable. No vehicular access to the sample location is necessary. No heavy equipment will be used. Disturbance to activities and properties in the sample area is minimal.

B. Quality Assurance and Quality Control Procedures

The following procedures will be followed to ensure and measure the accuracy and precision of the sample collection and analytical procedures:

1. Assurance of Sampling Quality

Sampling probes and apparatus are decontaminated internally and externally prior to each day's sample collection, and at additional intervals as judged appropriate by the sampling team.

INITIAL DECONTAMINATION PROCEDURES

Slide Hammer or Drive Pipe

1. The bar or pipe is washed with a Contrad cleaner/distilled water solution, and wiped dry with clean paper towels.
2. The bar or pipe is rinsed with distilled water and then wiped dry with clean paper towels.

Sampling Probe

1. The exterior of the probe is washed with Contrad/distilled water, and scrubbed with clean paper towels.
2. The exterior of the probe is rinsed with distilled water and wiped with clean paper towels.
3. The interior of the probe is flushed with Contrad/distilled water and purged for approximately 30 seconds with 20 psi of ultra-zero grade air, prepurified nitrogen, or filtered ambient air.

CONTINUAL DECONTAMINATION PROCEDURES

Sampling Probe and Apparatus

1. The sampling probes and apparatus (including valves and injection needle) are purged with a volume of filtered ambient air approximately 70 times the void space volume of the sampling system prior to each sample extraction.
2. The sampling apparatus is then purged with *in situ* soil gas approximately 25 void space volumes of the sampling system. This *in situ* soil gas, which is withdrawn through the probe and used to purge the filtered air from the sampling equipment, is then vented to the atmosphere.

2. Control of Sampling Quality

Field control samples are collected by drawing prepurified nitrogen or ambient air (filtered through an MSA organic cartridge filter) through the sampling apparatus and probe at the following times:

- prior to each day's sampling activities
- at the conclusion of each sampling day

These field control samples are labeled and analyzed in the same manner as the actual field samples and are visually indistinguishable from them.

3. Assurance of Analytical Quality

Each sample is encapsulated in a pre-evacuated EPA-clean glass vial, pressurized to 2 atmospheres (15 psig), and transported to the laboratory in an opaque protective container at ambient temperature. Samples are logged on a Chain of Custody form, which accompanies the samples during transport to the analytical laboratory. All samples are analyzed using a laboratory-grade gas chromatograph in a climate-controlled environment.

Calibration curves include at least three points, on which a linear regression is run to determine the detector response curve. The laboratory will not analyze any samples if the correlation coefficients of any of the standardized compounds are less than 0.99. It is, therefore, safe to assume linearity of the response curve throughout the range of expected concentrations.

4. Control of Analytical Quality

Between sample injections, the syringe is heated to 60°C and flushed with UPC grade nitrogen. Standards, blanks, and duplicates are analyzed as follows:

- Analyte standards are analyzed prior to sample batch analysis and at intervals during analysis.
- Carrier gas blanks are analyzed prior to sample batch analysis and after every tenth sample.
- Duplicate analyses are run of every tenth sample analyzed.

III. HEALTH AND SAFETY

A Health and Safety Plan specific to this site will be prepared. All field personnel have successfully completed a 40-hour Health and Safety training course, fulfilling the initial training requirements as specified in 29 CFR §1910.120(e). The training policies and procedures will ensure that personnel can recognize hazards, understand emergency response procedures, and have the knowledge necessary to enable them to perform their assigned jobs in a manner that ensures employee and public safety. Annual 8-hour updates and Supervisory Courses have been completed as appropriate.

All personal protective equipment (PPE) necessary for operations under Safety Level B will be maintained, including protective suits, respirators, and self-contained breathing apparatus (SCBA). In accordance with OSHA regulations, breathing space air monitoring will be performed during sampling at this site. The necessity for an upgrade of safety level from Level D is not expected, but will be based on action levels specified in the Health and Safety Plan.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION I
JOHN F. KENNEDY FEDERAL BUILDING
BOSTON, MASSACHUSETTS 02203-0001

July 30, 1996

RECEIVED 8/5/96
JRM

Mr. William R. McTigue, Jr.
Director, Environmental Affairs
Envirite Corporation
620 West Germantown Pike
Plymouth Meeting, PA 19462

Re: Approval of Soil Gas Survey Workplan
Envirite Facility
Thomaston, CT
RCRA Docket No. I-90-1032

Dear Mr. McTigue:

The United States Environmental Protection Agency (EPA) hereby approves your workplan for the limited soil gas sampling activities associated with the potential qualification and quantification of vinyl chloride, entitled Workplan for Soil Gas Sampling at the Envirite Facility in Thomaston, Connecticut (SGS workplan), Envirite Corporation, Plymouth Meeting, PA, dated July 23, 1996.

The SGS activities are to be conducted as Phase II activities as set forth in EPA's April 25, 1996 final comments regarding your RCRA Facility Investigation Phase I Interim Report and Phase II Proposal.

EPA would like to reiterate the purpose of this limited sampling plan as promulgated in your SGS workplan; that is, to qualify the potential presence of vinyl chloride in the soil gas at your facility, if any, for purposes of determining whether further investigation for vinyl chloride in soil gas is warranted.

As EPA understands it, therefore, your use of the phrase "to evaluate whether vinyl chloride is present in significant concentrations"[1] is to be construed as a "measuring stick" for potential further investigation rather than as an indication for potential remedial action.

Ultimately, of course, a determination of the presence of vinyl chloride in soil gas, if any, is relevant insofar as it may impact the Public Health and Environmental Risk Evaluation (PHERE). However, at this time, EPA concurs that the narrowly-defined purpose and approach as set forth in your SGS workplan is

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[1] SGS workplan at p.3.

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appropriate.

As set forth in your SGS workplan, Envirite shall notify EPA at least one week in advance of the commencement of activities associated with this SGS workplan. In addition, Envirite shall submit brief monthly progress reports to EPA pursuant to Section I(E)(2) of Attachment IV of the Consent Order which shall set forth the status of any and all activities associated with your Consent Order.

If you have any questions with respect to this approval, please contact Raphael J. Cody at 617/573-5769.

Sincerely,

Matthew R. Hoagland
Chief, Corrective Action
Office of Site Remediation and Restoration

cc: Joshua Secunda, EPA
Thomas J. Mueller, P.E., for the Town of Thomaston

BFB

Data File : C:\HPCHEM\1\DATA\AUGUST\82296\SPCC.D
Acq On : 22 Aug 96 8:06 am
Sample : 200 ng SPCC/CCC/IS; 50 ng BFB Tune
Misc :

Vial: 1
Operator: ABRAHAM
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOA\8260TW.M
Title : 8260

Scan Number 1558

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.0	10533	PASS
75	95	30	60	40.6	25216	PASS
95	95	100	100	100.0	62104	PASS
96	95	5	9	6.3	3890	PASS
173	174	0	2	0.0	0	PASS
174	95	50	200	64.0	39752	PASS
175	174	5	9	7.5	2971	PASS
176	174	95	101	97.0	38552	PASS
177	176	5	9	6.4	2486	PASS

SPCC.D 8260TW.M Thu Aug 22 09:24:00 1996 HPP&TCHEMSTATION

Samples Collected:	8/21/96	Collected by:	Charlie Kirk	Client:	Environ Corp.
Samples Received:	8/22/96	Received by:	Michael Marrale	Client Address:	4350 North Fairfax Dr.
Samples Analyzed:	8/22/96	Analyzed by:	Michael Marrale		Arlington, VA 22203
Samples Reported:	8/26/96	Reported by:	Michael Marrale		
Project Identification:	Waste Facility	Report Revision:	0.0	Client Contact:	Alan Kao
Target Job Code:	ENW001	Method Deviations:	None	Client Phone:	703-516-2388
Purchase Order:	N/A	Sampling Method:	4 foot slidehammer	Client Fax:	703-516-2344

Calibration Files CAL053.D CAL101.D CAL201.D CAL301.D CAL401.D
Calibration Date: 7/23/96

USEPA Method 8260 Initial Calibration

Compound	1	2	3	4	5	Avg	%RSD
1,4-Difluorobenzene				Internal Standard			
Dichlorodifluoromethane	0.436	0.438	0.429	0.347	0.401	0.410	9.40
Chloromethane	0.549	0.555	0.538	0.494	0.522	0.532	4.59
Vinyl Chloride	0.566	0.518	0.534	0.482	0.524	0.525	5.74
Bromomethane	0.434	0.383	0.393	0.361	0.389	0.392	6.76
Chloroethane	0.352	0.318	0.333	0.309	0.331	0.328	4.98
Trichlorofluoromethane	0.539	0.558	0.593	0.551	0.597	0.568	4.60
1,1-Dichloroethene	0.435	0.400	0.423	0.398	0.420	0.415	3.85
Methylene Chloride	0.460	0.428	0.436	0.416	0.435	0.435	3.68
trans-1,2-Dichloroethene	0.491	0.450	0.476	0.450	0.474	0.468	3.80
1,1-Dichloroethane	0.779	0.716	0.755	0.716	0.759	0.745	3.77
cis-1,2-Dichloroethene	0.477	0.439	0.464	0.441	0.467	0.457	3.67
Chloroform	0.776	0.720	0.754	0.719	0.761	0.746	3.44
1,1,1-Trichloroethane	0.415	0.420	0.397	0.386	0.402	0.404	3.34
Carbon Tetrachloride	0.717	0.664	0.701	0.670	0.711	0.692	3.50
1,1-Dichloroethane-d_4	0.581	0.550	0.589	0.570	0.608	0.580	3.77
Benzene	1.94	1.74	1.81	1.72	1.81	1.80	4.67
1,2-Dichloroethane	0.368	0.360	0.365	0.353	0.366	0.362	1.64
Chlorobenzene-d_5				Internal Standard			
Trichloroethylene	0.525	0.470	0.523	0.513	0.525	0.511	4.63
1,2-Dichloropropane	0.430	0.395	0.434	0.429	0.440	0.426	4.18
Bromodichloromethane	0.525	0.495	0.540	0.541	0.559	0.532	4.48
Dibromomethane	0.202	0.199	0.207	0.210	0.210	0.206	2.52
cis-1,3-Dichloropropene	0.580	0.551	0.599	0.605	0.614	0.590	4.22
Toluene-d_8	1.77	1.69	1.71	1.70	1.73	1.72	1.73
Toluene	1.26	1.11	1.23	1.20	1.23	1.21	4.95
trans-1,3-Dichloropropene	0.402	0.405	0.434	0.440	0.437	0.424	4.40
1,1,2-Trichloroethane	0.216	0.206	0.217	0.218	0.215	0.214	2.28
Tetrachloroethylene or PCE	0.318	0.287	0.322	0.319	0.321	0.313	4.76
Dibromochloromethane	0.204	0.207	0.226	0.231	0.227	0.219	5.72
1,2-Dibromoethane	0.212	0.212	0.223	0.228	0.221	0.219	3.16
1,4-Dichlorobenzene-d_4				Internal Standard			
Chlorobenzene	2.418	2.183	2.488	2.450	2.498	2.408	5.38
1,1,1,2-Tetrachloroethane	0.622	0.579	0.659	0.681	0.706	0.649	7.72
Ethylbenzene	1.487	1.328	1.534	1.518	1.561	1.486	6.21
m&p-Xylene	1.862	1.635	1.901	1.878	1.965	1.848	6.78
o-Xylene	1.710	1.522	1.735	1.734	1.790	1.698	6.05
Styrene	2.891	2.633	2.990	2.987	3.080	2.916	5.89
Isopropylbenzene	4.693	4.191	4.786	4.759	4.939	4.673	6.08
Bromoform	0.302	0.310	0.338	0.358	0.352	0.332	7.55
1,1,2,2-Tetrachloroethane	0.579	0.577	0.595	0.614	0.592	0.592	2.53
Bromofluorobenzene	1.465	1.421	1.442	1.437	1.462	1.445	1.25
1,2,3-Trichloropropane	0.404	0.401	0.405	0.413	0.406	0.406	1.03
Bromobenzene	0.756	0.708	0.788	0.787	0.809	0.769	5.09
tert-Butylbenzene	2.831	2.552	2.882	2.882	2.940	2.817	5.45
sec-Butylbenzene	3.507	3.148	3.533	3.552	3.663	3.481	5.61
1,3-Dichlorobenzene	1.432	1.312	1.433	1.442	1.471	1.418	4.33
1,4-Dichlorobenzene	1.398	1.291	1.385	1.383	1.428	1.377	3.73
1,2-Dichlorobenzene	1.153	1.089	1.151	1.150	1.192	1.147	3.22
n-Butylbenzene	4.841	4.294	4.837	4.731	4.963	4.733	5.47
1,2,4-Trichlorobenzene	0.880	0.804	0.860	0.823	0.876	0.849	3.98
Hexachlorobutadiene	0.472	0.374	0.440	0.423	0.441	0.430	8.37
Naphthalene	0.916	0.870	0.888	0.898	0.886	0.892	1.90
1,2,3-Trichlorobenzene	0.680	0.637	0.665	0.636	0.650	0.654	2.88

Samples Collected:	8/21/96	Collected by:	Charlie Kirk	Client:	Environ Corp.
Samples Received:	8/22/96	Received by:	Michael Marrale	Client Address:	4350 North Fairfax Dr.
Samples Analyzed:	8/22/96	Analyzed by:	Michael Marrale		Arlington, VA 22203
Samples Reported:	8/26/96	Reported by:	Michael Marrale		
Project Identification:	Waste Facility	Report Revision:	0.0	Client Contact:	Alan Kao
Target Job Code:	ENW001	Method Deviations:	None	Client Phone:	703-516-2388
Purchase Order:	N/A	Sampling Method:	4 foot slidehammer	Client Fax:	703-516-2344

Date Performed: 8/22/96

USEPA Method 8260 Continuing Calibration Check/System Performance Calibration Check

Analyte	Calibration Parameter	Average RF	Cont. Calib. RF	QC Limits Minimum RF	Percent Deviation	QC Limits Percent Deviation	Retention Deviation	QC Limits Minute Deviation	Area Percent	QC Limits Area Percent
Chloromethane	SPCC	0.532	0.404	0.100	24.1%	20.0	0.06	0.06	58	50-200
1,1-Dichloroethane	SPCC	0.745	0.774	0.100	3.9%	20.0	0.03	0.06	80	50-200
Chlorobenzene	SPCC	2.408	2.471	0.300	2.6%	20.0	0.00	0.06	83	50-200
Bromoform	SPCC	0.332	0.330	0.100	0.6%	20.0	-0.02	0.06	82	50-200
1,1,2,2-Tetrachloroethane	SPCC	0.592	0.607	0.300	2.5%	20.0	-0.02	0.06	86	50-200
Vinyl Chloride	CCC	0.525	0.427	0.100	18.7%	20.0	0.03	0.06	62	50-200
Chloroform	CCC	0.746	0.781	0.100	4.7%	20.0	0.02	0.06	81	50-200
1,2-Dichloropropane	CCC	0.426	0.399	0.100	6.3%	20.0	0.00	0.06	78	50-200
Toluene	CCC	1.207	1.169	0.100	3.1%	20.0	0.00	0.06	80	50-200
Ethylbenzene	CCC	1.486	1.459	0.100	1.8%	20.0	0.00	0.06	80	50-200
1,4-Difluorobenzene	IS	N/A	N/A	N/A	N/A	N/A	0.00	0.06	78	50-200
Chlorobenzene-d_5	IS	N/A	N/A	N/A	N/A	N/A	0.00	0.06	85	50-200
1,4-Dichlorobenzene-d_4	IS	N/A	N/A	N/A	N/A	N/A	0.00	0.06	84	50-200

Notes: Chloromethane is slightly low for the SPCC, however, there were no detections for chloromethane

Samples Collected:	8/21/96	Collected by:	Charlie Kirk	Client:	Environ Corp.
Samples Received:	8/22/96	Received by:	Michael Marrale	Client Address:	4350 North Fairfax Dr.
Samples Analyzed:	8/22/96	Analyzed by:	Michael Marrale		Arlington, VA 22203
Samples Reported:	8/26/96	Reported by:	Michael Marrale		
Project Identification:	Waste Facility	Report Revision:	0.0	Client Contact:	Alan Kao
Target Job Code:	ENW001	Method Deviations:	None	Client Phone:	703-516-2388
Purchase Order:	N/A	Sampling Method:	4 foot slidehammer	Client Fax:	703-516-2344

USEPA Method 8260 Air Method Blank Analysis Results in ppb

Compound	MW[1] (g/mole)	MDL[2] (ppb)	PQL[3] (ppb)	MBLNK (ppb)
Dichlorodifluoromethane	120.91	0.688	5.00	ND
Chloromethane	50.49	0.559	5.00	ND
Vinyl Chloride	62.50	1.01	5.00	ND
Bromomethane	94.94	0.444	5.00	ND
Chloroethane	64.51	0.341	5.00	ND
Trichlorofluoromethane	138.38	0.334	5.00	ND
1,1-Dichloroethene	96.94	0.298	5.00	ND
Methylene Chloride	84.93	0.448	5.00	ND
Methyl *tert*-Butyl Ether	88.15	1.00	5.00	ND
trans-1,2-Dichloroethene	96.94	0.419	5.00	ND
1,1-Dichloroethane	98.96	0.488	5.00	ND
cis-1,2-Dichloroethene	96.94	0.455	5.00	ND
Chloroform	119.38	0.472	5.00	ND
1,1,1-Trichloroethane	133.40	0.465	5.00	ND
Carbon Tetrachloride	153.82	0.421	5.00	ND
Benzene	78.11	0.496	5.00	ND
1,2-Dichloroethane	98.96	0.639	5.00	ND
Trichloroethylene	131.39	0.135	5.00	ND
1,2-Dichloropropane	112.99	0.121	5.00	ND
Bromodichloromethane	163.83	0.161	5.00	ND
Dibromomethane	173.83	0.525	5.00	ND
cis-1,3-Dichloropropene	110.97	0.306	5.00	ND
Toluene	92.14	0.156	5.00	ND
trans-1,3-Dichloropropene	110.97	0.412	5.00	ND
1,1,2-Trichloroethane	133.40	0.551	5.00	ND
Tetrachloroethylene or PCE	165.83	0.231	5.00	ND
Dibromochloromethane	208.28	0.264	5.00	ND
1,2-Dibromoethane	187.86	0.562	5.00	ND
Chlorobenzene	112.56	0.171	5.00	ND
1,1,1,2-Tetrachloroethane	167.85	0.117	5.00	ND
Ethylbenzene	106.17	0.308	5.00	ND
m&p-Xylene	106.17	0.473	10.0	ND
o-Xylene	106.17	0.227	5.00	ND
Styrene	104.15	0.181	5.00	ND
Isopropylbenzene	120.19	0.339	5.00	ND
Bromoform	252.73	0.338	5.00	ND
1,1,2,2-Tetrachloroethane	167.85	0.649	5.00	ND
1,2,3-Trichloropropane	147.43	0.451	5.00	ND
Bromobenzene	157.01	0.127	5.00	ND
tert-Butylbenzene	134.22	0.296	5.00	ND
sec-Butylbenzene	134.22	0.301	5.00	ND
1,3-Dichlorobenzene	147.00	0.0840	5.00	ND
1,4-Dichlorobenzene	147.00	0.0470	5.00	ND
1,2-Dichlorobenzene	147.00	0.164	5.00	ND
n-Butylbenzene	134.22	0.276	5.00	ND
1,2,4-Trichlorobenzene	181.45	0.406	5.00	ND
Hexachlorobutadiene	260.76	0.461	5.00	ND
Naphthalene	128.17	0.715	5.00	ND
1,2,3-Trichlorobenzene	181.45	0.573	5.00	ND
Sample Condition (S,U)/Dilution (PQL)			1	S

S: Satisfactory, U: Unsatisfactory

U: see sample narrative

Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[1] MW: Molecular Weight

[2] MDL: Method detection limit according to EPA 40CFR Part 136 Appendix B

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable

SAMPLE NARRATIVE:

Quality Control Analyst: _____

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Samples Collected:	8/21/96	Collected by:	Charlie Kirk	Client:	Environ Corp.
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Project Identification:	Waste Facility	Report Revision:	0.0	Client Contact:	Alan Kao
Target Job Code:	ENW001	Method Deviations:	None	Client Phone:	703-516-2388
Purchase Order:	N/A	Sampling Method:	4 foot slidehammer	Client Fax:	703-516-2344

USEPA Method 8260 Air Sample Duplicate Analysis Results in (ug/L)

Compound	MW[1] (g/mole)	MDL[2] (ug/L)	PQL[3] (ug/L)	I7-42 (ug/L)	Duplicate I7-42 (ug/L)	RPD[4]
Dichlorodifluoromethane	120.91	1.74	5	ND	ND	NA
Chloromethane	50.49	1.36	5	ND	ND	NA
Vinyl Chloride	62.50	1.80	5	ND	ND	NA
Bromomethane	94.94	1.51	5	ND	ND	NA
Chloroethane	64.51	1.38	5	ND	ND	NA
Trichlorofluoromethane	138.38	1.72	5	ND	ND	NA
1,1-Dichloroethene	96.94	1.30	5	ND	ND	NA
Methylene Chloride	84.93	1.72	5	ND	ND	NA
trans-1,2-Dichloroethene	96.94	1.73	5	ND	ND	NA
Methyl *tert*-Butyl Ether	88.15	1.00	5	ND	ND	NA
1,1-Dichloroethane	98.96	1.72	5	ND	ND	NA
cis-1,2-Dichloroethene	96.94	1.75	5	ND	ND	NA
Chloroform	119.38	1.98	5	ND	ND	NA
1,1,1-Trichloroethane	133.40	1.61	5	ND	ND	NA
Carbon Tetrachloride	153.82	1.66	5	ND	ND	NA
Benzene	78.11	1.70	5	ND	ND	NA
1,2-Dichloroethane	98.96	2.90	5	ND	ND	NA
Trichloroethylene	131.39	0.574	5	ND	ND	NA
1,2-Dichloropropane	112.99	0.592	5	ND	ND	NA
Bromodichloromethane	163.83	0.866	5	ND	ND	NA
Dibromomethane	173.83	1.13	5	ND	ND	NA
cis-1,3-Dichloropropene	110.97	0.853	5	ND	ND	NA
Toluene	92.14	0.518	5	ND	ND	NA
trans-1,3-Dichloropropene	110.97	1.53	5	ND	ND	NA
1,1,2-Trichloroethane	133.40	1.51	5	ND	ND	NA
Tetrachloroethylene or PCE	165.83	0.439	5	9.47	9.76	3.0%
Dibromochloromethane	208.28	1.6	5	ND	ND	NA
1,2-Dibromoethane	187.86	1.89	5	ND	ND	NA
Chlorobenzene	112.56	0.662	5	ND	ND	NA
1,1,1,2-Tetrachloroethane	167.85	1.24	5	ND	ND	NA
Ethylbenzene	106.17	0.713	5	ND	ND	NA
m&p-Xylene	106.17	1.39	10	ND	ND	NA
o-Xylene	106.17	0.567	5	ND	ND	NA
Styrene	104.15	0.698	5	ND	ND	NA
Isopropylbenzene	120.19	0.571	5	ND	ND	NA
Bromoform	252.73	2.27	5	ND	ND	NA
1,1,2,2-Tetrachloroethane	167.85	2.11	5	ND	ND	NA
1,2,3-Trichloropropane	147.43	3.04	5	ND	ND	NA
Bromobenzene	157.01	0.781	5	ND	ND	NA
tert-Butylbenzene	134.22	0.589	5	ND	ND	NA
sec-Butylbenzene	134.22	0.582	5	ND	ND	NA
1,3-Dichlorobenzene	147.00	0.232	5	ND	ND	NA
1,4-Dichlorobenzene	147.00	0.148	5	ND	ND	NA
1,2-Dichlorobenzene	147.00	0.415	5	ND	ND	NA
n-Butylbenzene	134.22	0.731	5	ND	ND	NA
1,2,4-Trichlorobenzene	181.45	2.26	5	ND	ND	NA
Hexachlorobutadiene	260.76	1.79	5	ND	ND	NA
Naphthalene	128.17	3.61	5	ND	ND	NA
1,2,3-Trichlorobenzene	181.45	3.82	5	ND	ND	NA
Sample Condition (S,U)/Dilution (PQL)			1	S	S	

S: Satisfactory, U: Unsatisfactory

U: see sample narrative

Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[1] MW: Molecular Weight

[2] MDL: Method detection limit according to EPA 40CFR Part 136 Appendix B

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable

[4] RPD: Relative percent difference. NA indicates the calculation is not applicable.

SAMPLE NARRATIVE:

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Samples Collected:	8/21/96	Collected by:	Charlie Kirk	Client:	Environ Corp.
Samples Received:	8/22/96	Received by:	Michael Marrale	Client Address:	4350 North Fairfax Dr.
Samples Analyzed:	8/22/96	Analyzed by:	Michael Marrale		Arlington, VA 22203
Samples Reported:	8/26/96	Reported by:	Michael Marrale		
Project Identification:	Waste Facility	Report Revision:	0.0	Client Contact:	Alan Kao
Target Job Code:	ENW001	Method Deviations:	None	Client Phone:	703-516-2388
Purchase Order:	N/A	Sampling Method:	4 foot slidehammer	Client Fax:	703-516-2344

USEPA Method 8260 Air Matrix Spike and Matrix Spike Duplicate

Compound	PQL[1] (ppb)	Sample (ppb)	MS Spiked (ppb)	MSD Duplicate (ppb)	Spike % Rec.	Duplicate % Rec.	RPD[2]	QC Criteria % Recovery Low	QC Criteria % Recovery High	QC Criteria RPD[2]
1,1-Dichloroethene	5.00	ND	9.0	10.0	90%	100%	10.5%	70.0	130	20.0
Benzene	5.00	ND	9.0	10.0	90%	100%	10.5%	70.0	130	20.0
Trichloroethylene	5.00	ND	10.0	10.0	100%	100%	0.00%	70.0	130	20.0
Toluene	5.00	ND	10.0	10.0	100%	100%	0.00%	70.0	130	20.0
Chlorobenzene	5.00	ND	10.0	10.0	100%	100%	0.00%	70.0	130	20.0

Sample Condition (S,U)/Dilution (PQL) See sample analysis information
S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve
[1] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable.
[2] RPD: Relative percent difference.

SAMPLE NARRATIVE:

ATTACHMENT

UNDERGROUND STORAGE TANK REMOVAL FORMER ENVIRITE FACILITY THOMASTON, CONNECTICUT

PREPARED FOR:
Envirite Corporation
620 West Germantown Pike, Suite 260
Plymouth Meeting, PA 19462

PREPARED BY:
GZA GeoEnvironmental, Inc.
27 Naek Road
Vernon, CT 06066

May 1997
File No. 41875

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May 29, 1997
File No. 41875

Mr. William McTigue, Jr.
Director, Environmental Affairs
Envirite Corporation
620 West Germantown Pike, Suite 260
Plymouth Meeting, PA 19462

Re: UST Removals
Former Envirite Facility
Thomaston, CT
RCRA Docket No. I-90-1032

Dear Mr. McTigue:

In accordance with our contract dated and executed on March 7, 1997, GZA has prepared this report summarizing work performed during the removal of two underground storage tanks at the former Envirite Facility in Thomaston, Connecticut.

This report is subject to the Limitations set forth in Appendix A.

1.0 BACKGROUND

The two underground tanks at the Thomaston Site were installed when the processing building was constructed in 1975. A site locus plan is included as Figure 1. The purpose of the tanks was to provide containment capacity for inadvertent spills of hazardous wastes from tank trucks in the unloading area. Each tank was constructed of fiberglass reinforced plastic. The tanks were six feet in diameter and five feet long, and had a capacity of approximately 1,050 gallons each. The tanks' tops were approximately five feet below grade.

As shown on Figure 2, the tanks flanked the east and west sides of the processing building's unloading area, which is adjacent to the building's south wall. The unloading area extends southward fifty feet beyond the south wall and is approximately 80 feet wide.

The unloading area is comprised of eight-inch thick concrete coated with an impervious, chemical resistant coating. The area is divided into an alkaline handling pad and an acid handling pad. The surfaces of the two unloading areas were pitched toward the center and drained into separate 4-inch diameter, schedule-40 underground PVC pipes. The alkaline pad was piped to the east UST and the acid pad was piped to the west UST. These pipes each discharged to a "T" connection mounted above the respective UST's. Liquid flowed

through these two pipes and into the tanks by gravity, and overfill was discharged through a pipe connected to the other end of each "T" connection. The pipes extended southward approximately fifty feet and emptied into a dry well[1].

Around 1980 part of the unloading area was reconstructed so that liquids on the pad would flow toward the processing building. Part of the pad was demolished during construction, and the exposed portion of each UST's inlet pipe was crushed in place. Pipes connecting the unloading area to the processing building's secondary containment systems were installed, and the area was re-paved with concrete. In 1990, after the facility stopped receiving waste from off-site, the depressed areas of the acid and alkaline pads were backfilled and capped with asphalt. At this time the site records indicated that the tanks had been closed by removal.

As part of Envirite's evaluation of site conditions under a Consent Order with EPA, a backhoe was used in February 1995 to excavate the east UST area (the alkaline pad UST). Excavation in the area of the east tank revealed that the tank had not been removed; rather, the tank had been crushed in place and the excavation had been backfilled with soil. Sidewall soils were composed of gravelly sand, and base soils were composed of a denser material (likely consisting of native soil). Further explorations determined that the western UST was still (partially) intact and holding liquid. Laboratory analysis indicated that the material was acidic.

2.0 WORK PLAN SAMPLING AND ANALYSIS PROGRAM

The presence of the tanks was reported to EPA in the March 1995 RCRA Facility Investigation (RFI) report. In the comments to that report EPA indicated that Envirite should prepare a work plan to remove each tank as an "Interim Measure". On July 1, 1996, Envirite submitted a work plan for excavating the two UST's to EPA entitled: Work Plan, Excavation and Removal of Underground Spill Containment Tanks, Envirite Corporation, Thomaston, Connecticut (Docket No. I-90-1032, Amended Through September 5, 1996). EPA notified Envirite of the Work Plan's approval by letter dated July 29, 1996 (Appendix B). We note the revisions dated September 5, which post-date the EPA approval, are described on the cover letter that accompanied the Revised Work Plan submitted to EPA; this cover letter is included in Appendix B of this report.

2.1 SPECIFIED ANALYTICAL PARAMETERS AND CLEAN-UP STANDARDS

The Work Plan describes the procedures to be followed to demonstrate that the tanks and any surrounding contaminated material to a maximum depth of 13 feet below grade were removed, including sampling locations, sampling frequency, analyses, and contingencies

[1] See Section 8.1.3, Table 9-7 and Table 9-8 in Volume I of the RFI Interim Report for a summary of the investigatory findings relating to the dry well that served each tank.

(Appendix B). Excavation below 13 feet was described as a contingency to be implemented if indicated based on visual observations and field screening.

Analyses were targeted at a specific set of 132 parameters, generally referenced as the "Site-Specific Parameter List" (Work Plan Table 1 of Appendix B). Some samples were analyzed to determine the presence of any parameters identified on the site-specific parameter list. Other samples, specifically those representing materials that were designated for off-site disposal upon excavation, were analyzed to determine whether they exhibited the toxicity characteristic and other hazardous waste characteristics reasonably expected to be associated with the material. Table 2 specifies the analytical parameters relating to those materials destined for off-site disposal.

Table 1 of this report also includes clean-up standards to be achieved in the excavations, and to be used to determine the suitability of backfilling the tank graves with the excavated soils. The clean-up standards were developed using the following sources[2]:

- State of Connecticut GB Pollutant Mobility Criteria for soils;
- State of Connecticut Industrial/Commercial Criteria for Direct Exposure to Soil; and,
- U.S. EPA Risk-Based Concentration Table (July - December, 1995).

2.2 VERIFICATION SAMPLING PROTOCOLS

Unique verification sampling protocols were established in the Work Plan for specific soil horizons, as follows:

1. Grade to top of tanks - (0 to 5 fbg)

   - Eight samples from above each tank to confirm their suitability for use as backfill.

2. Sidewall Soils - (5 to 13 fbg)

   - Four sidewall samples were to be composited unless staining was observed; if staining was observed, discrete samples were to be collected from those areas collected from locations opposite the midpoint of the tank.

3. Bottom Soils

   - If visual contamination was observed, two discrete samples were to be obtained from the base of each tank grave. If no visual indications of contamination

[2] A detailed explanation of Envirite's original derivation of Table 1 and Table 2 is provided at the beginning of the UST Work Plan, Appendix B.

were observed then a single composite sample of the base of the excavation was to be obtained.

4. Visually Contaminated Soil/Tank Contents

- Frequency as required by off-site disposal/treatment facility for Table 2 parameters.

3.0 UST EXCAVATIONS

On October 11, 1996 Envirite instructed Aaron Environmental Specialists to schedule the tank excavation. Envirite also proceeded with the approved notification requirements described in the Work Plan. Envirite published notice in the October 15, 1996 edition of the Waterbury Republican - American newspaper; erected a project information sign at the site; and, notified the Area Director of Health by telephone and in writing of the project start date.

3.1 WEST UST EXCAVATION

Liquid in the west tank was removed on October 29, 1996 and transported to Envirite's Canton, Ohio facility for treatment. The volume of liquid was gauged at the treatment facility at 970 gallons (consistent with the estimated 1,050 gallon volume of the west UST).

Excavation of the west UST commenced on October 31, 1996. The top of the UST was unearthed at approximately five feet below grade. Soils from zero feet to five feet below grade and from five feet to the depth of the base of the tank were excavated and segregated according to the protocols of the Work Plan. The tank was inspected to assess its integrity after the majority of the tank surface was exposed. Approximately eight inches of solids were found in the tank's bottom, including approximately one-half yard of soil that had entered the manway of the tank during excavation. This material was both field tested and sampled for waste characterization analysis in the laboratory. The solids were composed of silt-sized grains with an acid pH and a reportedly "notable" (undescribed) odor.

The solids inside the tank were removed and placed in a roll-off container, and the tank interior was wiped clean (no details were provided regarding the materials used to clean the tank). The tank was then cut open, and the tank remnants were placed in a roll-off container for off-site shipment. Waste characterization and confirmation samples were obtained from two excavated soil piles (zero feet to five feet below grade and five feet below grade to the depth of the bottom of tank) the UST contents, the excavation sidewalls, and the excavation bottom in accordance with the Work Plan (analytical results for the samples are summarized on Table 4 and discussed in the following section). The excavation and spoil materials were covered with plastic sheeting pending receipt of results.

3.2 EAST UST EXCAVATION

Excavation of the east UST began on November 1, 1996. Remnants of the crushed tank were unearthed at approximately five feet below grade. Soils from the zero feet to five feet below grade level were placed on plastic sheeting, sampled, and covered pending receipt of laboratory analytical results. Soils and tank remnants were excavated using a backhoe to a depth sufficient to evaluate and sample the tank dish. Because the tank could not be removed intact, the tank remnants and surrounding soils were removed simultaneously and segregated into two roll-off containers for off-site disposal. The soils were reportedly dissimilar in color to the native soils and possessed a "characteristic" sulfide odor. The tank dish was observed to be intact, however, approximately one cubic foot of the solids from the tank dish dropped into the excavation in the process of removing the dish. The majority of this material was removed using the backhoe, but not all of the contaminated media could be removed using the equipment on-Site at that time.

On November 12, 1996 the remediation contractor returned to the Site with additional equipment to complete the east UST excavation. Approximately three cubic yards of soil were removed from the east UST excavation and stockpiled on polyethylene sheeting. Darker soils were encountered at approximately 14 feet below grade. These soils (east overdig soils north and south) were placed in a twenty-yard roll-off container for characterization sampling and off-site disposal. As the excavation progressed, a distinct, uniformly distributed layer of this darker material was observed at the perimeter of the excavation (approximately 14 feet below grade). It appeared to be a clay-like material and contained fragments of decayed vegetation.

The excavated material was evaluated in the field by representatives of Envirite and EPA, and samples were collected and submitted for laboratory analysis of sulfide, pH, and VOCs. No significant concentrations of sulfide or VOCs were detected, and the pH was determined to be characteristic of native soils (Table 4). On the basis of this information, it was determined that this was a natural soil horizon, and an agreement was reached to stop the excavation and collect verification samples (these samples were designated "EAST BOTTOM G1/G2").

3.3 FIELD SCREENING AND LABORATORY ANALYSES

A summary of the verification sampling performed and laboratory analytical results is presented below.

1. Overlying Soils

   - Composite samples of the soils removed from above the eastern and western tanks were analyzed (these samples were labeled "EAST UST COMPOSITE 0-5 feet" and "WEST UST COMPOSITE 0-5 feet") and met the site standards

established on Table 1, with the exception of the chromium values. These values slightly exceeded the EPA risk-based value (30 mg/kg maximum observed, versus the 19 mg/kg standard) for transfers from soil to groundwater based on mass (total) metals data. Envirite decided that this data was in compliance with the site standards based on the results of the SPLP analyses (the SPLP test results were all below detection limits). Because the SPLP test directly evaluates the transfer (leachability) of the chromium, these non-detections had quantitatively demonstrated that intermedia transfers to groundwater would not occur.

2. Sidewall Soils

- No staining was observed on the sidewalls of the tank excavations, and, per the work plan, one sidewall composite sample was obtained from each tank excavation to verify that the site standards were achieved (samples labeled "EAST UST, SIDEWALL COMPOSITE" and "WEST UST SIDEWALL COMPOSITE"). No exceedances were noted, with the exception of chromium (as discussed above).

3. Bottom Soils

- No staining was observed in the base of the West UST excavation, and two grab samples were collected to form a single composite sample, thereby representing base of the excavation (sample labeled "WEST UST BOTTOM COMPOSITE"). All constituents concentrations were below the site standards with the exception of chromium, as discussed above.

- Because darker soils were observed at the base of the east UST excavation, two discrete samples were obtained (samples labeled "EAST UST BOTTOM G-1" and "EAST UST BOTTOM G-2"). All constituents, except chromium (as discussed above), met site standards.

4. Backfill Soils

In addition to the verification sampling and analysis described above, two samples of bank-run gravel that was purchased off-site for use a backfill were analyzed (samples labeled "BACKFILL SOIL A" and BACKFILL SOIL B"). No exceedence of the criteria on Table 1 occurred.

4.0 SITE RESTORATION

Based on review of the results of the sidewall and bottom samples, and the evaluation of the total and leachable chromium data, it was determined that the criteria established in the work plan had been met and that the excavations could be backfilled. The west excavation was backfilled with the soils removed from zero feet to five feet below grade (above the top of the west UST), including those from zero feet to five feet below grade, soils surrounding the tank five feet below grade to the bottom of the excavation, and back-run gravel obtained (and tested) from off-site. The East UST excavation was backfilled with the soils removed from zero feet to five feet below grade (above the East UST) and bank-run gravel. All other materials excavated during the interim measures were disposed of off-site. Materials removed during the tank excavations and managed off-site included the contents of the western tank and the crushed eastern tank and associated soils, and "overdig" soils removed from the base of the eastern tank excavation.

4.1 WEST UST EXCAVATION

Based on the results of the confirmation samples from the west UST excavation, Envirite instructed the contractor to backfill the west UST excavation on November 12, 1996. As previously stated, this excavation was backfilled with soils previously removed from zero feet to five feet below grade and those surrounding the tank itself.

On December 12, the western tank was cut into manageable size pieces to facilitate disposal and all pieces were inspected to ensure they were visibly clean prior to off-site disposal as non-hazardous waste with the associated excavated soils.

4.2 EAST UST EXCAVATION

The remediation personnel returned to the site on November 21, 1996 to backfill and grade the East UST excavation. Backfill materials included material excavated from the East UST grave from zero feet to five feet below grade, selected materials excavated from the West UST grave, and off-site backfill materials (suitable backfill materials were identified based on the results of the analyses shown on Table 4). Contaminated soils removed from the Site were replaced with purchased, bank-run gravel with physical properties similar to the excavated soil. Of the 38 yards of gravel purchased, 30 yards went into backfilling the excavation. Approximately 35 cubic yards of excavated media from the east UST area were stored in two roll-off containers for off-site disposal.

5.0 WASTE DISPOSAL

The results of laboratory analyses of confirmation samples are summarized on Table 4 and the disposition of excavated materials is summarized on Table 5.

On December 12, 1996 the western tank was cut into manageable size pieces to facilitate disposal, and all pieces were inspected to ensure that they were visibly clean prior to off-site disposal as non-hazardous waste. These tank remnants were disposed of during January, 1997.

A sample of the west UST solids, representing approximately one cubic yard of soil and tank bottom sediments, was submitted for waste acceptance evaluation (waste characterization) to Envirite of Pennsylvania, Inc. (a wholly owned subsidiary of Envirite Corporation). Based on the analytical results of the west UST solids, Envirite of Pennsylvania, Inc. approved acceptance of this material for treatment and disposal (Table 4 and Appendix C). The west UST solids were shipped on January 31, 1997 under manifest number PAE4964352.

Approximately 35 cubic yards of excavated media from the east UST area was placed in two roll-off containers for off-site disposal (these materials were disposed of during January, 1997). The non-hazardous east UST material as determined by analyses summarized on Table 4 and detailed in Appendix C, was approved for disposal at the Lancaster County Solid Waste Management Authority Landfill (LCSWMA) in Conestoga, Pennsylvania, after proper notification was provided through a Form U notification filed with the PA DEP. The first container was shipped on January 20, 1997 and the second (and last) container was shipped on January 23, 1997.

East overdig soils were transported by Envirite of Pennsylvania, Inc. for disposal during January 1997. PA DEP approval was obtained through the department's Module I notification process. Available documentation of materials shipped off-site is included in Appendix H.

TABLES

TABLE 1
A COMPARISON OF SOIL CONSTITUENT CONCENTRATIONS TO APPLICABLE CLEANUP STANDARDS
Former Envirite Facility
Thomaston, Connecticut

NO.	COMPOUND	CONCENTRATION DETECTED		STATE OF CONNECTICUT		FEDERAL	ADOPTED SITE STANDARD
		MINIMUM	MAXIMUM	GB MOBILITY STANDARD*	INDUSTRIAL/ COMMERCIAL DEC**	EPA RISK-BASED LEVELS***	
	Volatile Organic Compounds						
1	1,1,1-Trichloroethane	0.0083	0.0083	40	1,000	0.9	0.9
2	1,1,2-Trichloroethane	BQL	BQL	1	100	0.01	0.01
3	1,1-Dichloroethene	0.0005	0.0005	1.4	9.5	0.03	0.03
4	1,2-Dichloroethane	BQL	BQL	0.2	63	0.01	0.01
5	1,2-Dichloropropane	BQL	BQL	1	84	0.02	0.02
6	1,1,2,2-Tetrachloroethane	BQL	BQL	0.1	29	0.001	0.001
7	2-Butanone (MEK)	0.18	0.18	80	1,000	1,000,000(1)	80
8	2-Chloroethyl vinyl ether	BQL	BQL	NL	NL	51,000(1)	51,000
9	2-Hexanone	0.0012	0.0012	NL	NL	NL	NL
10	4-Methyl-2-pentanone (MIBK)	0.0066	0.0066	14	1,000	160,000(1)	14
11	Acetone	0.007	0.13	140	1,000	8	8
12	Acrolein	BQL	BQL	NL	NL	41,000(1)	41,000
13	Benzene	BQL	BQL	0.2	200	0.02	0.02
14	Bromoform	BQL	BQL	0.8	720	0.5	0.5
15	Bromomethane	BQL	BQL	NL	NL	0.1	0.1
16	Bromodichloromethane	BQL	BQL	NL	NL	0.3	0.3
17	Carbon disulfide	0.0015	0.0015	NL	NL	14	14
18	Carbon tetrachloride	BQL	BQL	1	44	0.03	0.03
19	Chlorobenzene	0.0013	0.0013	20	1,000	0.6	0.6
20	Chloroform	0.11	0.11	1.2	940	0.3	0.3
21	Chloroethane	BQL	BQL	NL	NL	33	33
22	Chloromethane	BQL	BQL	NL	NL	0.0066	0.0066
23	cis-1,2-Dichloroethene	BQL	BQL	14	1,000	0.2	0.2
24	cis-1,3-Dichloropropene	BQL	BQL	0.1	32	0.001	0.001
25	Dibromochloromethane	BQL	BQL	0.1	68	NL	0.1
26	1,1-Dichloroethane	BQL	BQL	14	1,000	11	11
27	Ethylbenzene	0.05	0.05	10.1	1,000	5	5
28	Methylene Chloride	0.002 (J)	0.003 (J)	1	760	0.01	0.01
29	Styrene	0.01	0.01	20	1,000	2	2
30	Tetrachloroethene	**0.26**	**0.26**	1	110	0.04	0.04
31	Toluene	0.0016	0.0016	67	1,000	5	5
32	trans-1,2-Dichloroethene	BQL	BQL	20	1,000	0.3	0.3
33	trans-1,3-Dichloropropene	BQL	BQL	0.1	32	0.001	0.001
34	Trichloroethene	**0.11**	**0.11**	1	520	0.02	0.02
35	Xylenes (total)	0.1	0.1	19.5	1,000	74	19.5
36	Vinyl Acetate	BQL	BQL	NL	NL	84	84
37	Vinyl Chloride	BQL	BQL	0.4	3	0.01	0.01
	Semi-Volatile Organic Compounds						
38	2,4-Dichlorophenol	BQL	BQL	4	2,500	0.5	0.5
39	2,6-Dichlorophenol	BQL	BQL	NL	NL	NL	NL
40	2-Methylnaphthalene	0.033	0.033	NL	NL	NL	NL
41	2,4,5-Trichlorophenol	BQL	BQL	NL	NL	120	120
42	2,4,6-Trichlorophenol	BQL	BQL	NL	NL	0.06	0.06
43	Acenaphthene	BQL	BQL	84	2,500	200	84
44	Anthracene	0.019	0.019	400	2,500	4,300	400
45	Benzo(a)pyrene	0.1	0.1	1	1	4	1
46	Benzo(b)fluoranthene	0.089	0.089	1	7.8	4	1
47	Benzo(k)fluoranthene	0.1	0.1	1	78	4	1
48	Bis (2-ethylhexyl) phthalate	0.16	0.31	11	410	11	11
49	Butylbenzylphthalate	0.029	0.029	200	1,000	68	68
50	2-Chlorophenol	BQL	BQL	7.2	2,500	2	2
51	Diethylphthalate	BQL	0.041 (J)	NL	NL	110	110
52	Di-n-butylphthalate	0.03 (J)	0.650 (J)	140	2,500	NL	140
53	Di-n-octylphthalate	0.041 (J)	0.041 (J)	20	2,500	1,000,000	20
54	Dibenzofuran	0.02	0.02	NL	NL	120	120
55	Diethylphthalate	15 (J)	61 (J)	NL	NL	110	110
56	Fluoranthene	0.01	0.21	56	2,500	980	56
57	Fluorene	0.02	0.02	56	2,500	160	56

TABLE 1
A COMPARISON OF SOIL CONSTITUENT CONCENTRATIONS TO APPLICABLE CLEANUP STANDARDS
Former Envirite Facility
Thomaston, Connecticut

NO.	COMPOUND	CONCENTRATION DETECTED		STATE OF CONNECTICUT		FEDERAL	ADOPTED
		MINIMUM	MAXIMUM	GB MOBILITY STANDARD*	INDUSTRIAL/ COMMERCIAL DEC**	EPA RISK-BASED LEVELS***	SITE STANDARD
58	Naphthalene	0.015	0.015	56	2,500	30	30
59	N-Nitrosodiphenylamine	BQL	BQL	NL	NL	0.2	0.2
60	N-Nitrosodimethylamine	BQL	BQL	NL	NL	0.11[1]	0.11
61	Phenanthrene	0.011 (J)	0.12	40	2,500	NL	40
62	Pyrene	0.010 (J)	0.16	40	2,500	1,400	40
	Pesticides and PCBs						
63	Alpha-BHC	NA	NA	NL	NL	0.0004	0.0004
64	Beta-BHC	BQL	BQL	NL	NL	0.002	0.002
65	Delta-BHC	0.0011	0.0011	NL	NL	NL	NL
66	Gamma-BHC (Lindane)	0.0005	0.001	0.04	610	0.006	0.006
67	Heptachlor	BQL	BQL	0.013	NL	0.06	0.013
68	Aldrin	BQL	BQL	NL	NL	0.005	0.005
69	Heptachlor Epoxide	BQL	BQL	0.02	0.63	0.03	0.02
70	Dalapon	BQL	BQL	NL	NL	61,000[1]	61,000
71	Dieldrin	BQL	BQL	0.007	0.36	0.001	0.001
72	Dinoseb	BQL	BQL	NL	NL	2,000[1]	2,000
73	4,4-DDE	BQL	BQL	NL	NL	0.5	0.5
74	4,4-DDT	0.0005	0.0005	NL	NL	1	1
75	Endosulfan I	BQL	BQL	NL	NL	3[5]	3
76	Endosulfan II	BQL	BQL	NL	NL	3[5]	3
77	4,4-DDD	BQL	BQL	NL	NL	0.7	0.7
78	Endosulfan Sulfate	BQL	BQL	NL	NL	NL	NL
79	Methoxychlor	BQL	BQL	8	10,000	62	8
80	Endrin Aldehyde	BQL	BQL	NL	NL	NL	NL
81	Gamma-Chlordane	BQL	BQL	NL	NL	2	2
82	Tetrachloro-m-xylene	BQL	BQL	NL	NL	NL	NL
83	Total PCBs	BQL	BQL	0.005	10	NL	0.005
84	Arochlor 1242	BQL	BQL	NL	NL	NL	NL
85	Aroclor 1254	0.0077	0.021	NL	NL	NL	NL
86	Aroclor 1260	BQL	BQL	NL	NL	41[1]	41
	Herbicides						
87	2,4-D	BQL	BQL	14	20,000	1.7	1.7
88	2,4-DB	BQL	BQL	NL	NL	16,000[1]	16,000
89	2,4,5-TP (Silvex)	BQL	BQL	NL	NL	16,000[1]	16,000
90	2,4,5-T	BQL	BQL	NL	NL	20,000[1]	20,000
91	Dicamba	BQL	BQL	NL	NL	61,000[1]	61,000
92	Dichloroprop	BQL	BQL	NL	NL	NL	NL
93	MCPA	BQL	BQL	NL	NL	1,000[1]	1,000
94	MCPP	BQL	BQL	NL	NL	2,000[1]	2,000
	Total Petroleum Hydrocarbons (TPH)						
95	TPH (by EPA Method 418.1)	NA	NA	2,500	2,500	NL	2,500
	Metals (total)						
96	Antimony	BQL	BQL	NL	8,200	820[1]	820
97	Arsenic	0.26	0.28	NL	10	15	10
98	Barium	23	**87**	NL	140,000	32	32
99	Beryllium	0.6	0.62	NL	2	180	2
100	Cadmium	1.1	1.1	NL	1,000	6	6
101	Chromium	8.4	**50**	NL	51,000	19[3]	19
102	Cobalt	4	8.8	NL	NL	120,000[1]	120,000
103	Copper	27	110	NL	76,000	82,000[1]	76,000
104	Lead	1.6	14	NL	1,000	400[4]	400
105	Mercury	BQL	BQL	NL	610	3	3
106	Nickel	9.6	19	NL	7,500	21	21
107	Selenium	BQL	BQL	NL	10,000	3	3
108	Silver	0.6	1.2	NL	10,000	10,000[1]	10,000
109	Thallium	BQL	BQL	NL	160	0.4	0.4
110	Tin	BQL	BQL	NL	NL	1,000,000[1]	1,000,000
111	Vanadium	33	40	NL	14,000	14,000[1]	14,000
112	Zinc	29	83	NL	610,000	42,000	42,000

TABLE 1
A COMPARISON OF SOIL CONSTITUENT CONCENTRATIONS TO APPLICABLE CLEANUP STANDARDS
Former Envirite Facility
Thomaston, Connecticut

NO.	COMPOUND	CONCENTRATION DETECTED		STATE OF CONNECTICUT		FEDERAL	ADOPTED SITE STANDARD
		MINIMUM	MAXIMUM	GB MOBILITY STANDARD*	INDUSTRIAL/ COMMERCIAL DEC**	EPA RISK-BASED LEVELS***	
	Inorganics (total)						
113	Cyanide	5.8	5.8	NL	41,000	41,000[2]	41,000
114	Sulfide	15	30	NL	NL	NL	NL
	TCLP/SPLP (SRLP) Leachable Metals & Inorganics (mg/L)						
1	Antimony	BQL	BQL	0.06	NL	NL	0.06
2	Arsenic	BQL	BQL	0.5	NL	NL	0.5
3	Barium	BQL	BQL	10	NL	NL	10
4	Beryllium	BQL	BQL	0.04	NL	NL	0.04
5	Cadmium	BQL	BQL	0.05	NL	NL	0.05
6	Chromium	BQL	BQL	0.5	NL	NL	0.5
7	Cobalt	BQL	BQL	NL	NL	NL	NL
8	Copper	BQL	BQL	13	NL	NL	13
9	Lead	BQL	BQL	0.15	NL	NL	0.15
10	Mercury	BQL	BQL	0.02	NL	NL	0.02
11	Nickel	BQL	BQL	1	NL	NL	1
12	Selenium	BQL	BQL	0.5	NL	NL	0.5
13	Silver	BQL	BQL	0.36	NL	NL	0.36
14	Thallium	BQL	BQL	0.05	NL	NL	0.05
15	Tin	BQL	BQL	NL	NL	NL	NL
16	Vanadium	BQL	BQL	0.5	NL	NL	0.5
17	Zinc	0.062	0.08	50	NL	NL	50
18	Cyanide	NA	NA	2 (SPLP)	NL	NL	2

Legend:

NA Not Analyzed
NL Not Listed in agency risk guidance
BQL Below Method Detection Limit
* January 1996 State of Connecticut Remediation Standards, Section 22a-430 of the General Statutes; Pollutant Mobility Criteria for Soil, GB Mobility Criteria.
** January 1996 State of Connecticut Remediation Standards, Section 22a-430 of the General Statutes; Direct Exposure Criteria for Soil, Industrial/Commercial.
*** EPA Region III Risk-Based Concentration Table, July - December 1995; from Roy L. Smith, Office of RCRA, Technical and Program Support Branch (3HW70). Soil Screening Levels - Transfers from Soil to Groundwater.

Notes:

(1) Soil ingestion, industrial, risk-based concentration.
(2) *As free cyanide, soil ingestion, industrial, risk-based concentration.*
(3) Cr+6 criterion.
(4) De facto residential soil value.
(5) As endosulfan.
(6) All units are mg/kg unless noted otherwise.
(7) Shaded cells indicate values updated since the original table was prepared by Envirite (UST Work Plan, September 5, 1996 Revision, Appendix B).
(8) Detected concentrations represent the results of laboratory analyses of samples collected from subsurface soil explorations T-1A, T-2B, T-3/3B, T-4/4B, and T-6B.
(9) The Adopted Site Standards are the most stringent applicable regulatory criteria shown on this table.

TABLE 2
ADDITIONAL PARAMETERS FOR TOXICITY CHARACTERISTIC DETERMINATION
Former Envirite Facility
Thomaston, Connecticut

NO.	COMPOUND	CT GB MOBILITY STANDARD*	EPA RISK-BASED STANDARD**	INDUSTRIAL/ COMMERCIAL DEC***	TC REGULATORY LEVEL
1	Chlordane	0.066	2	2.2	0.03
2	o-Cresol	NL	NL	NL	200
3	m-Cresol	NL	NL	NL	200
4	p-Cresol	NL	NL	NL	200
5	Cresol	NL	NL	NL	200
6	1,4-Dichlorobenzene	15	1	240	7.5
7	2,4-Dinitrotoluene	NL	0.2	NL	0.13
8	Endrin	NL	0.4	610	0.02
9	Hexachlorobenzene	1	0.8	3.6	0.13
10	Hexachlorobutadiene	NL	0.1	NL	0.5
11	Hexachloroethane	1	0.2	410	3
12	Nitrobenzene	NL	0.09	NL	2
13	Pentachlorophenol	1	0.2	48	100
14	Pyridine	NL	2,000(1)	NL	5
15	Toxaphene	NL	0.04	5.2	0.5

Legend:

NL Not Listed in agency risk guidance

* January 1996 State of Connecticut Remediation Standards, Section 22a-430 of the General Statutes; Pollutant Mobility Criteria for Soil, GB Mobility Criteria.

** January 1996 State of Connecticut Remediation Standards, Section 22a-430 of the General Statutes; Direct Exposure Criteria for Soil, Industrial/Commercial.

*** EPA Region III Risk-Based Concentration Table, July - December 1995; from Roy L. Smith, Office of RCRA, Technical and Program Support Branch (3HW70). Soil Screening Levels - Transfers from Soil to Groundwater.

Notes:

(1) Soil ingestion, industrial, risk-based concentration.

(2) All units are mg/kg unless noted otherwise.

(3) This table is a reproduction from an original as developed by Envirite Corporation.

TABLE 3
SUMMARY OF CHARACTERIZATION ANALYSES
UST REMOVALS
Former Envirite Facility
Thomaston, Connecticut

	LOCATION											
ANALYTE	T-1				T-2				T-3			
Sample ID	AA950208SLT01A		AA950208SLT01A - LP		AA950208SLT02B		AA950208SLT02B - LP		HMH9411116SLT3B		HMH9411116SLT3B-LP	
EAS No.	9500555		9500555		9500552		9500552		9406193		9406193	
Units	mg/kg		mg/L		mg/kg		mg/L		mg/kg		mg/L	
Run By	EAS		EAS		EAS		EAS		EAS		EAS	
Collection Date	2/8/95		2/8/95		2/8/95		2/8/95		11/16/94		11/16/94	
Matrix	SL (soil)		SL-LP (soil-leach procedure)		SL (soil)		SL-LP (soil-leach procedure)		SL (soil)		SL-LP (soil-leach procedure)	
Depth in Feet	9-11				10-12				10-12		10-12	
Subarea	T		T		T		T		T		T	
Acetone	0.01	U	-	-	0.01	U	-	-	0.13	X	0.01	U
2-Butanone	0.01	U	-	-	0.01	U	-	-	0.18	X	0.01	U
Chloroform	0.01	U	-	-	0.01	U	-	-	0.11	X	0.01	U
Trichloroethene	0.01	U	-	-	0.01	U	-	-	0.11	X	0.01	U
Tetrachloroethene	0.01	U	-	-	0.01	U	-	-	0.26	X	0.001	J
Ethylbenzene	0.01	U	-	-	0.01	U	-	-	0.05	X	0.0005	J
Xylenes (total)	0.01	U	-	-	0.01	U	-	-	0.1	X	0.01	U
Styrene	0.01	U	-	-	0.01	U	-	-	0.01	X	0.0016	J
Tetrachloro-m-xylene	0.013	X	-	-	0.013	X	-	-	-	-	-	-
Decachlorobiphenyl	0.019	X	-	-	0.022	X	-	-	-	-	-	-
Arsenic	1.	U	0.005	U	1.	U	0.005	U	0.26	X	0.005	U
Barium	87.	X	0.5	U	75.	X	0.5	U	23.	X	0.5	U
Cadmium	0.2	U	0.01	U	0.2	U	0.01	U	1.1	X	0.01	U
Chromium	20.	X	0.04	U	50.	X	0.04	U	30.	X	0.04	U
Lead	2.	X	0.6	U	14.	X	0.6	U	13.	X	0.06	U
Silver	0.6	X	0.03	U	0.6	U	0.03	U	1.2	X	0.03	U
Beryllium	0.4	U	0.02	U	0.4	U	0.02	U	0.6	X	0.02	U
Cobalt	9.6	X	0.1	U	8.8	X	0.1	U	5.4	X	0.1	U
Copper	28.	X	0.02	U	27.	X	0.02	U	110.	X	0.027	X
Nickel	11.	X	0.3	U	16.	X	0.3	U	19.	X	0.03	U
Vanadium	33.	X	1.	U	40.	X	1.	U	20.	U	1.	U
Zinc	30.	X	0.08	X	42.	X	0.062	X	63.	X	0.078	X

Legend:

* As hexavalent chromium

** Maximum concentration for toxicity characteristic

Notes:

1. This table is a reproduction of an original developed during preparation of the RFI report for the former Envirite facility located in Thomaston, Connecticut.
2. Only detected compounds are shown; a complete list of analyses is available in the appendices accompanying the original RFI submittal.

TABLE 3
SUMMARY OF CHARACTERIZATION ANALYSES
UST REMOVALS
Former Envirite Facility
Thomaston, Connecticut

	LOCATION													
ANALYTE	T-4				T-6A				T-6B				EB-1	
Sample ID	HMH9411116SLT4A		HMH9411116SLT4A-LP		AA950208SLT06A		AA950208SLT06A - LP		AA950208SLT06B		AA950208SLT06B - LP		EQUIPMENT BLANK	
EAS No.	9406194		9406194		9500553		9500553		9500554		9500554		9406195	
Units	mg/kg		mg/L		mg/kg		mg/L		mg/kg		mg/L		mg/L	
Run By	EAS		EAS		EAS		EAS		EAS		EAS		EAS	
Collection Date	11/16/94		11/16/94		2/8/95		2/8/95		2/8/95		2/8/95		11/16/94	
Matrix	SL (soil)		SL-LP (soil-leach procedure)		SL		SL-LP (soil-leach procedure)		SL		SL-LP (soil-leach procedure)		SL	
Depth in feet	6-8		6-8		10-12				13-15				NA	
Subarea	T		T		T		T		T		T		T	
Acetone	0.013	U	-	-	0.01	U	-	-	0.11	X	-	-	0.0078	JB
2-Butanone	0.01	U	-	-	0.01	U	-	-	0.023	X	-	-	0.01	U
Chloroform	0.01	U	-	-	0.01	U	-	-	0.01	U	-	-	0.0032	J
Trichloroethene	0.01	U	-	-	0.01	U	-	-	0.01	U	-	-	0.01	U
Tetrachloroethene	0.01	U	-	-	0.01	U	-	-	0.01	U	-	-	0.01	U
Ethylbenzene	0.01	U	-	-	0.01	U	-	-	0.01	U	-	-	0.01	U
Xylenes (total)	0.01	U	-	-	0.01	U	-	-	0.01	U	-	-	0.01	U
Styrene	0.01	U	-	-	0.01	U	-	-	0.01	U	-	-	0.01	U
Tetrachloro-m-xylene	-	-	-	-	0.013	X	-	-	0.012	X	-	-	-	-
Decachlorobiphenyl			-	-	0.021	X	-	-	0.019	X	-	-	-	-
Arsenic	0.28	X	0.005	U	1.	U	0.005	U	1	U	0.005	U	0.005	U
Barium	40	X	0.5	U	41	X	0.5	U	27	X	0.5	U	0.5	U
Cadmium	0.2	U	0.01	U	0.2	U	0.01	U	0.24	X	0.01	U	0.01	U
Chromium	14.	X	0.04	U	8.4	X	0.04	U	9.6	X	0.04	U	0.04	U
Lead	1.6	X	0.06	U	2	X	0.6	U	5.4	X	0.6	U	0.06	U
Silver	0.8	X	0.03	U	0.6	U	0.03	U	0.6	U	0.03	U	0.03	U
Beryllium	0.62	X	0.02	U	0.4	U	0.02	U	0.4	U	0.02	U	0.02	U
Cobalt	7.6	X	0.1	U	4	X	0.1	U	4.2	X	0.1	U	0.1	U
Copper	78	X	0.02	U	32.	X	0.02	U	24.	X	0.02	U	0.02	U
Nickel	9.6	X	0.03	U	7	X	0.3	U	7.2	X	0.3	U	0.03	U
Vanadium	20	U	1.	U	20	U	1	U	20.	U	1	U	1	U
Zinc	29.	X	0.065	X	21.	X	0.039	X	46	X	0.027	X	0.01	U

Legend:

* As hexavalent chromium

** Maximum concentration for toxicity characteristic

Notes:

1. This table is a reproduction of an original developed during preparation of the RFI report for the former Envirite facility located in Thomaston, Connecticut.
2. Only detected compounds are shown; a complete list of analyses is available in the appendices accompanying the original RFI submittal.

TABLE 4
SUMMARY OF CONFIRMATION AND DISPOSAL ANALYSES
UST REMOVALS
Former Envirite Facility
Thomaston, Connecticut

	ADOPTED STANDARD	BACKFILL MATERIAL				
		BACKFILL				
	Most Stringent Site-Specific Remediation Standard (taken from the UST Work Plan, Tables 1 & 2)	Backfill Soil A, Sample No. 9605880, Date: 10/24/96	Backfill Soil B, Sample No. 9605881, Date: 10/24/96	West UST Composite, 0-5 ftg. Sample #9605882, Date: 10/31/96	West UST Composite, >5 ftg. Sample #9605883, Date: 11/01/96	East UST Composite, 0-5 ftg. Sample #9605892, Date: 11/01/96
MASS ANALYSES						
Volatile Organics, Method 8260, ug/kg						
Acetone	8,000.	2.6	1.5	3.4	5.2	1.8
Bromomethane	100.					
Chloroform	300.					
Chloromethane	6.6					
cis-1,2-Dichloroethene	200.					
MEK	80,000.		2.			
Methylene Chloride	10.	3.9	4.3	2.8	6.5	2.9
Tetrachloroethylene	40.					1.4
Trichloroethylene	20.					
Vinyl Chloride	10.					
Xylene	19,500.					
Semi-Volatiles, Method 8270, ug/kg						
2-Methylnaphthalene	NL.					49.
Acenaphthene	84,000.					28.
Anthracene	400,000.			8.6	8.6	49.
Benzo(a)pyrene	1,000.			86.	57.	300.
Benzo(b)fluoranthene	1,000.			63.	58.	170.
Benzo(k)fluoranthene	1,000.			47.	63.	180.
Bis(2-ethylhexyl)phthalate	11,000.	37.	21.	30.	39.	59.
Butyl benzylphthalate	68,000.					
Di-n-butylphthalate	140,000.	310.	460.	390.	3,400.	320.
Dibenzofuran	120,000.					31.
Diethylphthalate	110,000.					
Fluoranthene	56,000.			96.	100.	440.
Fluorene	56,000.					33.
Naphthalene	30,000.					14.
Phenanthrene	40,000.			47.	47.	270.
Pyrene	40,000.			60.	82.	270.

	REMEDIAL CONFIRMATION SAMPLES				
	WEST UST AND EAST UST				
	West UST Composite, Sidewalls, Sample #9605885, Date: 11/01/96	West UST Composite, Bottom, Sample #9605884, Date: 11/01/96	East UST Composite, Sidewalls, Sample #9605893, Date: 11/01/96	East UST Bottom, Grab Sample (G-1) #9605895, Date: 11/01/96	East UST Bottom, Grab Sample (G-2) #9605896, Date: 11/01/96
MASS ANALYSES					
Volatile Organics, Method 8260, ug/kg					
Acetone	1.6	2.6	2.8	36.	80.
Bromomethane					
Chloroform					
Chloromethane					
cis-1,2-Dichloroethene					
MEK				10.	24.
Methylene Chloride	3.3	6.3	4.1	5.4	6.4
Tetrachloroethylene					3.5
Trichloroethylene					
Vinyl Chloride					
Xylene					
Semi-Volatiles, Method 8270, ug/kg					
2-Methylnaphthalene	340.				
Acenaphthene	180.				
Anthracene	170.			12.	10.
Benzo(a)pyrene	230.			52.	32.
Benzo(b)fluoranthene	140.			64.	65.
Benzo(k)fluoranthene	150.			54.	69.
Bis(2-ethylhexyl)phthalate	33.	130.	36.	21.	230.
Butyl benzylphthalate		190.		290.	
Di-n-butylphthalate	530.	3,000.	280.		530.
Dibenzofuran	190.				
Diethylphthalate	49.				
Fluoranthene	630.	13.	11.	100.	110.
Fluorene	210.				
Naphthalene	85.				
Phenanthrene	790.			68.	56.
Pyrene	330.	13.	22.	95.	110.

	OFF-SITE DISPOSAL SAMPLES							
	WEST UST			EAST UST				
	West UST Sludge, Sample #9605886, Date: 10/31/96	West UST Liquid, Sample # 9603408, Date: 07/01/96	West UST Roll-off Composite, Sample #9700039, Date: 01/03/97	East UST Contents, Sample #9606146, Date: 11/12/96	East UST Roll-off Compholite, Sample #9605894, Date: 11/01/96	East UST Soil Pile Composite, Sample #9606149, Date: 11/12/96	East Overdig Bottom, North, Sample # 9606147, Date: 11/12/96	East Overdig Bottom, South, Sample # 9606148, Date: 11/12/96
MASS ANALYSES								
Volatile Organics, Method 8260, ug/kg								
Acetone						8.1	100.	100.
Bromomethane						3.1	1.2	1.8
Chloroform						1.5		1.4
Chloromethane						1.4		
cis-1,2-Dichloroethene							1.	
MEK							21.	18.
Methylene Chloride						8.9	**14.**	8.7
Tetrachloroethylene				**2,100.**			1.2	1.5
Trichloroethylene			**38.**	**93.**				
Vinyl Chloride			**160.**					
Xylene			28.					
Semi-Volatiles, Method 8270, ug/kg								
2-Methylnaphthalene								
Acenaphthene								
Anthracene								
Benzo(a)pyrene								
Benzo(b)fluoranthene								
Benzo(k)fluoranthene								
Bis(2-ethylhexyl)phthalate								
Butyl benzylphthalate								
Di-n-butylphthalate								
Dibenzofuran								
Diethylphthalate								
Fluoranthene								
Fluorene								
Naphthalene								
Phenanthrene								
Pyrene								

	QA/QC SAMPLES		
	West UST Field Blank, Sample #9605898, Date: 11/01/96	East UST Field Blank, Sample #9605897, Date: 11/01/96	Trip Blank, Sample # 9605899, Date: 11/01/96
MASS ANALYSES			
Volatile Organics, Method 8260, ug/kg			
Acetone	8.3	14.	4.4
Bromomethane			
Chloroform			
Chloromethane			
cis-1,2-Dichloroethene			
MEK			
Methylene Chloride	1.4	1.4	
Tetrachloroethylene			
Trichloroethylene			
Vinyl Chloride			
Xylene			
Semi-Volatiles, Method 8270, ug/kg			
2-Methylnaphthalene			
Acenaphthene			
Anthracene			
Benzo(a)pyrene			
Benzo(b)fluoranthene			
Benzo(k)fluoranthene			
Bis(2-ethylhexyl)phthalate		1.1	
Butyl benzylphthalate			
Di-n-butylphthalate	1.2	1.1	
Dibenzofuran			
Diethylphthalate			
Fluoranthene			
Fluorene			
Naphthalene			
Phenanthrene			
Pyrene			

TABLE 4
SUMMARY OF CONFIRMATION AND DISPOSAL ANALYSES
UST REMOVALS
Former Envirite Facility
Thomaston, Connecticut

	ADOPTED STANDARD	BACKFILL MATERIAL				
		BACKFILL				
	Most Stringent Site-Specific Remediation Standard (taken from the UST Work Plan, Tables 1 & 2)	Backfill Soil A, Sample No. 9605880, Date: 10/24/96	Backfill Soil B, Sample No. 9605881, Date: 10/24/96	West UST Composite, 0-5 ftbg, Sample #9605882, Date: 10/31/96	West UST Composite, >5 ftbg, Sample #9605883, Date: 11/01/96	East UST Composite, 0-5 ftbg, Sample #9605892, Date: 11/01/96
Metals, Method SW-846-3050, mg/kg						
Beryllium	2.				0.42	0.64
Cadmium	6.			0.74	0.44	0.46
Chromium *(standard is for hexavalent state)*	19.	3.4	4.2	**30.**	**28.**	**29.**
Cobalt	120,000.	3.4	3.4	4.4	4.8	4.4
Copper	76,000.	9	10	87	64	76
Lead	400.			18	10	11
Nickel	21.	5.4	6	17	15	17
Silver	10,000.			1.2	1.2	1
Zinc	42,000.		10	44	42	69
Sulfide	NL				19	
pH	-					
TCLP ANALYSES						
Leachable Metals, Method 3050, mg/l						
Antimony	0.06					0.0067
Arsenic	0.5					
Cadmium	0.05					
Chromium	0.5					
Lead	0.15					
Mercury	0.02					
Silver	0.36					
Leachate Volatile Organic Compounds, Method 1311, mg/l						
Tetrachloroethylene	0.7					
Trichloroethylene	0.5					

	REMEDIAL CONFIRMATION SAMPLES				
	WEST UST AND EAST UST				
	West UST Composite, Sidewalls, Sample #9605885, Date: 11/01/96	West UST Composite, Bottom, Sample #9605884, Date: 11/01/96	East UST Composite, Sidewalls, Sample #9605893, Date: 11/01/96	East UST Bottom, Grab Sample (G-1) #9605895, Date: 11/01/96	East UST Bottom, Grab Sample (G-2) #9605896, Date: 11/01/96
Metals, Method SW-846-3050, mg/kg					
Beryllium		0.42		0.46	0.62
Cadmium	0.28	0.2		0.22	0.32
Chromium *(standard is for hexavalent state)*	**19.**	14	10	17	**22.**
Cobalt	4.6	4.2	3.2	3	3.2
Copper	46	49	29	56	99
Lead	5.4	3	2	6	11
Nickel	13	11	8.2	8.8	11
Silver					
Zinc	38	31	25	48	60
Sulfide				37	
pH					
TCLP ANALYSES					
Leachable Metals, Method 3050, mg/l					
Antimony					
Arsenic					
Cadmium					
Chromium					
Lead					
Mercury					
Silver					
Leachate Volatile Organic Compounds, Method 1311, mg/l					
Tetrachloroethylene					
Trichloroethylene					

	OFF-SITE DISPOSAL SAMPLES							
	WEST UST			EAST UST				
	West UST Sludge, Sample #9605886, Date: 10/31/96	West UST Liquid, Sample # 9603408, Date: 07/01/96	West UST Roll-off Composite, Sample #9700039, Date: 01/03/97	East UST Contents, Sample #9606146, Date: 11/12/96	East UST Roll-off Compholsite, Sample #9605894, Date: 11/01/96	East UST Soil Pile Composite, Sample #9606149, Date: 11/12/96	East Overdig Bottom, North, Sample # 9606147, Date: 11/12/96	East Overdig Bottom, South, Sample # 9606148, Date: 11/12/96
Metals, Method SW-846-3050, mg/kg								
Beryllium								
Cadmium								
Chromium *(standard is for hexavalent state)*								
Cobalt								
Copper								
Lead								
Nickel								
Silver								
Zinc								
Sulfide								
pH		1.3	2.2		5.5			
TCLP ANALYSES								
Leachable Metals, Method 3050, mg/l								
Antimony								
Arsenic		**0.63**						
Cadmium	**0.11**	**13.**			**0.12**			
Chromium	**3.6**	**920.**						
Lead	**46.**	**39.**			**0.22**			
Mercury		**0.26**						
Silver	0.06	**1.1**						
Leachate Volatile Organic Compounds, Method 1311, mg/l								
Tetrachloroethylene		0.16	0.018	**0.9**	0.04			
Trichloroethylene		**1.3**	0.0059					

	QA/QC SAMPLES		
	West UST Field Blank, Sample #9605898, Date: 11/01/96	East UST Field Blank, Sample #9605897, Date: 11/01/96	Trip Blank, Sample # 9605899, Date: 11/01/96
Metals, Method SW-846-3050, mg/kg			
Beryllium			
Cadmium			
Chromium *(standard is for hexavalent state)*			
Cobalt			
Copper			
Lead			
Nickel			
Silver			
Zinc			
Sulfide			
pH			
TCLP ANALYSES			
Leachable Metals, Method 3050, mg/l			
Antimony			
Arsenic			
Cadmium			
Chromium			
Lead			
Mercury			
Silver			
Leachate Volatile Organic Compounds, Method 1311, mg/l			
Tetrachloroethylene			
Trichloroethylene			

Legend:
* As hexavalent chromium

Notes:
1. This table is a reproduction of an original as developed by Envirite Corporation.
2. Only detected compounds are shown. Acomplete list of analyses and results in provided in Appendix C of this report.
3. Exceedences of the Site standards (Table 1) are in bold and are shaded.

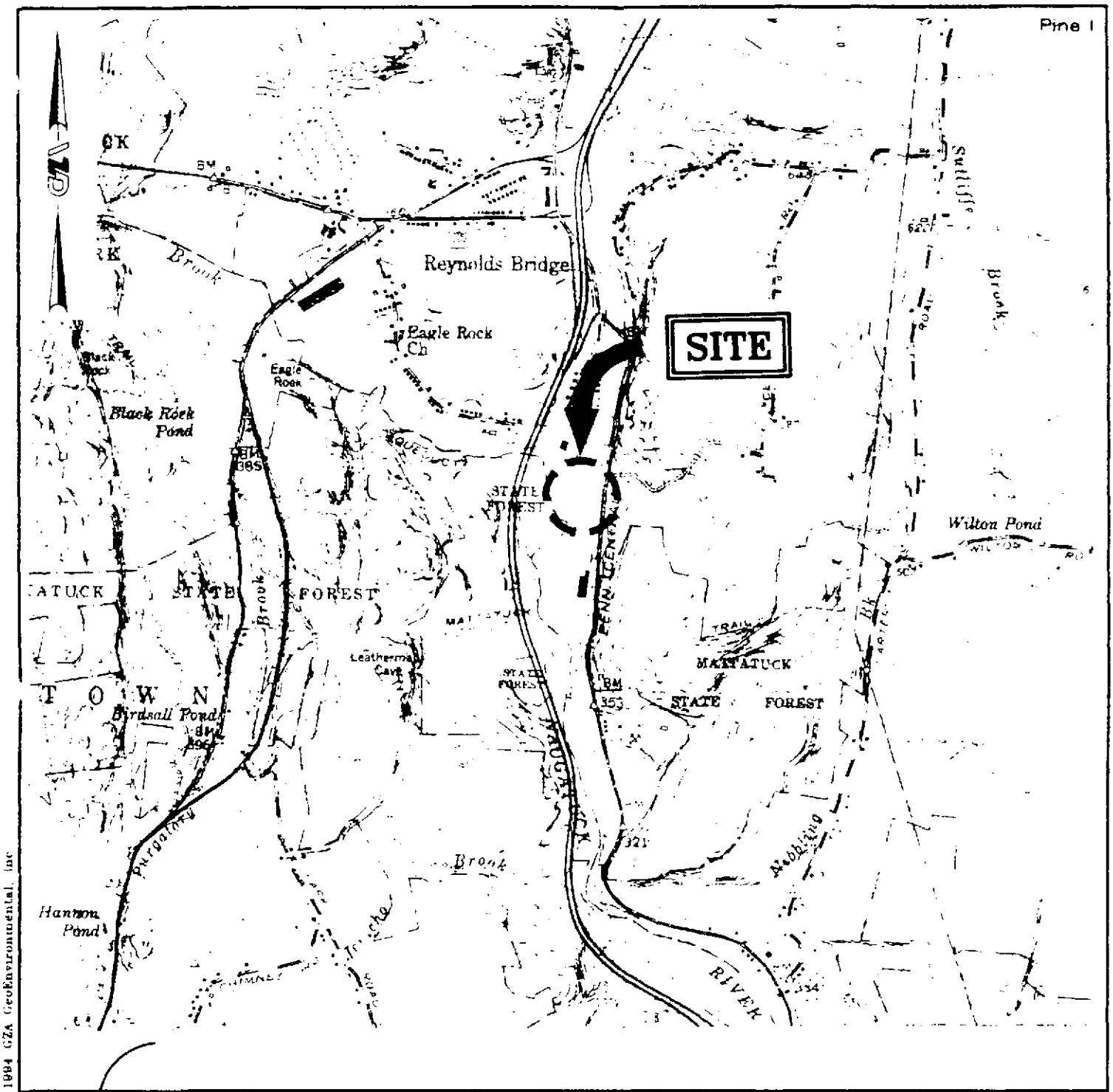
TABLE 5
SUMMARY OF SAMPLE LOCATION AND DISPOSITION OF EXCAVATED MATERIALS FROM WEST AND EAST UST
Former Envirite Facility
Thomaston, Connecticut

Sample Universe/Location	Sample #	Disposition of Sampled Universe		Comments
		Used as Backfill	Off-site Disposal	
West UST liquid	9603408	no	yes	The receiving facility's analysis is shown on Customer Evaluation Sheet for waste ID # C4237 in the Appendix .
Backfill Soil A (bank-run gravel)	9605880	yes	no	Purchased from an off-site source
Backfill Soil B (bank-run gravel)	9605881	yes	no	Purchased from an off-site source
West UST composite, 0-5 fbg	9605882	yes	no	
West UST composite, > 5 fbg	9605883	yes	no	
West UST composite, grave bottom	9605884	not applicable	not applicable	Left undisturbed after sample collection
West UST composite, side walls	9605885	not applicable	not applicable	Left undisturbed after sample collection
West UST sludge	9605886	no	yes	Also, see analysis for sample # 9700039.
West UST field blank	9605889	not applicable	not applicable	
West UST roll-off composite	9700039	no	yes	Also, see analysis for sample # 9605886.
East UST composite, 0-5 fbg	9605892	yes	no	
East UST composite, > 5 fbg	not applicable	no	yes	See analysis for East UST roll-off composite (sample #9605894).
East UST composite, side walls	9605893	———	yes, partly	Excavation was widened on 11/12/96. Material disposed off-site.
East UST roll-off composite	9605894	no	yes	
East UST bottom, grab G1	9505895	no	yes	
East UST bottom, grab G2	9605896	no	yes	
East UST field blank	9605897	not applicable	not applicable	
East UST black soil	9606084	no	yes	Disposed off-site with other material from the east UST.
East UST overdig bottom, north	9606147	no	yes	Disposed off-site with other material from the east UST.
East UST overdig bottom, south	9606148	no	yes	Disposed off-site with other material from the east UST
East UST soil composite	9606149	no	yes	
Trip blank	9605899	not applicable	not applicable	
Performance Evaluation (PE) samples	9605900	not applicable	not applicable	

NOTES:

1. This table is a reproduction of an original prepared by Envirite Corporation.

FIGURES



SCALE IN FEET
1"=2000'

0' 1000' 2000' 4000'

SOURCE: U.S.G.S. THOMASTON, CT QUADRANGLE MAP (1969)

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GZA

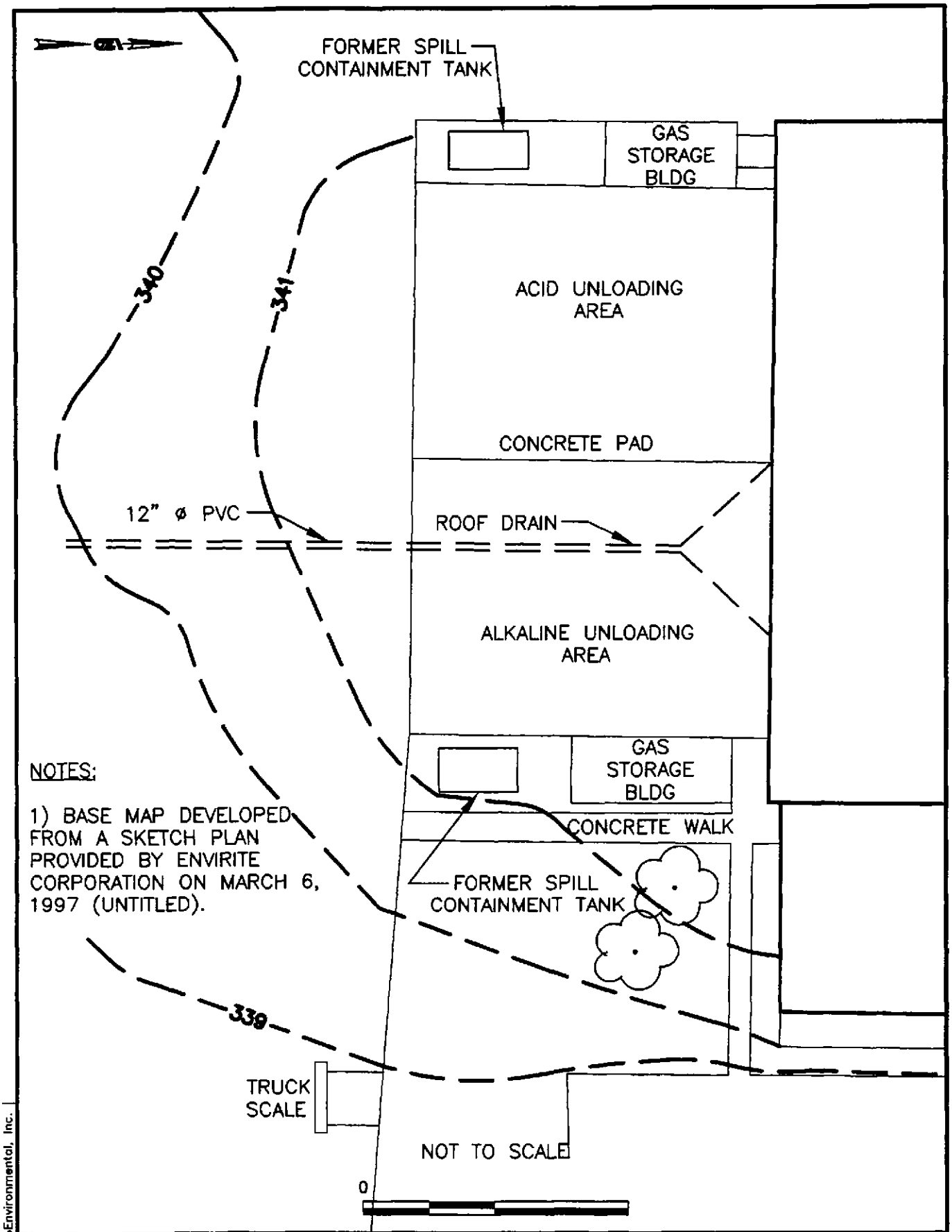
R.C.R.A. MONITORING

ENVIRITE CORPORATION
THOMASTON, CONNECTICUT

LOCUS PLAN

AUGUST, 1994

FIGURE NO. 1



NOTES:

1) BASE MAP DEVELOPED FROM A SKETCH PLAN PROVIDED BY ENVIRITE CORPORATION ON MARCH 6, 1997 (UNTITLED).

GZA	**ENVIRITE** THOMASTON, CONNECTICUT	**SITE AREA DETAIL** MAY 12, 1997 FIGURE NO. 2

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APPENDIX A

LIMITATIONS

1. The conclusions and recommendations contained in this report are based upon our examination of field reports, interviews with those present at the site during tank removals, and our review of various types of chemical data and are contingent upon their validity. GZA was not present at the site during the work described herein.

APPENDIX B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION I
JOHN F. KENNEDY FEDERAL BUILDING
BOSTON, MASSACHUSETTS 02203-0001

July 29, 1996

Mr. William R. McTigue, Jr.
Director, Environmental Affairs
Envirite Corporation
620 West Germantown Pike
Plymouth Meeting, PA 19462

RECEIVED 8/1/96
WRM

Re: Approval of UST Removal Workplan
Envirite Facility
Thomaston, CT
RCRA Docket No. I-90-1032

Dear Mr. McTigue:

The United States Environmental Protection Agency (EPA) hereby approves your workplan for the removal of the two (2) underground storage tanks (UST), entitled Workplan: Excavation and Removal of Underground Spill Containment Tanks (UST workplan), Envirite Corporation, Thomaston, Connecticut, dated July 1996.

The removal of the USTs are to be conducted as Phase II interim measures (IM) as set forth in EPA's April 25, 1996 final comments (final comments) regarding your RCRA Facility Investigation Phase I Interim Report and Phase II Proposal (Phase I Interim RFI Report).

As set forth in your UST workplan, Envirite shall notify EPA at least one week in advance of the commencement of activities associated with these UST removals. With receipt of this letter, Envirite shall submit brief monthly progress reports to EPA pursuant to Section I(E)(2) of Attachment IV of the Consent Order which shall set forth the status of any and all activities associated with your Consent Order.

If you have any questions with respect to this approval, please contact Raphael J. Cody at 617/573-5769.

Sincerely,

Matthew R. Hoagland
Chief, Corrective Action
Office of Site Remediation and Restoration

cc: Joshua Secunda, EPA
Thomas J. Mueller, P.E., for the Town of Thomaston

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ENVIRITE CORPORATION
TECHNOLOGY FOR THE ENVIRONMENT

September 5, 1996

Mr. Raphael J. Cody
U.S. Environmental Protection Agency
Office of Site Remediation & Site Restoration
Corrective Action Section -HBT
J.F.K. Federal Building
Boston, MA 02203-0001

Re; Underground Storage Tank (UST) Removal Workplan: Revised Document; RCRA Docket I-90-1032

Dear Mr. Cody,

In correspondence to you last week I provided supplemental information relating to Envirite's UST workplan. In particular, I advised you that Envirite discovered that the west UST contains an acidic liquid (rather than sand, as previously thought) and that Envirite will use Connecticut's Industrial/Commercial Direct Exposure to Soil Criteria in addition to the other two remediation standards mentioned in the workplan. In the interest of assuring that the administrative record reflects this supplemental information as clearly as possible, I hereby provide you with a revised version of the workplan, which shows all changes made to reflect the supplemental information.

Revisions are shown on the following pages of the revised workplan: 7, 9, 12 13, 15, and Appendix B. Appendix C, which contains the analytical results relating to the west UST's contents is new. Obsolete language in the original workplan is marked with a strikethrough line (e.g. ~~strikethrough~~). New verbiage is indicated by typeface in small caps (e.g. SMALL CAPS). Please note that each numbered page of the revised workplan contains a footer showing a revision date of "Sept. 5, 1996."

Should you have any questions, please do not hesitate to contact either John Krupa at (860) 274-3789 or me at (610) 828-8655.

Thank you for your attention in this matter.

Very truly yours,

William R. McTigue Jr.

William R. McTigue, Jr.
Director, Environmental Affairs

cc: C. Brammer D. Duva, T. Griffith, F. Marrazza, T. McCrum, T. Mueller

620 WEST GERMANTOWN PIKE SUITE 250 PLYMOUTH MEETING, PA 19462 PHONE (610) 828-8655 FAX (610) 828-8406

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Workplan

Excavation and Removal of Underground Spill Containment Tanks

Envirite Corporation
Thomaston, Connecticut

Docket No. I-90-1032

Amended Through September 5, 1996

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APPENDIX A:
- UST Soil Boring Logs
- Table 9-13 from RFI Phase I Interim Report
- Analytical Data for Samples T-1, T-2, T-5, and T-6

APPENDIX B: •Derivation of Tables 1 and 2
- Table 1 - Comparing Soil Constituent Concentrations to Applicable Clean-Up Standards
- Table 2 - Additional Parameters for Toxicity Characteristic Determination

APPENDIX C: West UST's Constituent Concentraions

Envirite Corporation
Thomaston, Connecticut

RCRA Facility Investigation, Docket No. I-90-1032

Statement of Work for Removal of USTs

PREFACE

This Statement of Work (work plan) sets forth the objectives and other relevant details concerning the removal of two underground storage tanks (USTs) from Envirite's site located in Thomaston CT. The site is the subject of a RCRA corrective action, as explained in EPA's November 13, 1990 correspondence addressed to Envirite. The letter includes as an attachment a Consent Order between EPA and Envirite, which was fully executed on November 8, 1990. A requirement of the Consent Order is that Envirite prepare an RFI Phase I Interim Report.

In its letter to Envirite dated April 25, 1996 EPA provides final comments regarding Envirite's RFI Phase I Interim Report (RFI Interim Report). In this letter EPA sets forth a schedule of activities that must next be completed. One set of these scheduled activities is described as Interim Measures (IM) involving the removal of two obsolete underground storage tanks.

Consistent with the schedule and comments in EPA's April 25, 1996 letter, this work plan describes the methods that Envirite will implement to assure that the tank removal activities achieve the IM objectives.

I. OBJECTIVES

This workplan's objectives are as follows:

- to excavate and remove two USTs;
- to collect representative samples of the USTs' contents and surrounding soils;
- to provide for chemical constituent analysis of such samples;
- to compare analytical results to applicable federal and state cleanup standards and, if appropriate, waste disposal regulations; and
- to assure that all materials relating to the excavations are managed in conformance with federal and state cleanup standards and, if appropriate, applicable waste disposal requirements.

II. ADMINISTRATIVE NOTES

The tank removals will be conducted as Phase II work activities as described in the Consent Order, due to their investigatory nature and their potential impact on completion of the final Public Health and Environmental Risk Evaluation (PHERE). Information obtained from the tank removal operations will be summarized in the "Interim Measures" section of the supplement to the RFI Phase I Interim Report. All information concerning the removal activities will conform with the administrative and specific data requirements of the Consent Order.

Each tank is considered a separate Area of Concern (AOC). Since the tanks' removal requires independent excavations, each AOC will be deemed a separate Interim Measure (IM).

The Consent Order specifies that each IM requires its own performance and reporting standards. As indicated in the Agency's April 25, 1996 final comments, each IM can be addressed within a single IM section of the RFI Supplement. The specific performance standards for each IM address tank removal, sampling and analysis of soils and tank contents, comparison of analytical data to applicable cleanup and/or waste disposal requirements, and appropriate disposition of all excavated materials.

III. CHARACTERIZATION OF THE UST SETTING

The two underground tanks were installed when the processing building was constructed in 1975. They flank the east and west perimeters of the processing building's unloading area, which is adjacent to the building's south wall. The UST locations are depicted on Figure 1 and Figure 2 of this work plan.

The purpose of the tanks was to supplement the spill collection capacity of the unloading area, which was used for receiving cargo tanks containing hazardous waste. These USTs were installed for the purpose of collecting liquid from any chemical spillage and precipitation that contacted the pads. The tanks were not used to store any type of product.

Each tank is constructed of fiberglass reinforced plastic (FRP). It is estimated that each tank's diameter is six feet and its height is five feet, yielding a capacity of approximately one-thousand and fifty gallons.[1] The tanks' tops are approximately five feet below grade. It is believed that each tank is vertically placed, which means that each tank bottom is approximately ten feet below grade.

Each tank received precipitation in the form of stormwater from the designated unloading area. These unloading areas are comprised of eight-inch thick concrete, coated with an impervious, chemical resistant coating. The surface of the two unloading areas was pitched toward the center and drained into a 4-inch, schedule 40 PVC pipe which traversed beneath the unloading area and entered a "T" connection mounted in the UST's top. The liquid flowed through the pipe and into the tank by gravity. The alkaline pad was piped to the east UST, while the acid pad was piped to the west UST. Reportedly, liquid from each UST was evacuated regularly by facility personnel. A pipe was connected to the other end of the "T" connection in the tank's top. It extended southward approximately fifty feet underground and emptied into a dry well. (See section 8.1.3, Table 9-7 and Table 9-8 in Volume I of the RFI Interim Report for a summary of the investigatory findings relating to the dry well that served each tank.)

Each tank is in an unpaved area that is approximately twenty-three feet long and ten feet wide. The tank areas begin near the middle of the unloading area's fifty foot side line and extend approximately twenty-three feet southward (i.e., away from the building). The area surrounding each UST is paved with either asphalt or concrete. The unloading area extends southward fifty feet beyond the processing building's south wall and is approximately 80 feet wide.

The bottom wall (or floor) of each tank installation is native soil and is relatively close to groundwater. Measurements taken at MW-51D during the months of April, October, and December, 1994 indicate a depth-to-groundwater range of 15.35 to 16.14 feet, as reported in the RFI Interim Report. Measurements of MW-51D taken during the previous year indicate groundwater depth within a range of fourteen to twenty feet. The entry to MW-51D is at approximately the same elevation (within one foot or so) of the top of each UST area. This information indicates that each tank's bottom could be as close as three to four feet above groundwater.

---

[1] Volume I, Section 8.1.2 of Envirite's RFI Interim Report dated March, 1995 estimates each tank's volume to be approximately 500 gallons. In preparing this workplan Envirite has discovered a sketch indicating that each tank's volume is approximately 1,050 gallons.

Around 1980 part of the unloading area was reconstructed to cause liquid to flow toward the processing building. During construction, part of the pad was demolished, and the exposed portion of each USTs inlet pipe was crushed in place. Pipes connecting the unloading area to the processing building's secondary containment systems were installed. The area was re-paved with concrete. ~~Concurrently, remaining liquid in each UST was removed.~~

In 1990, after the facility stopped receiving waste from off-site, the depressed areas of the acid and alkaline pads were backfilled and then capped with asphalt paving to prevent stormwater from draining toward and into the building; hence, the unloading area was made level.

In 1994, the paving and fill material were removed from the acid unloading pad to restore the pad as a sump. An acid-resistant coating was then applied to it. The acid pad once again drains into a secondary containment system inside the processing building. The alkaline pad remains paved and level.

Prior to the RFI Interim Report there was some uncertainty as to the exact orientation of the tanks. Therefore, a back-hoe was used during the RFI Phase I sampling program to excavate the east UST area. Excavation at the east tank revealed that, at some time in the past, the tank had been crushed in place, and that the excavation had been back-filled with soil. The west tank appears to have been filled with sand and left in place. Adjacent soils are sand-like in consistency with gravel dispersed throughout. Soils near the bottom of the tanks are of a denser consistency.

WHEN CONDUCTING QUARTERLY GROUNDWATER SAMPLING ONSITE ON JULY 1, 1996 THE WEST UST WAS SAMPLED VIA A PIPE PROTRUDING ABOVE GROUND LEVEL. IT WAS DISCOVERED THAT THE TANK APPARENTLY HAD NOT BEEN FILLED WITH SAND, BUT RATHER IT WAS FULL OF LIQUID. LAB ANALYSIS OF THE LIQUID SAMPLE INDICATES THAT THE MATERIAL IS ACIDIC. ADDITIONAL DETAILS ARE CONTAINED IN THE ANALYTICAL REPORT PRESENTED IN APPENDIX C OF THIS PLAN.

There are no underground or above ground utilities or appurtenances in the immediate vicinity of the USTs, nor are there any groundwater monitoring wells or power lines in the immediate area of the proposed excavations.

On May 10, 1996 Envirite sold the portion of the site on which the USTs, processing building and all surrounding paved areas are located. This portion of the site — a total of one and nine-tenths acres — was purchased by Pure-Etch Company of Connecticut. According to the sale agreement, Pure-Etch is required to provide reasonable access to allow implementation of activities initiated in response to the Consent Order.

IV. SAMPLING PLAN

This sampling plan is applicable to each UST. It identifies the general locations for sample collection, and it describes the approach for determining whether individual or composite samples are to be submitted to the laboratory for analysis.[2]

Observations and analytical data generated from past sampling events and also visual observation of the tanks and vicinal soils during the prospective tank removal activities are both important factors in this plan's implementation. The extent of any soil contamination in each tank may be largely dependent upon these four factors: 1) tank's contents; 2) physical condition of tank and appurtenances; 3) proximity of soils to tank's exterior surfaces; and 4) types of soils and extent of soil stratification in each area. These factors will be considered when collecting samples. Accordingly, field personnel will maintain detailed notes, particularly concerning soil appearance, tank integrity, and other relevant observations which may yield information as to potential soil contamination.

Soil samples will be collected, and sampling devices will be decontaminated, in conformance with sampling protocols specified in chapters 9 and 10 of EPA Publication SW-846, third edition ("Test Methods for Evaluating Solid Waste, Physical/Chemical Methods").

A. Results of Previous Sampling Activities

As shown below, six soil samples were previously collected and analyzed from the two AOCs during Phase I RFI activities.

Sample Date	Sample Location
Nov. 16, 1994	T-3 (east tank)
Nov. 16, 1994	T-4 (east tank)
Feb. 8, 1995	T-1 (west tank)
Feb. 8, 1995	T-2 (west tank)
Feb. 8, 1995	T-5 (east tank)
Feb. 8, 1995	T-6 (east tank)

The primary purpose of these sampling events was to investigate and quantify constituents in the soils surrounding the USTs. Other than providing general background, the analytical results obtained from the sampling may be used in development of a project management plan for excavated tank soils as described in Section IV and VII of this workplan.

Copies of laboratory summaries and boring logs relating to the collection and analysis of samples T-1 through T-6 are provided in Appendix A of this workplan.

[2] As stated in Section II of this plan, each tank is considered a separate AOC and a distinct and separate IM. Therefore, samples collected from the east tank area will not be combined with samples collected from west tank area, and vice versa.

IV. SAMPLING PLAN (cont'd)

B. Site-Specific Parameter List and Clean-Up Options

Analysis of the samples collected during Phase I investigation activities targeted a specific set of parameters, generally referenced as the "site-specific parameter list." The list is comprised of 132 compounds and is attached to this workplan as Table 1 of Appendix B. A more detailed explanation as to the derivation of the table is provided at the beginning of Appendix B. Table 1 also includes the clean-up standards that will be used in evaluating the disposition of the excavated soils. These clean-up standards will be to meet the State of Connecticut GB Mobility Criteria for Soils ~~and~~ the U.S.EPA Risk-Based Concentration Table - July - December, 1995, AND STATE OF CONNECTICUT INDUSTRIAL/COMMERCIAL CRITERIA FOR DIRECT EXPOSURE TO SOIL.[3]

Some, but not all, samples that will be collected during the IM will be analyzed to determine the presence of any parameters identified on the site-specific parameter list. Analytical results for these samples will be compared to applicable cleanup standards. Also included in Appendix B is Table 2 which lists additional TC compounds (not included in Table 1) that will be analyzed, as necessary, for the purpose of waste characterization.

Under this statement of work Envirite does not plan to remove soils at a depth greater than thirteen feet below grade, unless visual observations and field screening techniques indicate the presence of additional contaminants. If Envirite suspects additional contamination, it will determine the efficacy of removing additional soil at that time. Also, Envirite does not intend to remove concrete or asphalt paving in the area surrounding the tanks. The foregoing widths and depths will be projected using best engineering judgment where there is evidence that a portion of a tank has deteriorated or collapsed.

[3] For federal cleanup standards: "Risk-Based Concentration Table — July-December 1995" dated October 20, 1995 and written by Roy L. Smith, Ph.D., Office of RCRA, Technical & Program Support Branch, U.S. Environmental Protection Agency, Region III. For state cleanup standards: GB Soil Mobility Criteria AND INDUSTRIAL/COMMERCIAL DIRECT EXPOSURE CRITERIA as codified in The Regulations of Connecticut State Agencies, section 22a-133k-1 ET SEQ. For materials that must be disposed off-site, Envirite will comply with all applicable federal, and state regulations.

IV. SAMPLING PLAN (cont'd.)

C. Conditions Applicable to All Samples

This work plan requires that soil from various locations around the tank is sampled and that samples are collected from the tanks themselves. The following conditions apply to every sample that is collected in the field:

- Samples collected from one AOC will not be combined with samples taken from any other AOC.
- Samples shall be of such a mass or volume as to provide the laboratory with adequate sample for all required analyses and for archival purposes.
- Samples will be collected using a suitable device in a manner that takes into account environmental factors such as drying from exposure to sun and wind, etc.
- Samples will be screened in the field using a portable photoionization detector (PID) or flame ionization detector (FID). Sample results will be recorded in the field operative's notes.
- PID or FID field screening results will be noted on the chain of custody document that will accompany the sample containers to the lab.
- Samples submitted to the laboratory will be accompanied by notes indicating either the apparent absence or presence and extent of staining of the soil from which the sample was collected. The sample's color, physical state, and/or other descriptive features will be noted too.
- Material collected from each sampling location will be packaged in two separate containers: a two-hundred-and-fifty milliliter jar; and a one-hundred-and-twenty-five milliliter VOC jar. Sample material contained in the larger jar will be analyzed for site-specific parameters other than VOCs and/or the four hazardous waste characteristics other than VOCs. Samples from the VOC jar will be analyzed for VOCs. Upon receiving samples the lab will immediately prepare a composite sample, where applicable, from material in the 250 ml jar. This sample will be analyzed for all site-specific parameters other than VOCs and/or the four hazardous waste characteristics, including all constituents identified at 40 CFI 261.24 as being associated with the toxicity characteristic (TC).
- When filled, all containers will be labeled, packed in a cooler, and maintained at a temperature of approximately four degrees Celsius in accordance with standard laboratory and sampling practices.
- Upon receiving samples the lab will store the VOC jars in a refrigerator. Immediately before running the VOC analysis, the lab will when applicable, prepare a composite sample.
- Sampling will not be conducted prior to excavation for purposes of management of excavated soils as set forth in this workplan. This workplan establishes finite and discrete soil areas or "soil universes" in accordance with this managerial objective. Therefore, in accordance with the management of discrete "soil universes," a representative sample of any given soil universe for purposes of sampling will be based upon engineering estimates of the volume of soil removed from any "soil universe" with the exception of any soil which clearly exhibits contamination.

IV. SAMPLING PLAN (cont'd.)

D. 1. Sampling of Soil Between Grade and the Top of the Tank (0 - 5 fbg)

Each tank's top is estimated to be approximately five feet below grade (fbg). Accordingly, this section of the sampling plan separately addresses the soil between grade and approximately 5 fbg.[4]

Because it is unlikely that the soils above the tank could be impacted by any amount of tank leakage that may have occured, and since Envirite believes it to be prudent and reasonable to consider using these soils to backfill the excavation where possible, soils between grade and 5 fbg will be sampled separately from other soils in the excavation area. Furthermore, should it be necessary to ship this material off site, this soil layer would fill one highway transport vehicle. Therefore, for managerial purposes, this portion of soil is considered a discrete sampling universe.

Assuming that each excavation opening will be at least ten feet square, approximately eighteen cubic yards of material will be removed before a tank's top is exposed. A total of eight representative samples will be collected from the excavated soil. Each sample will be collected to assure that it represents the sampling universe. Thus, Envirite anticipates one sample will be collected for approximately every two and one-third cubic yards of soil removed from this portion of the AOC. Therefore, it is anticipated that there will be sixteen containers for this sampling universe — that is, sixteen containers relating to the east tank and sixteen containers representing the west tank — will be submitted to the laboratory.

To assure that the soil is properly represented, sampling will not be conducted prior to excavation. Instead, during the course of the excavation, the excavation contractor will observe the soil for any trait indicating potential contamination. If the excavating contractor or field personnel detects staining or some other soil contamination, then he shall assure that these soils are appropriately represented.

D.2. Sampling of Soil Surrounding the Tank (5 fbg and Below 5 fbg)

This section addresses the soil surrounding the tank's surface area. Because soils touch the surface of the tank, this soil will be sampled as a discrete sampling universe.

Excluding the volume occupied by the tank (approximately five cubic yards) and, assuming that a ten-foot square opening is maintained from the tank's top to thirteen fbg, the volume of soil in this sampling universe is approximately twenty-four cubic yards. Notably, soils showing evidence of contamination will not be a part of this universe; they will be managed as provided in footnote 4 below.

Unlike the soil above the tank, the soil in this part of the excavation is presumably more susceptible to being affected by a breach of the tank and its appurtenances. Therefore, field personnel will be instructed to carefully observe for conditions suggesting potential soil contamination. Soils showing no evidence of contamination must be sampled in a representative manner similar to the approach described in subsections C and D.1 of this workplan.

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[4] Soils that are visually impacted will be segregated for shipment off site. Contents of shiping containers will be appropriately sampled and analyzed.

The diameter of the tank is approximately six feet, and each tank's height is approximately five feet. Each tank bottom may as close as four feet above groundwater. Therefore, removal of soil from each tank area will be limited to a depth of thirteen fbg to avoid direct contact with groundwater, unless visual observations and field screening techniques indicate the presence of contaminants below thirteen feet. If contamination is suspected or observed below thirteen feet, Envirite will determine if additional soil removal is efficacious.

D.3. Soil from Excavation's Sidewalls

In each AOC (excavation) four sidewall samples will be collected. The purpose of sampling this soil is to evaluate the effectiveness of the IM in the targeted AOC and to assess the extent of possible soil contamination in the excavation's north, east, south, and west sidewalls.

As explained here, this workplan describes a sampling approach that differs slightly from the method described in section 10.2 of the RFI Interim Report. The Interim Report states that the sidewall sample locations will be along the tank's centerline. Envirite believes that visually observable soil staining in a given sidewall is the key criterion for selecting each sidewall sample. Absent visual staining, each sidewall sample will be collected along the tank's centerline, as described in section 10.2 of the Interim Report.

Each sidewall sample will be collected in such a manner as to represent possible soil contaminant concentrations. Envirite will decide at the time of excavation the appropriate lateral penetration of each sidewall sampling location. Envirite will base its decision upon the degree of soil staining in the targeted area.

For example, if there is no apparent staining, then a surficial sample along the tank's centerline will be collected. In such a case, soil will be scraped from the sidewall's surface, making reasonable efforts to not scrape soil beyond a one-inch depth, thus preventing possible dilution of contaminants by collecting too much soil. ~~On the other hand, if soil staining exists, then Envirite will visually determine the depth of such staining and will collect a sample extending to the stain's full depth.~~

In a case where soil staining on a sidewall is noted, the lab will produce analytical results pertaining to that particular sidewall. Samples which represent sidewalls exhibiting no obvious contamination will be composited. The laboratory will produce one data set for a composite sample.

D. 4. Soil from the Bottom of the Excavation

Two samples will be collected from the bottom of each tank excavation area after any apparently contaminated soil is removed from the excavation's bottom Visual soil staining — if it exists — will be the primary criterion for selecting sample locations for each of the two samples collected from the excavation's bottom. With respect to determining sample depths, the same rationale described above for sidewall sampling applies to sampling the bottom of the excavation.

If there is no observable staining or other evidence that may suggest contamination, then soil will be collected from the entire area on which the tank bottom rested. When sampling a non-stained area,

reasonable efforts will be made to assure that not more than one-inch of soil is scraped. Soils showing evidence of contamination will not be a part of this sampling universe; they will be managed as described in footnote 4 above.

D. 5. USTs' Contents

~~Any free liquid within each tank will be collected, and a sample will be drawn from this liquid~~. A LIQUID SAMPLE COLLECTED FROM ONE TANK SHALL NOT BE COMBINED WITH A LIQUID SAMPLE TAKEN FROM ANOTHER TANK. AS NOTED IN SECTION III ABOVE THE WEST UST WAS NOTED TO CONTAIN LIQUID AND A SAMPLE WAS TAKEN FROM THIS TANK ON JULY 1, 1996. RESULTS OF THE ANALYSIS ARE CONTAINED IN APPENDIX C OF THIS PLAN.

Similarly, non-liquid material (including sludge) will be collected from each tank. Commingling of east tank and west tank samples is prohibited. However, based on its judgment based on observations during field operations, Envirite may choose to combine a liquid sample(s) and non-liquid sample(s) taken from the same tank.

V. PURPOSE OF SAMPLING AND DATA QUALITY OBJECTIVES

The purpose of sampling will be to evaluate whether excavated and remaining soils exceed cleanup levels. If analytical results indicate that a cleanup level for any parameter has been exceeded, or should Envirite determine that the subject material will not be otherwise eligible for return to the excavation, then each respective sample will be analyzed to determine whether the soils exhibit any of the four hazardous waste characteristics per 40 CFR 261, Subpart C. Detection limits will be predicated on the ability to detect concentrations at the more stringent of either a state or federal clean-up standard as specified in Table 1, Appendix B of this work plan. Analytical methods will be selected based on the ability to achieve these detection limits. Methods 8260 and 8081 of EPA publication SW-846, third edition have been identified as the methods of choice for VOC analysis. Quality assurance samples will consist of one trip blank, one field blank, and one duplicate sample from the sample total.

EAS Laboratories of Watertown, CT will most likely perform the analytical work. EAS is State of Connecticut certified and employs QA/QC protocols necessary to produce data of sufficient quality. The EAS quality assurance manuals are available for review upon request. Sampling will be conducted by the qualified remediation contractor in accordance with the procedures detailed in the sampling plan at Section IV.

Note: In evaluating whether soils from the excavation exhibit the Toxicity Characteristic, Envirite will divide each total constituent concentration by 20 and then compare the resulting maximum theoretical leachate concentration to the appropriate regulatory limit "The dilution factor of 20 reflects the liquid to solid ratio employed in the extraction procedure."[5] Envirite will use this approach in the interest of both expediting decisions in the field concerning the disposition of excavated materials and eliminating unnecessary analytical costs.

A. Analysis of Soil Samples from Between Grade and the Top of the Tank (0-5 fbg)

Samples from this strata will be analyzed to determine whether any constituents from the Table 1 site-specific parameter list exceed a threshold level. In the event that constituents of concern are found to exceed the target cleanup levels, samples will be analyzed to determine whether the soils exhibit any of the four hazardous waste characteristics per 40 CFR 261, Subpart C. Envirite may choose to perform the hazardous waste characterization tests concurrently with analysis for the site specific parameters shown in the Table 1 of this plan.

B. Analysis of Samples of Soil Surrounding the Tank (5 fbg and Below 5 fbg)

As stated in the Sampling Plan, the extent of laboratory analysis of these samples will be dependent upon the integrity of the UST in the excavation area. The laboratory will consult the chains of custody and field notes to determine the extent to which the samples will be analyzed per the site-specific parameter list, or simply for hazardous waste characterization.

[5] This approach is described in a memo dated January 12, 1993 from Gail Hansen, Chief of Methods Section (OS-331), US EPA Headquarters. It is also explained in the RCRA/Superfund/OUST Monthly Hotline Report of January, 1994 and is referenced by EPA Report Number EPA/530-R-94-005A.

V. PURPOSE OF SAMPLING AND DATA QUALITY OBJECTIVES, Cont'd

C. Soil from Excavation's Sidewalls

Samples will be accompanied by documentation indicating any presence or extent of soil staining. In a case where soil staining on a sidewall is noted, the lab will produce analytical results pertaining to that particular sidewall. Samples which represent sidewalls exhibiting no obvious contamination will be composited. The laboratory will produce one data set for a composite sample. Sidewall samples will be analyzed for the site specific parameters only, barring evidence of staining; then a TCPL analysis will be run to evaluate off-site disposition.

D. Soil From the Bottom of the Excavation

The same approach described for sidewall sampling will apply to bottom wall sampling. A total of four containers per UST will be submitted to the laboratory for analysis of the site-specific parameters.

E. USTs' Contents Samples

Any free-liquid within each tank will be collected, and a sample will be drawn from this composite using an appropriate sampling device used for containerized liquid wastes (COLIWASA) in accordance with EPA Publication SW-846, third edition. Samples will be submitted to the laboratory for waste characterization.

Any sample of material which is removed from the inside of each tank after removal of free liquid will be analyzed for the purpose of hazardous waste characterization.

VI. TARGET CLEANUP LEVELS

Soils will be removed up to the point at which analytical results indicate that contaminant concentrations no longer exceed the appropriate action levels. These action levels are the State of Connecticut DEP GB Pollutant Mobility Criteria for soil and the U.S. EPA Risk Based Concentration Table, July - December, 1995, AND STATE OF CONNECTICUT INDUSTRIAL/COMMERCIAL CRITERIA FOR DIRECT EXPOSURE TO SOIL.

VII. MANAGEMENT OF CONTAMINATED SOILS AND MATERIALS

As indicated below, excavated materials from various sources will be accumulated in separate stockpiles. Envirite may, however, combine any and all materials into a single transport vehicle to be shipped off site.

A. Soils Between Grade and the Top of the Tank (0 - 5 fbg)

If this portion of soil meets the applicable cleanup standards, then it will be returned to the excavation area. If it does not meet cleanup standards, then it will disposed off site. This material will be sent to a RCRA hazardous waste treatment, storage, or disposal facility (TSDF) if it exhibits a hazardous waste characteristic. Envirite will notify the receiving TSDF of all applicable land disposal restrictions. If the waste is not RCRA hazardous, then it will be shipped a RCRA subtitle D landfill.

B. Soils Surrounding the Tank (5 fbg and Below 5 fbg)

If this portion of soil meets applicable cleanup standards, then it will be returned to the excavation area. If it does not meet cleanup standards, then it will disposed off-site. This material will be sent to a RCRA hazardous waste treatment, storage, or disposal facility (TSDF) if it exhibits a hazardous waste characteristic. Envirite will notify the receiving TSDF of all applicable land disposal restrictions. If the waste is not RCRA hazardous, then it will be shipped a RCRA subtitle D landfill.

C. Soil from Excavation's Sidewalls

Unless sampling or other visual observations indicate otherwise, soil in the excavation's sidewall will remain in place.

D. Soil from the Bottom of the Excavation

If there is no visible soil staining of the soil in the bottom of the excavation, and if the soil meets applicable cleanup standards, then it will be left in place.

Any soil that is removed from the excavation's bottom will be shipped off site. The soil will be sent to a RCRA TSDF if it exhibits a hazardous characteristic. Envirite will notify the receiving facility of all applicable Land ban standards. If the material is not RCRA hazardous, then it will be shipped to a RCRA subtitle D facility.

VII. MANAGEMENT OF CONTAMINATED SOILS AND MATERIALS (cont'd)

E. UST's Contents

Each UST's contents will be evaluated to determine the presence of hazardous characteristics. If liquid is present in the tank, then it is possible, but not necessary, that it will be shipped to a different site than any non-liquid fraction in the tank.

Any material that is removed from the tanks will be shipped off site. It will be sent to a RCRA TSDF if it exhibits a hazardous characteristic. Envirite will notify the receiving facility of all applicable Land Ban standards. If the material is not RCRA hazardous, then it will be shipped to a RCRA subtitle D facility and/or to a wastewater treatment facility subject to a discharge permit under the Clean Water Act.

VIII. CONTRACTOR INFORMATION

Bids will be solicited from qualified UST removal contractors possessing appropriate qualifications for HAZWOPER operations. Envirite will screen qualified remediation contractors.

IX. HEALTH AND SAFETY PLAN (HASP)

The HASP for the RFI project was submitted with the RFI Proposal. Envirite is currently reviewing the HASP to ensure that it addresses hazards associated with the prospective Interim Measure. Upon completing its review and making any needed revisions, Envirite will submit the HASP to EPA.

The HASP sets forth procedures, personnel responsibilities, and training necessary to protect the health and safety of all on-site personnel while engaged in Interim Measures. The plan provides for routine but hazardous activities and for unexpected facility emergencies. The plan identifies the following:

- Possible problems and hazards and their solutions,
- Medical surveillance measures,
- Specifications for protective clothing,
- Appropriate level of respiratory protection,
- Rationale for selecting that level,
- Criteria, procedures, and mechanisms for upgrading the level of protection and for suspending activity, if necessary.

A copy of the HASP will be made available to all site remediation and regulatory personnel.

X. SCHEDULE

Envirite intends to solicit contractor bids within one week of EPA's approval of this work plan. The following general tasks for implementing the plan have been identified:

- Solicit contractor bids
- Select contractor
- Excavate tanks and soils
- Complete soil sample analysis
- Follow-up excavation if necessary
- Dispose of contaminated media

Envirite intends to complete all work within 90 days of EPA's approval of this work plan. Envirite will notify EPA at least one week in advance of performing any activity involving excavation and sampling.

XI. REPORTING

At the conclusion of the UST removal project, Envirite will submit to EPA a letter report summarizing the results of this project. The final report will include information regarding the disposition and quantities of contaminated soils and materials, analytical results of the field sampling, a contractor's certification of completion, and any other relevant issues regarding this project.

Results of this project will also be included in both the RFI Supplement and final PHERE, as required by the Consent Order.

Appendix A

Boring Logs

and

Analytical Data

GZA GEOENVIRONMENTAL, INC.
Consulting Engineers/Geologists/Environmental Scientists

27 Naek Road
Vernon, Connecticut 06066
(203) 875-7655

ENVIRITE
THOMASTON, CONNECTICUT

Boring No. T-2
Page 1 of 1
File No. 41302.3
Chkd. By: JMB

			Casing	Sampler
Boring Co.	GZA GeoEnvironmental, Inc.	Type	H.S.A.	S.S.
Foreman	Ron Holman	I.D./O.D.	4-1/4"	3" O.D.
GZA GeoEnvironmental Rep.	Al Augustine	Hammer Wt.		140 LB.
Date Start 2/8/95	End 2/8/95	Hammer Fall		30"
Location		Other		
GS Elev.	Datum			

Groundwater Readings

Date	Time	Depth	Casing	Stab. Time

DEPTH	CBL SNW GS	Sample Information No.	Pen./Rec.	Depth (inches)	Blows/6"	Field Test Data	Sample Description & Classification	Stratum Description	RMKS	Equipment Installed
									1.	NO EQUIPMENT INSTALLED
5								FILL		
		A	24/10	6-8	12-24	ND	Dense, brown, fine to medium SAND, some coarse Gravel, trace Silt			
					20-6					
10		B	24/12	10-12	25-20	ND *	Dense, grey-brown, fine to coarse GRAVEL and fine to coarse SAND, trace Silt			
					21-38			12.6'	2.	
		C	1/0	12.5-12.6	200/1"		No recovery	END OF EXPLORATION		
15										
20										
25										

Remarks

1. Soil samples field screened for volatile organic compounds with a 10.6 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background values. *** indicates sample sent to laboratory for analysis. ND indicates None Detected.
2. Auger refusal at 12.5 feet below grade.

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. T-2

GZA GEOENVIRONMENTAL, INC.
Consulting Engineers/Geologists/Environmental Scientists

27 Nash Road
Vernon, Connecticut 06066
(203) 875-2855

ENVIRITE
THOMASTON, CONNECTICUT

Boring No. T-5
Page 1 of 1
File No. 41302.3
Chkd. By: JMB

Boring Co. GZA GeoEnvironmental, Inc.
Foreman Ron Holman
GZA GeoEnvironmental Rep. Al Augustine
Date Start 2/8/95 End 2/8/95
Location
GS.Elev. Datum

	Casing	Sampler
Type	H.S.A.	S.S.
I.D./O.D.	4-1/4"	3" O.D.
Hammer Wt.		140 LB.
Hammer Fall		30"
Other		

Groundwater Readings

Date	Time	Depth	Casing	Stab. Time

DEPTH	CSNG	BLWS	Sample Information: No.	Pen./Rec.	Depth (inches)	Blows/6"	Field Test Data	Sample Description & Classification	Stratum Description	RMKS	Equipment Installed
									FILL		NO EQUIPMENT INSTALLED
5								Auger refusal at 8 feet below grade No sample collected			
									8.0'		
									END OF EXPLORATION		
10											
15											
20											
25											

Rema

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. T-5

GZA GEOENVIRONMENTAL, INC.
Consulting Engineers/Geologists/Environmental Scientists

27 Neck Road
Vernon, Connecticut 06066
(203) 875-7655

ENVIRITE
THOMASTON, CONNECTICUT

Boring No. T-6
Page 1 of 1
File No. 41302.3
Chkd. By: JMB

Boring Co. GZA GeoEnvironmental, Inc.
Foreman Ron Holman
GZA GeoEnvironmental Rep. Al Augustine
Date Start 2/8/95 End 2/8/95
Location
GS.Elev. Datum

	Casing	Sampler
Type	H.S.A.	S.S.
I.D./O.D.	4-1/4"	3" O.D.
Hammer Wt.		140 LB.
Hammer Fall		30"
Other		

Groundwater Readings

Date	Time	Depth	Casing	Stab. Time

DEPTH	CBSL NWGS	Sample Information No.	Pen./Rec.	Depth (inches)	Blows/6"	Field Test Data	Sample Description & Classification	Stratum Description	RMKS	Equipment Installed
									1.	
										NO EQUIPMENT INSTALLED
5								FILL		
10		A	24/14	10-12	2-2	1.5 *	Loose, brown, fine to coarse SAND, trace Silt			
					3-3					
		B	24/22	13-15	86-88	0.2 *	Very dense, black, fine to coarse GRAVEL and fine to coarse SAND, trace Silt			
15					83-100			15.0'		
								END OF EXPLORATION		
20										
25										

Rema

1. Soil samples field screened for volatile organic compounds with a 10.6 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background values. "*" indicates sample sent to laboratory for analysis. ND indicates None Detected.

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. T-6

GZA GEOENVIRONMENTAL, INC.
Consulting Engineers/Geologists/Environmental Scientists

27 Nack Road
Vernon, Connecticut 06066
(203) 875-7655

ENVIRITE
THOMASTON, CONNECTICUT

Boring No. T-1
Page 1 of 1
File No. 41302.3
Ckkd. By: JMB

Boring Co. GZA GeoEnvironmental, Inc.
Foreman Ron Holman
GZA GeoEnvironmental Rep. Al Augustine
Date Start 2/8/95 End 2/8/95
Location
GS.Elev. Datum

	Casing	Sampler
Type	H.S.A.	S.S.
I.D./O.D.	4-1/4"	3" O.D.
Hammer Wt.		140 LB.
Hammer Fall		30"
Other		

Groundwater Readings

Date	Time	Depth	Casing	Stab. Time

DEPTH	CSLNWGS	Sample Information No.	Pen./Rec.	Depth (inches)	Blows/6"	Field Test Data	Sample Description & Classification	Stratum Description	RMKS	Equipment Installed
									1.	NO EQUIPMENT INSTALLED
5								FILL		
10		A	24/18	9-11	10-17	ND *	Medium dense, brown, fine to medium SAND, some coarse Gravel, trace Silt			
					8-18					
								12.0'	2.	
								END OF EXPLORATION		
15										
20										
25										

Remarks

1. Soil samples field screened for volatile organic compounds with a 10.6 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background values. "*" indicates sample sent to laboratory for analysis. ND indicates None Detected.
2. Auger refusal at 12 feet below grade.

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No. T-1

GZA GEOENVIRONMENTAL, INC.
Consulting Engineers/Geologists/Environmental Scientists
27 Nack Road
Vernon, Connecticut 06066
(203) 875-7655

ENVIRITE
THOMASTON, CONNECTICUT

Boring No. T-3
Page 1 of 1
File No. 41302.3
Chkd. By: JMB

Boring Co. GZA GeoEnvironmental, Inc.
Foreman Al Augustine
GZA GeoEnvironmental Rep. Helena Hollauer
Date Start 11/16/94 End 11/16/94
Location
G.S.Elev. Datum

	Casing	Sampler
Type		S.S.
I.D./O.D.		3" O.D.
Hammer Wt.		140 LB.
Hammer Fall		30"
Other		

Groundwater Readings

Date	Time	Depth	Casing	Stab. Time
11/16/94	1335	5.8'	out	0 hours
11/16/94	1700	8.5'	out	3.5 hours

DEPTH	CBLWGS	Sample Information: No.	Pen./Rec.	Depth (inches)	Blows/6"	Field Test Data	Sample Description & Classification	Stratum Description	RMKS	Equipment Installed
							No samples collected from 0 to 6' depth		1.	NO EQUIPMENT INSTALLED
5								6.0'		
		A	24/20	6-8	2-1/12"	127	Very loose, brown-black, fine to coarse SAND, some fine to coarse Gravel		2.	
					1					
								FILL		
10		B	24/20	10-12	1-14	190 *	Top 13": Medium dense, fine to coarse SAND, some fine to coarse Gravel Bottom 7": Medium dense, black, fine to coarse SAND, some fine to coarse Gravel		3.	
					14-18				4.	
								14.0'		
15								END OF EXPLORATION		
20										
25										

Rema

1. Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background values. *** indicates sample sent to laboratory for analysis. ND indicates None Detected.
2. Split spoon sample has odor.
3. Fiberglass found 1/2" from tip of spoon, soils above fiberglass were wet and soils below fiberglass were dry.
4. Rods oily at 10 fbg.

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

GZA GEOENVIRONMENTAL, INC.
Consulting Engineers/Geologists/Environmental Scientists
27 Nash Road
Vernon, Connecticut 06066
(203) 875-7655

ENVIRITE
THOMASTON, CONNECTICUT

Boring No. T-4
Page 1 of 1
File No. 41302.3
Chkd. By: JMB

Boring Co. GZA GeoEnvironmental, Inc.
Foreman Al Augustine
GZA GeoEnvironmental Rep. Helena Hollauer
Date Start 11/16/94 End 11/16/94
Location
GS.Elev. Datum

	Casing	Sampler
Type		S.S.
I.D./O.D.		3" O.D.
Hammer Wt.		140 LB.
Hammer Fall		30"
Other		

Groundwater Readings

Date	Time	Depth	Casing	Stab. Time

DEPTH	CBSLNWGS	Sample Information: No.	Pen./Rec.	Depth (inches)	Blows/6"	Field Test Data	Sample Description & Classification	Stratum Description	RMKS	Equipment Installed
							No samples collected from 0 to 6 foot depth		1.	NO EQUIPMENT INSTALLED
5								6.0'		
		A	24/20	6-8	2-3	ND *	Loose, brown, fine to medium SAND, trace fine Gravel			
					2-10			FILL 9.5'		
10								END OF EXPLORATION	2.	
15										
20										
25										

Remarks

1. Soil samples field screened for volatile organic compounds with a 10.0 eV portable Thermo Environmental Instruments Model 580B photoionization detector (PID). PID values represent meter response in parts per million (ppm) above background values. *** indicates sample sent to laboratory for analysis. ND indicates None Detected.
2. Auger refusal at 9.5' depth.

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

ENVIRITE CORP. (THOMASTON)
1 Waterbury Road
Thomaston, CT 06787-

Location Collected: ENVIRITE CORP. THOMASTON, CT
Date Sample Collected: 02/08/1995
Sample Description: AA950208SLTO2B
Envirite's Sample Number: 9500552
Date Sample Received: 02/09/1995

Parameter	Data	Quantitation Limit	Units	Analysis Date
Herbicide Extraction				02/21/95
Base/Neutral & Acidic Extraction				02/20/95
Solid Pesticide/PCB Extraction				02/20/95
Cyanide, Total	BQL	0.50	mg/kg	02/10/95
Sulfide, Total	30.	10.	mg/kg	02/14/95
Silver, Leachate	BQL	0.030	mg/L	03/06/95
Arsenic, Leachate	BQL	0.0050	mg/L	03/06/95
Barium, Leachate	BQL	0.50	mg/L	03/06/95
Beryllium, Leachate	BQL	0.020	mg/L	03/06/95
Cadmium, Leachate	BQL	0.010	mg/L	03/06/95
Cobalt, Leachate	BQL	0.10	mg/L	03/06/95
Chromium, Leachate	BQL	0.040	mg/L	03/06/95
Copper, Leachate	BQL	0.020	mg/L	03/06/95
Mercury, Leachate	BQL	0.0010	mg/L	02/22/95
Leachable Metals Digestion				02/22/95
Nickel, Leachate	BQL	0.30	mg/L	03/06/95
Lead, Leachate	BQL	0.60	mg/L	03/06/95
Antimony, Leachate	BQL	0.40	mg/L	03/06/95
Selenium, Leachate	BQL	0.050	mg/L	03/06/95
Tin, Leachate	BQL	1.0	mg/L	03/06/95
Thallium, Leachate	BQL	0.40	mg/L	03/06/95
Vanadium, Leachate	BQL	1.0	mg/L	03/06/95
Zinc, Leachate	0.062	0.010	mg/L	03/06/95
Silver, Total	BQL	0.60	mg/kg	03/02/95
Arsenic, Total	BQL	1.0	mg/kg	03/02/95
Barium, Total	75.	10.	mg/kg	03/02/95
Beryllium, Total	BQL	0.40	mg/kg	03/02/95
Cadmium, Total	BQL	0.20	mg/kg	03/02/95
Cobalt, Total	8.8	2.0	mg/kg	03/02/95
Chromium, Total	50.	0.80	mg/kg	03/02/95
Copper, Total	27.	0.40	mg/kg	03/02/95
Mercury, Total	BQL	0.020	mg/kg	02/22/95
Metals Digestion for Solid Sample			mg/kg	02/22/95
Nickel, Total	16.	0.60	mg/kg	03/02/95
Lead, Total	14.	1.2	mg/kg	03/02/95
Antimony, Total	BQL	8.0	mg/kg	03/02/95
Selenium, Total	BQL	1.0	mg/kg	03/02/95
Tin, Total	BQL	16.	mg/kg	03/02/95
Thallium, Total	BQL	8.0	mg/kg	03/02/95
Vanadium, Total	40.	20.	mg/kg	03/02/95

ENVIRITE CORP. (THOMASTON)
1 Waterbury Road
Thomaston, CT 06787-

Location Collected: ENVIRITE CORP. THOMASTON, CT
Date Sample Collected: 02/08/1995
Sample Description: AA950208SLTO2B
Envirite's Sample Number: 9500552
Date Sample Received: 02/09/1995

Parameter	Data		Quantitation Limit	Units	Analysis Date
Zinc, Total	42.		2.0	mg/kg	03/02/95
Semi-Volatiles List - Thomaston RFI - Method 8270					
2,4,5-Trichlorophenol	BQL		330.	ug/kg	03/02/95
2,4,6-Trichlorophenol	BQL		330.	ug/kg	03/02/95
2,4-Dichlorophenol	BQL		330.	ug/kg	03/02/95
2,6-Dichlorophenol	BQL		330.	ug/kg	03/02/95
2-Chlorophenol	BQL		330.	ug/kg	03/02/95
2-Methylnaphthalene	BQL		330.	ug/kg	03/02/95
Acenaphthene	BQL		330.	ug/kg	03/02/95
Anthracene	BQL		330.	ug/kg	03/02/95
Bis (2-ethylhexyl) phthalate	BQL		330.	ug/kg	03/02/95
Butyl benzylphthalate	BQL		330.	ug/kg	03/02/95
Dibenzofuran	BQL		330.	ug/kg	03/02/95
Diethylphthalate	BQL		330.	ug/kg	03/02/95
Di-n-octylphthalate	BQL		330.	ug/kg	03/02/95
Di-n-butylphthalate	83.	J	330.	ug/kg	03/02/95
Fluoranthene	BQL		330.	ug/kg	03/02/95
Fluorene	BQL		330.	ug/kg	03/02/95
Naphthalene	BQL		330.	ug/kg	03/02/95
N-Nitrosodimethylamine	BQL		330.	ug/kg	03/02/95
N-Nitrosodiphenylamine	BQL		330.	ug/kg	03/02/95
Phenanthrene	BQL		330.	ug/kg	03/02/95
Pyrene	BQL		330.	ug/kg	03/02/95
Benzo (a) pyrene	BQL		330.	ug/kg	03/02/95
Benzo (b) fluoranthene	BQL		330.	ug/kg	03/02/95
Benzo (k) fluoranthene	BQL		330.	ug/kg	03/02/95
Pests/PCBs List for Thomaston RFI - Method 8080					
4,4'-DDE	BQL		0.10	ug/kg	03/07/95
4,4'-DDT	BQL		0.10	ug/kg	03/07/95
Aldrin	BQL			ug/kg	03/07/95
Dieldrin	BQL		0.10	ug/kg	03/07/95
Endrin aldehyde	BQL		0.10	ug/kg	03/07/95
Heptachlor	BQL		0.050	ug/kg	03/07/95
Methoxychlor	BQL		0.50	ug/kg	03/07/95
Aroclor 1242	BQL		1.0	ug/kg	03/07/95
Aroclor 1254	BQL		1.0	ug/kg	03/07/95
Endosulfan I	BQL		0.050	ug/kg	03/07/95
b-BHC	BQL		0.028	ug/kg	03/07/95
Endosulfan II	BQL		0.011	ug/kg	03/07/95
d-BHC	BQL		0.050	ug/kg	03/07/95

ENVIRITE CORP. (THOMASTON)
1 Waterbury Road
Thomaston, CT 06787-

Location Collected: ENVIRITE CORP. THOMASTON, CT
Date Sample Collected: 02/08/1995
Sample Description: AA950208SLTO2B
Envirite's Sample Number: 9500552
Date Sample Received: 02/09/1995

Parameter	Data		Quantitation Limit	Units	Analysis Date
g-BHC (Lindane)	BQL		0.014	ug/kg	03/07/95
Herbicides - Method SW-846-8150					
2,4,5-T	BQL		1.0	ug/kg	03/10/95
2,4,5-TP (Silvex)	BQL		1.0	ug/kg	03/10/95
2,4-D	BQL		1.0	ug/kg	03/10/95
2,4-DB	BQL		1.0	ug/kg	03/10/95
Dalapon	BQL		1.0	ug/kg	03/10/95
Dicamba	BQL		1.0	ug/kg	03/10/95
Dichloroprop	BQL		1.0	ug/kg	03/10/95
Dinoseb	BQL		1.0	ug/kg	03/10/95
MCPA	BQL		1.0	ug/kg	03/10/95
MCPP	BQL		1.0	ug/kg	03/10/95
Synthetic Rain Leaching Procedure					02/20/95
RFI Volatile list - Soils - Method 8240					
1,1,1-Trichloroethane	BQL		10.	ug/kg	02/13/95
1,1,2,2-Tetrachloroethane	BQL		10.	ug/kg	02/13/95
1,1,2-Trichloroethane	BQL		10.	ug/kg	02/13/95
1,1-Dichloroethane	BQL		10.	ug/kg	02/13/95
1,1-Dichloroethene	BQL		10.	ug/kg	02/13/95
1,2-Dichloroethane	BQL		10.	ug/kg	02/13/95
1,2-Dichloropropane	BQL		10.	ug/kg	02/13/95
Dibromochloromethane	BQL		10.	ug/kg	02/13/95
2-Chloroethyl vinyl ether	BQL		10.	ug/kg	02/13/95
2-Hexanone	BQL		10.	ug/kg	02/13/95
Acetone	6.5	J	10.	ug/kg	02/13/95
Benzene	BQL		10.	ug/kg	02/13/95
Bromodichloromethane	BQL		10.	ug/kg	02/13/95
Bromomethane	BQL		10.	ug/kg	02/13/95
Bromoform	BQL		10.	ug/kg	02/13/95
cis-1,2-Dichloroethene	BQL		10.	ug/kg	02/13/95
cis-1,3-Dichloropropene	BQL		10.	ug/kg	02/13/95
Carbon disulfide	BQL		10.	ug/kg	02/13/95
Carbon tetrachloride	BQL		10.	ug/kg	02/13/95
Chloroform	BQL		10.	ug/kg	02/13/95
Chlorobenzene	BQL		10.	ug/kg	02/13/95
Chloroethane	BQL		10.	ug/kg	02/13/95
Chloromethane	BQL		10.	ug/kg	02/13/95
Ethylbenzene	BQL		10.	ug/kg	02/13/95
Methylene chloride	2.8	J	10.	ug/kg	02/13/95
2-Butanone (MEK)	BQL		10.	ug/kg	02/13/95

ENVIRITE CORP. (THOMASTON)
C Waterbury Road
Thomaston, CT 06787-

Location Collected: ENVIRITE CORP. THOMASTON, CT
Date Sample Collected: 02/08/1995
Sample Description: AA950208SLTO2B
Envirite's Sample Number: 9500552
Date Sample Received: 02/09/1995

Parameter	Data	Quantitation Limit	Units	Analysis Date
4-Methyl-2-Pentanone	BQL	10.	ug/kg	02/13/95
Styrene	BQL	10.	ug/kg	02/13/95
trans-1,2-Dichloroethene	BQL	10.	ug/kg	02/13/95
trans-1,3-Dichloropropene	BQL	10.	ug/kg	02/13/95
Tetrachloroethylene	BQL	10.	ug/kg	02/13/95
Toluene	BQL	10.	ug/kg	02/13/95
Total Xylenes	BQL	10.	ug/kg	02/13/95
Trichloroethylene	BQL	10.	ug/kg	02/13/95
Vinyl acetate	BQL	10.	ug/kg	02/13/95
Vinyl chloride	BQL	10.	ug/kg	02/13/95

BQL = Below Quantitation Limit

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989

2. Clean Water Act, List of Approved Test Procedures, 40 CFR, 136.3 July 1, 1989

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987

ENVIRITE CORP. (THOMASTON)
1 Waterbury Road
Thomaston, CT 06787-

Location Collected: ENVIRITE CORP. THOMASTON, CT
Date Sample Collected: 02/08/1995
Sample Description: AA950208SLT06A
Envirite's Sample Number: 9500553
Date Sample Received: 02/09/1995

Parameter	Data	Quantitation Limit	Units	Analysis Date
Herbicide Extraction				02/21/95
Base/Neutral & Acidic Extraction				02/20/95
Solid Pesticide/PCB Extraction				02/20/95
Cyanide, Total	5.8	0.50	mg/kg	02/10/95
Sulfide, Total	15.	10.	mg/kg	02/14/95
Silver, Leachate	BQL	0.030	mg/L	03/06/95
Arsenic, Leachate	BQL	0.0050	mg/L	03/06/95
Barium, Leachate	BQL	0.50	mg/L	03/06/95
Beryllium, Leachate	BQL	0.020	mg/L	03/06/95
Cadmium, Leachate	BQL	0.010	mg/L	03/06/95
Cobalt, Leachate	BQL	0.10	mg/L	03/06/95
Chromium, Leachate	BQL	0.040	mg/L	03/06/95
Copper, Leachate	BQL	0.020	mg/L	03/06/95
Mercury, Leachate	BQL	0.0010	mg/L	02/22/95
Leachable Metals Digestion				02/22/95
Nickel, Leachate	BQL	0.30	mg/L	03/06/95
Lead, Leachate	BQL	0.60	mg/L	03/06/95
Antimony, Leachate	BQL	0.40	mg/L	03/06/95
Selenium, Leachate	BQL	0.050	mg/L	03/06/95
Tin, Leachate	BQL	1.0	mg/L	03/06/95
Thallium, Leachate	BQL	0.40	mg/L	03/06/95
Vanadium, Leachate	BQL	1.0	mg/L	03/06/95
Zinc, Leachate	0.039	0.010	mg/L	03/06/95
Silver, Total	BQL	0.60	mg/kg	03/02/95
Arsenic, Total	BQL	1.0	mg/kg	03/02/95
Barium, Total	41.	10.	mg/kg	03/02/95
Beryllium, Total	BQL	0.40	mg/kg	03/02/95
Cadmium, Total	BQL	0.20	mg/kg	03/02/95
Cobalt, Total	4.0	2.0	mg/kg	03/02/95
Chromium, Total	8.4	0.80	mg/kg	03/02/95
Copper, Total	32.	0.40	mg/kg	03/02/95
Mercury, Total	BQL	0.020	mg/kg	02/22/95
Metals Digestion for Solid Sample			mg/kg	02/22/95
Nickel, Total	7.0	0.60	mg/kg	03/02/95
Lead, Total	2.0	1.2	mg/kg	03/02/95
Antimony, Total	BQL	8.0	mg/kg	03/02/95
Selenium, Total	BQL	1.0	mg/kg	03/02/95
Tin, Total	BQL	16.	mg/kg	03/02/95
Thallium, Total	BQL	8.0	mg/kg	03/02/95
Vanadium, Total	BQL	20.	mg/kg	03/02/95

ENVIRITE CORP. (THOMASTON)
[illegible] Waterbury Road
Thomaston, CT 06787-

Location Collected: ENVIRITE CORP. THOMASTON, CT
Date Sample Collected: 02/08/1995
Sample Description: AA950208SLT06A
Envirite's Sample Number: 9500553
Date Sample Received: 02/09/1995

Parameter	Data		Quantitation Limit	Units	Analysis Date
Zinc, Total	23.		2.0	mg/kg	03/02/95
Semi-Volatiles List - Thomaston RFI - Method 8270					
2,4,5-Trichlorophenol	BQL		330.	ug/kg	03/02/95
2,4,6-Trichlorophenol	BQL		330.	ug/kg	03/02/95
2,4-Dichlorophenol	BQL		330.	ug/kg	03/02/95
2,6-Dichlorophenol	BQL		330.	ug/kg	03/02/95
2-Chlorophenol	BQL		330.	ug/kg	03/02/95
2-Methylnaphthalene	BQL		330.	ug/kg	03/02/95
Acenaphthene	BQL		330.	ug/kg	03/02/95
Anthracene	BQL		330.	ug/kg	03/02/95
Bis (2-ethylhexyl) phthalate	BQL		330.	ug/kg	03/02/95
Butyl benzylphthalate	BQL		330.	ug/kg	03/02/95
Dibenzofuran	BQL		330.	ug/kg	03/02/95
Diethylphthalate	15.	J	330.	ug/kg	03/02/95
Di-n-octylphthalate	BQL		330.	ug/kg	03/02/95
Di-n-butylphthalate	220.	J	330.	ug/kg	03/02/95
Fluoranthene	BQL		330.	ug/kg	03/02/95
Fluorene	BQL		330.	ug/kg	03/02/95
Naphthalene	BQL		330.	ug/kg	03/02/95
N-Nitrosodimethylamine	BQL		330.	ug/kg	03/02/95
N-Nitrosodiphenylamine	BQL		330.	ug/kg	03/02/95
Phenanthrene	BQL		330.	ug/kg	03/02/95
Pyrene	BQL		330.	ug/kg	03/02/95
Benzo (a) pyrene	BQL		330.	ug/kg	03/02/95
Benzo (b) fluoranthene	BQL		330.	ug/kg	03/02/95
Benzo (k) fluoranthene	BQL		330.	ug/kg	03/02/95
Pests/PCBs List for Thomaston RFI - Method 8080					
4,4'-DDE	BQL		0.10	ug/kg	03/07/95
4,4'-DDT	BQL		0.10	ug/kg	03/07/95
Aldrin	BQL			ug/kg	03/07/95
Dieldrin	BQL		0.10	ug/kg	03/07/95
Endrin aldehyde	BQL		0.10	ug/kg	03/07/95
Heptachlor	BQL		0.050	ug/kg	03/07/95
Methoxychlor	BQL		0.50	ug/kg	03/07/95
Aroclor 1242	BQL		1.0	ug/kg	03/07/95
Aroclor 1254	BQL		1.0	ug/kg	03/07/95
Endosulfan I	BQL		0.050	ug/kg	03/07/95
b-BHC	BQL		0.028	ug/kg	03/07/95
Endosulfan II	BQL		0.011	ug/kg	03/07/95
d-BHC	BQL		0.050	ug/kg	03/07/95

ENVIRITE CORP. (THOMASTON)
1 Waterbury Road
Thomaston, CT 06787-

Location Collected: ENVIRITE CORP. THOMASTON, CT
Date Sample Collected: 02/08/1995
Sample Description: AA950208SLTO6A
Envirite's Sample Number: 9500553
Date Sample Received: 02/09/1995

Parameter	Data		Quantitation Limit	Units	Analysis Date
g-BHC (Lindane)	BQL		0.014	ug/kg	03/07/95
Herbicides - Method SW-846-8150					
2,4,5-T	BQL		1.0	ug/kg	03/10/95
2,4,5-TP (Silvex)	BQL		1.0	ug/kg	03/10/95
2,4-D	BQL		1.0	ug/kg	03/10/95
2,4-DB	BQL		1.0	ug/kg	03/10/95
Dalapon	BQL		1.0	ug/kg	03/10/95
Dicamba	BQL		1.0	ug/kg	03/10/95
Dichloroprop	BQL		1.0	ug/kg	03/10/95
Dinoseb	BQL		1.0	ug/kg	03/10/95
MCPA	BQL		1.0	ug/kg	03/10/95
MCPP	BQL		1.0	ug/kg	03/10/95
Synthetic Rain Leaching Procedure					02/20/95
RFI Volatile list - Soils - Method 8240					
1,1,1-Trichloroethane	BQL		10.	ug/kg	02/13/95
1,1,2,2-Tetrachloroethane	BQL		10.	ug/kg	02/13/95
1,1,2-Trichloroethane	BQL		10.	ug/kg	02/13/95
1,1-Dichloroethane	BQL		10.	ug/kg	02/13/95
1,1-Dichloroethene	BQL		10.	ug/kg	02/13/95
1,2-Dichloroethane	BQL		10.	ug/kg	02/13/95
1,2-Dichloropropane	BQL		10.	ug/kg	02/13/95
Dibromochloromethane	BQL		10.	ug/kg	02/13/95
2-Chloroethyl vinyl ether	BQL		10.	ug/kg	02/13/95
2-Hexanone	BQL		10.	ug/kg	02/13/95
Acetone	BQL		10.	ug/kg	02/13/95
Benzene	BQL		10.	ug/kg	02/13/95
Bromodichloromethane	BQL		10.	ug/kg	02/13/95
Bromomethane	BQL		10.	ug/kg	02/13/95
Bromoform	BQL		10.	ug/kg	02/13/95
cis-1,2-Dichloroethene	BQL		10.	ug/kg	02/13/95
cis-1,3-Dichloropropene	BQL		10.	ug/kg	02/13/95
Carbon disulfide	BQL		10.	ug/kg	02/13/95
Carbon tetrachloride	BQL		10.	ug/kg	02/13/95
Chloroform	BQL		10.	ug/kg	02/13/95
Chlorobenzene	BQL		10.	ug/kg	02/13/95
Chloroethane	BQL		10.	ug/kg	02/13/95
Chloromethane	BQL		10.	ug/kg	02/13/95
Ethylbenzene	BQL		10.	ug/kg	02/13/95
Methylene chloride	4.0	J	10.	ug/kg	02/13/95
2-Butanone (MEK)	BQL		10.	ug/kg	02/13/95

ENVIRITE CORP. (THOMASTON)
(Waterbury Road
Thomaston, CT 06787-

Location Collected: ENVIRITE CORP. THOMASTON, CT
Date Sample Collected: 02/08/1995
Sample Description: AA950208SLTO6A
Envirite's Sample Number: 9500553
Date Sample Received: 02/09/1995

Parameter	Data	Quantitation Limit	Units	Analysis Date
4-Methyl-2-Pentanone	BQL	10.	ug/kg	02/13/95
Styrene	BQL	10.	ug/kg	02/13/95
trans-1,2-Dichloroethene	BQL	10.	ug/kg	02/13/95
trans-1,3-Dichloropropene	BQL	10.	ug/kg	02/13/95
Tetrachloroethylene	BQL	10.	ug/kg	02/13/95
Toluene	BQL	10.	ug/kg	02/13/95
Total Xylenes	BQL	10.	ug/kg	02/13/95
Trichloroethylene	BQL	10.	ug/kg	02/13/95
Vinyl acetate	BQL	10.	ug/kg	02/13/95
Vinyl chloride	BQL	10.	ug/kg	02/13/95

BQL = Below Quantitation Limit

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989

2. Clean Water Act, List of Approved Test Procedures, 40 CFR, 136.3 July 1, 1989

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987

ENVIRITE CORP. (THOMASTON)
0 Waterbury Road
Thomaston, CT 06787-

Location Collected: ENVIRITE CORP. THOMASTON, CT
Date Sample Collected: 02/08/1995
Sample Description: AA950208SLT06B
Envirite's Sample Number: 9500554
Date Sample Received: 02/09/1995

Parameter	Data	Quantitation Limit	Units	Analysis Date
Herbicide Extraction				02/21/95
Base/Neutral & Acidic Extraction				02/20/95
Solid Pesticide/PCB Extraction				02/20/95
Cyanide, Total	BQL	0.50	mg/kg	02/10/95
Sulfide, Total	140.	10.	mg/kg	02/14/95
Silver, Leachate	BQL	0.030	mg/L	03/06/95
Arsenic, Leachate	BQL	0.0050	mg/L	03/06/95
Barium, Leachate	BQL	0.50	mg/L	03/06/95
Beryllium, Leachate	BQL	0.020	mg/L	03/06/95
Cadmium, Leachate	BQL	0.010	mg/L	03/06/95
Co[illegible]t, Leachate	BQL	0.10	mg/L	03/06/95
Chromium, Leachate	BQL	0.040	mg/L	03/06/95
Copper, Leachate	BQL	0.020	mg/L	03/06/95
Mercury, Leachate	BQL	0.0010	mg/L	02/22/95
Leachable Metals Digestion				02/22/95
Nickel, Leachate	BQL	0.30	mg/L	03/06/95
Lead, Leachate	BQL	0.60	mg/L	03/06/95
Antimony, Leachate	BQL	0.40	mg/L	03/06/95
Selenium, Leachate	BQL	0.050	mg/L	03/06/95
Tin, Leachate	BQL	1.0	mg/L	03/06/95
Thallium, Leachate	BQL	0.40	mg/L	03/06/95
Vanadium, Leachate	BQL	1.0	mg/L	03/06/95
Zinc, Leachate	0.027	0.010	mg/L	03/06/95
Silver, Total	BQL	0.60	mg/kg	03/02/95
Arsenic, Total	BQL	1.0	mg/kg	03/02/95
Barium, Total	27.	10.	mg/kg	03/02/95
Beryllium, Total	BQL	0.40	mg/kg	03/02/95
Cadmium, Total	0.24	0.20	mg/kg	03/02/95
Cobalt, Total	4.2	2.0	mg/kg	03/02/95
Chromium, Total	9.6	0.80	mg/kg	03/02/95
Copper, Total	24.	0.40	mg/kg	03/02/95
Mercury, Total	BQL	0.020	mg/kg	02/22/95
Metals Digestion for Solid Sample			mg/kg	02/22/95
Nickel, Total	7.2	0.60	mg/kg	03/02/95
Lead, Total	5.4	1.2	mg/kg	03/02/95
Antimony, Total	BQL	8.0	mg/kg	03/02/95
Se[illegible]ium, Total	BQL	1.0	mg/kg	03/02/95
Tin, Total	BQL	16.	mg/kg	03/02/95
Thallium, Total	BQL	8.0	mg/kg	03/02/95
Vanadium, Total	BQL	20.	mg/kg	03/02/95

ENVIRITE CORP. (THOMASTON)
C' ' Waterbury Road
1. .maston, CT 06787-

Location Collected: ENVIRITE CORP. THOMASTON, CT
Date Sample Collected: 02/08/1995
Sample Description: AA950208SLT06B
Envirite's Sample Number: 9500554
Date Sample Received: 02/09/1995

Parameter	Data		Quantitation Limit	Units	Analysis Date
Zinc, Total	46.		2.0	mg/kg	03/02/95
Semi-Volatiles List - Thomaston RFI - Method 8270					
2,4,5-Trichlorophenol	BQL		330.	ug/kg	03/02/95
2,4,6-Trichlorophenol	BQL		330.	ug/kg	03/02/95
2,4-Dichlorophenol	BQL		330.	ug/kg	03/02/95
2,6-Dichlorophenol	BQL		330.	ug/kg	03/02/95
2-Chlorophenol	BQL		330.	ug/kg	03/02/95
2-Methylnaphthalene	BQL		330.	ug/kg	03/02/95
Acenaphthene	BQL		330.	ug/kg	03/02/95
Anthracene	BQL		330.	ug/kg	03/02/95
Bis (2-ethylhexyl) phthalate	BQL		330.	ug/kg	03/02/95
Butyl benzylphthalate	BQL		330.	ug/kg	03/02/95
Dibenzofuran	BQL		330.	ug/kg	03/02/95
Diethylphthalate	61.	J	330.	ug/kg	03/02/95
Di-n-octylphthalate	BQL		330.	ug/kg	03/02/95
Di-n-butylphthalate	510.	J	330.	ug/kg	03/02/95
Fluoranthene	24.	J	330.	ug/kg	03/02/95
Fluorene	BQL		330.	ug/kg	03/02/95
Naphthalene	BQL		330.	ug/kg	03/02/95
N-Nitrosodimethylamine	BQL		330.	ug/kg	03/02/95
N-Nitrosodiphenylamine	BQL		330.	ug/kg	03/02/95
Phenanthrene	11.	J	330.	ug/kg	03/02/95
Pyrene	22.	J	330.	ug/kg	03/02/95
Benzo (a) pyrene	BQL		330.	ug/kg	03/02/95
Benzo (b) fluoranthene	BQL		330.	ug/kg	03/02/95
Benzo (k) fluoranthene	BQL		330.	ug/kg	03/02/95
Pests/PCBs List for Thomaston RFI - Method 8080					
4,4'-DDE	BQL		0.10	ug/kg	03/07/95
4,4'-DDT	BQL		0.10	ug/kg	03/07/95
Aldrin	BQL			ug/kg	03/07/95
Dieldrin	BQL		0.10	ug/kg	03/07/95
Endrin aldehyde	BQL		0.10	ug/kg	03/07/95
Heptachlor	BQL		0.050	ug/kg	03/07/95
Methoxychlor	BQL		0.50	ug/kg	03/07/95
Aroclor 1242	BQL		1.0	ug/kg	03/07/95
Aroclor 1254	BQL		1.0	ug/kg	03/07/95
Endosulfan I	BQL		0.050	ug/kg	03/07/95
b-BHC	BQL		0.028	ug/kg	03/07/95
Endosulfan II	BQL		0.011	ug/kg	03/07/95
d-BHC	BQL		0.050	ug/kg	03/07/95

ENVIRITE CORP. (THOMASTON)
Old Waterbury Road
omaston, CT 06787-

Location Collected: ENVIRITE CORP. THOMASTON, CT
Date Sample Collected: 02/08/1995
Sample Description: AA950208SLTO6B
Envirite's Sample Number: 9500554
Date Sample Received: 02/09/1995

Parameter	Data		Quantitation Limit	Units	Analysis Date
g-BHC (Lindane)	BQL		0.014	ug/kg	03/07/95
Herbicides - Method SW-846-8150					
2,4,5-T	BQL		1.0	ug/kg	03/10/95
2,4,5-TP (Silvex)	BQL		1.0	ug/kg	03/10/95
2,4-D	BQL		1.0	ug/kg	03/10/95
2,4-DB	BQL		1.0	ug/kg	03/10/95
Dalapon	BQL		1.0	ug/kg	03/10/95
Dicamba	BQL		1.0	ug/kg	03/10/95
Dichloroprop	BQL		1.0	ug/kg	03/10/95
Dinoseb	BQL		1.0	ug/kg	03/10/95
MCPA	BQL		1.0	ug/kg	03/10/95
MCPP	BQL		1.0	ug/kg	03/10/95
Synthetic Rain Leaching Procedure					02/20/95
RFI Volatile list - Soils - Method 8240					
1,1,1-Trichloroethane	BQL		10.	ug/kg	02/13/95
1,1,2,2-Tetrachloroethane	BQL		10.	ug/kg	02/13/95
1,1,2-Trichloroethane	BQL		10.	ug/kg	02/13/95
1,1-Dichloroethane	BQL		10.	ug/kg	02/13/95
1,1-Dichloroethene	BQL		10.	ug/kg	02/13/95
1,2-Dichloroethane	BQL		10.	ug/kg	02/13/95
1,2-Dichloropropane	BQL		10.	ug/kg	02/13/95
Dibromochloromethane	BQL		10.	ug/kg	02/13/95
2-Chloroethyl vinyl ether	BQL		10.	ug/kg	02/13/95
2-Hexanone	BQL		10.	ug/kg	02/13/95
Acetone	110.		10.	ug/kg	02/13/95
Benzene	BQL		10.	ug/kg	02/13/95
Bromodichloromethane	BQL		10.	ug/kg	02/13/95
Bromomethane	BQL		10.	ug/kg	02/13/95
Bromoform	BQL		10.	ug/kg	02/13/95
cis-1,2-Dichloroethene	BQL		10.	ug/kg	02/13/95
cis-1,3-Dichloropropene	BQL		10.	ug/kg	02/13/95
Carbon disulfide	BQL		10.	ug/kg	02/13/95
Carbon tetrachloride	BQL		10.	ug/kg	02/13/95
Chloroform	BQL		10.	ug/kg	02/13/95
Chlorobenzene	BQL		10.	ug/kg	02/13/95
Chloroethane	BQL		10.	ug/kg	02/13/95
Chloromethane	BQL		10.	ug/kg	02/13/95
Ethylbenzene	BQL		10.	ug/kg	02/13/95
Methylene chloride	2.7	J	10.	ug/kg	02/13/95
2-Butanone (MEK)	23.		10.	ug/kg	02/13/95

ENVIRITE CORP. (THOMASTON)
Old Waterbury Road
Thomaston, CT 06787-

Location Collected: ENVIRITE CORP. THOMASTON, CT
Date Sample Collected: 02/08/1995
Sample Description: AA950208SLT06B
Envirite's Sample Number: 9500554
Date Sample Received: 02/09/1995

Parameter	Data	Quantitation Limit	Units	Analysis Date
4-Methyl-2-Pentanone	BQL	10.	ug/kg	02/13/95
Styrene	BQL	10.	ug/kg	02/13/95
trans-1,2-Dichloroethene	BQL	10.	ug/kg	02/13/95
trans-1,3-Dichloropropene	BQL	10.	ug/kg	02/13/95
Tetrachloroethylene	BQL	10.	ug/kg	02/13/95
Toluene	BQL	10.	ug/kg	02/13/95
Total Xylenes	BQL	10.	ug/kg	02/13/95
Trichloroethylene	BQL	10.	ug/kg	02/13/95
Vinyl acetate	BQL	10.	ug/kg	02/13/95
Vinyl chloride	BQL	10.	ug/kg	02/13/95

BQL = Below Quantitation Limit

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989

2. Clean Water Act, List of Approved Test Procedures, 40 CFR, 136.3 July 1, 1989

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987

ENVIRITE CORP. (THOMASTON)
1 Waterbury Road
Thomaston, CT 06787-

Location Collected: ENVIRITE CORP. THOMASTON, CT
Date Sample Collected: 02/08/1995
Sample Description: AA950208SLT01A
Envirite's Sample Number: 9500555
Date Sample Received: 02/09/1995

Parameter	Data	Quantitation Limit	Units	Analysis Date
Herbicide Extraction				02/21/95
Base/Neutral & Acidic Extraction				02/20/95
Solid Pesticide/PCB Extraction				02/20/95
Cyanide, Total	BQL	0.50	mg/kg	02/10/95
Sulfide, Total	20.	10.	mg/kg	02/14/95
Silver, Leachate	BQL	0.030	mg/L	03/06/95
Arsenic, Leachate	BQL	0.0050	mg/L	03/06/95
Barium, Leachate	BQL	0.50	mg/L	03/06/95
Beryllium, Leachate	BQL	0.020	mg/L	03/06/95
Cadmium, Leachate	BQL	0.010	mg/L	03/06/95
Cobalt, Leachate	BQL	0.10	mg/L	03/06/95
Chromium, Leachate	BQL	0.040	mg/L	03/06/95
Copper, Leachate	BQL	0.020	mg/L	03/06/95
Mercury, Leachate	BQL	0.0010	mg/L	02/22/95
Leachable Metals Digestion				02/22/95
Nickel, Leachate	BQL	0.30	mg/L	03/06/95
Lead, Leachate	BQL	0.60	mg/L	03/06/95
Antimony, Leachate	BQL	0.40	mg/L	03/06/95
Selenium, Leachate	BQL	0.050	mg/L	03/06/95
Tin, Leachate	BQL	1.0	mg/L	03/06/95
Thallium, Leachate	BQL	0.40	mg/L	03/06/95
Vanadium, Leachate	BQL	1.0	mg/L	03/06/95
Zinc, Leachate	0.080	0.010	mg/L	03/06/95
Silver, Total	0.60	0.60	mg/kg	03/02/95
Arsenic, Total	BQL	1.0	mg/kg	03/02/95
Barium, Total	87.	10.	mg/kg	03/02/95
Beryllium, Total	BQL	0.40	mg/kg	03/02/95
Cadmium, Total	BQL	0.20	mg/kg	03/02/95
Cobalt, Total	9.6	2.0	mg/kg	03/02/95
Chromium, Total	20.	0.80	mg/kg	03/02/95
Copper, Total	28.	0.40	mg/kg	03/02/95
Mercury, Total	BQL	0.020	mg/kg	02/22/95
Metals Digestion for Solid Sample			mg/kg	02/22/95
Nickel, Total	11.	0.60	mg/kg	03/02/95
Lead, Total	2.0	1.2	mg/kg	03/02/95
Antimony, Total	BQL	8.0	mg/kg	03/02/95
Selenium, Total	BQL	1.0	mg/kg	03/02/95
Tin, Total	BQL	16.	mg/kg	03/02/95
Thallium, Total	BQL	8.0	mg/kg	03/02/95
Vanadium, Total	33.	20.	mg/kg	03/02/95

F''IRITE CORP. (THOMASTON)
(. Waterbury Road
Thomaston, CT 06787-

Location Collected: ENVIRITE CORP. THOMASTON, CT
Date Sample Collected: 02/08/1995
Sample Description: AA950208SLT01A
Envirite's Sample Number: 9500555
Date Sample Received: 02/09/1995

Parameter	Data		Quantitation Limit	Units	Analysis Date
Zinc, Total	30.		2.0	mg/kg	03/02/95
Semi-Volatiles List - Thomaston RFI - Method 8270					
2,4,5-Trichlorophenol	BQL		330.	ug/kg	03/02/95
2,4,6-Trichlorophenol	BQL		330.	ug/kg	03/02/95
2,4-Dichlorophenol	BQL		330.	ug/kg	03/02/95
2,6-Dichlorophenol	BQL		330.	ug/kg	03/02/95
2-Chlorophenol	BQL		330.	ug/kg	03/02/95
2-Methylnaphthalene	BQL		330.	ug/kg	03/02/95
Acenaphthene	BQL		330.	ug/kg	03/02/95
Anthracene	BQL		330.	ug/kg	03/02/95
Bis (2-ethylhexyl) phthalate	BQL		330.	ug/kg	03/02/95
Butyl benzylphthalate	BQL		330.	ug/kg	03/02/95
Dibenzofuran	BQL		330.	ug/kg	03/02/95
Diethylphthalate	41.	J	330.	ug/kg	03/02/95
Di-n-octylphthalate	BQL		330.	ug/kg	03/02/95
Di-n-butylphthalate	650.	J	330.	ug/kg	03/02/95
Fluoranthene	BQL		330.	ug/kg	03/02/95
Fluorene	BQL		330.	ug/kg	03/02/95
Naphthalene	BQL		330.	ug/kg	03/02/95
N-Nitrosodimethylamine	BQL		330.	ug/kg	03/02/95
N-Nitrosodiphenylamine	BQL		330.	ug/kg	03/02/95
Phenanthrene	11.	J	330.	ug/kg	03/02/95
Pyrene	10.	J	330.	ug/kg	03/02/95
Benzo (a) pyrene	BQL		330.	ug/kg	03/02/95
Benzo (b) fluoranthene	BQL		330.	ug/kg	03/02/95
Benzo (k) fluoranthene	BQL		330.	ug/kg	03/02/95
Pests/PCBs List for Thomaston RFI - Method 8080					
4,4'-DDE	BQL		0.10	ug/kg	03/07/95
4,4'-DDT	BQL		0.10	ug/kg	03/07/95
Aldrin	BQL			ug/kg	03/07/95
Dieldrin	BQL		0.10	ug/kg	03/07/95
Endrin aldehyde	BQL		0.10	ug/kg	03/07/95
Heptachlor	BQL		0.050	ug/kg	03/07/95
Methoxychlor	BQL		0.50	ug/kg	03/07/95
Aroclor 1242	BQL		1.0	ug/kg	03/07/95
Aroclor 1254	BQL		1.0	ug/kg	03/07/95
Endosulfan I	BQL		0.050	ug/kg	03/07/95
b-BHC	BQL		0.028	ug/kg	03/07/95
Endosulfan II	BQL		0.011	ug/kg	03/07/95
d-BHC	BQL		0.050	ug/kg	03/07/95

ENVIRITE CORP. (THOMASTON)
(Waterbury Road
Thomaston, CT 06787-

Location Collected: ENVIRITE CORP. THOMASTON, CT
Date Sample Collected: 02/08/1995
Sample Description: AA950208SLT01A
Envirite's Sample Number: 9500555
Date Sample Received: 02/09/1995

Parameter	Data		Quantitation Limit	Units	Analysis Date
g-BHC (Lindane)	BQL		0.014	ug/kg	03/07/95
Herbicides - Method SW-846-8150					
2,4,5-T	BQL		1.0	ug/kg	03/10/95
2,4,5-TP (Silvex)	BQL		1.0	ug/kg	03/10/95
2,4-D	BQL		1.0	ug/kg	03/10/95
2,4-DB	BQL		1.0	ug/kg	03/10/95
Dalapon	BQL		1.0	ug/kg	03/10/95
Dicamba	BQL		1.0	ug/kg	03/10/95
Dichloroprop	BQL		1.0	ug/kg	03/10/95
Dinoseb	BQL		1.0	ug/kg	03/10/95
MCPA	BQL		1.0	ug/kg	03/10/95
MCPP	BQL		1.0	ug/kg	03/10/95
Synthetic Rain Leaching Procedure					02/20/95
RFI Volatile list - Soils - Method 8240					
1,1,1-Trichloroethane	BQL		10.	ug/kg	02/13/95
1,1,2,2-Tetrachloroethane	BQL		10.	ug/kg	02/13/95
1,1,2-Trichloroethane	BQL		10.	ug/kg	02/13/95
1,1-Dichloroethane	BQL		10.	ug/kg	02/13/95
1,1-Dichloroethene	BQL		10.	ug/kg	02/13/95
1,2-Dichloroethane	BQL		10.	ug/kg	02/13/95
1,2-Dichloropropane	BQL		10.	ug/kg	02/13/95
Dibromochloromethane	BQL		10.	ug/kg	02/13/95
2-Chloroethyl vinyl ether	BQL		10.	ug/kg	02/13/95
2-Hexanone	BQL		10.	ug/kg	02/13/95
Acetone	BQL		10.	ug/kg	02/13/95
Benzene	BQL		10.	ug/kg	02/13/95
Bromodichloromethane	BQL		10.	ug/kg	02/13/95
Bromomethane	BQL		10.	ug/kg	02/13/95
Bromoform	BQL		10.	ug/kg	02/13/95
cis-1,2-Dichloroethene	BQL		10.	ug/kg	02/13/95
cis-1,3-Dichloropropene	BQL		10.	ug/kg	02/13/95
Carbon disulfide	BQL		10.	ug/kg	02/13/95
Carbon tetrachloride	BQL		10.	ug/kg	02/13/95
Chloroform	BQL		10.	ug/kg	02/13/95
Chlorobenzene	BQL		10.	ug/kg	02/13/95
Chloroethane	BQL		10.	ug/kg	02/13/95
Chloromethane	BQL		10.	ug/kg	02/13/95
Ethylbenzene	BQL		10.	ug/kg	02/13/95
Methylene chloride	2.2	J	10.	ug/kg	02/13/95
2-Butanone (MEK)	BQL		10.	ug/kg	02/13/95

E' 'IRITE CORP. (THOMASTON)
C. . Waterbury Road
Thomaston, CT 06787-

Location Collected: ENVIRITE CORP. THOMASTON, CT
Date Sample Collected: 02/08/1995
Sample Description: AA950208SLTO1A
Envirite's Sample Number: 9500555
Date Sample Received: 02/09/1995

Parameter	Data	Quantitation Limit	Units	Analysis Date
4-Methyl-2-Pentanone	BQL	10.	ug/kg	02/13/95
Styrene	BQL	10.	ug/kg	02/13/95
trans-1,2-Dichloroethene	BQL	10.	ug/kg	02/13/95
trans-1,3-Dichloropropene	BQL	10.	ug/kg	02/13/95
Tetrachloroethylene	BQL	10.	ug/kg	02/13/95
Toluene	BQL	10.	ug/kg	02/13/95
Total Xylenes	BQL	10.	ug/kg	02/13/95
Trichloroethylene	BQL	10.	ug/kg	02/13/95
Vinyl acetate	BQL	10.	ug/kg	02/13/95
Vinyl chloride	BQL	10.	ug/kg	02/13/95

BQL = Below Quantitation Limit

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989

2. Clean Water Act, List of Approved Test Procedures, 40 CFR, 136.3 July 1, 1989

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987

Appendix B

Analytical Parameter Lists

Derivation of Tables 1 and 2

Table 1, entitled "A Comparison of UST Soils to Applicable Clean-up Standards," was assembled through the utilization of several data sources. Analytical parameters were selected as follows: First, analytical parameters presented in Table 9-13, "Underground Tank AOC Soils Analytical Data Summary," March 1995 RFI Phase I Report, were selected on the basis that the parameters listed are representative of the site-specific constituent list determined at the time these analyses were performed. All parameters are reported, regardless of whether a compound was quantifiable or not. Second, any parameters presented in Table 7-3, "Appendix IX Derived Landfill Treatment Residue Parameter List," also from the March 1995 RFI Phase I Report, which were not included in Table 9-13, are included in Table 1.

All quantifiable concentrations reported in Table 1 represent the maximum and minimum concentrations determined from the analysis of samples T-3B and T-4B obtained on November 16, 1994 from borings T-3 and T-4, respectively, installed in the area of the east UST. Constituents not quantifiable are reported as "BQL."

Additionally, analytical data obtained from a February 1995 analysis of soil boring samples T-1A, T-2B, T-6A, and T-6B were reviewed, and the data was compared to the values presented in Table 9-13. If any concentration value was found to exceed a minimum or maximum value listed in Table 9-13, the higher value was substituted in the table for that particular constituent.

Units of measure are mg/kg for all parameters, except for certain leachable metals values. For example, the site-specific parameter list included leachable metals analysis. These analytical results are reported in mg/l. Comparable CT GB Mobility Criteria for metals and PCBs by TCLP or SPLP are also reported in mg/l.

Table 1, columns five and six, ~~list the clean-up standards selected for this interim measure~~ CONTAIN THE RELEVANT STANDARDS REFERENCED AS. ~~in column five lists the~~ State of Connecticut GB Mobility Criteria AND STATE OF CONNECTICUT INDUSTRIAL/COMMERCIAL DIRECT EXPOSURE TO SOIL CRITERIA, RESPECTIVELY, AS CODIFIED IN THE REGULATIONS OF STATE OF CONNECTICUT AGENCIES Sections 22a-133k-ET SEQ. ~~1 through 22a-133k-3 of the Connecticut State Agencies Pollutant Mobility Criteria for Soil. Any constituent from the GB mobility standard list corresponding to any constituent in Table 1 is entered in column five~~. Column SEVEN ~~six~~ lists the U.S. EPA Soil Screening Levels - Transfers from Soil to Groundwater, as presented in the October 20, 1995 Risk-Based Concentration Table, July - December 1995, from Roy L. Smith, Ph. D., Office of RCRA, Technical & Program Support Branch (3HW70). Any compound for which EPA has established a risk-based value, is entered in column six. If a Soil to Groundwater value is not established for a particular constituent, then the Soil Ingestion, Industrial, value was substituted.

Table 2 is comprised of compounds listed in CFR 261.24, Maximum Concentration of Contaminants of the Toxicity Characteristic, which are not already listed in Table 1. All Table 2 constituents will be analyzed with the Table 1 parameters for the purpose, if necessary, of making a toxicity characteristic determination should excavated soils need to be disposed. These compounds are listed separately to differentiate them from the site-specific parameters.

Envirite Corporation UST Removal Workplan

Table 1 of Appendix B (Revised August 30, 1996))
Comparing Soil Constituent Concentrations to Applicable Cleanup Standards (p. 1 of 4)

No	Compound	Min. Conc. Detected	Max. Conc. Detected	CT GB Mobility Std. *	CT Industl. Dir.Exp.**	EPA Risk-Based Levels ***
	Volatile Compounds					
1	1,1,1-Trichloroethane	0.0083	0.0083	40.	1,000.	0.9
2	1,1,2-Trichloroethane	BQL	BQL	1.	100.	0.01
3	1,1-Dichloroethene	0.0005	0.0005	1.4	9.5	0.03
4	1,2-Dichloroethane	BQL	BQL	0.2	63.	0.01
5	1,2-Dichloropropane	BQL	BQL	1.0	84.	0.02
6	1,1,2,2-Tetrachloroethane	BQL	BQL	0.1	29.	0.001
7	2-Butanone (MEK)	0.18	0.18	80.	1,000.	1,000,000 [1]
8	2-Chloroethyl vinyl ether	BQL	BQL	NL	NL	51,000[1]
9	2-Hexanone	0.0012	0.0012	NL	NL	NL
10	4-Methyl-2-pentanone (MIBK)	0.0066	0.0066	14.	1,000.	160,000 [1]
11	Acetone	0.007	0.13	140.	1,000.	8.
12	Acrolein	BQL	BQL	NL	NL	41,000 [1]
13	Benzene	BQL	BQL	0.2	200.	0.02
14	Bromoform	BQL	BQL	NL	720.	0.5
15	Bromomethane	BQL	BQL	NL	NL	0.1
16	Bromodichloromethane	BQL	BQL	NL	NL	0.3
17	Carbon disulfide	0.0015	0.0015	NL	NL	14.
18	Carbon tetrachloride	BQL	BQL	1.	44.	0.03
19	Chlorobenzene	0.0013	0.0013	20	1,000.	0.6
20	Chloroform	0.11	0.11	1.2	940.	0.3
21	Chloroethane	BQL	BQL	NL	NL	33.
22	Chloromethane	BQL	BQL	NL	NL	0.0066
23	Cis-1,2-Dichloroethene	BQL	BQL	14.	1,000.	0.2
24	Cis-1,3-Dichloropropene	BQL	BQL	0.1	32.	0.001
25	Dibromochloromethane	BQL	BQL	0.1	68.	NL
26	1,1-Dichloroethane	BQL	BQL	14.	1,000.	11.
27	Ethylbenzene	0.05	0.05	10.1	1,000.	5.
28	Methylene Chloride	0.002 (J)	0.003 (J)	1.0	760.	0.01
29	Styrene	0.01	0.01	20.	1,000.	2.
30	Tetrachloroethene	0.28	0.28	1.	110.	0.04
31	Toluene	0.0016	0.0016	67.	1,000.	5.
32	Trans-1,2-Dichloroethene	BQL	BQL	20	1,000.	0.3
33	Trans-1,3-Dichloropropene	BQL	BQL	0.1	32.	0.001
34	Trichloroethene	0.11	0.11	1.0	520.	0.02
35	Xylenes (total)	0.1	0.1	19.5	1,000.	74.
36	Vinyl Acetate	BQL	BQL	NL	NL	84.
37	Vinyl Chloride	BQL	BQL	0.40	3.	0.01
	Semi-Volatiles					
38	2,4-Dichlorophenol	BQL	BQL	4.	2,500.	0.5
39	2,6-Dichlorophenol	BQL	BQL	NL	NL	NL

Envirite Corporation UST Removal Workplan

Table 1 of Appendix B (Revised August 30, 1996))
Comparing Soil Constituent Concentrations to Applicable Cleanup Standards (p. 2 of 4)

No	Compound	Min. Conc. Detected	Max. Conc. Detected	CT GB Mobility Std. *	CT Industl. Dir.Exp.**	EPA Risk-Based Levels ***
40	2-Methylnaphthalene	0.033	0.033	NL	NL	NL
41	2,4,5-Trichlorophenol	BQL	BQL	NL	NL	120.
42	2,4,6-Trichlorophenol	BQL	BQL	NL	NL	0.06
43	Acenaphthene	BQL	BQL	84.	2,500.	200.
44	Anthracene	0.019	0.019	400.	2,500.	4,300.
45	Benzo(a)pyrene	0.1	0.1	1.	1.	4.
46	Benzo(b)fluoranthene	0.089	0.089	1.	7.8	4.
47	Benzo(k)fluoranthene	0.1	0.1	1.	78.	4.
48	Bis(2-ethylhexyl)phthalate	0.16	0.31	11.	410.	11.
49	Butylbenzylphthalate	0.029	0.029	200.	1,000.	68.
50	2-Chlorophenol	BQL	BQL	7.2	2,500.	2.
51	Diethylphthalate	BQL	0.041 (J)	NL	NL	110.
52	Di-n-butylphthalate	0.03 (J)	0.650 (J)	140.	2,500.	NL
53	Di-n-octylphthalate	0.041 (J)	0.041 (J)	20.	2,500.	1,000,000
54	Dibenzofuran	0.02	0.02	NL	NL	120.
55	Diethylphthalate	15 (J)	61 (J)	NL	NL	110.
56	Fluoranthene	0.01	0.21	56.	2,500	980.
57	Fluorene	0.02	0.02	56.	2,500	160.
58	Naphthalene	0.015	0.015	56.	2,500	30.
59	N-Nitrosodiphenylamine	BQL	BQL	NL	NL	0.2
60	N-Nitrosodimethylamine	BQL	BQL	NL	NL	0.11 [1]
61	Phenanthrene	0.011 (J)	0.12	40.	2,500.	NL
62	Pyrene	0.010 (J)	0.16	40.	2,500.	1,400.
	Pesticides & PCBs					
63	Alpha-BHC	NA	NA	NL	NL	0.0004
64	Beta-BHC	BQL	BQL	NL	NL	0.002
65	Delta-BHC	0.0011	0.0011	NL	NL	NL
66	Gamma-BHC (Lindane)	0.0005	0.001	0.04	610.	0.006
67	Heptachlor	BQL	BQL	0.013	NL	0.06
68	Aldrin	BQL	BQL	NL	NL	0.005
69	Heptachlor Epoxide	BQL	BQL	0.02	0.63	0.03
70	Dalapon	BQL	BQL	NL	NL	61,000 [1]
71	Dieldrin	BQL	BQL	0.007	0.36	0.001
72	Dinoseb	BQL	BQL	NL	NL	2,000 [1]
73	4,4-DDE	BQL	BQL	NL	NL	0.5
74	4,4-DDT	0.0005	0.0005	NL	NL	1.
75	Endosulfan I	BQL	BQL	NL	NL	3. [5]
76	Endosulfan II	BQL	BQL	NL	NL	3. [5]
77	4,4-DDD	BQL	BQL	NL	NL	0.7
78	Endosulfan Sulfate	BQL	BQL	NL	NL	NL
79	Methoxychlor	BQL	BQL	8.	10,000.	62.
80	Endrin Aldehyde	BQL	BQL	NL	NL	NL

Envirite Corporation UST Removal Workplan

Table 1 of Appendix B (Revised August 30, 1996))
Comparing Soil Constituent Concentrations to Applicable Cleanup Standards (p. 3 of 4)

No	Compound	Min. Conc. Detected	Max. Conc. Detected	CT GB Mobility Std. *	CT Industl. Dir.Exp.**	EPA Risk-Based Levels ***
81	Gamma-Chlordane	BQL	BQL	NL	NL	2.
82	Tetrachloro-m-xylene	BQL	BQL	NL	NL	NL
83	Decachlorobiphenyl (PCBs)	BQL	BQL	0.005 $_6$	10.	NL
84	Aroclor 1242	BQL	BQL	NL	NL	NL
85	Aroclor 1254	0.0077	0.021	NL	NL	41. $_1$
86	Aroclor 1260	BQL	BQL	NL	NL	NL
	Herbicides					
87	2,4-D	BQL	BQL	14.	20,000.	1.7
88	2,4-DB	BQL	BQL	NL	NL	16,000 $_1$
89	2,4,5-TP (Silvex)	BQL	BQL	NL	NL	16,000 $_1$
90	2,4,5-T	BQL	BQL	NL	NL	20,000$_1$
91	Dicamba	BQL	BQL	NL	NL	61,000 $_1$
92	Dichloroprop	BQL	BQL	NL	NL	NL
93	MCPA	BQL	BQL	NL	NL	1,000 $_1$
94	MCPP	BQL	BQL	NL	NL	2,000 $_1$
	Total Petroleum Hydrocarbons (TPH)					
95	TPH, by EPA Method 418.1	NA	NA	2,500	2,500.	NL
	Metals				Leachable units are mg/l	
96	Antimony, total	BQL	BQL	NL	8,200.	820 $_1$
97	Antimony, leachable	BQL	BQL	0.06		NL
98	Arsenic, total	0.26	0.28	NL	10.	15.
99	Arsenic, leachable	BQL	BQL	0.5		NL
100	Barium, total	23.	87.	NL	140,000.	32.
101	Barium, leachable	BQL	BQL	10.0		NL
102	Beryllium, total	0.6	0.62	NL	2.	180
103	Beryllium, leachable	BQL	BQL	0.04		NL
104	Cadmium, total	1.1	1.1	NL	1,000.	6.
105	Cadmium, leachable	BQL	BQL	0.05		NL
106	Chromium, total	8.4	50.	NL	51,000.	19. $_3$
107	Chromium, leachable	BQL	BQL	0.5		NL
108	Cobalt, total	4.0	8.8	NL	NL	120,000 $_1$
109	Cobalt, leachable	BQL	BQL	NL		NL
110	Copper, total	27.	110	NL	76,000.	82,000 $_1$
111	Copper, leachable	BQL	BQL	13.		NL
112	Lead, total	1.6	14.	NL	1,000.	400. $_4$
113	Lead, leachable	BQL	BQL	0.15		NL
114	Mercury, total	BQL	BQL	BQL	610.	3.
115	Mercury, leachable	BQL	BQL	0.02		NL
116	Nickel, total	9.6	19.	BQL	7,500.	21.
117	Nickel, leachable	BQL	BQL	1.0		NL
118	Selenium, total	BQL	BQL	BQL	10,000.	3.
19	Selenium, leachable	BQL	BQL	0.5		NL
120	Silver, total	0.60	1.2	NL	10,000.	10,000 $_1$

Envirite Corporation UST Removal Workplan

Table 1 of Appendix B (Revised August 30, 1996))
Comparing Soil Constituent Concentrations to Applicable Cleanup Standards (p. 4 of 4)

No	Compound	Min. Conc. Detected	Max. Conc. Detected	CT GB Mobility Std. *	CT Industl. Dir.Exp.**	EPA Risk-Based Levels ***
121	Silver, leachable	BQL	BQL	0.36		NL
122	Thallium, total	BQL	BQL	NL	160.	0.4
123	Thallium, leachable	BQL	BQL	0.05		NL
124	Tin, Total	BQL	BQL	NL	NL	1,000,000 1
125	Tin, Leachable	BQL	BQL	NL		NL
126	Vanadium, total	33.	40.	NL	14,000.	14,000 1
127	Vanadium, leachable	BQL	BQL	0.50		NL
128	Zinc, total	29.	83.	NL	610,000.	42,000
129	Zinc, leachable	0.062	0.080	50.		NL
	Inorganics					
130	Cyanide, Total	5.8	5.8	NL	41,000	41,000. 2
131	Cyanide, leachable	NA	NA	2. by SPLP		
132	Sulfide, Total	15.	30.	NL	NL	NL

Notes:

All units are mg/kg unless noted otherwise.

NA - Not analyzed
NL - Not listed in agency risk guidance
BQL - Below Method Detection Limit
1 - Soil ingestion, industrial, risk-based concentration
2 - As free cyanide, soil ingestion, industrial, risk-based concentration
3 - $Cr+^6$ criterion
4 - De facto residential soil value
5 - As endosulfan
6 - DEP standard lists only total PCBs

* December 1995 State of Connecticut Remediation Standards, section 22a-430 of the General Statutes; Pollutant Mobility Criteria for Soil, GB Mobility Criteria.

** December 1995 State of Connecticut Remediation Standards, section 22a-430 of the General Statutes; Direct Exposure Criteria for Soil, Industrial/Commercial

*** EPA Region III Risk-Based Concentration Table, July - December 1995; from Roy L. Smith, Office of RCRA, Technical and Program Support Branch (3HW70). Soil Screening Levels - Transfers from Soil to Groundwater.

Shaded cells represent exceedences of either a State or Federal clean-up standard.

Table 2

Additional Parameters for Toxicity Characteristic Determination

No.	Compound	CT GB Mobility Standard *	EPA Risk-Based Standard **	CT Residntl. Direct Exposure	TC Regulatory Level
1	Chlordane	0.066	2.	2.2	0.03
2	o-Cresol	NL	NL	NL	200.0
3	m-Cresol	NL	NL	NL	200.0
4	p-Cresol	NL	NL	NL	200.0
5	Cresol	NL	NL	NL	200.0
6	1,4-Dichlorobenzene	15.	1.	240.	7.5
7	2,4-Dinitrotoluene	NL	0.2	NL	0.13
8	Endrin	NL	0.4	610.	0.02
9	Hexachlorobenzene	1.	0.8	3.6	0.13
10	Hexachlorobutadiene	NL	0.1	NL	0.5
11	Hexachloroethane	1.	0.2	410.	3.0
12	Nitrobenzene	NL	0.09	NL	2.0
13	Pentachlorophenol	1.	0.2	48.	100.0
14	Pyridine	NL	2,000 [1]	NL	5.0
15	Toxaphene	NL	0.04	5.2	0.5

Notes:

All units are mg/kg unless noted otherwise.

NL - Not listed in agency risk guidance

[1] - Soil ingestion, industrial, risk-based concentration

* December 1995 State of Connecticut Remediation Standards, under section 22a-430 of the General Statutes; Pollutant Mobility Criteria for Soil, GB Mobility Criteria.

** December 1995 State of Connecticut Remediation Standards, section 22a-430 of the General Statutes; Direct Exposure Criteria for Soil, Industrial/Commercial

*** EPA Region III Risk-Based Concentration Table, July - December 1995; from Roy L. Smith, Office of RCRA, Technical and Program Support Branch (3HW70). Soil Screening Levels - Transfers from Soil to Groundwater.

Appendix C

Chemical Constituent Analysis of West UST

ENVIRITE CORPORATION
620 West Germantown Pike
Plymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 07/01/1996
Sample Description: West Tank
EAS Project Number: 0745-96
EAS Sample Number: 9603408
Date Sample Received: 07/01/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Cyanide, Reactive	BQL	10.	mg/L	07/08/96
Flashpoint	> 100		°C	07/10/96
pH	1.3			07/03/96
Sulfide, Reactive	BQL	10.	mg/L	07/12/96
Leachable Metals Digestion - Method SW846				07/12/96
Silver, Leachate	1.1	0.30	mg/L	07/12/96
Arsenic, Leachate	0.63	0.20	mg/L	07/12/96
Barium, Leachate	BQL	5.0	mg/L	07/12/96
Cadmium, Leachate	13.	1.0	mg/L	07/12/96
Chromium, Leachate	920.	40.	mg/L	07/12/96
Mercury, Leachate	0.26	0.050	mg/L	07/12/96
Lead, Leachate	39.	0.60	mg/L	07/12/96
Selenium, Leachate	BQL	0.50	mg/L	07/12/96
Aqueous TCLP Herbicide Extraction - Method SW-846-8150				07/08/96
TCLP for Herbicides - Method SW-846-8000				
2,4,5-TP (Silvex)	BQL	10.	ug/L	07/15/96
2,4-D	BQL	10.	ug/L	07/15/96
Aqueous TCLP Pesticide Extraction - Method 608/8080				07/01/96
TCLP for Pesticides - Method SW-846-8000				
Chlordane	BQL	25.	ug/L	07/18/96
Endrin	BQL	4.0	ug/L	07/18/96
Heptachlor	BQL	4.0	ug/L	07/18/96
Heptachlor epoxide	BQL	4.0	ug/L	07/18/96
Methoxychlor	BQL	4.0	ug/L	07/18/96
Toxaphene	BQL	50.	ug/L	07/18/96
g-BHC (Lindane)	BQL	4.0	ug/L	07/18/96
Aqueous TCLP BNA Extraction - Method SW-846				07/01/96
TCLP Leachate for Semi-VOC's - Method SW-846-8000				
1,4-Dichlorobenzene	BQL	20.	ug/L	07/08/96
2,4,5-Trichlorophenol	BQL	20.	ug/L	07/08/96
2,4,6-Trichlorophenol	BQL	20.	ug/L	07/08/96
2,4-Dinitrotoluene	BQL	20.	ug/L	07/08/96
Total Cresol	BQL	60.	ug/L	07/08/96
Hexachlorobenzene	BQL	20.	ug/L	07/08/96
Hexachlorobutadiene	BQL	20.	ug/L	07/08/96
Hexachloroethane	BQL	20.	ug/L	07/08/96

ENVIRITE CORPORATION
620 West Germantown Pike
Plymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 07/01/1996
Sample Description: West Tank
EAS Project Number: 0745-96
EAS Sample Number: 9603408
Date Sample Received: 07/01/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
m-Cresol	BQL	20.	ug/L	07/08/96
Nitrobenzene	BQL	20.	ug/L	07/08/96
o-Cresol	BQL	20.	ug/L	07/08/96
p-Cresol	BQL	20.	ug/L	07/08/96
Pentachlorophenol	BQL	100.	ug/L	07/08/96
Pyridine	BQL	20.	ug/L	07/08/96
TCLP Leachate for VOC's - Method SW-846-8000				
1,1-Dichloroethene	BQL	0.10	mg/L	07/15/96
1,2-Dichloroethane	BQL	0.10	mg/L	07/15/96
Benzene	BQL	0.10	mg/L	07/15/96
Carbon tetrachloride	BQL	0.10	mg/L	07/15/96
Chloroform	BQL	0.10	mg/L	07/15/96
Chlorobenzene	BQL	0.10	mg/L	07/15/96
2-Butanone (MEK)	BQL	0.10	mg/L	07/15/96
Tetrachloroethylene	0.16	0.10	mg/L	07/15/96
Trichloroethylene	1.3	0.10	mg/L	07/15/96
Vinyl chloride	BQL	0.10	mg/L	07/15/96

BQL = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

2. Clean Water Act, List of Approved Test Procedures, 40 CFR.

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

APPENDIX C

ENVIRITE CORPORATION
620 West Germantown Pike
F mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 10/24/1996
Sample Description: Back Fill Soil "A"
EAS Project Number: 1306-96
EAS Sample Number: 9605880
Date Sample Received: 11/01/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Herbicide Extraction				11/03/96
Solid Pesticide/PCB Extraction				11/05/96
Cyanide - Leachable	BQL	0.10	mg/L	11/05/96
Cyanide, Total	BQL	5.0	mg/kg	11/05/96
Sulfide, Total	BQL	10.	mg/kg	11/06/96
Total Petroleum Hydrocarbons	BQL	40.	mg/kg	11/04/96
Leachable Metals Digestion - Method SW846				11/06/96
Metal's Digestion for Solid Samples - Method SW-846-3050				11/06/96
Silver, Leachate	BQL	0.035	mg/L	11/11/96
A enic, Leachate	BQL	0.050	mg/L	11/06/96
Ba ium, Leachate	BQL	1.0	mg/L	11/12/96
Beryllium, Leachate	BQL	0.0010	mg/L	11/08/96
Cadmium, Leachate	BQL	0.0050	mg/L	11/08/96
Cobalt, Leachate	BQL	0.050	mg/L	11/11/96
Chromium, Leachate	BQL	0.050	mg/L	11/08/96
Copper, Leachate	BQL	0.20	mg/L	11/08/96
Mercury, Leachate	BQL	0.0020	mg/L	11/08/96
Nickel, Leachate	BQL	0.030	mg/L	11/08/96
Lead, Leachate	BQL	0.015	mg/L	11/08/96
Antimony, Leachate	BQL	0.0050	mg/L	11/08/96
Selenium, Leachate	BQL	0.050	mg/L	11/06/96
Tin, Leachate	BQL	1.5	mg/L	11/12/96
Thallium, Leachate	BQL	0.0050	mg/L	11/08/96
Vanadium, Leachate	BQL	0.050	mg/L	11/11/96
Zinc, Leachate	BQL	1.0	mg/L	11/08/96
Silver, Total	BQL	0.60	mg/kg	11/08/96
Arsenic, Total	BQL	1.0	mg/kg	11/06/96
Barium, Total	BQL	20.	mg/kg	11/12/96
Beryllium, Total	BQL	0.40	mg/kg	11/11/96
Cadmium, Total	BQL	0.10	mg/kg	11/08/96
Cobalt, Total	3.4	1.0	mg/kg	11/11/96
Chromium, Total	3.4	1.0	mg/kg	11/08/96
Copper, Total	9.0	0.40	mg/kg	11/08/96
Mercury, Total	BQL	0.10	mg/kg	11/08/96
Nickel, Total	5.4	0.60	mg/kg	11/08/96
L l, Total	BQL	1.2	mg/kg	11/08/96
Antimony, Total	BQL	10.	mg/kg	11/08/96
Selenium, Total	BQL	1.0	mg/kg	11/06/96

ENVIRITE CORPORATION
620 West Germantown Pike
mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 10/24/1996
Sample Description: Back Fill Soil "A"
EAS Project Number: 1306-96
EAS Sample Number: 9605880
Date Sample Received: 11/01/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Tin, Total	BQL		30.	mg/kg	11/12/96
Thallium, Total	BQL		0.40	mg/kg	11/08/96
Vanadium, Total	BQL		20.	mg/kg	11/12/96
Zinc, Total	10.		2.0	mg/kg	11/08/96
Base/Neutral and Acidic Extractable - Method SW-846-8270					11/04/96
Semi-Volatiles List - Thomaston RFI - Method 8270					
1,4-Dichlorobenzene	BQL		330.	ug/kg	11/07/96
2,4,5-Trichlorophenol	BQL		330.	ug/kg	11/07/96
2,4,6-Trichlorophenol	BQL		60.	ug/kg	11/07/96
2,4-Dichlorophenol	BQL		330.	ug/kg	11/07/96
2,4-Dinitrotoluene	BQL		330.	ug/kg	11/07/96
2,6-Dichlorophenol	BQL		330.	ug/kg	11/07/96
2-Chlorophenol	BQL		330.	ug/kg	11/07/96
2-Methylnaphthalene	BQL		330.	ug/kg	11/07/96
Acenaphthene	BQL		330.	ug/kg	11/07/96
Anthracene	BQL		330.	ug/kg	11/07/96
Bis (2-ethylhexyl) phthalate	37.	J	330.	ug/kg	11/07/96
Butyl benzylphthalate	BQL		330.	ug/kg	11/07/96
Total Cresol	BQL		990.	ug/kg	11/07/96
Dibenzofuran	BQL		330.	ug/kg	11/07/96
Diethylphthalate	BQL		330.	ug/kg	11/07/96
Di-n-octylphthalate	BQL		330.	ug/kg	11/07/96
Di-n-butylphthalate	310.	J	330.	ug/kg	11/07/96
Fluoranthene	BQL		330.	ug/kg	11/07/96
Fluorene	BQL		330.	ug/kg	11/07/96
Hexachlorobenzene	BQL		330.	ug/kg	11/07/96
Hexachlorobutadiene	BQL		330.	ug/kg	11/07/96
Hexachloroethane	BQL		330.	ug/kg	11/07/96
m-Cresol	BQL		330.	ug/kg	11/07/96
Naphthalene	BQL		330.	ug/kg	11/07/96
Nitrobenzene	BQL		330.	ug/kg	11/07/96
N-Nitrosodimethylamine	BQL		100.	ug/kg	11/07/96
N-Nitrosodiphenylamine	BQL		200.	ug/kg	11/07/96
o-Cresol	BQL		330.	ug/kg	11/07/96
p-Cresol	BQL		330.	ug/kg	11/07/96
Pentachlorophenol	BQL		1000.	ug/kg	11/07/96
Phenanthrene	BQL		330.	ug/kg	11/07/96
Pyrene	BQL		330.	ug/kg	11/07/96
Pyridine	BQL		330.	ug/kg	11/07/96

ENVIRITE CORPORATION
620 West Germantown Pike
I mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 10/24/1996
Sample Description: Back Fill Soil "A"
EAS Project Number: 1306-96
EAS Sample Number: 9605880
Date Sample Received: 11/01/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Benzo (a) pyrene	BQL	330.	ug/kg	11/07/96
Benzo (b) fluoranthene	BQL	330.	ug/kg	11/07/96
Benzo (k) fluoranthene	BQL	330.	ug/kg	11/07/96
Solid Matrix Herbicides Long - Method 8150				
2,4,5-T	BQL	0.010	mg/kg	11/06/96
2,4,5-TP (Silvex)	BQL	0.010	mg/kg	11/06/96
2,4-D	BQL	0.050	mg/kg	11/06/96
2,4-DB	BQL	0.050	mg/kg	11/06/96
Dalapon	BQL	1.0	mg/kg	11/06/96
Dicamba	BQL	0.010	mg/kg	11/06/96
Dichloroprop	BQL	0.050	mg/kg	11/06/96
Dinoseb	BQL	0.010	mg/kg	11/06/96
MCPA	BQL	10.	mg/kg	11/06/96
MCPP	BQL	10.	mg/kg	11/06/96
Solid Matrix PCB's - Method 608/8080				
Aroclor 1016	BQL	0.033	mg/kg	11/07/96
Aroclor 1221	BQL	0.033	mg/kg	11/07/96
Aroclor 1232	BQL	0.033	mg/kg	11/07/96
Aroclor 1242	BQL	0.033	mg/kg	11/07/96
Aroclor 1248	BQL	0.033	mg/kg	11/07/96
Aroclor 1254	BQL	0.033	mg/kg	11/07/96
Aroclor 1260	BQL	0.033	mg/kg	11/07/96
Solid Matrix Pesticides - Method 608/8080				
4,4'-DDD	BQL	4.0	ug/kg	11/07/96
4,4'-DDE	BQL	4.0	ug/kg	11/07/96
4,4'-DDT	BQL	4.0	ug/kg	11/07/96
Aldrin	BQL	2.0	ug/kg	11/07/96
Dieldrin	BQL	1.0	ug/kg	11/07/96
Endosulfan sulfate	BQL	4.0	ug/kg	11/07/96
Endrin aldehyde	BQL	4.0	ug/kg	11/07/96
Endrin	BQL	4.0	ug/kg	11/07/96
Endrin ketone	BQL	4.0	ug/kg	11/07/96
Heptachlor	BQL	2.0	ug/kg	11/07/96
Heptachlor epoxide	BQL	2.0	ug/kg	11/07/96
Methoxychlor	BQL	20.	ug/kg	11/07/96
a-BHC	BQL	0.40	ug/kg	11/07/96
a-Chlordane	BQL	4.0	ug/kg	11/07/96

ENVIRITE CORPORATION
620 West Germantown Pike
mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 10/24/1996
Sample Description: Back Fill Soil "A"
EAS Project Number: 1306-96
EAS Sample Number: 9605880
Date Sample Received: 11/01/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Endosulfan I	BQL		4.0	ug/kg	11/07/96
b-BHC	BQL		2.0	ug/kg	11/07/96
b-Chlordane	BQL		4.0	ug/kg	11/07/96
Endosulfan II	BQL		4.0	ug/kg	11/07/96
d-BHC	BQL		2.0	ug/kg	11/07/96
g-BHC (Lindane)	BQL		2.0	ug/kg	11/07/96
Solid Matrix Toxaphene/Chlordane - Method 608/8080					
Chlordane	BQL		30.	ug/kg	11/07/96
Toxaphene	BQL		40.	ug/kg	11/07/96
Synthetic Rain Leaching Procedure					11/04/96
Rn Volatile list - Soils - Method 8260					
1,1,1-Trichloroethane	BQL		10.	ug/kg	11/05/96
1,1,2,2-Tetrachloroethane	BQL		1.0	ug/kg	11/05/96
1,1,2-Trichloroethane	BQL		10.	ug/kg	11/05/96
1,1-Dichloroethane	BQL		10.	ug/kg	11/05/96
1,1-Dichloroethene	BQL		10.	ug/kg	11/05/96
1,2-Dichloroethane	BQL		10.	ug/kg	11/05/96
1,2-Dichloropropane	BQL		10.	ug/kg	11/05/96
Dibromochloromethane	BQL		10.	ug/kg	11/05/96
2-Chloroethyl vinyl ether	BQL		10.	ug/kg	11/05/96
2-Hexanone	BQL		10.	ug/kg	11/05/96
Acetone	2.6	J	10.	ug/kg	11/05/96
Acrolein	BQL		100.	ug/kg	11/05/96
Benzene	BQL		10.	ug/kg	11/05/96
Bromodichloromethane	BQL		10.	ug/kg	11/05/96
Bromomethane	BQL		10.	ug/kg	11/05/96
Bromoform	BQL		10.	ug/kg	11/05/96
cis-1,2-Dichloroethene	BQL		10.	ug/kg	11/05/96
cis-1,3-Dichloropropene	BQL		1.0	ug/kg	11/05/96
Carbon disulfide	BQL		10.	ug/kg	11/05/96
Carbon tetrachloride	BQL		10.	ug/kg	11/05/96
Chloroform	BQL		10.	ug/kg	11/05/96
Chlorobenzene	BQL		10.	ug/kg	11/05/96
Chloroethane	BQL		10.	ug/kg	11/05/96
Chloromethane	BQL		6.6	ug/kg	11/05/96
Ethylbenzene	BQL		10.	ug/kg	11/05/96
Methylene chloride	3.9	J	10.	ug/kg	11/05/96
2-Butanone (MEK)	BQL		10.	ug/kg	11/05/96

ENVIRITE CORPORATION
620 West Germantown Pike
' 'mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 10/24/1996
Sample Description: Back Fill Soil "A"
EAS Project Number: 1306-96
EAS Sample Number: 9605880
Date Sample Received: 11/01/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
4-Methyl-2-Pentanone	BQL	10.	ug/kg	11/05/96
Styrene	BQL	10.	ug/kg	11/05/96
trans-1,2-Dichloroethene	BQL	10.	ug/kg	11/05/96
trans-1,3-Dichloropropene	BQL	1.0	ug/kg	11/05/96
Tetrachloroethylene	BQL	10.	ug/kg	11/05/96
Toluene	BQL	10.	ug/kg	11/05/96
Total Xylenes	BQL	10.	ug/kg	11/05/96
Trichloroethylene	BQL	10.	ug/kg	11/05/96
Vinyl acetate	BQL	10.	ug/kg	11/05/96
Vinyl chloride	BQL	10.	ug/kg	11/05/96

I = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

2. Clean Water Act, List of Approved Test Procedures, 40 CFR.

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

ENVIRITE CORPORATION
620 West Germantown Pike
F' mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 10/24/1996
Sample Description: Back Fill Soil "B"
EAS Project Number: 1306-96
EAS Sample Number: 9605881
Date Sample Received: 11/01/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Herbicide Extraction				11/03/96
Solid Pesticide/PCB Extraction				11/05/96
Cyanide - Leachable	BQL	0.10	mg/L	11/05/96
Cyanide, Total	BQL	5.0	mg/kg	11/05/96
Sulfide, Total	BQL	10.	mg/kg	11/06/96
Total Petroleum Hydrocarbons	BQL	60.	mg/kg	11/04/96
Leachable Metals Digestion - Method SW846				11/06/96
Metal's Digestion for Solid Samples - Method SW-846-3050				11/06/96
Silver, Leachate	BQL	0.035	mg/L	11/11/96
A enic, Leachate	BQL	0.050	mg/L	11/06/96
Ba ium, Leachate	BQL	1.0	mg/L	11/12/96
Beryllium, Leachate	BQL	0.0010	mg/L	11/08/96
Cadmium, Leachate	BQL	0.0050	mg/L	11/08/96
Cobalt, Leachate	BQL	0.050	mg/L	11/11/96
Chromium, Leachate	BQL	0.050	mg/L	11/08/96
Copper, Leachate	BQL	0.20	mg/L	11/08/96
Mercury, Leachate	BQL	0.0020	mg/L	11/08/96
Nickel, Leachate	BQL	0.030	mg/L	11/08/96
Lead, Leachate	BQL	0.015	mg/L	11/08/96
Antimony, Leachate	BQL	0.0050	mg/L	11/08/96
Selenium, Leachate	BQL	0.050	mg/L	11/06/96
Tin, Leachate	BQL	1.5	mg/L	11/12/96
Thallium, Leachate	BQL	0.0050	mg/L	11/08/96
Vanadium, Leachate	BQL	0.050	mg/L	11/11/96
Zinc, Leachate	BQL	1.0	mg/L	11/08/96
Silver, Total	BQL	0.70	mg/kg	11/11/96
Arsenic, Total	BQL	1.0	mg/kg	11/06/96
Barium, Total	BQL	20.	mg/kg	11/12/96
Beryllium, Total	BQL	0.40	mg/kg	11/11/96
Cadmium, Total	BQL	0.10	mg/kg	11/08/96
Cobalt, Total	3.4	1.0	mg/kg	11/11/96
Chromium, Total	4.2	1.0	mg/kg	11/08/96
Copper, Total	10.	0.40	mg/kg	11/08/96
Mercury, Total	BQL	0.10	mg/kg	11/08/96
Nickel, Total	6.0	0.60	mg/kg	11/08/96
L d, Total	BQL	1.2	mg/kg	11/08/96
Antimony, Total	BQL	10.	mg/kg	11/08/96
Selenium, Total	BQL	1.0	mg/kg	11/06/96

ENVIRITE CORPORATION
620 West Germantown Pike
`ymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 10/24/1996
Sample Description: Back Fill Soil "B"
EAS Project Number: 1306-96
EAS Sample Number: 9605881
Date Sample Received: 11/01/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Tin, Total	BQL		30.	mg/kg	11/12/96
Thallium, Total	BQL		0.40	mg/kg	11/08/96
Vanadium, Total	BQL		20.	mg/kg	11/12/96
Zinc, Total	10.		2.0	mg/kg	11/08/96
Base/Neutral and Acidic Extractable - Method SW-846-8270					11/04/96
Semi-Volatiles List - Thomaston RFI - Method 8270					
1,4-Dichlorobenzene	BQL		330.	ug/kg	11/07/96
2,4,5-Trichlorophenol	BQL		330.	ug/kg	11/07/96
2,4,6-Trichlorophenol	BQL		60.	ug/kg	11/07/96
2,4-Dichlorophenol	BQL		330.	ug/kg	11/07/96
2,4-Dinitrotoluene	BQL		330.	ug/kg	11/07/96
2,6-Dichlorophenol	BQL		330.	ug/kg	11/07/96
2-Chlorophenol	BQL		330.	ug/kg	11/07/96
2-Methylnaphthalene	BQL		330.	ug/kg	11/07/96
Acenaphthene	BQL		330.	ug/kg	11/07/96
Anthracene	BQL		330.	ug/kg	11/07/96
Bis (2-ethylhexyl) phthalate	21.	J	330.	ug/kg	11/07/96
Butyl benzylphthalate	BQL		330.	ug/kg	11/07/96
Total Cresol	BQL		990.	ug/kg	11/07/96
Dibenzofuran	BQL		330.	ug/kg	11/07/96
Diethylphthalate	BQL		330.	ug/kg	11/07/96
Di-n-octylphthalate	BQL		330.	ug/kg	11/07/96
Di-n-butylphthalate	460.		330.	ug/kg	11/07/96
Fluoranthene	BQL		330.	ug/kg	11/07/96
Fluorene	BQL		330.	ug/kg	11/07/96
Hexachlorobenzene	BQL		330.	ug/kg	11/07/96
Hexachlorobutadiene	BQL		330.	ug/kg	11/07/96
Hexachloroethane	BQL		330.	ug/kg	11/07/96
m-Cresol	BQL		330.	ug/kg	11/07/96
Naphthalene	BQL		330.	ug/kg	11/07/96
Nitrobenzene	BQL		330.	ug/kg	11/07/96
N-Nitrosodimethylamine	BQL		100.	ug/kg	11/07/96
N-Nitrosodiphenylamine	BQL		200.	ug/kg	11/07/96
o-Cresol	BQL		330.	ug/kg	11/07/96
p-Cresol	BQL		330.	ug/kg	11/07/96
Pentachlorophenol	BQL		1000.	ug/kg	11/07/96
Phenanthrene	BQL		330.	ug/kg	11/07/96
Pyrene	BQL		330.	ug/kg	11/07/96
Pyridine	BQL		330.	ug/kg	11/07/96

ENVIRITE CORPORATION
620 West Germantown Pike
Plymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 10/24/1996
Sample Description: Back Fill Soil "B"
EAS Project Number: 1306-96
EAS Sample Number: 9605881
Date Sample Received: 11/01/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Benzo (a) pyrene	BQL	330.	ug/kg	11/07/96
Benzo (b) fluoranthene	BQL	330.	ug/kg	11/07/96
Benzo (k) fluoranthene	BQL	330.	ug/kg	11/07/96
Solid Matrix Herbicides Long - Method 8150				
2,4,5-T	BQL	0.010	mg/kg	11/06/96
2,4,5-TP (Silvex)	BQL	0.010	mg/kg	11/06/96
2,4-D	BQL	0.050	mg/kg	11/06/96
2,4-DB	BQL	0.050	mg/kg	11/06/96
Dalapon	BQL	1.0	mg/kg	11/06/96
Dicamba	BQL	0.010	mg/kg	11/06/96
Dichloroprop	BQL	0.050	mg/kg	11/06/96
Dinoseb	BQL	0.010	mg/kg	11/06/96
MCPA	BQL	10.	mg/kg	11/06/96
MCPP	BQL	10.	mg/kg	11/06/96
Solid Matrix PCB's - Method 608/8080				
Aroclor 1016	BQL	0.033	mg/kg	11/07/96
Aroclor 1221	BQL	0.033	mg/kg	11/07/96
Aroclor 1232	BQL	0.033	mg/kg	11/07/96
Aroclor 1242	BQL	0.033	mg/kg	11/07/96
Aroclor 1248	BQL	0.033	mg/kg	11/07/96
Aroclor 1254	BQL	0.033	mg/kg	11/07/96
Aroclor 1260	BQL	0.033	mg/kg	11/07/96
Solid Matrix Pesticides - Method 608/8080				
4,4'-DDD	BQL	4.0	ug/kg	11/07/96
4,4'-DDE	BQL	4.0	ug/kg	11/07/96
4,4'-DDT	BQL	4.0	ug/kg	11/07/96
Aldrin	BQL	2.0	ug/kg	11/07/96
Dieldrin	BQL	1.0	ug/kg	11/07/96
Endosulfan sulfate	BQL	4.0	ug/kg	11/07/96
Endrin aldehyde	BQL	4.0	ug/kg	11/07/96
Endrin	BQL	4.0	ug/kg	11/07/96
Endrin ketone	BQL	4.0	ug/kg	11/07/96
Heptachlor	BQL	2.0	ug/kg	11/07/96
Heptachlor epoxide	BQL	2.0	ug/kg	11/07/96
Methoxychlor	BQL	20.	ug/kg	11/07/96
a-BHC	BQL	0.40	ug/kg	11/07/96
a-Chlordane	BQL	4.0	ug/kg	11/07/96

ENVIRITE CORPORATION
620 West Germantown Pike
Γ mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 10/24/1996
Sample Description: Back Fill Soil "B"
EAS Project Number: 1306-96
EAS Sample Number: 9605881
Date Sample Received: 11/01/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Endosulfan I	BQL		4.0	ug/kg	11/07/96
b-BHC	BQL		2.0	ug/kg	11/07/96
b-Chlordane	BQL		4.0	ug/kg	11/07/96
Endosulfan II	BQL		4.0	ug/kg	11/07/96
d-BHC	BQL		2.0	ug/kg	11/07/96
g-BHC (Lindane)	BQL		2.0	ug/kg	11/07/96
Solid Matrix Toxaphene/Chlordane - Method 608/8080					
Chlordane	BQL		30.	ug/kg	11/07/96
Toxaphene	BQL		40.	ug/kg	11/07/96
Synthetic Rain Leaching Procedure					11/04/96
RRI Volatile list - Soils - Method 8260					
1,1,1-Trichloroethane	BQL		10.	ug/kg	11/05/96
1,1,2,2-Tetrachloroethane	BQL		1.0	ug/kg	11/05/96
1,1,2-Trichloroethane	BQL		10.	ug/kg	11/05/96
1,1-Dichloroethane	BQL		10.	ug/kg	11/05/96
1,1-Dichloroethene	BQL		10.	ug/kg	11/05/96
1,2-Dichloroethane	BQL		10.	ug/kg	11/05/96
1,2-Dichloropropane	BQL		10.	ug/kg	11/05/96
Dibromochloromethane	BQL		10.	ug/kg	11/05/96
2-Chloroethyl vinyl ether	BQL		10.	ug/kg	11/05/96
2-Hexanone	BQL		10.	ug/kg	11/05/96
Acetone	1.5	J	10.	ug/kg	11/05/96
Acrolein	BQL		100.	ug/kg	11/05/96
Benzene	BQL		10.	ug/kg	11/05/96
Bromodichloromethane	BQL		10.	ug/kg	11/05/96
Bromomethane	BQL		10.	ug/kg	11/05/96
Bromoform	BQL		10.	ug/kg	11/05/96
cis-1,2-Dichloroethene	BQL		10.	ug/kg	11/05/96
cis-1,3-Dichloropropene	BQL		1.0	ug/kg	11/05/96
Carbon disulfide	BQL		10.	ug/kg	11/05/96
Carbon tetrachloride	BQL		10.	ug/kg	11/05/96
Chloroform	BQL		10.	ug/kg	11/05/96
Chlorobenzene	BQL		10.	ug/kg	11/05/96
Chloroethane	BQL		10.	ug/kg	11/05/96
Chloromethane	BQL		6.6	ug/kg	11/05/96
Ethylbenzene	BQL		10.	ug/kg	11/05/96
Methylene chloride	4.3	J	10.	ug/kg	11/05/96
2-Butanone (MEK)	2.0	J	10.	ug/kg	11/05/96

ENVIRITE CORPORATION
620 West Germantown Pike
ymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 10/24/1996
Sample Description: Back Fill Soil "B"
EAS Project Number: 1306-96
EAS Sample Number: 9605881
Date Sample Received: 11/01/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
4-Methyl-2-Pentanone	BQL	10.	ug/kg	11/05/96
Styrene	BQL	10.	ug/kg	11/05/96
trans-1,2-Dichloroethene	BQL	10.	ug/kg	11/05/96
trans-1,3-Dichloropropene	BQL	1.0	ug/kg	11/05/96
Tetrachloroethylene	BQL	10.	ug/kg	11/05/96
Toluene	BQL	10.	ug/kg	11/05/96
Total Xylenes	BQL	10.	ug/kg	11/05/96
Trichloroethylene	BQL	10.	ug/kg	11/05/96
Vinyl acetate	BQL	10.	ug/kg	11/05/96
Vinyl chloride	BQL	10.	ug/kg	11/05/96

L = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

2. Clean Water Act, List of Approved Test Procedures, 40 CFR.

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

APPENDIX D

ENVIRITE CORPORATION
620 West Germantown Pike
[illegible]mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST Composite - 0-5'
EAS Project Number: 1306-96
EAS Sample Number: 9605892
Date Sample Received: 11/02/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Herbicide Extraction				11/03/96
Solid Pesticide/PCB Extraction				11/05/96
Cyanide - Leachable	BQL	0.10	mg/L	11/05/96
Cyanide, Total	BQL	5.0	mg/kg	11/05/96
Sulfide, Total	BQL	10.	mg/kg	11/06/96
Total Petroleum Hydrocarbons	BQL	40.	mg/kg	11/04/96
Leachable Metals Digestion - Method SW846				11/06/96
Metal's Digestion for Solid Samples - Method SW-846-3050				11/06/96
Silver, Leachate	BQL	0.035	mg/L	11/11/96
A[illegible]enic, Leachate	BQL	0.050	mg/L	11/06/96
Barium, Leachate	BQL	1.0	mg/L	11/12/96
Beryllium, Leachate	BQL	0.0010	mg/L	11/08/96
Cadmium, Leachate	BQL	0.0050	mg/L	11/08/96
Cobalt, Leachate	BQL	0.050	mg/L	11/11/96
Chromium, Leachate	BQL	0.050	mg/L	11/08/96
Copper, Leachate	BQL	0.20	mg/L	11/08/96
Mercury, Leachate	BQL	0.0020	mg/L	11/08/96
Nickel, Leachate	BQL	0.030	mg/L	11/08/96
Lead, Leachate	BQL	0.015	mg/L	11/08/96
Antimony, Leachate	0.0067	0.0050	mg/L	11/08/96
Selenium, Leachate	BQL	0.050	mg/L	11/06/96
Tin, Leachate	BQL	1.5	mg/L	11/12/96
Thallium, Leachate	BQL	0.0050	mg/L	11/08/96
Vanadium, Leachate	BQL	0.050	mg/L	11/11/96
Zinc, Leachate	BQL	1.0	mg/L	11/08/96
Silver, Total	1.0	0.70	mg/kg	11/11/96
Arsenic, Total	BQL	1.0	mg/kg	11/06/96
Barium, Total	BQL	20.	mg/kg	11/12/96
Beryllium, Total	0.64	0.40	mg/kg	11/11/96
Cadmium, Total	0.46	0.10	mg/kg	11/08/96
Cobalt, Total	4.4	1.0	mg/kg	11/11/96
Chromium, Total	29.	1.0	mg/kg	11/08/96
Copper, Total	76.	0.40	mg/kg	11/08/96
Mercury, Total	BQL	0.10	mg/kg	11/08/96
Nickel, Total	17.	0.60	mg/kg	11/08/96
L[illegible]d, Total	11.	1.2	mg/kg	11/08/96
Antimony, Total	BQL	10.	mg/kg	11/08/96
Selenium, Total	BQL	1.0	mg/kg	11/06/96

ENVIRITE CORPORATION
620 West Germantown Pike
·mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST Composite - 0-5'
EAS Project Number: 1306-96
EAS Sample Number: 9605892
Date Sample Received: 11/02/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Tin, Total	BQL		30.	mg/kg	11/12/96
Thallium, Total	BQL		0.40	mg/kg	11/08/96
Vanadium, Total	BQL		20.	mg/kg	11/12/96
Zinc, Total	69.		2.0	mg/kg	11/08/96
Base/Neutral and Acidic Extractable - Method SW-846-8270					11/04/96
Semi-Volatiles List - Thomaston RFI - Method 8270					
1,4-Dichlorobenzene	BQL		330.	ug/kg	11/07/96
2,4,5-Trichlorophenol	BQL		330.	ug/kg	11/07/96
2,4,6-Trichlorophenol	BQL		60.	ug/kg	11/07/96
2,4-Dichlorophenol	BQL		330.	ug/kg	11/07/96
2,4-Dinitrotoluene	BQL		330.	ug/kg	11/07/96
2,6-Dichlorophenol	BQL		330.	ug/kg	11/07/96
2-Chlorophenol	BQL		330.	ug/kg	11/07/96
2-Methylnaphthalene	49.	J	330.	ug/kg	11/07/96
Acenaphthene	28.	J	330.	ug/kg	11/07/96
Anthracene	49.	J	330.	ug/kg	11/07/96
Bis (2-ethylhexyl) phthalate	59.	J	330.	ug/kg	11/07/96
Butyl benzylphthalate	BQL		330.	ug/kg	11/07/96
Total Cresol	BQL		990.	ug/kg	11/07/96
Dibenzofuran	31.	J	330.	ug/kg	11/07/96
Diethylphthalate	BQL		330.	ug/kg	11/07/96
Di-n-octylphthalate	BQL		330.	ug/kg	11/07/96
Di-n-butylphthalate	320.	J	330.	ug/kg	11/07/96
Fluoranthene	440.		330.	ug/kg	11/07/96
Fluorene	33.	J	330.	ug/kg	11/07/96
Hexachlorobenzene	BQL		330.	ug/kg	11/07/96
Hexachlorobutadiene	BQL		330.	ug/kg	11/07/96
Hexachloroethane	BQL		330.	ug/kg	11/07/96
m-Cresol	BQL		330.	ug/kg	11/07/96
Naphthalene	14.	J	330.	ug/kg	11/07/96
Nitrobenzene	BQL		330.	ug/kg	11/07/96
N-Nitrosodimethylamine	BQL		100.	ug/kg	11/07/96
N-Nitrosodiphenylamine	BQL		200.	ug/kg	11/07/96
o-Cresol	BQL		330.	ug/kg	11/07/96
p-Cresol	BQL		330.	ug/kg	11/07/96
Pentachlorophenol	BQL		1000.	ug/kg	11/07/96
Phenanthrene	270.	J	330.	ug/kg	11/07/96
Pyrene	270.	J	330.	ug/kg	11/07/96
Pyridine	BQL		330.	ug/kg	11/07/96

ENVIRITE CORPORATION
620 West Germantown Pike
ymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST Composite - 0-5'
EAS Project Number: 1306-96
EAS Sample Number: 9605892
Date Sample Received: 11/02/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Benzo (a) pyrene	300.	J	330.	ug/kg	11/07/96
Benzo (b) fluoranthene	170.	J	330.	ug/kg	11/07/96
Benzo (k) fluoranthene	180.	J	330.	ug/kg	11/07/96
Solid Matrix Herbicides Long - Method 8150					
2,4,5-T	BQL		0.010	mg/kg	11/06/96
2,4,5-TP (Silvex)	BQL		0.010	mg/kg	11/06/96
2,4-D	BQL		0.050	mg/kg	11/06/96
2,4-DB	BQL		0.050	mg/kg	11/06/96
Dalapon	BQL		1.0	mg/kg	11/06/96
Dicamba	BQL		0.010	mg/kg	11/06/96
Dichloroprop	BQL		0.050	mg/kg	11/06/96
Dinoseb	BQL		0.010	mg/kg	11/06/96
MCPA	BQL		10.	mg/kg	11/06/96
MCPP	BQL		10.	mg/kg	11/06/96
Solid Matrix PCB's - Method 608/8080					
Aroclor 1016	BQL		0.033	mg/kg	11/08/96
Aroclor 1221	BQL		0.033	mg/kg	11/08/96
Aroclor 1232	BQL		0.033	mg/kg	11/08/96
Aroclor 1242	BQL		0.033	mg/kg	11/08/96
Aroclor 1248	BQL		0.033	mg/kg	11/08/96
Aroclor 1254	BQL		0.033	mg/kg	11/08/96
Aroclor 1260	BQL		0.033	mg/kg	11/08/96
Solid Matrix Pesticides - Method 608/8080					
4,4'-DDD	BQL		4.0	ug/kg	11/08/96
4,4'-DDE	BQL		4.0	ug/kg	11/08/96
4,4'-DDT	BQL		4.0	ug/kg	11/08/96
Aldrin	BQL		2.0	ug/kg	11/08/96
Dieldrin	BQL		1.0	ug/kg	11/08/96
Endosulfan sulfate	BQL		4.0	ug/kg	11/08/96
Endrin aldehyde	BQL		4.0	ug/kg	11/08/96
Endrin	BQL		4.0	ug/kg	11/08/96
Endrin ketone	BQL		4.0	ug/kg	11/08/96
Heptachlor	BQL		2.0	ug/kg	11/08/96
Heptachlor epoxide	BQL		2.0	ug/kg	11/08/96
Methoxychlor	BQL		20.	ug/kg	11/08/96
a-BHC	BQL		0.40	ug/kg	11/08/96
a-Chlordane	BQL		4.0	ug/kg	11/08/96

ENVIRITE CORPORATION
620 West Germantown Pike
mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST Composite - 0-5'
EAS Project Number: 1306-96
EAS Sample Number: 9605892
Date Sample Received: 11/02/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Endosulfan I	BQL		4.0	ug/kg	11/08/96
b-BHC	BQL		2.0	ug/kg	11/08/96
b-Chlordane	BQL		4.0	ug/kg	11/08/96
Endosulfan II	BQL		4.0	ug/kg	11/08/96
d-BHC	BQL		2.0	ug/kg	11/08/96
g-BHC (Lindane)	BQL		2.0	ug/kg	11/08/96
Solid Matrix Toxaphene/Chlordane - Method 608/8080					
Chlordane	BQL		30.	ug/kg	11/08/96
Toxaphene	BQL		40.	ug/kg	11/08/96
Synthetic Rain Leaching Procedure					11/04/96
RrI Volatile list - Soils - Method 8260					
1,1,1-Trichloroethane	BQL		10.	ug/kg	11/06/96
1,1,2,2-Tetrachloroethane	BQL		1.0	ug/kg	11/06/96
1,1,2-Trichloroethane	BQL		10.	ug/kg	11/06/96
1,1-Dichloroethane	BQL		10.	ug/kg	11/06/96
1,1-Dichloroethene	BQL		10.	ug/kg	11/06/96
1,2-Dichloroethane	BQL		10.	ug/kg	11/06/96
1,2-Dichloropropane	BQL		10.	ug/kg	11/06/96
Dibromochloromethane	BQL		10.	ug/kg	11/06/96
2-Chloroethyl vinyl ether	BQL		10.	ug/kg	11/06/96
2-Hexanone	BQL		10.	ug/kg	11/06/96
Acetone	1.8	J	10.	ug/kg	11/06/96
Acrolein	BQL		100.	ug/kg	11/06/96
Benzene	BQL		10.	ug/kg	11/06/96
Bromodichloromethane	BQL		10.	ug/kg	11/06/96
Bromomethane	BQL		10.	ug/kg	11/06/96
Bromoform	BQL		10.	ug/kg	11/06/96
cis-1,2-Dichloroethene	BQL		10.	ug/kg	11/06/96
cis-1,3-Dichloropropene	BQL		1.0	ug/kg	11/06/96
Carbon disulfide	BQL		10.	ug/kg	11/06/96
Carbon tetrachloride	BQL		10.	ug/kg	11/06/96
Chloroform	BQL		10.	ug/kg	11/06/96
Chlorobenzene	BQL		10.	ug/kg	11/06/96
Chloroethane	BQL		10.	ug/kg	11/06/96
Chloromethane	BQL		6.6	ug/kg	11/06/96
Ethylbenzene	BQL		10.	ug/kg	11/06/96
Methylene chloride	2.9	J	10.	ug/kg	11/06/96
2-Butanone (MEK)	BQL		10.	ug/kg	11/06/96

ENVIRITE CORPORATION
620 West Germantown Pike
ymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST Composite - 0-5'
EAS Project Number: 1306-96
EAS Sample Number: 9605892
Date Sample Received: 11/02/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
4-Methyl-2-Pentanone	BQL		10.	ug/kg	11/06/96
Styrene	BQL		10.	ug/kg	11/06/96
trans-1,2-Dichloroethene	BQL		10.	ug/kg	11/06/96
trans-1,3-Dichloropropene	BQL		1.0	ug/kg	11/06/96
Tetrachloroethylene	1.4	J	10.	ug/kg	11/06/96
Toluene	BQL		10.	ug/kg	11/06/96
Total Xylenes	BQL		10.	ug/kg	11/06/96
Trichloroethylene	BQL		10.	ug/kg	11/06/96
Vinyl acetate	BQL		10.	ug/kg	11/06/96
Vinyl chloride	BQL		10.	ug/kg	11/06/96

= Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

2. Clean Water Act, List of Approved Test Procedures, 40 CFR.

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

ENVIRITE CORPORATION
620 West Germantown Pike
ymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST Sidewall Composite
EAS Project Number: 1306-96
EAS Sample Number: 9605893
Date Sample Received: 11/02/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Herbicide Extraction				11/03/96
Solid Pesticide/PCB Extraction				11/05/96
Cyanide - Leachable	BQL	0.10	mg/L	11/05/96
Cyanide, Total	BQL	5.0	mg/kg	11/05/96
Sulfide, Total	BQL	10.	mg/kg	11/05/96
Total Petroleum Hydrocarbons	BQL	40.	mg/kg	11/08/96
Leachable Metals Digestion - Method SW846				11/06/96
Metal's Digestion for Solid Samples - Method SW-846-3050				11/06/96
Silver, Leachate	BQL	0.035	mg/L	11/11/96
;enic, Leachate	BQL	0.050	mg/L	11/06/96
Barium, Leachate	BQL	1.0	mg/L	11/12/96
Beryllium, Leachate	BQL	0.0010	mg/L	11/08/96
Cadmium, Leachate	BQL	0.0050	mg/L	11/08/96
Cobalt, Leachate	BQL	0.050	mg/L	11/11/96
Chromium, Leachate	BQL	0.050	mg/L	11/08/96
Copper, Leachate	BQL	0.20	mg/L	11/08/96
Mercury, Leachate	BQL	0.0020	mg/L	11/08/96
Nickel, Leachate	BQL	0.030	mg/L	11/08/96
Lead, Leachate	BQL	0.015	mg/L	11/08/96
Antimony, Leachate	BQL	0.0050	mg/L	11/08/96
Selenium, Leachate	BQL	0.050	mg/L	11/06/96
Tin, Leachate	BQL	1.5	mg/L	11/12/96
Thallium, Leachate	BQL	0.0050	mg/L	11/08/96
Vanadium, Leachate	BQL	0.050	mg/L	11/11/96
Zinc, Leachate	BQL	1.0	mg/L	11/08/96
Silver, Total	BQL	0.70	mg/kg	11/11/96
Arsenic, Total	BQL	1.0	mg/kg	11/06/96
Barium, Total	BQL	20.	mg/kg	11/12/96
Beryllium, Total	BQL	0.40	mg/kg	11/11/96
Cadmium, Total	BQL	0.10	mg/kg	11/08/96
Cobalt, Total	3.2	1.0	mg/kg	11/11/96
Chromium, Total	10.	1.0	mg/kg	11/08/96
Copper, Total	29.	0.40	mg/kg	11/08/96
Mercury, Total	BQL	0.10	mg/kg	11/08/96
N'ckel, Total	8.2	0.60	mg/kg	11/08/96
. ,d, Total	2.0	1.2	mg/kg	11/08/96
Antimony, Total	BQL	10.	mg/kg	11/08/96
Selenium, Total	BQL	1.0	mg/kg	11/06/96

ENVIRITE CORPORATION
620 West Germantown Pike
ymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST Sidewall Composite
EAS Project Number: 1306-96
EAS Sample Number: 9605893
Date Sample Received: 11/02/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Tin, Total	BQL		30.	mg/kg	11/12/96
Thallium, Total	BQL		0.40	mg/kg	11/08/96
Vanadium, Total	BQL		20.	mg/kg	11/12/96
Zinc, Total	25.		2.0	mg/kg	11/08/96
Base/Neutral and Acidic Extractable - Method SW-846-8270					11/04/96
Semi-Volatiles List - Thomaston RFI - Method 8270					
1,4-Dichlorobenzene	BQL		330.	ug/kg	11/07/96
2,4,5-Trichlorophenol	BQL		330.	ug/kg	11/07/96
2,4,6-Trichlorophenol	BQL		60.	ug/kg	11/07/96
2,4-Dichlorophenol	BQL		330.	ug/kg	11/07/96
2,4-Dinitrotoluene	BQL		330.	ug/kg	11/07/96
2,6-Dichlorophenol	BQL		330.	ug/kg	11/07/96
2-Chlorophenol	BQL		330.	ug/kg	11/07/96
2-Methylnaphthalene	BQL		330.	ug/kg	11/07/96
Acenaphthene	BQL		330.	ug/kg	11/07/96
Anthracene	BQL		330.	ug/kg	11/07/96
Bis (2-ethylhexyl) phthalate	36.	J	330.	ug/kg	11/07/96
Butyl benzylphthalate	BQL		330.	ug/kg	11/07/96
Total Cresol	BQL		990.	ug/kg	11/07/96
Dibenzofuran	BQL		330.	ug/kg	11/07/96
Diethylphthalate	BQL		330.	ug/kg	11/07/96
Di-n-octylphthalate	BQL		330.	ug/kg	11/07/96
Di-n-butylphthalate	280.	J	330.	ug/kg	11/07/96
Fluoranthene	11.	J	330.	ug/kg	11/07/96
Fluorene	BQL		330.	ug/kg	11/07/96
Hexachlorobenzene	BQL		330.	ug/kg	11/07/96
Hexachlorobutadiene	BQL		330.	ug/kg	11/07/96
Hexachloroethane	BQL		330.	ug/kg	11/07/96
m-Cresol	BQL		330.	ug/kg	11/07/96
Naphthalene	BQL		330.	ug/kg	11/07/96
Nitrobenzene	BQL		330.	ug/kg	11/07/96
N-Nitrosodimethylamine	BQL		100.	ug/kg	11/07/96
N-Nitrosodiphenylamine	BQL		200.	ug/kg	11/07/96
o-Cresol	BQL		330.	ug/kg	11/07/96
p-Cresol	BQL		330.	ug/kg	11/07/96
Pentachlorophenol	BQL		1000.	ug/kg	11/07/96
Phenanthrene	BQL		330.	ug/kg	11/07/96
Pyrene	22.	J	330.	ug/kg	11/07/96
Pyridine	BQL		330.	ug/kg	11/07/96

ENVIRITE CORPORATION
620 West Germantown Pike
'mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST Sidewall Composite
EAS Project Number: 1306-96
EAS Sample Number: 9605893
Date Sample Received: 11/02/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Benzo (a) pyrene	BQL	330.	ug/kg	11/07/96
Benzo (b) fluoranthene	BQL	330.	ug/kg	11/07/96
Benzo (k) fluoranthene	BQL	330.	ug/kg	11/07/96
Solid Matrix Herbicides Long - Method 8150				
2,4,5-T	BQL	0.010	mg/kg	11/06/96
2,4,5-TP (Silvex)	BQL	0.010	mg/kg	11/06/96
2,4-D	BQL	0.050	mg/kg	11/06/96
2,4-DB	BQL	0.050	mg/kg	11/06/96
Dalapon	BQL	1.0	mg/kg	11/06/96
Dicamba	BQL	0.010	mg/kg	11/06/96
Dichloroprop	BQL	0.050	mg/kg	11/06/96
Dinoseb	BQL	0.010	mg/kg	11/06/96
MCPA	BQL	10.	mg/kg	11/06/96
MCPP	BQL	10.	mg/kg	11/06/96
Solid Matrix PCB's - Method 608/8080				
Aroclor 1016	BQL	0.033	mg/kg	11/08/96
Aroclor 1221	BQL	0.033	mg/kg	11/08/96
Aroclor 1232	BQL	0.033	mg/kg	11/08/96
Aroclor 1242	BQL	0.033	mg/kg	11/08/96
Aroclor 1248	BQL	0.033	mg/kg	11/08/96
Aroclor 1254	BQL	0.033	mg/kg	11/08/96
Aroclor 1260	BQL	0.033	mg/kg	11/08/96
Solid Matrix Pesticides - Method 608/8080				
4,4'-DDD	BQL	4.0	ug/kg	11/08/96
4,4'-DDE	BQL	4.0	ug/kg	11/08/96
4,4'-DDT	BQL	4.0	ug/kg	11/08/96
Aldrin	BQL	2.0	ug/kg	11/08/96
Dieldrin	BQL	1.0	ug/kg	11/08/96
Endosulfan sulfate	BQL	4.0	ug/kg	11/08/96
Endrin aldehyde	BQL	4.0	ug/kg	11/08/96
Endrin	BQL	4.0	ug/kg	11/08/96
Endrin ketone	BQL	4.0	ug/kg	11/08/96
Heptachlor	BQL	2.0	ug/kg	11/08/96
Heptachlor epoxide	BQL	2.0	ug/kg	11/08/96
Methoxychlor	BQL	20.	ug/kg	11/08/96
a-BHC	BQL	0.40	ug/kg	11/08/96
a-Chlordane	BQL	4.0	ug/kg	11/08/96

ENVIRITE CORPORATION
620 West Germantown Pike
r mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST Sidewall Composite
EAS Project Number: 1306-96
EAS Sample Number: 9605893
Date Sample Received: 11/02/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Endosulfan I	BQL		4.0	ug/kg	11/08/96
b-BHC	BQL		2.0	ug/kg	11/08/96
b-Chlordane	BQL		4.0	ug/kg	11/08/96
Endosulfan II	BQL		4.0	ug/kg	11/08/96
d-BHC	BQL		2.0	ug/kg	11/08/96
g-BHC (Lindane)	BQL		2.0	ug/kg	11/08/96
Solid Matrix Toxaphene/Chlordane - Method 608/8080					
Chlordane	BQL		30.	ug/kg	11/08/96
Toxaphene	BQL		40.	ug/kg	11/08/96
Synthetic Rain Leaching Procedure					11/08/96
Rr Volatile list - Soils - Method 8260					
1,1,1-Trichloroethane	BQL		10.	ug/kg	11/06/96
1,1,2,2-Tetrachloroethane	BQL		1.0	ug/kg	11/06/96
1,1,2-Trichloroethane	BQL		10.	ug/kg	11/06/96
1,1-Dichloroethane	BQL		10.	ug/kg	11/06/96
1,1-Dichloroethene	BQL		10.	ug/kg	11/06/96
1,2-Dichloroethane	BQL		10.	ug/kg	11/06/96
1,2-Dichloropropane	BQL		10.	ug/kg	11/06/96
Dibromochloromethane	BQL		10.	ug/kg	11/06/96
2-Chloroethyl vinyl ether	BQL		10.	ug/kg	11/06/96
2-Hexanone	BQL		10.	ug/kg	11/06/96
Acetone	2.8	J	10.	ug/kg	11/06/96
Acrolein	BQL		100.	ug/kg	11/06/96
Benzene	BQL		10.	ug/kg	11/06/96
Bromodichloromethane	BQL		10.	ug/kg	11/06/96
Bromomethane	BQL		10.	ug/kg	11/06/96
Bromoform	BQL		10.	ug/kg	11/06/96
cis-1,2-Dichloroethene	BQL		10.	ug/kg	11/06/96
cis-1,3-Dichloropropene	BQL		1.0	ug/kg	11/06/96
Carbon disulfide	BQL		10.	ug/kg	11/06/96
Carbon tetrachloride	BQL		10.	ug/kg	11/06/96
Chloroform	BQL		10.	ug/kg	11/06/96
Chlorobenzene	BQL		10.	ug/kg	11/06/96
Chloroethane	BQL		10.	ug/kg	11/06/96
Chloromethane	BQL		6.6	ug/kg	11/06/96
Ethylbenzene	BQL		10.	ug/kg	11/06/96
Methylene chloride	4.1	J	10.	ug/kg	11/06/96
2-Butanone (MEK)	BQL		10.	ug/kg	11/06/96

ENVIRITE CORPORATION
620 West Germantown Pike
mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST Sidewall Composite
EAS Project Number: 1306-96
EAS Sample Number: 9605893
Date Sample Received: 11/02/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
4-Methyl-2-Pentanone	BQL	10.	ug/kg	11/06/96
Styrene	BQL	10.	ug/kg	11/06/96
trans-1,2-Dichloroethene	BQL	10.	ug/kg	11/06/96
trans-1,3-Dichloropropene	BQL	1.0	ug/kg	11/06/96
Tetrachloroethylene	BQL	10.	ug/kg	11/06/96
Toluene	BQL	10.	ug/kg	11/06/96
Total Xylenes	BQL	10.	ug/kg	11/06/96
Trichloroethylene	BQL	10.	ug/kg	11/06/96
Vinyl acetate	BQL	10.	ug/kg	11/06/96
Vinyl chloride	BQL	10.	ug/kg	11/06/96

E = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

2. Clean Water Act, List of Approved Test Procedures, 40 CFR.

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

ENVIRITE CORPORATION
620 West Germantown Pike
mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST Bottom G-1
EAS Project Number: 1306-96
EAS Sample Number: 9605895
Date Sample Received: 11/02/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Herbicide Extraction				11/03/96
Solid Pesticide/PCB Extraction				11/05/96
Cyanide - Leachable	BQL	0.10	mg/L	11/05/96
Cyanide, Total	BQL	5.0	mg/kg	11/05/96
Sulfide, Total	37.	10.	mg/kg	11/05/96
Total Petroleum Hydrocarbons	BQL	60.	mg/kg	11/04/96
Leachable Metals Digestion - Method SW846				11/06/96
Metal's Digestion for Solid Samples - Method SW-846-3050				11/06/96
Silver, Leachate	BQL	0.035	mg/L	11/11/96
enic, Leachate	BQL	0.050	mg/L	11/06/96
Barium, Leachate	BQL	1.0	mg/L	11/12/96
Beryllium, Leachate	BQL	0.0010	mg/L	11/08/96
Cadmium, Leachate	BQL	0.0050	mg/L	11/08/96
Cobalt, Leachate	BQL	0.050	mg/L	11/11/96
Chromium, Leachate	BQL	0.050	mg/L	11/08/96
Copper, Leachate	BQL	0.20	mg/L	11/08/96
Mercury, Leachate	BQL	0.0020	mg/L	11/08/96
Nickel, Leachate	BQL	0.030	mg/L	11/08/96
Lead, Leachate	BQL	0.015	mg/L	11/08/96
Antimony, Leachate	BQL	0.0050	mg/L	11/08/96
Selenium, Leachate	BQL	0.050	mg/L	11/06/96
Tin, Leachate	BQL	1.5	mg/L	11/12/96
Thallium, Leachate	BQL	0.0050	mg/L	11/08/96
Vanadium, Leachate	BQL	0.050	mg/L	11/11/96
Zinc, Leachate	BQL	1.0	mg/L	11/08/96
Silver, Total	BQL	0.70	mg/kg	11/11/96
Arsenic, Total	BQL	1.0	mg/kg	11/06/96
Barium, Total	BQL	20.	mg/kg	11/12/96
Beryllium, Total	0.46	0.40	mg/kg	11/11/96
Cadmium, Total	0.22	0.10	mg/kg	11/08/96
Cobalt, Total	3.0	1.0	mg/kg	11/11/96
Chromium, Total	17.	1.0	mg/kg	11/08/96
Copper, Total	56.	0.40	mg/kg	11/08/96
Mercury, Total	BQL	0.10	mg/kg	11/08/96
Nickel, Total	8.8	0.60	mg/kg	11/08/96
Lead, Total	6.0	1.2	mg/kg	11/08/96
Antimony, Total	BQL	10.	mg/kg	11/08/96
Selenium, Total	BQL	1.0	mg/kg	11/06/96

ENVIRITE CORPORATION
620 West Germantown Pike
'mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST Bottom G-1
EAS Project Number: 1306-96
EAS Sample Number: 9605895
Date Sample Received: 11/02/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Tin, Total	BQL		30.	mg/kg	11/12/96
Thallium, Total	BQL		0.40	mg/kg	11/08/96
Vanadium, Total	BQL		20.	mg/kg	11/12/96
Zinc, Total	48.		2.0	mg/kg	11/08/96
Base/Neutral and Acidic Extractable - Method SW-846-8270					11/04/96
Semi-Volatiles List - Thomaston RFI - Method 8270					
1,4-Dichlorobenzene	BQL		330.	ug/kg	11/07/96
2,4,5-Trichlorophenol	BQL		330.	ug/kg	11/07/96
2,4,6-Trichlorophenol	BQL		60.	ug/kg	11/07/96
2,4-Dichlorophenol	BQL		330.	ug/kg	11/07/96
2,4-Dinitrotoluene	BQL		330.	ug/kg	11/07/96
2,6-Dichlorophenol	BQL		330.	ug/kg	11/07/96
2-Chlorophenol	BQL		330.	ug/kg	11/07/96
2-Methylnaphthalene	BQL		330.	ug/kg	11/07/96
Acenaphthene	BQL		330.	ug/kg	11/07/96
Anthracene	12.	J	330.	ug/kg	11/07/96
Bis (2-ethylhexyl) phthalate	21.	J	330.	ug/kg	11/07/96
Butyl benzylphthalate	BQL		330.	ug/kg	11/07/96
Total Cresol	BQL		990.	ug/kg	11/07/96
Dibenzofuran	BQL		330.	ug/kg	11/07/96
Diethylphthalate	BQL		330.	ug/kg	11/07/96
Di-n-octylphthalate	BQL		330.	ug/kg	11/07/96
Di-n-butylphthalate	290.	J	330.	ug/kg	11/07/96
Fluoranthene	100.	J	330.	ug/kg	11/07/96
Fluorene	BQL		330.	ug/kg	11/07/96
Hexachlorobenzene	BQL		330.	ug/kg	11/07/96
Hexachlorobutadiene	BQL		330.	ug/kg	11/07/96
Hexachloroethane	BQL		330.	ug/kg	11/07/96
m-Cresol	BQL		330.	ug/kg	11/07/96
Naphthalene	BQL		330.	ug/kg	11/07/96
Nitrobenzene	BQL		330.	ug/kg	11/07/96
N-Nitrosodimethylamine	BQL		100.	ug/kg	11/07/96
N-Nitrosodiphenylamine	BQL		200.	ug/kg	11/07/96
o-Cresol	BQL		330.	ug/kg	11/07/96
p-Cresol	BQL		330.	ug/kg	11/07/96
Pentachlorophenol	BQL		1000.	ug/kg	11/07/96
Phenanthrene	68.	J	330.	ug/kg	11/07/96
Pyrene	95.	J	330.	ug/kg	11/07/96
Pyridine	BQL		330.	ug/kg	11/07/96

ENVIRITE CORPORATION
620 West Germantown Pike
' mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST Bottom G-1
EAS Project Number: 1306-96
EAS Sample Number: 9605895
Date Sample Received: 11/02/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Benzo (a) pyrene	52.	J	330.	ug/kg	11/07/96
Benzo (b) fluoranthene	64.	J	330.	ug/kg	11/07/96
Benzo (k) fluoranthene	54.	J	330.	ug/kg	11/07/96
Solid Matrix Herbicides Long - Method 8150					
2,4,5-T	BQL		0.010	mg/kg	11/06/96
2,4,5-TP (Silvex)	BQL		0.010	mg/kg	11/06/96
2,4-D	BQL		0.050	mg/kg	11/06/96
2,4-DB	BQL		0.050	mg/kg	11/06/96
Dalapon	BQL		1.0	mg/kg	11/06/96
Dicamba	BQL		0.010	mg/kg	11/06/96
Dichloroprop	BQL		0.050	mg/kg	11/06/96
Dinoseb	BQL		0.010	mg/kg	11/06/96
MCPA	BQL		10.	mg/kg	11/06/96
MCPP	BQL		10.	mg/kg	11/06/96
Solid Matrix PCB's - Method 608/8080					
Aroclor 1016	BQL		0.033	mg/kg	11/08/96
Aroclor 1221	BQL		0.033	mg/kg	11/08/96
Aroclor 1232	BQL		0.033	mg/kg	11/08/96
Aroclor 1242	BQL		0.033	mg/kg	11/08/96
Aroclor 1248	BQL		0.033	mg/kg	11/08/96
Aroclor 1254	BQL		0.033	mg/kg	11/08/96
Aroclor 1260	BQL		0.033	mg/kg	11/08/96
Solid Matrix Pesticides - Method 608/8080					
4,4'-DDD	BQL		4.0	ug/kg	11/08/96
4,4'-DDE	BQL		4.0	ug/kg	11/08/96
4,4'-DDT	BQL		4.0	ug/kg	11/08/96
Aldrin	BQL		2.0	ug/kg	11/08/96
Dieldrin	BQL		1.0	ug/kg	11/08/96
Endosulfan sulfate	BQL		4.0	ug/kg	11/08/96
Endrin aldehyde	BQL		4.0	ug/kg	11/08/96
Endrin	BQL		4.0	ug/kg	11/08/96
Endrin ketone	BQL		4.0	ug/kg	11/08/96
Heptachlor	BQL		2.0	ug/kg	11/08/96
Heptachlor epoxide	BQL		2.0	ug/kg	11/08/96
Methoxychlor	BQL		20.	ug/kg	11/08/96
a-BHC	BQL		0.40	ug/kg	11/08/96
a-Chlordane	BQL		4.0	ug/kg	11/08/96

ENVIRITE CORPORATION
620 West Germantown Pike
'mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST Bottom G-1
EAS Project Number: 1306-96
EAS Sample Number: 9605895
Date Sample Received: 11/02/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Endosulfan I	BQL		4.0	ug/kg	11/08/96
b-BHC	BQL		2.0	ug/kg	11/08/96
b-Chlordane	BQL		4.0	ug/kg	11/08/96
Endosulfan II	BQL		4.0	ug/kg	11/08/96
d-BHC	BQL		2.0	ug/kg	11/08/96
g-BHC (Lindane)	BQL		2.0	ug/kg	11/08/96
Solid Matrix Toxaphene/Chlordane - Method 608/8080					
Chlordane	BQL		30.	ug/kg	11/08/96
Toxaphene	BQL		40.	ug/kg	11/08/96
Synthetic Rain Leaching Procedure					11/04/96
RFI Volatile list - Soils - Method 8260					
1,1,1-Trichloroethane	BQL		10.	ug/kg	11/05/96
1,1,2,2-Tetrachloroethane	BQL		1.0	ug/kg	11/05/96
1,1,2-Trichloroethane	BQL		10.	ug/kg	11/05/96
1,1-Dichloroethane	BQL		10.	ug/kg	11/05/96
1,1-Dichloroethene	BQL		10.	ug/kg	11/05/96
1,2-Dichloroethane	BQL		10.	ug/kg	11/05/96
1,2-Dichloropropane	BQL		10.	ug/kg	11/05/96
Dibromochloromethane	BQL		10.	ug/kg	11/05/96
2-Chloroethyl vinyl ether	BQL		10.	ug/kg	11/05/96
2-Hexanone	BQL		10.	ug/kg	11/05/96
Acetone	36.		10.	ug/kg	11/05/96
Acrolein	BQL		100.	ug/kg	11/05/96
Benzene	BQL		10.	ug/kg	11/05/96
Bromodichloromethane	BQL		10.	ug/kg	11/05/96
Bromomethane	BQL		10.	ug/kg	11/05/96
Bromoform	BQL		10.	ug/kg	11/05/96
cis-1,2-Dichloroethene	BQL		10.	ug/kg	11/05/96
cis-1,3-Dichloropropene	BQL		1.0	ug/kg	11/05/96
Carbon disulfide	BQL		10.	ug/kg	11/05/96
Carbon tetrachloride	BQL		10.	ug/kg	11/05/96
Chloroform	BQL		10.	ug/kg	11/05/96
Chlorobenzene	BQL		10.	ug/kg	11/05/96
Chloroethane	BQL		10.	ug/kg	11/05/96
Chloromethane	BQL		6.6	ug/kg	11/05/96
Ethylbenzene	BQL		10.	ug/kg	11/05/96
Methylene chloride	5.4	J	10.	ug/kg	11/05/96
2-Butanone (MEK)	10.		10.	ug/kg	11/05/96

ENVIRITE CORPORATION
620 West Germantown Pike
Plymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST Bottom G-1
EAS Project Number: 1306-96
EAS Sample Number: 9605895
Date Sample Received: 11/02/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
4-Methyl-2-Pentanone	BQL	10.	ug/kg	11/05/96
Styrene	BQL	10.	ug/kg	11/05/96
trans-1,2-Dichloroethene	BQL	10.	ug/kg	11/05/96
trans-1,3-Dichloropropene	BQL	1.0	ug/kg	11/05/96
Tetrachloroethylene	BQL	10.	ug/kg	11/05/96
Toluene	BQL	10.	ug/kg	11/05/96
Total Xylenes	BQL	10.	ug/kg	11/05/96
Trichloroethylene	BQL	10.	ug/kg	11/05/96
Vinyl acetate	BQL	10.	ug/kg	11/05/96
Vinyl chloride	BQL	10.	ug/kg	11/05/96

BQL = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

2. Clean Water Act, List of Approved Test Procedures, 40 CFR.

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

ENVIRITE CORPORATION
620 West Germantown Pike
Plymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST Bottom G-2
EAS Project Number: 1306-96
EAS Sample Number: 9605896
Date Sample Received: 11/02/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Herbicide Extraction				11/03/96
Solid Pesticide/PCB Extraction				11/05/96
Cyanide - Leachable	BQL	0.10	mg/L	11/05/96
Cyanide, Total	BQL	5.0	mg/kg	11/05/96
Sulfide, Total	BQL	10.	mg/kg	11/05/96
Total Petroleum Hydrocarbons	BQL	60.	mg/kg	11/04/96
Leachable Metals Digestion - Method SW846				11/06/96
Metal's Digestion for Solid Samples - Method SW-846-3050				11/06/96
Silver, Leachate	BQL	0.035	mg/L	11/11/96
Arsenic, Leachate	BQL	0.050	mg/L	11/06/96
Barium, Leachate	BQL	1.0	mg/L	11/12/96
Beryllium, Leachate	BQL	0.0010	mg/L	11/08/96
Cadmium, Leachate	BQL	0.0050	mg/L	11/08/96
Cobalt, Leachate	BQL	0.050	mg/L	11/11/96
Chromium, Leachate	BQL	0.050	mg/L	11/08/96
Copper, Leachate	BQL	0.20	mg/L	11/08/96
Mercury, Leachate	BQL	0.0020	mg/L	11/08/96
Nickel, Leachate	BQL	0.030	mg/L	11/08/96
Lead, Leachate	BQL	0.015	mg/L	11/08/96
Antimony, Leachate	BQL	0.0050	mg/L	11/08/96
Selenium, Leachate	BQL	0.050	mg/L	11/06/96
Tin, Leachate	BQL	1.5	mg/L	11/12/96
Thallium, Leachate	BQL	0.0050	mg/L	11/08/96
Vanadium, Leachate	BQL	0.050	mg/L	11/11/96
Zinc, Leachate	BQL	1.0	mg/L	11/08/96
Silver, Total	BQL	0.70	mg/kg	11/11/96
Arsenic, Total	BQL	1.0	mg/kg	11/06/96
Barium, Total	BQL	20.	mg/kg	11/12/96
Beryllium, Total	0.62	0.40	mg/kg	11/11/96
Cadmium, Total	0.32	0.10	mg/kg	11/08/96
Cobalt, Total	3.2	1.0	mg/kg	11/11/96
Chromium, Total	22.	1.0	mg/kg	11/08/96
Copper, Total	99.	0.40	mg/kg	11/08/96
Mercury, Total	BQL	0.10	mg/kg	11/08/96
Nickel, Total	11.	0.60	mg/kg	11/08/96
Lead, Total	11.	1.2	mg/kg	11/08/96
Antimony, Total	BQL	10.	mg/kg	11/08/96
Selenium, Total	BQL	1.0	mg/kg	11/06/96

ENVIRITE CORPORATION
620 West Germantown Pike
'mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST Bottom G-2
EAS Project Number: 1306-96
EAS Sample Number: 9605896
Date Sample Received: 11/02/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Tin, Total	BQL		30.	mg/kg	11/12/96
Thallium, Total	BQL		0.40	mg/kg	11/08/96
Vanadium, Total	BQL		20.	mg/kg	11/12/96
Zinc, Total	60.		2.0	mg/kg	11/08/96
Base/Neutral and Acidic Extractable - Method SW-846-8270					11/04/96
Semi-Volatiles List - Thomaston RFI - Method 8270					
1,4-Dichlorobenzene	BQL		330.	ug/kg	11/07/96
2,4,5-Trichlorophenol	BQL		330.	ug/kg	11/07/96
2,4,6-Trichlorophenol	BQL		60.	ug/kg	11/07/96
2,4-Dichlorophenol	BQL		330.	ug/kg	11/07/96
2,4-Dinitrotoluene	BQL		330.	ug/kg	11/07/96
2,6-Dichlorophenol	BQL		330.	ug/kg	11/07/96
2-Chlorophenol	BQL		330.	ug/kg	11/07/96
2-Methylnaphthalene	BQL		330.	ug/kg	11/07/96
Acenaphthene	BQL		330.	ug/kg	11/07/96
Anthracene	10.	J	330.	ug/kg	11/07/96
Bis (2-ethylhexyl) phthalate	230.	J	330.	ug/kg	11/07/96
Butyl benzylphthalate	BQL		330.	ug/kg	11/07/96
Total Cresol	BQL		990.	ug/kg	11/07/96
Dibenzofuran	BQL		330.	ug/kg	11/07/96
Diethylphthalate	BQL		330.	ug/kg	11/07/96
Di-n-octylphthalate	BQL		330.	ug/kg	11/07/96
Di-n-butylphthalate	530.		330.	ug/kg	11/07/96
Fluoranthene	110.	J	330.	ug/kg	11/07/96
Fluorene	BQL		330.	ug/kg	11/07/96
Hexachlorobenzene	BQL		330.	ug/kg	11/07/96
Hexachlorobutadiene	BQL		330.	ug/kg	11/07/96
Hexachloroethane	BQL		330.	ug/kg	11/07/96
m-Cresol	BQL		330.	ug/kg	11/07/96
Naphthalene	BQL		330.	ug/kg	11/07/96
Nitrobenzene	BQL		330.	ug/kg	11/07/96
N-Nitrosodimethylamine	BQL		100.	ug/kg	11/07/96
N-Nitrosodiphenylamine	BQL		200.	ug/kg	11/07/96
o-Cresol	BQL		330.	ug/kg	11/07/96
p-Cresol	BQL		330.	ug/kg	11/07/96
Pentachlorophenol	BQL		1000.	ug/kg	11/07/96
Phenanthrene	56.	J	330.	ug/kg	11/07/96
Pyrene	110.	J	330.	ug/kg	11/07/96
Pyridine	BQL		330.	ug/kg	11/07/96

ENVIRITE CORPORATION
620 West Germantown Pike
ymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST Bottom G-2
EAS Project Number: 1306-96
EAS Sample Number: 9605896
Date Sample Received: 11/02/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Benzo (a) pyrene	32.	J	330.	ug/kg	11/07/96
Benzo (b) fluoranthene	65.	J	330.	ug/kg	11/07/96
Benzo (k) fluoranthene	69.	J	330.	ug/kg	11/07/96
Solid Matrix Herbicides Long - Method 8150					
2,4,5-T	BQL		0.010	mg/kg	11/06/96
2,4,5-TP (Silvex)	BQL		0.010	mg/kg	11/06/96
2,4-D	BQL		0.050	mg/kg	11/06/96
2,4-DB	BQL		0.050	mg/kg	11/06/96
Dalapon	BQL		1.0	mg/kg	11/06/96
Dicamba	BQL		0.010	mg/kg	11/06/96
Dichloroprop	BQL		0.050	mg/kg	11/06/96
Dinoseb	BQL		0.010	mg/kg	11/06/96
MCPA	BQL		10.	mg/kg	11/06/96
MCPP	BQL		10.	mg/kg	11/06/96
Solid Matrix PCB's - Method 608/8080					
Aroclor 1016	BQL		0.033	mg/kg	11/08/96
Aroclor 1221	BQL		0.033	mg/kg	11/08/96
Aroclor 1232	BQL		0.033	mg/kg	11/08/96
Aroclor 1242	BQL		0.033	mg/kg	11/08/96
Aroclor 1248	BQL		0.033	mg/kg	11/08/96
Aroclor 1254	BQL		0.033	mg/kg	11/08/96
Aroclor 1260	BQL		0.033	mg/kg	11/08/96
Solid Matrix Pesticides - Method 608/8080					
4,4'-DDD	BQL		4.0	ug/kg	11/08/96
4,4'-DDE	BQL		4.0	ug/kg	11/08/96
4,4'-DDT	BQL		4.0	ug/kg	11/08/96
Aldrin	BQL		2.0	ug/kg	11/08/96
Dieldrin	BQL		1.0	ug/kg	11/08/96
Endosulfan sulfate	BQL		4.0	ug/kg	11/08/96
Endrin aldehyde	BQL		4.0	ug/kg	11/08/96
Endrin	BQL		4.0	ug/kg	11/08/96
Endrin ketone	BQL		4.0	ug/kg	11/08/96
Heptachlor	BQL		2.0	ug/kg	11/08/96
Heptachlor epoxide	BQL		2.0	ug/kg	11/08/96
Methoxychlor	BQL		20.	ug/kg	11/08/96
a-BHC	BQL		0.40	ug/kg	11/08/96
a-Chlordane	BQL		4.0	ug/kg	11/08/96

ENVIRITE CORPORATION
620 West Germantown Pike
/mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST Bottom G-2
EAS Project Number: 1306-96
EAS Sample Number: 9605896
Date Sample Received: 11/02/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Endosulfan I	BQL		4.0	ug/kg	11/08/96
b-BHC	BQL		2.0	ug/kg	11/08/96
b-Chlordane	BQL		4.0	ug/kg	11/08/96
Endosulfan II	BQL		4.0	ug/kg	11/08/96
d-BHC	BQL		2.0	ug/kg	11/08/96
g-BHC (Lindane)	BQL		2.0	ug/kg	11/08/96
Solid Matrix Toxaphene/Chlordane - Method 608/8080					
Chlordane	BQL		30.	ug/kg	11/08/96
Toxaphene	BQL		40.	ug/kg	11/08/96
Synthetic Rain Leaching Procedure					11/04/96
RrI Volatile list - Soils - Method 8260					
1,1,1-Trichloroethane	BQL		10.	ug/kg	11/05/96
1,1,2,2-Tetrachloroethane	BQL		1.0	ug/kg	11/05/96
1,1,2-Trichloroethane	BQL		10.	ug/kg	11/05/96
1,1-Dichloroethane	BQL		10.	ug/kg	11/05/96
1,1-Dichloroethene	BQL		10.	ug/kg	11/05/96
1,2-Dichloroethane	BQL		10.	ug/kg	11/05/96
1,2-Dichloropropane	BQL		10.	ug/kg	11/05/96
Dibromochloromethane	BQL		10.	ug/kg	11/05/96
2-Chloroethyl vinyl ether	BQL		10.	ug/kg	11/05/96
2-Hexanone	BQL		10.	ug/kg	11/05/96
Acetone	80.		10.	ug/kg	11/05/96
Acrolein	BQL		100.	ug/kg	11/05/96
Benzene	BQL		10.	ug/kg	11/05/96
Bromodichloromethane	BQL		10.	ug/kg	11/05/96
Bromomethane	BQL		10.	ug/kg	11/05/96
Bromoform	BQL		10.	ug/kg	11/05/96
cis-1,2-Dichloroethene	BQL		10.	ug/kg	11/05/96
cis-1,3-Dichloropropene	BQL		1.0	ug/kg	11/05/96
Carbon disulfide	BQL		10.	ug/kg	11/05/96
Carbon tetrachloride	BQL		10.	ug/kg	11/05/96
Chloroform	BQL		10.	ug/kg	11/05/96
Chlorobenzene	BQL		10.	ug/kg	11/05/96
Chloroethane	BQL		10.	ug/kg	11/05/96
Chloromethane	BQL		6.6	ug/kg	11/05/96
Ethylbenzene	BQL		10.	ug/kg	11/05/96
Methylene chloride	6.4	J	10.	ug/kg	11/05/96
2-Butanone (MEK)	24.		10.	ug/kg	11/05/96

ENVIRITE CORPORATION
620 West Germantown Pike
" 'mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST Bottom G-2
EAS Project Number: 1306-96
EAS Sample Number: 9605896
Date Sample Received: 11/02/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
4-Methyl-2-Pentanone	BQL		10.	ug/kg	11/05/96
Styrene	BQL		10.	ug/kg	11/05/96
trans-1,2-Dichloroethene	BQL		10.	ug/kg	11/05/96
trans-1,3-Dichloropropene	BQL		1.0	ug/kg	11/05/96
Tetrachloroethylene	3.5	J	10.	ug/kg	11/05/96
Toluene	BQL		10.	ug/kg	11/05/96
Total Xylenes	BQL		10.	ug/kg	11/05/96
Trichloroethylene	BQL		10.	ug/kg	11/05/96
Vinyl acetate	BQL		10.	ug/kg	11/05/96
Vinyl chloride	BQL		10.	ug/kg	11/05/96

= Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

2. Clean Water Act, List of Approved Test Procedures, 40 CFR.

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

ENVIRITE CORPORATION
620 West Germantown Pike
Plymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/12/1996
Sample Description: East UST - Soil Sample - Layer of Black Material
EAS Project Number: 1306-96
EAS Sample Number: 9606084
Date Sample Received: 11/12/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
pH	6.9			11/12/96
Sulfide, Total	BQL	10.	mg/kg	11/12/96

* Comments *

Sulfide was determined using a screening method with lead acetate paper.

BQL = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

2. Clean Water Act, List of Approved Test Procedures, 40 CFR.

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

ENVIRITE CORPORATION
620 West Germantown Pike
Plymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST - Field Blank
EAS Project Number: 1306-96
EAS Sample Number: 9605897
Date Sample Received: 11/02/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Herbicide Extraction				11/03/96
Base/Neutral & Acidic Extraction				11/04/96
Aqueous Pesticide/PCB Extraction				11/04/96
Cyanide, Total	BQL	0.010	mg/L	11/04/96
Sulfide, Total	BQL	1.0	mg/L	11/05/96
Total Petroleum Hydrocarbons	BQL	0.50	mg/L	11/07/96
Metals Digestion - Aqueous Sample - Method SW-846-3000				11/06/96
Silver, Total	BQL	0.030	mg/L	11/12/96
Arsenic, Total	BQL	0.0050	mg/L	11/07/96
Barium, Total	BQL	0.50	mg/L	11/12/96
Beryllium, Total	BQL	0.0010	mg/L	11/11/96
Cadmium, Total	BQL	0.0050	mg/L	11/08/96
Cobalt, Total	BQL	0.050	mg/L	11/12/96
Chromium, Total	BQL	0.050	mg/L	11/08/96
Copper, Total	BQL	0.020	mg/L	11/08/96
Mercury, Total	BQL	0.0020	mg/L	11/08/96
Nickel, Total	BQL	0.030	mg/L	11/08/96
Lead, Total	BQL	0.060	mg/L	11/08/96
Antimony, Total	BQL	0.0050	mg/L	11/08/96
Selenium, Total	BQL	0.0050	mg/L	11/06/96
Tin, Total	BQL	1.0	mg/L	11/12/96
Thallium, Total	BQL	0.0050	mg/L	11/08/96
Vanadium-Total	BQL	0.050	mg/L	11/11/96
Zinc, Total	BQL	0.040	mg/L	11/08/96
Pests/PCBs List for Thomaston RFI - Method 8080				
4,4'-DDE	BQL	0.10	ug/L	11/07/96
4,4'-DDT	BQL	0.10	ug/L	11/07/96
Aldrin	BQL	0.050	ug/L	11/07/96
Chlordane	BQL	0.10	ug/L	11/07/96
Dieldrin	BQL	0.10	ug/L	11/07/96
Endrin aldehyde	BQL	0.10	ug/L	11/07/96
Heptachlor	BQL	0.050	ug/L	11/07/96
Methoxychlor	BQL	0.50	ug/L	11/07/96
Aroclor 1242	BQL	1.0	ug/L	11/07/96
Aroclor 1254	BQL	1.0	ug/L	11/07/96
Toxaphene	BQL	0.10	ug/L	11/07/96
Endosulfan I	BQL	0.050	ug/L	11/07/96
b-BHC	BQL	0.028	ug/L	11/07/96

ENVIRITE CORPORATION
620 West Germantown Pike
`ymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST - Field Blank
EAS Project Number: 1306-96
EAS Sample Number: 9605897
Date Sample Received: 11/02/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Endosulfan II	BQL	0.011	ug/L	11/07/96
d-BHC	BQL	0.050	ug/L	11/07/96
g-BHC (Lindane)	BQL	0.014	ug/L	11/07/96
Herbicides - Method SW-846-8150				
2,4,5-T	BQL	1.0	ug/L	11/06/96
2,4,5-TP (Silvex)	BQL	1.0	ug/L	11/06/96
2,4-D	BQL	1.0	ug/L	11/06/96
2,4-DB	BQL	1.0	ug/L	11/06/96
Dalapon	BQL	1.0	ug/L	11/06/96
Dicamba	BQL	1.0	ug/L	11/06/96
Dichloroprop	BQL	1.0	ug/L	11/06/96
Dinoseb	BQL	1.0	ug/L	11/06/96
MCPA	BQL	1.0	ug/L	11/06/96
MCPP	BQL	1.0	ug/L	11/06/96
Semi-volatile Organic Compounds - Method SW846-8270				
1,2,4-Trichlorobenzene	BQL	10.	ug/L	11/07/96
1,2-Dichlorobenzene	BQL	10.	ug/L	11/07/96
1,2-Diphenylhydrazine	BQL	10.	ug/L	11/07/96
1,3-Dichlorobenzene	BQL	10.	ug/L	11/07/96
1,4-Dichlorobenzene	BQL	10.	ug/L	11/07/96
2,4,6-Trichlorophenol	BQL	10.	ug/L	11/07/96
2,4-Dichlorophenol	BQL	10.	ug/L	11/07/96
2,4-Dimethyphenol	BQL	10.	ug/L	11/07/96
2,4-Dinitrophenol	BQL	50.	ug/L	11/07/96
2,4-Dinitrotoluene	BQL	10.	ug/L	11/07/96
2,6-Dichlorophenol	BQL	10.	ug/L	11/07/96
2,6-Dinitrotoluene	BQL	10.	ug/L	11/07/96
2-Chloronaphthalene	BQL	10.	ug/L	11/07/96
2-Chlorophenol	BQL	10.	ug/L	11/07/96
2-Methyl-4,6-dinitrophenol	BQL	50.	ug/L	11/07/96
2-Nitrophenol	BQL	10.	ug/L	11/07/96
3,3'-Dichlorobenzidine	BQL	20.	ug/L	11/07/96
4-Bromophenyl phenyl ether	BQL	10.	ug/L	11/07/96
4-Chloro-3-methylphenol	BQL	20.	ug/L	11/07/96
4-Chlorophenyl phenyl ether	BQL	10.	ug/L	11/07/96
4-Nitrophenol	BQL	50.	ug/L	11/07/96
Hexachlorobutadiene	BQL	10.	ug/L	11/07/96
Acenapthtylene	BQL	10.	ug/L	11/07/96

ENVIRITE CORPORATION
620 West Germantown Pike
`ymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST - Field Blank
EAS Project Number: 1306-96
EAS Sample Number: 9605897
Date Sample Received: 11/02/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Acenaphthene	BQL		10.	ug/L	11/07/96
Anthracene	BQL		10.	ug/L	11/07/96
Bis (2-ethylhexyl) phthalate	1.1	J	10.	ug/L	11/07/96
Bis (2-chloroethyl) ether	BQL		10.	ug/L	11/07/96
Bis (2-chloroethoxy) methane	BQL		10.	ug/L	11/07/96
Bis (2-chloroisopropyl) ether	BQL		10.	ug/L	11/07/96
Benzidine	BQL		50.	ug/L	11/07/96
Butyl benzylphthalate	BQL		10.	ug/L	11/07/96
Chrysene	BQL		10.	ug/L	11/07/96
Total Cresol	BQL		10.	ug/L	11/07/96
Dibenzo[a,h]anthracene	BQL		10.	ug/L	11/07/96
Diethylphthalate	BQL		10.	ug/L	11/07/96
Dimethylphthalate	BQL		10.	ug/L	11/07/96
Di-n-octylphthalate	BQL		10.	ug/L	11/07/96
Di-n-butylphthalate	1.1	J	10.	ug/L	11/07/96
Fluoranthene	BQL		10.	ug/L	11/07/96
Fluorene	BQL		10.	ug/L	11/07/96
Hexachlorobenzene	BQL		10.	ug/L	11/07/96
Hexachlorobutadiene	BQL		10.	ug/L	11/07/96
Hexachlorocyclopentadiene	BQL		10.	ug/L	11/07/96
Hexachloroethane	BQL		10.	ug/L	11/07/96
Indeno (1,2,3-cd) pyrene	BQL		10.	ug/L	11/07/96
Isophorone	BQL		10.	ug/L	11/07/96
m-Cresol	BQL		10.	ug/L	11/07/96
Naphthalene	BQL		10.	ug/L	11/07/96
Nitrobenzene	BQL		10.	ug/L	11/07/96
N-Nitrosodimethylamine	BQL		10.	ug/L	11/07/96
N-Nitrosodi-n-propylamine	BQL		10.	ug/L	11/07/96
N-Nitrosodiphenylamine	BQL		10.	ug/L	11/07/96
o-Cresol	BQL		10.	ug/L	11/07/96
p-Cresol	BQL		10.	ug/L	11/07/96
Pentachlorophenol	BQL		50.	ug/L	11/07/96
Phenanthrene	BQL		10.	ug/L	11/07/96
Phenol	BQL		10.	ug/L	11/07/96
Pyrene	BQL		10.	ug/L	11/07/96
Pyridine	BQL		10.	ug/L	11/07/96
Benzo (a) anthracene	BQL		10.	ug/L	11/07/96
Benzo (a) pyrene	BQL		10.	ug/L	11/07/96
Benzo (b) fluoranthene	BQL		10.	ug/L	11/07/96
Benzo (ghi) perylene	BQL		10.	ug/L	11/07/96

ENVIRITE CORPORATION
620 West Germantown Pike
ymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST - Field Blank
EAS Project Number: 1306-96
EAS Sample Number: 9605897
Date Sample Received: 11/02/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Benzo (k) fluoranthene	BQL		10.	ug/L	11/07/96
Volatile List for Thomaston RFI - Method 8260					
1,1,1-Trichloroethane	BQL		10.	ug/L	11/06/96
1,1,2,2-Tetrachloroethane	BQL		10.	ug/L	11/06/96
1,1,2-Trichloroethane	BQL		10.	ug/L	11/06/96
1,1-Dichloroethane	BQL		10.	ug/L	11/06/96
1,1-Dichloroethene	BQL		10.	ug/L	11/06/96
1,2-Dichloroethane	BQL		10.	ug/L	11/06/96
1,2-Dichloropropane	BQL		10.	ug/L	11/06/96
Dibromochloromethane	BQL		10.	ug/L	11/06/96
2-Chloroethyl vinyl ether	BQL		10.	ug/L	11/06/96
2-Hexanone	BQL		10.	ug/L	11/06/96
Acetone	14.		10.	ug/L	11/06/96
Benzene	BQL		10.	ug/L	11/06/96
Bromodichloromethane	BQL		10.	ug/L	11/06/96
Bromomethane	BQL		10.	ug/L	11/06/96
Bromoform	BQL		10.	ug/L	11/06/96
cis-1,2-Dichloroethene	BQL		10.	ug/L	11/06/96
cis-1,3-Dichloropropene	BQL		10.	ug/L	11/06/96
Carbon disulfide	BQL		10.	ug/L	11/06/96
Carbon tetrachloride	BQL		10.	ug/L	11/06/96
Chloroform	BQL		10.	ug/L	11/06/96
Chlorobenzene	BQL		10.	ug/L	11/06/96
Chloroethane	BQL		10.	ug/L	11/06/96
Chloromethane	BQL		10.	ug/L	11/06/96
Ethylbenzene	BQL		10.	ug/L	11/06/96
Methylene chloride	1.4	J	10.	ug/L	11/06/96
2-Butanone (MEK)	BQL		10.	ug/L	11/06/96
4-Methyl-2-Pentanone	BQL		10.	ug/L	11/06/96
Styrene	BQL		10.	ug/L	11/06/96
trans-1,2-Dichloroethene	BQL		10.	ug/L	11/06/96
trans-1,3-Dichloropropene	BQL		10.	ug/L	11/06/96
Tetrachloroethylene	BQL		10.	ug/L	11/06/96
Toluene	BQL		10.	ug/L	11/06/96
Total Xylenes	BQL		10.	ug/L	11/06/96
Trichloroethylene	BQL		10.	ug/L	11/06/96
Vinyl acetate	BQL		10.	ug/L	11/06/96
Vinyl chloride	BQL		10.	ug/L	11/06/96

ENVIRITE CORPORATION
620 West Germantown Pike
`ymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST - Field Blank
EAS Project Number: 1306-96
EAS Sample Number: 9605897
Date Sample Received: 11/02/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Aqueous Matrix PCB's - Method 608/8080				
Aroclor 1016	BQL	1.0	ug/L	11/07/96
Aroclor 1221	BQL	1.0	ug/L	11/07/96
Aroclor 1232	BQL	1.0	ug/L	11/07/96
Aroclor 1242	BQL	1.0	ug/L	11/07/96
Aroclor 1248	BQL	1.0	ug/L	11/07/96
Aroclor 1254	BQL	1.0	ug/L	11/07/96
Aroclor 1260	BQL	1.0	ug/L	11/07/96

BQL = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

2. Clean Water Act, List of Approved Test Procedures, 40 CFR.

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

ENVIRITE CORPORATION
620 West Germantown Pike
~`ymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: Trip Blank
EAS Project Number: 1306-96
EAS Sample Number: 9605899
Date Sample Received: 11/02/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Volatile List for Thomaston RFI - Method 8260					
1,1,1-Trichloroethane	BQL		10.	ug/L	11/06/96
1,1,2,2-Tetrachloroethane	BQL		10.	ug/L	11/06/96
1,1,2-Trichloroethane	BQL		10.	ug/L	11/06/96
1,1-Dichloroethane	BQL		10.	ug/L	11/06/96
1,1-Dichloroethene	BQL		10.	ug/L	11/06/96
1,2-Dichloroethane	BQL		10.	ug/L	11/06/96
1,2-Dichloropropane	BQL		10.	ug/L	11/06/96
Dibromochloromethane	BQL		10.	ug/L	11/06/96
2-Chloroethyl vinyl ether	BQL		10.	ug/L	11/06/96
2-Hexanone	BQL		10.	ug/L	11/06/96
Acetone	4.4	J	10.	ug/L	11/06/96
Benzene	BQL		10.	ug/L	11/06/96
Bromodichloromethane	BQL		10.	ug/L	11/06/96
Bromomethane	BQL		10.	ug/L	11/06/96
Bromoform	BQL		10.	ug/L	11/06/96
cis-1,2-Dichloroethene	BQL		10.	ug/L	11/06/96
cis-1,3-Dichloropropene	BQL		10.	ug/L	11/06/96
Carbon disulfide	BQL		10.	ug/L	11/06/96
Carbon tetrachloride	BQL		10.	ug/L	11/06/96
Chloroform	BQL		10.	ug/L	11/06/96
Chlorobenzene	BQL		10.	ug/L	11/06/96
Chloroethane	BQL		10.	ug/L	11/06/96
Chloromethane	BQL		10.	ug/L	11/06/96
Ethylbenzene	BQL		10.	ug/L	11/06/96
Methylene chloride	BQL		10.	ug/L	11/06/96
2-Butanone (MEK)	BQL		10.	ug/L	11/06/96
4-Methyl-2-Pentanone	BQL		10.	ug/L	11/06/96
Styrene	BQL		10.	ug/L	11/06/96
trans-1,2-Dichloroethene	BQL		10.	ug/L	11/06/96
trans-1,3-Dichloropropene	BQL		10.	ug/L	11/06/96
Tetrachloroethylene	BQL		10.	ug/L	11/06/96
Toluene	BQL		10.	ug/L	11/06/96
Total Xylenes	BQL		10.	ug/L	11/06/96
Trichloroethylene	BQL		10.	ug/L	11/06/96
Vinyl acetate	BQL		10.	ug/L	11/06/96
Vinyl chloride	BQL		10.	ug/L	11/06/96

ENVIRITE CORPORATION
620 West Germantown Pike
ymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: Trip Blank
EAS Project Number: 1306-96
EAS Sample Number: 9605899
Date Sample Received: 11/02/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date

BQL = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

2. Clean Water Act, List of Approved Test Procedures, 40 CFR.

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

APPENDIX E

ENVIRITE CORPORATION
620 West Germantown Pike
Plymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 10/31/1996
Sample Description: West UST Composite - 0-5' (MS/MSD)
EAS Project Number: 1306-96
EAS Sample Number: 9605882
Date Sample Received: 11/01/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Herbicide Extraction				11/03/96
Solid Pesticide/PCB Extraction				11/05/96
Cyanide - Leachable	BQL	0.10	mg/L	11/05/96
Cyanide, Total	BQL	5.0	mg/kg	11/05/96
Sulfide, Total	BQL	10.	mg/kg	11/05/96
Total Petroleum Hydrocarbons	BQL	40.	mg/kg	11/07/96
Leachable Metals Digestion - Method SW846				11/06/96
Metal's Digestion for Solid Samples - Method SW-846-3050				11/06/96
Silver, Leachate	BQL	0.035	mg/L	11/11/96
Arsenic, Leachate	BQL	0.050	mg/L	11/06/96
Barium, Leachate	BQL	1.0	mg/L	11/12/96
Beryllium, Leachate	BQL	0.0010	mg/L	11/08/96
Cadmium, Leachate	BQL	0.0050	mg/L	11/08/96
Cobalt, Leachate	BQL	0.050	mg/L	11/11/96
Chromium, Leachate	BQL	0.050	mg/L	11/08/96
Copper, Leachate	BQL	0.20	mg/L	11/08/96
Mercury, Leachate	BQL	0.0020	mg/L	11/08/96
Nickel, Leachate	BQL	0.030	mg/L	11/08/96
Lead, Leachate	BQL	0.015	mg/L	11/08/96
Antimony, Leachate	BQL	0.0050	mg/L	11/08/96
Selenium, Leachate	BQL	0.050	mg/L	11/06/96
Tin, Leachate	BQL	1.5	mg/L	11/12/96
Thallium, Leachate	BQL	0.0050	mg/L	11/08/96
Vanadium, Leachate	BQL	0.050	mg/L	11/11/96
Zinc, Leachate	BQL	1.0	mg/L	11/08/96
Silver, Total	1.2	0.70	mg/kg	11/11/96
Arsenic, Total	BQL	1.0	mg/kg	11/06/96
Barium, Total	BQL	20.	mg/kg	11/12/96
Beryllium, Total	BQL	0.40	mg/kg	11/11/96
Cadmium, Total	0.74	0.10	mg/kg	11/08/96
Cobalt, Total	4.4	1.0	mg/kg	11/11/96
Chromium, Total	30.	1.0	mg/kg	11/08/96
Copper, Total	87.	0.40	mg/kg	11/08/96
Mercury, Total	BQL	0.10	mg/kg	11/08/96
Nickel, Total	17.	0.60	mg/kg	11/08/96
Lead, Total	18.	1.2	mg/kg	11/08/96
Antimony, Total	BQL	10.	mg/kg	11/08/96
Selenium, Total	BQL	1.0	mg/kg	11/06/96

ENVIRITE CORPORATION
620 West Germantown Pike
Plymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 10/31/1996
Sample Description: West UST Composite - 0-5' (MS/MSD)
EAS Project Number: 1306-96
EAS Sample Number: 9605882
Date Sample Received: 11/01/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Tin, Total	BQL		30.	mg/kg	11/12/96
Thallium, Total	BQL		0.40	mg/kg	11/08/96
Vanadium, Total	BQL		20.	mg/kg	11/12/96
Zinc, Total	44.		2.0	mg/kg	11/08/96
Base/Neutral and Acidic Extractable - Method SW-846-8270					11/04/96
Semi-Volatiles List - Thomaston RFI - Method 8270					
1,4-Dichlorobenzene	BQL		330.	ug/kg	11/07/96
2,4,5-Trichlorophenol	BQL		330.	ug/kg	11/07/96
2,4,6-Trichlorophenol	BQL		60.	ug/kg	11/07/96
2,4-Dichlorophenol	BQL		330.	ug/kg	11/07/96
2,4-Dinitrotoluene	BQL		330.	ug/kg	11/07/96
2,6-Dichlorophenol	BQL		330.	ug/kg	11/07/96
2-Chlorophenol	BQL		330.	ug/kg	11/07/96
2-Methylnaphthalene	BQL		330.	ug/kg	11/07/96
Acenaphthene	BQL		330.	ug/kg	11/07/96
Anthracene	8.6	J	330.	ug/kg	11/07/96
Bis (2-ethylhexyl) phthalate	30.	J	330.	ug/kg	11/07/96
Butyl benzylphthalate	BQL		330.	ug/kg	11/07/96
Total Cresol	BQL		990.	ug/kg	11/07/96
Dibenzofuran	BQL		330.	ug/kg	11/07/96
Diethylphthalate	BQL		330.	ug/kg	11/07/96
Di-n-octylphthalate	BQL		330.	ug/kg	11/07/96
Di-n-butylphthalate	390.		330.	ug/kg	11/07/96
Fluoranthene	96.	J	330.	ug/kg	11/07/96
Fluorene	BQL		330.	ug/kg	11/07/96
Hexachlorobenzene	BQL		330.	ug/kg	11/07/96
Hexachlorobutadiene	BQL		330.	ug/kg	11/07/96
Hexachloroethane	BQL		330.	ug/kg	11/07/96
m-Cresol	BQL		330.	ug/kg	11/07/96
Naphthalene	BQL		330.	ug/kg	11/07/96
Nitrobenzene	BQL		330.	ug/kg	11/07/96
N-Nitrosodimethylamine	BQL		100.	ug/kg	11/07/96
N-Nitrosodiphenylamine	BQL		200.	ug/kg	11/07/96
o-Cresol	BQL		330.	ug/kg	11/07/96
p-Cresol	BQL		330.	ug/kg	11/07/96
Pentachlorophenol	BQL		1000.	ug/kg	11/07/96
Phenanthrene	47.	J	330.	ug/kg	11/07/96
Pyrene	60.	J	330.	ug/kg	11/07/96
Pyridine	BQL		330.	ug/kg	11/07/96

ENVIRITE CORPORATION
620 West Germantown Pike
' 'mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 10/31/1996
Sample Description: West UST Composite - 0-5' (MS/MSD)
EAS Project Number: 1306-96
EAS Sample Number: 9605882
Date Sample Received: 11/01/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Benzo (a) pyrene	86.	J	330.	ug/kg	11/07/96
Benzo (b) fluoranthene	63.	J	330.	ug/kg	11/07/96
Benzo (k) fluoranthene	47.	J	330.	ug/kg	11/07/96
Solid Matrix Herbicides Long - Method 8150					
2,4,5-T	BQL		0.010	mg/kg	11/06/96
2,4,5-TP (Silvex)	BQL		0.010	mg/kg	11/06/96
2,4-D	BQL		0.050	mg/kg	11/06/96
2,4-DB	BQL		0.050	mg/kg	11/06/96
Dalapon	BQL		1.0	mg/kg	11/06/96
Dicamba	BQL		0.010	mg/kg	11/06/96
Dichloroprop	BQL		0.050	mg/kg	11/06/96
Dinoseb	BQL		0.010	mg/kg	11/06/96
MCPA	BQL		10.	mg/kg	11/06/96
MCPP	BQL		10.	mg/kg	11/06/96
Solid Matrix PCB's - Method 608/8080					
Aroclor 1016	BQL		0.033	mg/kg	11/07/96
Aroclor 1221	BQL		0.033	mg/kg	11/07/96
Aroclor 1232	BQL		0.033	mg/kg	11/07/96
Aroclor 1242	BQL		0.033	mg/kg	11/07/96
Aroclor 1248	BQL		0.033	mg/kg	11/07/96
Aroclor 1254	BQL		0.033	mg/kg	11/07/96
Aroclor 1260	BQL		0.033	mg/kg	11/07/96
Solid Matrix Pesticides - Method 608/8080					
4,4'-DDD	BQL		4.0	ug/kg	11/07/96
4,4'-DDE	BQL		4.0	ug/kg	11/07/96
4,4'-DDT	BQL		4.0	ug/kg	11/07/96
Aldrin	BQL		2.0	ug/kg	11/07/96
Dieldrin	BQL		1.0	ug/kg	11/07/96
Endosulfan sulfate	BQL		4.0	ug/kg	11/07/96
Endrin aldehyde	BQL		4.0	ug/kg	11/07/96
Endrin	BQL		4.0	ug/kg	11/07/96
Endrin ketone	BQL		4.0	ug/kg	11/07/96
Heptachlor	BQL		2.0	ug/kg	11/07/96
Heptachlor epoxide	BQL		2.0	ug/kg	11/07/96
Methoxychlor	BQL		20.	ug/kg	11/07/96
a-BHC	BQL		0.40	ug/kg	11/07/96
a-Chlordane	BQL		4.0	ug/kg	11/07/96

ENVIRITE CORPORATION
620 West Germantown Pike
Plymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 10/31/1996
Sample Description: West UST Composite - 0-5' (MS/MSD)
EAS Project Number: 1306-96
EAS Sample Number: 9605882
Date Sample Received: 11/01/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Endosulfan I	BQL		4.0	ug/kg	11/07/96
b-BHC	BQL		2.0	ug/kg	11/07/96
b-Chlordane	BQL		4.0	ug/kg	11/07/96
Endosulfan II	BQL		4.0	ug/kg	11/07/96
d-BHC	BQL		2.0	ug/kg	11/07/96
g-BHC (Lindane)	BQL		2.0	ug/kg	11/07/96
Solid Matrix Toxaphene/Chlordane - Method 608/8080					
Chlordane	BQL		30.	ug/kg	11/07/96
Toxaphene	BQL		40.	ug/kg	11/07/96
Synthetic Rain Leaching Procedure					11/04/96
Volatile list - Soils - Method 8260					
1,1,1-Trichloroethane	BQL		10.	ug/kg	11/06/96
1,1,2,2-Tetrachloroethane	BQL		1.0	ug/kg	11/06/96
1,1,2-Trichloroethane	BQL		10.	ug/kg	11/06/96
1,1-Dichloroethane	BQL		10.	ug/kg	11/06/96
1,1-Dichloroethene	BQL		10.	ug/kg	11/06/96
1,2-Dichloroethane	BQL		10.	ug/kg	11/06/96
1,2-Dichloropropane	BQL		10.	ug/kg	11/06/96
Dibromochloromethane	BQL		10.	ug/kg	11/06/96
2-Chloroethyl vinyl ether	BQL		10.	ug/kg	11/06/96
2-Hexanone	BQL		10.	ug/kg	11/06/96
Acetone	3.4	J	10.	ug/kg	11/06/96
Acrolein	BQL		100.	ug/kg	11/06/96
Benzene	BQL		10.	ug/kg	11/06/96
Bromodichloromethane	BQL		10.	ug/kg	11/06/96
Bromomethane	BQL		10.	ug/kg	11/06/96
Bromoform	BQL		10.	ug/kg	11/06/96
cis-1,2-Dichloroethene	BQL		10.	ug/kg	11/06/96
cis-1,3-Dichloropropene	BQL		1.0	ug/kg	11/06/96
Carbon disulfide	BQL		10.	ug/kg	11/06/96
Carbon tetrachloride	BQL		10.	ug/kg	11/06/96
Chloroform	BQL		10.	ug/kg	11/06/96
Chlorobenzene	BQL		10.	ug/kg	11/06/96
Chloroethane	BQL		10.	ug/kg	11/06/96
Chloromethane	BQL		6.6	ug/kg	11/06/96
Ethylbenzene	BQL		10.	ug/kg	11/06/96
Methylene chloride	2.8	J	10.	ug/kg	11/06/96
2-Butanone (MEK)	BQL		10.	ug/kg	11/06/96

ENVIRITE CORPORATION
620 West Germantown Pike
Plymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 10/31/1996
Sample Description: West UST Composite - 0-5' (MS/MSD)
EAS Project Number: 1306-96
EAS Sample Number: 9605882
Date Sample Received: 11/01/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
4-Methyl-2-Pentanone	BQL	10.	ug/kg	11/06/96
Styrene	BQL	10.	ug/kg	11/06/96
trans-1,2-Dichloroethene	BQL	10.	ug/kg	11/06/96
trans-1,3-Dichloropropene	BQL	1.0	ug/kg	11/06/96
Tetrachloroethylene	BQL	10.	ug/kg	11/06/96
Toluene	BQL	10.	ug/kg	11/06/96
Total Xylenes	BQL	10.	ug/kg	11/06/96
Trichloroethylene	BQL	10.	ug/kg	11/06/96
Vinyl acetate	BQL	10.	ug/kg	11/06/96
Vinyl chloride	BQL	10.	ug/kg	11/06/96

F = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

2. Clean Water Act, List of Approved Test Procedures, 40 CFR.

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

ENVIRITE CORPORATION
620 West Germantown Pike
F mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: West UST Composite - 5'- Bottom of Grave
EAS Project Number: 1306-96
EAS Sample Number: 9605883
Date Sample Received: 11/01/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Herbicide Extraction				11/03/96
Solid Pesticide/PCB Extraction				11/05/96
Cyanide - Leachable	BQL	0.10	mg/L	11/05/96
Cyanide, Total	BQL	5.0	mg/kg	11/05/96
Sulfide, Total	19.	10.	mg/kg	11/05/96
Total Petroleum Hydrocarbons	BQL	40.	mg/kg	11/07/96
Leachable Metals Digestion - Method SW846				11/06/96
Metal's Digestion for Solid Samples - Method SW-846-3050				11/06/96
Silver, Leachate	BQL	0.035	mg/L	11/11/96
A enic, Leachate	BQL	0.050	mg/L	11/06/96
Barium, Leachate	BQL	1.0	mg/L	11/12/96
Beryllium, Leachate	BQL	0.0010	mg/L	11/08/96
Cadmium, Leachate	BQL	0.0050	mg/L	11/08/96
Cobalt, Leachate	BQL	0.050	mg/L	11/11/96
Chromium, Leachate	BQL	0.050	mg/L	11/08/96
Copper, Leachate	BQL	0.20	mg/L	11/08/96
Mercury, Leachate	BQL	0.0020	mg/L	11/08/96
Nickel, Leachate	BQL	0.030	mg/L	11/08/96
Lead, Leachate	BQL	0.015	mg/L	11/08/96
Antimony, Leachate	BQL	0.0050	mg/L	11/08/96
Selenium, Leachate	BQL	0.050	mg/L	11/06/96
Tin, Leachate	BQL	1.5	mg/L	11/12/96
Thallium, Leachate	BQL	0.0050	mg/L	11/08/96
Vanadium, Leachate	BQL	0.050	mg/L	11/11/96
Zinc, Leachate	BQL	1.0	mg/L	11/08/96
Silver, Total	1.2	0.70	mg/kg	11/11/96
Arsenic, Total	BQL	1.0	mg/kg	11/06/96
Barium, Total	BQL	20.	mg/kg	11/12/96
Beryllium, Total	0.42	0.40	mg/kg	11/11/96
Cadmium, Total	0.44	0.10	mg/kg	11/08/96
Cobalt, Total	4.8	1.0	mg/kg	11/11/96
Chromium, Total	28.	1.0	mg/kg	11/08/96
Copper, Total	64.	0.40	mg/kg	11/08/96
Mercury, Total	BQL	0.10	mg/kg	11/08/96
Nickel, Total	15.	0.60	mg/kg	11/08/96
L d, Total	10.	1.2	mg/kg	11/08/96
Antimony, Total	BQL	10.	mg/kg	11/08/96
Selenium, Total	BQL	1.0	mg/kg	11/06/96

ENVIRITE CORPORATION
620 West Germantown Pike
Plymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: West UST Composite - 5'- Bottom of Grave
EAS Project Number: 1306-96
EAS Sample Number: 9605883
Date Sample Received: 11/01/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Tin, Total	BQL		30.	mg/kg	11/12/96
Thallium, Total	BQL		0.40	mg/kg	11/08/96
Vanadium, Total	BQL		20.	mg/kg	11/12/96
Zinc, Total	42.		2.0	mg/kg	11/08/96
Base/Neutral and Acidic Extractable - Method SW-846-8270					11/04/96
Semi-Volatiles List - Thomaston RFI - Method 8270					
1,4-Dichlorobenzene	BQL		330.	ug/kg	11/07/96
2,4,5-Trichlorophenol	BQL		330.	ug/kg	11/07/96
2,4,6-Trichlorophenol	BQL		60.	ug/kg	11/07/96
2,4-Dichlorophenol	BQL		330.	ug/kg	11/07/96
2,4-Dinitrotoluene	BQL		330.	ug/kg	11/07/96
2,6-Dichlorophenol	BQL		330.	ug/kg	11/07/96
2-Chlorophenol	BQL		330.	ug/kg	11/07/96
2-Methylnaphthalene	BQL		330.	ug/kg	11/07/96
Acenaphthene	BQL		330.	ug/kg	11/07/96
Anthracene	8.6	J	330.	ug/kg	11/07/96
Bis (2-ethylhexyl) phthalate	39.	J	330.	ug/kg	11/07/96
Butyl benzylphthalate	BQL		330.	ug/kg	11/07/96
Total Cresol	BQL		990.	ug/kg	11/07/96
Dibenzofuran	BQL		330.	ug/kg	11/07/96
Diethylphthalate	BQL		330.	ug/kg	11/07/96
Di-n-octylphthalate	BQL		330.	ug/kg	11/07/96
Di-n-butylphthalate	3400.		330.	ug/kg	11/07/96
Fluoranthene	100.	J	330.	ug/kg	11/07/96
Fluorene	BQL		330.	ug/kg	11/07/96
Hexachlorobenzene	BQL		330.	ug/kg	11/07/96
Hexachlorobutadiene	BQL		330.	ug/kg	11/07/96
Hexachloroethane	BQL		330.	ug/kg	11/07/96
m-Cresol	BQL		330.	ug/kg	11/07/96
Naphthalene	BQL		330.	ug/kg	11/07/96
Nitrobenzene	BQL		330.	ug/kg	11/07/96
N-Nitrosodimethylamine	BQL		100.	ug/kg	11/07/96
N-Nitrosodiphenylamine	BQL		200.	ug/kg	11/07/96
o-Cresol	BQL		330.	ug/kg	11/07/96
p-Cresol	BQL		330.	ug/kg	11/07/96
Pentachlorophenol	BQL		1000.	ug/kg	11/07/96
Phenanthrene	47.	J	330.	ug/kg	11/07/96
Pyrene	82.	J	330.	ug/kg	11/07/96
Pyridine	BQL		330.	ug/kg	11/07/96

ENVIRITE CORPORATION
620 West Germantown Pike
P' mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: West UST Composite - 5'- Bottom of Grave
EAS Project Number: 1306-96
EAS Sample Number: 9605883
Date Sample Received: 11/01/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Benzo (a) pyrene	57.	J	330.	ug/kg	11/07/96
Benzo (b) fluoranthene	58.	J	330.	ug/kg	11/07/96
Benzo (k) fluoranthene	63.	J	330.	ug/kg	11/07/96
Solid Matrix Herbicides Long - Method 8150					
2,4,5-T	BQL		0.010	mg/kg	11/06/96
2,4,5-TP (Silvex)	BQL		0.010	mg/kg	11/06/96
2,4-D	BQL		0.050	mg/kg	11/06/96
2,4-DB	BQL		0.050	mg/kg	11/06/96
Dalapon	BQL		1.0	mg/kg	11/06/96
Dicamba	BQL		0.010	mg/kg	11/06/96
Dichloroprop	BQL		0.050	mg/kg	11/06/96
Dinoseb	BQL		0.010	mg/kg	11/06/96
MCPA	BQL		10.	mg/kg	11/06/96
MCPP	BQL		10.	mg/kg	11/06/96
Solid Matrix PCB's - Method 608/8080					
Aroclor 1016	BQL		0.033	mg/kg	11/07/96
Aroclor 1221	BQL		0.033	mg/kg	11/07/96
Aroclor 1232	BQL		0.033	mg/kg	11/07/96
Aroclor 1242	BQL		0.033	mg/kg	11/07/96
Aroclor 1248	BQL		0.033	mg/kg	11/07/96
Aroclor 1254	BQL		0.033	mg/kg	11/07/96
Aroclor 1260	BQL		0.033	mg/kg	11/07/96
Solid Matrix Pesticides - Method 608/8080					
4,4'-DDD	BQL		4.0	ug/kg	11/07/96
4,4'-DDE	BQL		4.0	ug/kg	11/07/96
4,4'-DDT	BQL		4.0	ug/kg	11/07/96
Aldrin	BQL		2.0	ug/kg	11/07/96
Dieldrin	BQL		1.0	ug/kg	11/07/96
Endosulfan sulfate	BQL		4.0	ug/kg	11/07/96
Endrin aldehyde	BQL		4.0	ug/kg	11/07/96
Endrin	BQL		4.0	ug/kg	11/07/96
Endrin ketone	BQL		4.0	ug/kg	11/07/96
Heptachlor	BQL		2.0	ug/kg	11/07/96
Heptachlor epoxide	BQL		2.0	ug/kg	11/07/96
Methoxychlor	BQL		20.	ug/kg	11/07/96
a-BHC	BQL		0.40	ug/kg	11/07/96
a-Chlordane	BQL		4.0	ug/kg	11/07/96

ENVIRITE CORPORATION
620 West Germantown Pike
' mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: West UST Composite - 5'- Bottom of Grave
EAS Project Number: 1306-96
EAS Sample Number: 9605883
Date Sample Received: 11/01/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Endosulfan I	BQL		4.0	ug/kg	11/07/96
b-BHC	BQL		2.0	ug/kg	11/07/96
b-Chlordane	BQL		4.0	ug/kg	11/07/96
Endosulfan II	BQL		4.0	ug/kg	11/07/96
d-BHC	BQL		2.0	ug/kg	11/07/96
g-BHC (Lindane)	BQL		2.0	ug/kg	11/07/96
Solid Matrix Toxaphene/Chlordane - Method 608/8080					
Chlordane	BQL		30.	ug/kg	11/07/96
Toxaphene	BQL		40.	ug/kg	11/07/96
Synthetic Rain Leaching Procedure					11/04/96
Rt Volatile list - Soils - Method 8260					
1,1,1-Trichloroethane	BQL		10.	ug/kg	11/06/96
1,1,2,2-Tetrachloroethane	BQL		1.0	ug/kg	11/06/96
1,1,2-Trichloroethane	BQL		10.	ug/kg	11/06/96
1,1-Dichloroethane	BQL		10.	ug/kg	11/06/96
1,1-Dichloroethene	BQL		10.	ug/kg	11/06/96
1,2-Dichloroethane	BQL		10.	ug/kg	11/06/96
1,2-Dichloropropane	BQL		10.	ug/kg	11/06/96
Dibromochloromethane	BQL		10.	ug/kg	11/06/96
2-Chloroethyl vinyl ether	BQL		10.	ug/kg	11/06/96
2-Hexanone	BQL		10.	ug/kg	11/06/96
Acetone	5.2	J	10.	ug/kg	11/06/96
Acrolein	BQL		100.	ug/kg	11/06/96
Benzene	BQL		10.	ug/kg	11/06/96
Bromodichloromethane	BQL		10.	ug/kg	11/06/96
Bromomethane	BQL		10.	ug/kg	11/06/96
Bromoform	BQL		10.	ug/kg	11/06/96
cis-1,2-Dichloroethene	BQL		10.	ug/kg	11/06/96
cis-1,3-Dichloropropene	BQL		1.0	ug/kg	11/06/96
Carbon disulfide	BQL		10.	ug/kg	11/06/96
Carbon tetrachloride	BQL		10.	ug/kg	11/06/96
Chloroform	BQL		10.	ug/kg	11/06/96
Chlorobenzene	BQL		10.	ug/kg	11/06/96
Chloroethane	BQL		10.	ug/kg	11/06/96
Chloromethane	BQL		6.6	ug/kg	11/06/96
Ethylbenzene	BQL		10.	ug/kg	11/06/96
Methylene chloride	6.5	J	10.	ug/kg	11/06/96
2-Butanone (MEK)	BQL		10.	ug/kg	11/06/96

ENVIRITE CORPORATION
620 West Germantown Pike
mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: West UST Composite - 5'- Bottom of Grave
EAS Project Number: 1306-96
EAS Sample Number: 9605883
Date Sample Received: 11/01/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
4-Methyl-2-Pentanone	BQL	10.	ug/kg	11/06/96
Styrene	BQL	10.	ug/kg	11/06/96
trans-1,2-Dichloroethene	BQL	10.	ug/kg	11/06/96
trans-1,3-Dichloropropene	BQL	1.0	ug/kg	11/06/96
Tetrachloroethylene	BQL	10.	ug/kg	11/06/96
Toluene	BQL	10.	ug/kg	11/06/96
Total Xylenes	BQL	10.	ug/kg	11/06/96
Trichloroethylene	BQL	10.	ug/kg	11/06/96
Vinyl acetate	BQL	10.	ug/kg	11/06/96
Vinyl chloride	BQL	10.	ug/kg	11/06/96

I = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

2. Clean Water Act, List of Approved Test Procedures, 40 CFR.

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

ENVIRITE CORPORATION
620 West Germantown Pike
Plymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: West UST Sidewall Composite
EAS Project Number: 1306-96
EAS Sample Number: 9605885
Date Sample Received: 11/01/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Herbicide Extraction				11/03/96
Solid Pesticide/PCB Extraction				11/05/96
Cyanide - Leachable	BQL	0.10	mg/L	11/05/96
Cyanide, Total	BQL	5.0	mg/kg	11/05/96
Sulfide, Total	BQL	10.	mg/kg	11/05/96
Total Petroleum Hydrocarbons	BQL	40.	mg/kg	11/07/96
Leachable Metals Digestion - Method SW846				11/06/96
Metal's Digestion for Solid Samples - Method SW-846-3050				11/06/96
Silver, Leachate	BQL	0.035	mg/L	11/11/96
Arsenic, Leachate	BQL	0.050	mg/L	11/06/96
Barium, Leachate	BQL	1.0	mg/L	11/12/96
Beryllium, Leachate	BQL	0.0010	mg/L	11/08/96
Cadmium, Leachate	BQL	0.0050	mg/L	11/08/96
Cobalt, Leachate	BQL	0.050	mg/L	11/11/96
Chromium, Leachate	BQL	0.050	mg/L	11/08/96
Copper, Leachate	BQL	0.20	mg/L	11/08/96
Mercury, Leachate	BQL	0.0020	mg/L	11/08/96
Nickel, Leachate	BQL	0.030	mg/L	11/08/96
Lead, Leachate	BQL	0.015	mg/L	11/08/96
Antimony, Leachate	BQL	0.0050	mg/L	11/08/96
Selenium, Leachate	BQL	0.050	mg/L	11/06/96
Tin, Leachate	BQL	1.5	mg/L	11/12/96
Thallium, Leachate	BQL	0.0050	mg/L	11/08/96
Vanadium, Leachate	BQL	0.050	mg/L	11/11/96
Zinc, Leachate	BQL	1.0	mg/L	11/08/96
Silver, Total	BQL	0.70	mg/kg	11/11/96
Arsenic, Total	BQL	1.0	mg/kg	11/06/96
Barium, Total	BQL	20.	mg/kg	11/12/96
Beryllium, Total	BQL	0.40	mg/kg	11/11/96
Cadmium, Total	0.28	0.10	mg/kg	11/08/96
Cobalt, Total	4.6	1.0	mg/kg	11/11/96
Chromium, Total	19.	1.0	mg/kg	11/08/96
Copper, Total	46.	0.40	mg/kg	11/08/96
Mercury, Total	BQL	0.10	mg/kg	11/08/96
Nickel, Total	13.	0.60	mg/kg	11/08/96
Lead, Total	5.4	1.2	mg/kg	11/08/96
Antimony, Total	BQL	10.	mg/kg	11/08/96
Selenium, Total	BQL	1.0	mg/kg	11/06/96

ENVIRITE CORPORATION
620 West Germantown Pike
/mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: West UST Sidewall Composite
EAS Project Number: 1306-96
EAS Sample Number: 9605885
Date Sample Received: 11/01/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Tin, Total	BQL		30.	mg/kg	11/12/96
Thallium, Total	BQL		0.40	mg/kg	11/08/96
Vanadium, Total	BQL		20.	mg/kg	11/12/96
Zinc, Total	38.		2.0	mg/kg	11/08/96
Base/Neutral and Acidic Extractable - Method SW-846-8270					11/04/96
Semi-Volatiles List - Thomaston RFI - Method 8270					
1,4-Dichlorobenzene	BQL		330.	ug/kg	11/07/96
2,4,5-Trichlorophenol	BQL		330.	ug/kg	11/07/96
2,4,6-Trichlorophenol	BQL		60.	ug/kg	11/07/96
2,4-Dichlorophenol	BQL		330.	ug/kg	11/07/96
2,4-Dinitrotoluene	BQL		330.	ug/kg	11/07/96
2,6-Dichlorophenol	BQL		330.	ug/kg	11/07/96
2-Chlorophenol	BQL		330.	ug/kg	11/07/96
2-Methylnaphthalene	340.		330.	ug/kg	11/07/96
Acenaphthene	180.	J	330.	ug/kg	11/07/96
Anthracene	170.	J	330.	ug/kg	11/07/96
Bis (2-ethylhexyl) phthalate	33.	J	330.	ug/kg	11/07/96
Butyl benzylphthalate	BQL		330.	ug/kg	11/07/96
Total Cresol	BQL		990.	ug/kg	11/07/96
Dibenzofuran	190.	J	330.	ug/kg	11/07/96
Diethylphthalate	49.	J	330.	ug/kg	11/07/96
Di-n-octylphthalate	BQL		330.	ug/kg	11/07/96
Di-n-butylphthalate	530.		330.	ug/kg	11/07/96
Fluoranthene	630.		330.	ug/kg	11/07/96
Fluorene	210.	J	330.	ug/kg	11/07/96
Hexachlorobenzene	BQL		330.	ug/kg	11/07/96
Hexachlorobutadiene	BQL		330.	ug/kg	11/07/96
Hexachloroethane	BQL		330.	ug/kg	11/07/96
m-Cresol	BQL		330.	ug/kg	11/07/96
Naphthalene	85.	J	330.	ug/kg	11/07/96
Nitrobenzene	BQL		330.	ug/kg	11/07/96
N-Nitrosodimethylamine	BQL		100.	ug/kg	11/07/96
N-Nitrosodiphenylamine	BQL		200.	ug/kg	11/07/96
o-Cresol	BQL		330.	ug/kg	11/07/96
p-Cresol	BQL		330.	ug/kg	11/07/96
Pentachlorophenol	BQL		1000.	ug/kg	11/07/96
Phenanthrene	790.		330.	ug/kg	11/07/96
Pyrene	330.		330.	ug/kg	11/07/96
Pyridine	BQL		330.	ug/kg	11/07/96

ENVIRITE CORPORATION
620 West Germantown Pike
ymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: West UST Sidewall Composite
EAS Project Number: 1306-96
EAS Sample Number: 9605885
Date Sample Received: 11/01/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Benzo (a) pyrene	230.	J	330.	ug/kg	11/07/96
Benzo (b) fluoranthene	140.	J	330.	ug/kg	11/07/96
Benzo (k) fluoranthene	150.	J	330.	ug/kg	11/07/96
Solid Matrix Herbicides Long - Method 8150					
2,4,5-T	BQL		0.010	mg/kg	11/06/96
2,4,5-TP (Silvex)	BQL		0.010	mg/kg	11/06/96
2,4-D	BQL		0.050	mg/kg	11/06/96
2,4-DB	BQL		0.050	mg/kg	11/06/96
Dalapon	BQL		1.0	mg/kg	11/06/96
Dicamba	BQL		0.010	mg/kg	11/06/96
Dichloroprop	BQL		0.050	mg/kg	11/06/96
Dinoseb	BQL		0.010	mg/kg	11/06/96
MCPA	BQL		10.	mg/kg	11/06/96
MCPP	BQL		10.	mg/kg	11/06/96
Solid Matrix PCB's - Method 608/8080					
Aroclor 1016	BQL		0.033	mg/kg	11/07/96
Aroclor 1221	BQL		0.033	mg/kg	11/07/96
Aroclor 1232	BQL		0.033	mg/kg	11/07/96
Aroclor 1242	BQL		0.033	mg/kg	11/07/96
Aroclor 1248	BQL		0.033	mg/kg	11/07/96
Aroclor 1254	BQL		0.033	mg/kg	11/07/96
Aroclor 1260	BQL		0.033	mg/kg	11/07/96
Solid Matrix Pesticides - Method 608/8080					
4,4'-DDD	BQL		4.0	ug/kg	11/07/96
4,4'-DDE	BQL		4.0	ug/kg	11/07/96
4,4'-DDT	BQL		4.0	ug/kg	11/07/96
Aldrin	BQL		2.0	ug/kg	11/07/96
Dieldrin	BQL		1.0	ug/kg	11/07/96
Endosulfan sulfate	BQL		4.0	ug/kg	11/07/96
Endrin aldehyde	BQL		4.0	ug/kg	11/07/96
Endrin	BQL		4.0	ug/kg	11/07/96
Endrin ketone	BQL		4.0	ug/kg	11/07/96
Heptachlor	BQL		2.0	ug/kg	11/07/96
Heptachlor epoxide	BQL		2.0	ug/kg	11/07/96
Methoxychlor	BQL		20.	ug/kg	11/07/96
a-BHC	BQL		0.40	ug/kg	11/07/96
a-Chlordane	BQL		4.0	ug/kg	11/07/96

ENVIRITE CORPORATION
620 West Germantown Pike
γmouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: West UST Sidewall Composite
EAS Project Number: 1306-96
EAS Sample Number: 9605885
Date Sample Received: 11/01/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Endosulfan I	BQL		4.0	ug/kg	11/07/96
b-BHC	BQL		2.0	ug/kg	11/07/96
b-Chlordane	BQL		4.0	ug/kg	11/07/96
Endosulfan II	BQL		4.0	ug/kg	11/07/96
d-BHC	BQL		2.0	ug/kg	11/07/96
g-BHC (Lindane)	BQL		2.0	ug/kg	11/07/96
Solid Matrix Toxaphene/Chlordane - Method 608/8080					
Chlordane	BQL		30.	ug/kg	11/07/96
Toxaphene	BQL		40.	ug/kg	11/07/96
Svnthetic Rain Leaching Procedure					11/04/96
krI Volatile list - Soils - Method 8260					
1,1,1-Trichloroethane	BQL		10.	ug/kg	11/06/96
1,1,2,2-Tetrachloroethane	BQL		1.0	ug/kg	11/06/96
1,1,2-Trichloroethane	BQL		10.	ug/kg	11/06/96
1,1-Dichloroethane	BQL		10.	ug/kg	11/06/96
1,1-Dichloroethene	BQL		10.	ug/kg	11/06/96
1,2-Dichloroethane	BQL		10.	ug/kg	11/06/96
1,2-Dichloropropane	BQL		10.	ug/kg	11/06/96
Dibromochloromethane	BQL		10.	ug/kg	11/06/96
2-Chloroethyl vinyl ether	BQL		10.	ug/kg	11/06/96
2-Hexanone	BQL		10.	ug/kg	11/06/96
Acetone	1.6	J	10.	ug/kg	11/06/96
Acrolein	BQL		100.	ug/kg	11/06/96
Benzene	BQL		10.	ug/kg	11/06/96
Bromodichloromethane	BQL		10.	ug/kg	11/06/96
Bromomethane	BQL		10.	ug/kg	11/06/96
Bromoform	BQL		10.	ug/kg	11/06/96
cis-1,2-Dichloroethene	BQL		10.	ug/kg	11/06/96
cis-1,3-Dichloropropene	BQL		1.0	ug/kg	11/06/96
Carbon disulfide	BQL		10.	ug/kg	11/06/96
Carbon tetrachloride	BQL		10.	ug/kg	11/06/96
Chloroform	BQL		10.	ug/kg	11/06/96
Chlorobenzene	BQL		10.	ug/kg	11/06/96
Chloroethane	BQL		10.	ug/kg	11/06/96
Chloromethane	BQL		6.6	ug/kg	11/06/96
Ethylbenzene	BQL		10.	ug/kg	11/06/96
Methylene chloride	3.3	J	10.	ug/kg	11/06/96
2-Butanone (MEK)	BQL		10.	ug/kg	11/06/96

ENVIRITE CORPORATION
620 West Germantown Pike
'mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: West UST Sidewall Composite
EAS Project Number: 1306-96
EAS Sample Number: 9605885
Date Sample Received: 11/01/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
4-Methyl-2-Pentanone	BQL	10.	ug/kg	11/06/96
Styrene	BQL	10.	ug/kg	11/06/96
trans-1,2-Dichloroethene	BQL	10.	ug/kg	11/06/96
trans-1,3-Dichloropropene	BQL	1.0	ug/kg	11/06/96
Tetrachloroethylene	BQL	10.	ug/kg	11/06/96
Toluene	BQL	10.	ug/kg	11/06/96
Total Xylenes	BQL	10.	ug/kg	11/06/96
Trichloroethylene	BQL	10.	ug/kg	11/06/96
Vinyl acetate	BQL	10.	ug/kg	11/06/96
Vinyl chloride	BQL	10.	ug/kg	11/06/96

I = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

2. Clean Water Act, List of Approved Test Procedures, 40 CFR.

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

ENVIRITE CORPORATION
620 West Germantown Pike
mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: West UST Bottom Composite
EAS Project Number: 1306-96
EAS Sample Number: 9605884
Date Sample Received: 11/01/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Herbicide Extraction				11/03/96
Solid Pesticide/PCB Extraction				11/05/96
Cyanide - Leachable	BQL	0.10	mg/L	11/05/96
Cyanide, Total	BQL	5.0	mg/kg	11/05/96
Sulfide, Total	BQL	10.	mg/kg	11/05/96
Total Petroleum Hydrocarbons	BQL	40.	mg/kg	11/07/96
Leachable Metals Digestion - Method SW846				11/06/96
Metal's Digestion for Solid Samples - Method SW-846-3050				11/06/96
Silver, Leachate	BQL	0.035	mg/L	11/11/96
enic, Leachate	BQL	0.050	mg/L	11/06/96
Barium, Leachate	BQL	1.0	mg/L	11/12/96
Beryllium, Leachate	BQL	0.0010	mg/L	11/08/96
Cadmium, Leachate	BQL	0.0050	mg/L	11/08/96
Cobalt, Leachate	BQL	0.050	mg/L	11/11/96
Chromium, Leachate	BQL	0.050	mg/L	11/08/96
Copper, Leachate	BQL	0.20	mg/L	11/08/96
Mercury, Leachate	BQL	0.0020	mg/L	11/08/96
Nickel, Leachate	BQL	0.030	mg/L	11/08/96
Lead, Leachate	BQL	0.015	mg/L	11/08/96
Antimony, Leachate	BQL	0.0050	mg/L	11/08/96
Selenium, Leachate	BQL	0.050	mg/L	11/06/96
Tin, Leachate	BQL	1.5	mg/L	11/12/96
Thallium, Leachate	BQL	0.0050	mg/L	11/08/96
Vanadium, Leachate	BQL	0.050	mg/L	11/11/96
Zinc, Leachate	BQL	1.0	mg/L	11/08/96
Silver, Total	BQL	0.70	mg/kg	11/11/96
Arsenic, Total	BQL	1.0	mg/kg	11/06/96
Barium, Total	BQL	20.	mg/kg	11/12/96
Beryllium, Total	0.42	0.40	mg/kg	11/11/96
Cadmium, Total	0.20	0.10	mg/kg	11/08/96
Cobalt, Total	4.2	1.0	mg/kg	11/11/96
Chromium, Total	14.	1.0	mg/kg	11/08/96
Copper, Total	49.	0.40	mg/kg	11/08/96
Mercury, Total	BQL	0.10	mg/kg	11/08/96
Nickel, Total	11.	0.60	mg/kg	11/08/96
Lead, Total	3.0	1.2	mg/kg	11/08/96
Antimony, Total	BQL	10.	mg/kg	11/08/96
Selenium, Total	BQL	1.0	mg/kg	11/06/96

ENVIRITE CORPORATION
620 West Germantown Pike
ymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: West UST Bottom Composite
EAS Project Number: 1306-96
EAS Sample Number: 9605884
Date Sample Received: 11/01/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Tin, Total	BQL		30.	mg/kg	11/12/96
Thallium, Total	BQL		0.40	mg/kg	11/08/96
Vanadium, Total	BQL		20.	mg/kg	11/12/96
Zinc, Total	31.		2.0	mg/kg	11/08/96
Base/Neutral and Acidic Extractable - Method SW-846-8270					11/04/96
Semi-Volatiles List - Thomaston RFI - Method 8270					
1,4-Dichlorobenzene	BQL		330.	ug/kg	11/07/96
2,4,5-Trichlorophenol	BQL		330.	ug/kg	11/07/96
2,4,6-Trichlorophenol	BQL		60.	ug/kg	11/07/96
2,4-Dichlorophenol	BQL		330.	ug/kg	11/07/96
2,4-Dinitrotoluene	BQL		330.	ug/kg	11/07/96
2,6-Dichlorophenol	BQL		330.	ug/kg	11/07/96
2-Chlorophenol	BQL		330.	ug/kg	11/07/96
2-Methylnaphthalene	BQL		330.	ug/kg	11/07/96
Acenaphthene	BQL		330.	ug/kg	11/07/96
Anthracene	BQL		330.	ug/kg	11/07/96
Bis (2-ethylhexyl) phthalate	130.	J	330.	ug/kg	11/07/96
Butyl benzylphthalate	190.	J	330.	ug/kg	11/07/96
Total Cresol	BQL		990.	ug/kg	11/07/96
Dibenzofuran	BQL		330.	ug/kg	11/07/96
Diethylphthalate	BQL		330.	ug/kg	11/07/96
Di-n-octylphthalate	BQL		330.	ug/kg	11/07/96
Di-n-butylphthalate	3000.		330.	ug/kg	11/07/96
Fluoranthene	13.	J	330.	ug/kg	11/07/96
Fluorene	BQL		330.	ug/kg	11/07/96
Hexachlorobenzene	BQL		330.	ug/kg	11/07/96
Hexachlorobutadiene	BQL		330.	ug/kg	11/07/96
Hexachloroethane	BQL		330.	ug/kg	11/07/96
m-Cresol	BQL		330.	ug/kg	11/07/96
Naphthalene	BQL		330.	ug/kg	11/07/96
Nitrobenzene	BQL		330.	ug/kg	11/07/96
N-Nitrosodimethylamine	BQL		100.	ug/kg	11/07/96
N-Nitrosodiphenylamine	BQL		200.	ug/kg	11/07/96
o-Cresol	BQL		330.	ug/kg	11/07/96
p-Cresol	BQL		330.	ug/kg	11/07/96
Pentachlorophenol	BQL		1000.	ug/kg	11/07/96
Phenanthrene	BQL		330.	ug/kg	11/07/96
Pyrene	11.	J	330.	ug/kg	11/07/96
Pyridine	BQL		330.	ug/kg	11/07/96

ENVIRITE CORPORATION
620 West Germantown Pike
'mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: West UST Bottom Composite
EAS Project Number: 1306-96
EAS Sample Number: 9605884
Date Sample Received: 11/01/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Benzo (a) pyrene	BQL	330.	ug/kg	11/07/96
Benzo (b) fluoranthene	BQL	330.	ug/kg	11/07/96
Benzo (k) fluoranthene	BQL	330.	ug/kg	11/07/96
Solid Matrix Herbicides Long - Method 8150				
2,4,5-T	BQL	0.010	mg/kg	11/06/96
2,4,5-TP (Silvex)	BQL	0.010	mg/kg	11/06/96
2,4-D	BQL	0.050	mg/kg	11/06/96
2,4-DB	BQL	0.050	mg/kg	11/06/96
Dalapon	BQL	1.0	mg/kg	11/06/96
Dicamba	BQL	0.010	mg/kg	11/06/96
Dichloroprop	BQL	0.050	mg/kg	11/06/96
Dinoseb	BQL	0.010	mg/kg	11/06/96
MCPA	BQL	10.	mg/kg	11/06/96
MCPP	BQL	10.	mg/kg	11/06/96
Solid Matrix PCB's - Method 608/8080				
Aroclor 1016	BQL	0.033	mg/kg	11/07/96
Aroclor 1221	BQL	0.033	mg/kg	11/07/96
Aroclor 1232	BQL	0.033	mg/kg	11/07/96
Aroclor 1242	BQL	0.033	mg/kg	11/07/96
Aroclor 1248	BQL	0.033	mg/kg	11/07/96
Aroclor 1254	BQL	0.033	mg/kg	11/07/96
Aroclor 1260	BQL	0.033	mg/kg	11/07/96
Solid Matrix Pesticides - Method 608/8080				
4,4'-DDD	BQL	4.0	ug/kg	11/07/96
4,4'-DDE	BQL	4.0	ug/kg	11/07/96
4,4'-DDT	BQL	4.0	ug/kg	11/07/96
Aldrin	BQL	2.0	ug/kg	11/07/96
Dieldrin	BQL	1.0	ug/kg	11/07/96
Endosulfan sulfate	BQL	4.0	ug/kg	11/07/96
Endrin aldehyde	BQL	4.0	ug/kg	11/07/96
Endrin	BQL	4.0	ug/kg	11/07/96
Endrin ketone	BQL	4.0	ug/kg	11/07/96
Heptachlor	BQL	2.0	ug/kg	11/07/96
Heptachlor epoxide	BQL	2.0	ug/kg	11/07/96
Methoxychlor	BQL	20.	ug/kg	11/07/96
a-BHC	BQL	0.40	ug/kg	11/07/96
a-Chlordane	BQL	4.0	ug/kg	11/07/96

ENVIRITE CORPORATION
620 West Germantown Pike
' mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: West UST Bottom Composite
EAS Project Number: 1306-96
EAS Sample Number: 9605884
Date Sample Received: 11/01/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Endosulfan I	BQL		4.0	ug/kg	11/07/96
b-BHC	BQL		2.0	ug/kg	11/07/96
b-Chlordane	BQL		4.0	ug/kg	11/07/96
Endosulfan II	BQL		4.0	ug/kg	11/07/96
d-BHC	BQL		2.0	ug/kg	11/07/96
g-BHC (Lindane)	BQL		2.0	ug/kg	11/07/96
Solid Matrix Toxaphene/Chlordane - Method 608/8080					
Chlordane	BQL		30.	ug/kg	11/07/96
Toxaphene	BQL		40.	ug/kg	11/07/96
Synthetic Rain Leaching Procedure					11/04/96
Rr. Volatile list - Soils - Method 8260					
1,1,1-Trichloroethane	BQL		10.	ug/kg	11/06/96
1,1,2,2-Tetrachloroethane	BQL		1.0	ug/kg	11/06/96
1,1,2-Trichloroethane	BQL		10.	ug/kg	11/06/96
1,1-Dichloroethane	BQL		10.	ug/kg	11/06/96
1,1-Dichloroethene	BQL		10.	ug/kg	11/06/96
1,2-Dichloroethane	BQL		10.	ug/kg	11/06/96
1,2-Dichloropropane	BQL		10.	ug/kg	11/06/96
Dibromochloromethane	BQL		10.	ug/kg	11/06/96
2-Chloroethyl vinyl ether	BQL		10.	ug/kg	11/06/96
2-Hexanone	BQL		10.	ug/kg	11/06/96
Acetone	2.6	J	10.	ug/kg	11/06/96
Acrolein	BQL		100.	ug/kg	11/06/96
Benzene	BQL		10.	ug/kg	11/06/96
Bromodichloromethane	BQL		10.	ug/kg	11/06/96
Bromomethane	BQL		10.	ug/kg	11/06/96
Bromoform	BQL		10.	ug/kg	11/06/96
cis-1,2-Dichloroethene	BQL		10.	ug/kg	11/06/96
cis-1,3-Dichloropropene	BQL		1.0	ug/kg	11/06/96
Carbon disulfide	BQL		10.	ug/kg	11/06/96
Carbon tetrachloride	BQL		10.	ug/kg	11/06/96
Chloroform	BQL		10.	ug/kg	11/06/96
Chlorobenzene	BQL		10.	ug/kg	11/06/96
Chloroethane	BQL		10.	ug/kg	11/06/96
Chloromethane	BQL		6.6	ug/kg	11/06/96
Ethylbenzene	BQL		10.	ug/kg	11/06/96
Methylene chloride	6.3	J	10.	ug/kg	11/06/96
2-Butanone (MEK)	BQL		10.	ug/kg	11/06/96

ENVIRITE CORPORATION
620 West Germantown Pike
'mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: West UST Bottom Composite
EAS Project Number: 1306-96
EAS Sample Number: 9605884
Date Sample Received: 11/01/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
4-Methyl-2-Pentanone	BQL	10.	ug/kg	11/06/96
Styrene	BQL	10.	ug/kg	11/06/96
trans-1,2-Dichloroethene	BQL	10.	ug/kg	11/06/96
trans-1,3-Dichloropropene	BQL	1.0	ug/kg	11/06/96
Tetrachloroethylene	BQL	10.	ug/kg	11/06/96
Toluene	BQL	10.	ug/kg	11/06/96
Total Xylenes	BQL	10.	ug/kg	11/06/96
Trichloroethylene	BQL	10.	ug/kg	11/06/96
Vinyl acetate	BQL	10.	ug/kg	11/06/96
Vinyl chloride	BQL	10.	ug/kg	11/06/96

! = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

2. Clean Water Act, List of Approved Test Procedures, 40 CFR.

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

ENVIRITE CORPORATION
620 West Germantown Pike
ymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: West UST - Field Blank
EAS Project Number: 1306-96
EAS Sample Number: 9605898
Date Sample Received: 11/02/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Herbicide Extraction				11/03/96
Base/Neutral & Acidic Extraction				11/04/96
Aqueous Pesticide/PCB Extraction				11/04/96
Cyanide, Total	BQL	0.010	mg/L	11/04/96
Sulfide, Total	BQL	1.0	mg/L	11/05/96
Total Petroleum Hydrocarbons	BQL	0.50	mg/L	11/07/96
Metals Digestion - Aqueous Sample - Method SW-846-3000				11/06/96
Silver, Total	BQL	0.030	mg/L	11/12/96
Arsenic, Total	BQL	0.0050	mg/L	11/07/96
Barium, Total	BQL	0.50	mg/L	11/12/96
yllium, Total	BQL	0.0010	mg/L	11/11/96
Cadmium, Total	BQL	0.0050	mg/L	11/08/96
Cobalt, Total	BQL	0.050	mg/L	11/12/96
Chromium, Total	BQL	0.050	mg/L	11/08/96
Copper, Total	BQL	0.020	mg/L	11/08/96
Mercury, Total	BQL	0.0020	mg/L	11/08/96
Nickel, Total	BQL	0.030	mg/L	11/08/96
Lead, Total	BQL	0.060	mg/L	11/08/96
Antimony, Total	BQL	0.0050	mg/L	11/08/96
Selenium, Total	BQL	0.0050	mg/L	11/06/96
Tin, Total	BQL	1.0	mg/L	11/12/96
Thallium, Total	BQL	0.0050	mg/L	11/08/96
Vanadium-Total	BQL	0.050	mg/L	11/11/96
Zinc, Total	BQL	0.040	mg/L	11/08/96
Pests/PCBs List for Thomaston RFI - Method 8080				
4,4'-DDE	BQL	0.10	ug/L	11/07/96
4,4'-DDT	BQL	0.10	ug/L	11/07/96
Aldrin	BQL	0.050	ug/L	11/07/96
Chlordane	BQL	0.10	ug/L	11/07/96
Dieldrin	BQL	0.10	ug/L	11/07/96
Endrin aldehyde	BQL	0.10	ug/L	11/07/96
Heptachlor	BQL	0.050	ug/L	11/07/96
Methoxychlor	BQL	0.50	ug/L	11/07/96
Aroclor 1242	BQL	1.0	ug/L	11/07/96
Aroclor 1254	BQL	1.0	ug/L	11/07/96
Toxaphene	BQL	0.10	ug/L	11/07/96
Endosulfan I	BQL	0.050	ug/L	11/07/96
b-BHC	BQL	0.028	ug/L	11/07/96

ENVIRITE CORPORATION
620 West Germantown Pike
"ymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: West UST - Field Blank
EAS Project Number: 1306-96
EAS Sample Number: 9605898
Date Sample Received: 11/02/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Endosulfan II	BQL	0.011	ug/L	11/07/96
d-BHC	BQL	0.050	ug/L	11/07/96
g-BHC (Lindane)	BQL	0.014	ug/L	11/07/96
Herbicides - Method SW-846-8150				
2,4,5-T	BQL	1.0	ug/L	11/06/96
2,4,5-TP (Silvex)	BQL	1.0	ug/L	11/06/96
2,4-D	BQL	1.0	ug/L	11/06/96
2,4-DB	BQL	1.0	ug/L	11/06/96
Dalapon	BQL	1.0	ug/L	11/06/96
Dicamba	BQL	1.0	ug/L	11/06/96
Dichloroprop	BQL	1.0	ug/L	11/06/96
Dinoseb	BQL	1.0	ug/L	11/06/96
MCPA	BQL	1.0	ug/L	11/06/96
MCPP	BQL	1.0	ug/L	11/06/96
Semi-volatile Organic Compounds - Method SW846-8270				
1,2,4-Trichlorobenzene	BQL	10.	ug/L	11/07/96
1,2-Dichlorobenzene	BQL	10.	ug/L	11/07/96
1,2-Diphenylhydrazine	BQL	10.	ug/L	11/07/96
1,3-Dichlorobenzene	BQL	10.	ug/L	11/07/96
1,4-Dichlorobenzene	BQL	10.	ug/L	11/07/96
2,4,6-Trichlorophenol	BQL	10.	ug/L	11/07/96
2,4-Dichlorophenol	BQL	10.	ug/L	11/07/96
2,4-Dimethyphenol	BQL	10.	ug/L	11/07/96
2,4-Dinitrophenol	BQL	50.	ug/L	11/07/96
2,4-Dinitrotoluene	BQL	10.	ug/L	11/07/96
2,6-Dichlorophenol	BQL	10.	ug/L	11/07/96
2,6-Dinitrotoluene	BQL	10.	ug/L	11/07/96
2-Chloronaphthalene	BQL	10.	ug/L	11/07/96
2-Chlorophenol	BQL	10.	ug/L	11/07/96
2-Methyl-4,6-dinitrophenol	BQL	50.	ug/L	11/07/96
2-Nitrophenol	BQL	10.	ug/L	11/07/96
3,3'-Dichlorobenzidine	BQL	20.	ug/L	11/07/96
4-Bromophenyl phenyl ether	BQL	10.	ug/L	11/07/96
4-Chloro-3-methylphenol	BQL	20.	ug/L	11/07/96
4-Chlorophenyl phenyl ether	BQL	10.	ug/L	11/07/96
4-Nitrophenol	BQL	50.	ug/L	11/07/96
Hexachlorobutadiene	BQL	10.	ug/L	11/07/96
Acenapthtylene	BQL	10.	ug/L	11/07/96

ENVIRITE CORPORATION
620 West Germantown Pike
`ymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: West UST - Field Blank
EAS Project Number: 1306-96
EAS Sample Number: 9605898
Date Sample Received: 11/02/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Acenaphthene	BQL		10.	ug/L	11/07/96
Anthracene	BQL		10.	ug/L	11/07/96
Bis (2-ethylhexyl) phthalate	BQL		10.	ug/L	11/07/96
Bis (2-chloroethyl) ether	BQL		10.	ug/L	11/07/96
Bis (2-chloroethoxy) methane	BQL		10.	ug/L	11/07/96
Bis (2-chloroisopropyl) ether	BQL		10.	ug/L	11/07/96
Benzidine	BQL		50.	ug/L	11/07/96
Butyl benzylphthalate	BQL		10.	ug/L	11/07/96
Chrysene	BQL		10.	ug/L	11/07/96
Total Cresol	BQL		10.	ug/L	11/07/96
Dibenzo[a,h]anthracene	BQL		10.	ug/L	11/07/96
Diethylphthalate	BQL		10.	ug/L	11/07/96
Dimethylphthalate	BQL		10.	ug/L	11/07/96
Di-n-octylphthalate	BQL		10.	ug/L	11/07/96
Di-n-butylphthalate	1.2	J	10.	ug/L	11/07/96
Fluoranthene	BQL		10.	ug/L	11/07/96
Fluorene	BQL		10.	ug/L	11/07/96
Hexachlorobenzene	BQL		10.	ug/L	11/07/96
Hexachlorobutadiene	BQL		10.	ug/L	11/07/96
Hexachlorocyclopentadiene	BQL		10.	ug/L	11/07/96
Hexachloroethane	BQL		10.	ug/L	11/07/96
Indeno (1,2,3-cd) pyrene	BQL		10.	ug/L	11/07/96
Isophorone	BQL		10.	ug/L	11/07/96
m-Cresol	BQL		10.	ug/L	11/07/96
Naphthalene	BQL		10.	ug/L	11/07/96
Nitrobenzene	BQL		10.	ug/L	11/07/96
N-Nitrosodimethylamine	BQL		10.	ug/L	11/07/96
N-Nitrosodi-n-propylamine	BQL		10.	ug/L	11/07/96
N-Nitrosodiphenylamine	BQL		10.	ug/L	11/07/96
o-Cresol	BQL		10.	ug/L	11/07/96
p-Cresol	BQL		10.	ug/L	11/07/96
Pentachlorophenol	BQL		50.	ug/L	11/07/96
Phenanthrene	BQL		10.	ug/L	11/07/96
Phenol	BQL		10.	ug/L	11/07/96
Pyrene	BQL		10.	ug/L	11/07/96
Pyridine	BQL		10.	ug/L	11/07/96
Benzo (a) anthracene	BQL		10.	ug/L	11/07/96
Benzo (a) pyrene	BQL		10.	ug/L	11/07/96
Benzo (b) fluoranthene	BQL		10.	ug/L	11/07/96
Benzo (ghi) perylene	BQL		10.	ug/L	11/07/96

ENVIRITE CORPORATION
620 West Germantown Pike
/mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: West UST - Field Blank
EAS Project Number: 1306-96
EAS Sample Number: 9605898
Date Sample Received: 11/02/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Benzo (k) fluoranthene	BQL		10.	ug/L	11/07/96
Volatile List for Thomaston RFI - Method 8260					
1,1,1-Trichloroethane	BQL		10.	ug/L	11/06/96
1,1,2,2-Tetrachloroethane	BQL		10.	ug/L	11/06/96
1,1,2-Trichloroethane	BQL		10.	ug/L	11/06/96
1,1-Dichloroethane	BQL		10.	ug/L	11/06/96
1,1-Dichloroethene	BQL		10.	ug/L	11/06/96
1,2-Dichloroethane	BQL		10.	ug/L	11/06/96
1,2-Dichloropropane	BQL		10.	ug/L	11/06/96
Dibromochloromethane	BQL		10.	ug/L	11/06/96
2-Chloroethyl vinyl ether	BQL		10.	ug/L	11/06/96
2-Hexanone	BQL		10.	ug/L	11/06/96
Acetone	8.3	J	10.	ug/L	11/06/96
Benzene	BQL		10.	ug/L	11/06/96
Bromodichloromethane	BQL		10.	ug/L	11/06/96
Bromomethane	BQL		10.	ug/L	11/06/96
Bromoform	BQL		10.	ug/L	11/06/96
cis-1,2-Dichloroethene	BQL		10.	ug/L	11/06/96
cis-1,3-Dichloropropene	BQL		10.	ug/L	11/06/96
Carbon disulfide	BQL		10.	ug/L	11/06/96
Carbon tetrachloride	BQL		10.	ug/L	11/06/96
Chloroform	BQL		10.	ug/L	11/06/96
Chlorobenzene	BQL		10.	ug/L	11/06/96
Chloroethane	BQL		10.	ug/L	11/06/96
Chloromethane	BQL		10.	ug/L	11/06/96
Ethylbenzene	BQL		10.	ug/L	11/06/96
Methylene chloride	1.4	J	10.	ug/L	11/06/96
2-Butanone (MEK)	BQL		10.	ug/L	11/06/96
4-Methyl-2-Pentanone	BQL		10.	ug/L	11/06/96
Styrene	BQL		10.	ug/L	11/06/96
trans-1,2-Dichloroethene	BQL		10.	ug/L	11/06/96
trans-1,3-Dichloropropene	BQL		10.	ug/L	11/06/96
Tetrachloroethylene	BQL		10.	ug/L	11/06/96
Toluene	BQL		10.	ug/L	11/06/96
Total Xylenes	BQL		10.	ug/L	11/06/96
Trichloroethylene	BQL		10.	ug/L	11/06/96
Vinyl acetate	BQL		10.	ug/L	11/06/96
Vinyl chloride	BQL		10.	ug/L	11/06/96

ENVIRITE CORPORATION
620 West Germantown Pike
/mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: West UST - Field Blank
EAS Project Number: 1306-96
EAS Sample Number: 9605898
Date Sample Received: 11/02/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Aqueous Matrix PCB's - Method 608/8080				
Aroclor 1016	BQL	1.0	ug/L	11/07/96
Aroclor 1221	BQL	1.0	ug/L	11/07/96
Aroclor 1232	BQL	1.0	ug/L	11/07/96
Aroclor 1242	BQL	1.0	ug/L	11/07/96
Aroclor 1248	BQL	1.0	ug/L	11/07/96
Aroclor 1254	BQL	1.0	ug/L	11/07/96
Aroclor 1260	BQL	1.0	ug/L	11/07/96

BQL = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

2. Clean Water Act, List of Approved Test Procedures, 40 CFR.

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

APPENDIX F

ENVIRITE CORPORATION
620 West Germantown Pike
`ymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 10/31/1996
Sample Description: West UST Sludge
EAS Project Number: 1306-96
EAS Sample Number: 9605886
Date Sample Received: 11/01/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
pH	2.2			11/04/96
Leachable Metals Digestion - Method SW846				11/06/96
Silver, Leachate	0.060	0.035	mg/L	11/11/96
Arsenic, Leachate	BQL	0.050	mg/L	11/07/96
Barium, Leachate	BQL	1.0	mg/L	11/12/96
Cadmium, Leachate	0.11	0.0050	mg/L	11/08/96
Chromium, Leachate	3.6	0.050	mg/L	11/08/96
Mercury, Leachate	BQL	0.0020	mg/L	11/08/96
Lead, Leachate	46.	0.60	mg/L	11/08/96
Selenium, Leachate	BQL	0.050	mg/L	11/06/96
' P Extraction for Metals				11/04/96

BQL = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

2. Clean Water Act, List of Approved Test Procedures, 40 CFR.

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

ENVIRITE CORPORATION
620 West Germantown Pike
Plymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 07/01/1996
Sample Description: West Tank
EAS Project Number: 0745-96
EAS Sample Number: 9603408
Date Sample Received: 07/01/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Cyanide, Reactive	BQL	10.	mg/L	07/08/96
Flashpoint	> 100		°C	07/10/96
pH	1.3			07/03/96
Sulfide, Reactive	BQL	10.	mg/L	07/12/96
Leachable Metals Digestion - Method SW846				07/12/96
Silver, Leachate	1.1	0.30	mg/L	07/12/96
Arsenic, Leachate	0.63	0.20	mg/L	07/12/96
Barium, Leachate	BQL	5.0	mg/L	07/12/96
Cadmium, Leachate	13.	1.0	mg/L	07/12/96
Chromium, Leachate	920.	40.	mg/L	07/12/96
Mercury, Leachate	0.26	0.050	mg/L	07/12/96
Lead, Leachate	39.	0.60	mg/L	07/12/96
Selenium, Leachate	BQL	0.50	mg/L	07/12/96
Aqueous TCLP Herbicide Extraction - Method SW-846-8150				07/08/96
TCLP for Herbicides - Method SW-846-8000				
2,4,5-TP (Silvex)	BQL	10.	ug/L	07/15/96
2,4-D	BQL	10.	ug/L	07/15/96
Aqueous TCLP Pesticide Extraction - Method 608/8080				07/01/96
TCLP for Pesticides - Method SW-846-8000				
Chlordane	BQL	25.	ug/L	07/18/96
Endrin	BQL	4.0	ug/L	07/18/96
Heptachlor	BQL	4.0	ug/L	07/18/96
Heptachlor epoxide	BQL	4.0	ug/L	07/18/96
Methoxychlor	BQL	4.0	ug/L	07/18/96
Toxaphene	BQL	50.	ug/L	07/18/96
g-BHC (Lindane)	BQL	4.0	ug/L	07/18/96
Aqueous TCLP BNA Extraction - Method SW-846				07/01/96
TCLP Leachate for Semi-VOC's - Method SW-846-8000				
1,4-Dichlorobenzene	BQL	20.	ug/L	07/08/96
2,4,5-Trichlorophenol	BQL	20.	ug/L	07/08/96
2,4,6-Trichlorophenol	BQL	20.	ug/L	07/08/96
2,4-Dinitrotoluene	BQL	20.	ug/L	07/08/96
Total Cresol	BQL	60.	ug/L	07/08/96
Hexachlorobenzene	BQL	20.	ug/L	07/08/96
Hexachlorobutadiene	BQL	20.	ug/L	07/08/96
Hexachloroethane	BQL	20.	ug/L	07/08/96

THOMASTON ENTERPRISES, INC.
Old Waterbury Road
Thomaston, CT 06787-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 01/03/1997
Sample Description: Soil in Rolloff from West UST
EAS Project Number: 0014-97
EAS Sample Number: 9700039
Date Sample Received: 01/03/1997

Parameter	Data	Quantitation Limit	Units	Analysis Date
Solid Matrix - Method 8260				
1,1,1-Trichloroethane	BQL	25.	ug/kg	01/07/97
1,1,2,2-Tetrachloroethane	BQL	25.	ug/kg	01/07/97
1,1,2-Trichloroethane	BQL	25.	ug/kg	01/07/97
1,1-Dichloroethane	BQL	25.	ug/kg	01/07/97
1,1-Dichloroethene	BQL	25.	ug/kg	01/07/97
1,2-Dichloroethane	BQL	25.	ug/kg	01/07/97
1,2-Dichloropropane	BQL	25.	ug/kg	01/07/97
Dibromochloromethane	BQL	25.	ug/kg	01/07/97
2-Chloroethyl vinyl ether	BQL	25.	ug/kg	01/07/97
Trichlorofluoromethane	BQL	25.	ug/kg	01/07/97
Acrolein	BQL	130.	ug/kg	01/07/97
Acrylonitrile	BQL	130.	ug/kg	01/07/97
Benzene	BQL	25.	ug/kg	01/07/97
Bromodichloromethane	BQL	25.	ug/kg	01/07/97
Bromomethane	BQL	25.	ug/kg	01/07/97
Bromoform	BQL	25.	ug/kg	01/07/97
cis-1,3-Dichloropropene	BQL	25.	ug/kg	01/07/97
Carbon tetrachloride	BQL	25.	ug/kg	01/07/97
Chloroform	BQL	25.	ug/kg	01/07/97
Chlorobenzene	BQL	25.	ug/kg	01/07/97
Chloroethane	BQL	25.	ug/kg	01/07/97
Chloromethane	BQL	25.	ug/kg	01/07/97
Ethylbenzene	BQL	25.	ug/kg	01/07/97
Methylene chloride	BQL	25.	ug/kg	01/07/97
2-Butanone (MEK)	BQL	25.	ug/kg	01/07/97
trans-1,2-Dichloroethene	BQL	25.	ug/kg	01/07/97
trans-1,3-Dichloropropene	BQL	25.	ug/kg	01/07/97
Tetrachloroethylene	BQL	25.	ug/kg	01/07/97
Toluene	BQL	25.	ug/kg	01/07/97
Trichloroethylene	38.	25.	ug/kg	01/07/97
Vinyl chloride	160.	25.	ug/kg	01/07/97
Xylene, Total	28.	25.	ug/kg	01/07/97
TCLP Extraction for Volatiles				01/10/97
TCLP for Volatile Organic Compounds - Method SW-846-1311				01/10/97
TCLP Leachate for VOC's - Method SW-846-8000				
1,1-Dichloroethene	BQL	20.	ug/L	01/10/97
1,2-Dichloroethane	BQL	20.	ug/L	01/10/97
Benzene	BQL	20.	ug/L	01/10/97

THOMASTON ENTERPRISES, INC.
Old Waterbury Road
Thomaston, CT 06787-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 01/03/1997
Sample Description: Soil in Rolloff from West UST
EAS Project Number: 0014-97
EAS Sample Number: 9700039
Date Sample Received: 01/03/1997

Parameter	Data		Quantitation Limit	Units	Analysis Date
Carbon tetrachloride	BQL		20.	ug/L	01/10/97
Chloroform	BQL		20.	ug/L	01/10/97
Chlorobenzene	BQL		20.	ug/L	01/10/97
2-Butanone (MEK)	BQL		20.	ug/L	01/10/97
Tetrachloroethylene	18.	J	20.	ug/L	01/10/97
Trichloroethylene	5.9	J	20.	ug/L	01/10/97
Vinyl chloride	BQL		20.	ug/L	01/10/97

BQL = Below Quantitation Limit

* Certification *

nnecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

2. Clean Water Act, List of Approved Test Procedures, 40 CFR.

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

ENVIRITE CORPORATION
620 West Germantown Pike
Plymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/12/1996
Sample Description: East UST Contents
EAS Project Number: 1306-96
EAS Sample Number: 9606146
Date Sample Received: 11/13/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Solid Matrix - Method 8260					
1,1,1-Trichloroethane	BQL		25.	ug/kg	11/15/96
1,1,2,2-Tetrachloroethane	BQL		25.	ug/kg	11/15/96
1,1,2-Trichloroethane	BQL		25.	ug/kg	11/15/96
1,1-Dichloroethane	BQL		25.	ug/kg	11/15/96
1,1-Dichloroethene	BQL		25.	ug/kg	11/15/96
1,2-Dichloroethane	BQL		25.	ug/kg	11/15/96
1,2-Dichloropropane	BQL		25.	ug/kg	11/15/96
Dibromochloromethane	BQL		25.	ug/kg	11/15/96
2-Chloroethyl vinyl ether	BQL		25.	ug/kg	11/15/96
Trichlorofluoromethane	BQL		25.	ug/kg	11/15/96
Acrolein	BQL		130.	ug/kg	11/15/96
Acrylonitrile	BQL		130.	ug/kg	11/15/96
Benzene	BQL		25.	ug/kg	11/15/96
Bromodichloromethane	BQL		25.	ug/kg	11/15/96
Bromomethane	BQL		25.	ug/kg	11/15/96
Bromoform	BQL		25.	ug/kg	11/15/96
cis-1,3-Dichloropropene	BQL		25.	ug/kg	11/15/96
Carbon tetrachloride	BQL		25.	ug/kg	11/15/96
Chloroform	BQL		25.	ug/kg	11/15/96
Chlorobenzene	BQL		25.	ug/kg	11/15/96
Chloroethane	BQL		25.	ug/kg	11/15/96
Chloromethane	BQL		25.	ug/kg	11/15/96
Ethylbenzene	BQL		25.	ug/kg	11/15/96
Methylene chloride	BQL		25.	ug/kg	11/15/96
2-Butanone (MEK)	BQL		25.	ug/kg	11/15/96
trans-1,2-Dichloroethene	BQL		25.	ug/kg	11/15/96
trans-1,3-Dichloropropene	BQL		25.	ug/kg	11/15/96
Tetrachloroethylene	2100.	E	25.	ug/kg	11/15/96
Toluene	BQL		25.	ug/kg	11/15/96
Trichloroethylene	93.		25.	ug/kg	11/15/96
Vinyl chloride	BQL		25.	ug/kg	11/15/96
Xylene, Total	BQL		25.	ug/kg	11/15/96
TCLP Extraction for Volatiles					11/15/96
TCLP for Volatile Organic Compounds - Method SW-846-1311					11/15/96
TCLP Leachate for VOC's - Method SW-846-8000					
1,1-Dichloroethene	BQL		0.020	mg/L	11/15/96
1,2-Dichloroethane	BQL		0.020	mg/L	11/15/96
Benzene	BQL		0.020	mg/L	11/15/96

ENVIRITE CORPORATION
620 West Germantown Pike
Plymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/12/1996
Sample Description: East UST Contents
EAS Project Number: 1306-96
EAS Sample Number: 9606146
Date Sample Received: 11/13/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Carbon tetrachloride	BQL	0.020	mg/L	11/15/96
Chloroform	BQL	0.020	mg/L	11/15/96
Chlorobenzene	BQL	0.020	mg/L	11/15/96
2-Butanone (MEK)	BQL	0.020	mg/L	11/15/96
Tetrachloroethylene	0.90	0.020	mg/L	11/15/96
Trichloroethylene	BQL	0.020	mg/L	11/15/96
Vinyl chloride	BQL	0.020	mg/L	11/15/96

* Comments *

VOA TIC's 1,3-Dichlorobenzene app 630 ug/kg
1,2-Dichlorobenzene app 1000 ug/kg
1,4-Dichlorobenzene 170 ug/kg.

BQL = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

2. Clean Water Act, List of Approved Test Procedures, 40 CFR.

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

ENVIRITE CORPORATION
620 West Germantown Pike
ymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST Rolloff Composite
EAS Project Number: 1306-96
EAS Sample Number: 9605894
Date Sample Received: 11/02/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
pH	5.5			11/04/96
Leachable Metals Digestion - Method SW846				11/06/96
Silver, Leachate	BQL	0.035	mg/L	11/11/96
Arsenic, Leachate	BQL	0.050	mg/L	11/07/96
Barium, Leachate	BQL	1.0	mg/L	11/12/96
Cadmium, Leachate	0.12	0.0050	mg/L	11/08/96
Chromium, Leachate	BQL	0.050	mg/L	11/08/96
Mercury, Leachate	BQL	0.0020	mg/L	11/08/96
Lead, Leachate	0.22	0.060	mg/L	11/08/96
Selenium, Leachate	BQL	0.050	mg/L	11/06/96
.P Extraction for Metals				11/04/96

BQL = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

2. Clean Water Act, List of Approved Test Procedures, 40 CFR.

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

ENVIRITE CORPORATION
0 West Germantown Pike
Plymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: East UST Rolloff Composite
EAS Project Number: 1306-96
EAS Sample Number: 9605894
Date Sample Received: 11/02/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date

BQL = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

2. Clean Water Act, List of Approved Test Procedures, 40 CFR.

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

ENVIRITE CORPORATION
620 West Germantown Pike
Plymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/12/1996
Sample Description: East Overdig Bottom - North
EAS Project Number: 1306-96
EAS Sample Number: 9606147
Date Sample Received: 11/13/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Cyanide, Total	BQL		5.0	mg/kg	11/15/96
Total Petroleum Hydrocarbons	BQL		60.	mg/kg	11/19/96
RFI Volatile list - Soils - Method 8260					
1,1,1-Trichloroethane	BQL		10.	ug/kg	11/15/96
1,1,2,2-Tetrachloroethane	BQL		10.	ug/kg	11/15/96
1,1,2-Trichloroethane	BQL		10.	ug/kg	11/15/96
1,1-Dichloroethane	BQL		10.	ug/kg	11/15/96
1,1-Dichloroethene	BQL		10.	ug/kg	11/15/96
1,2-Dichloroethane	BQL		10.	ug/kg	11/15/96
1,2-Dichloropropane	BQL		10.	ug/kg	11/15/96
Dibromochloromethane	BQL		10.	ug/kg	11/15/96
2-Chloroethyl vinyl ether	BQL		10.	ug/kg	11/15/96
2-Hexanone	BQL		10.	ug/kg	11/15/96
Acetone	100.		10.	ug/kg	11/15/96
Acrolein	BQL		100.	ug/kg	11/15/96
Benzene	BQL		10.	ug/kg	11/15/96
Bromodichloromethane	BQL		10.	ug/kg	11/15/96
Bromomethane	1.2	J	10.	ug/kg	11/15/96
Bromoform	BQL		10.	ug/kg	11/15/96
cis-1,2-Dichloroethene	1.0	J	10.	ug/kg	11/15/96
cis-1,3-Dichloropropene	BQL		1.0	ug/kg	11/15/96
Carbon disulfide	BQL		10.	ug/kg	11/15/96
Carbon tetrachloride	BQL		10.	ug/kg	11/15/96
Chloroform	BQL		10.	ug/kg	11/15/96
Chlorobenzene	BQL		10.	ug/kg	11/15/96
Chloroethane	BQL		10.	ug/kg	11/15/96
Chloromethane	BQL		6.6	ug/kg	11/15/96
Ethylbenzene	BQL		10.	ug/kg	11/15/96
Methylene chloride	14.		10.	ug/kg	11/15/96
2-Butanone (MEK)	21.		10.	ug/kg	11/15/96
4-Methyl-2-Pentanone	BQL		10.	ug/kg	11/15/96
Styrene	BQL		10.	ug/kg	11/15/96
trans-1,2-Dichloroethene	BQL		10.	ug/kg	11/15/96
trans-1,3-Dichloropropene	BQL		1.0	ug/kg	11/15/96
Tetrachloroethylene	1.2	J	10.	ug/kg	11/15/96
Toluene	BQL		10.	ug/kg	11/15/96
Total Xylenes	BQL		10.	ug/kg	11/15/96
Trichloroethylene	BQL		10.	ug/kg	11/15/96
Vinyl acetate	BQL		10.	ug/kg	11/15/96

ENVIRITE CORPORATION
620 West Germantown Pike
Plymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/12/1996
Sample Description: East Overdig Bottom - North
EAS Project Number: 1306-96
EAS Sample Number: 9606147
Date Sample Received: 11/13/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Vinyl chloride	BQL	10.	ug/kg	11/15/96

BQL = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

2. Clean Water Act, List of Approved Test Procedures, 40 CFR.

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

ENVIRITE CORPORATION
620 West Germantown Pike
Plymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/12/1996
Sample Description: East Overdig Bottom - South
EAS Project Number: 1306-96
EAS Sample Number: 9606148
Date Sample Received: 11/13/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Cyanide, Total	BQL		5.0	mg/kg	11/15/96
Total Petroleum Hydrocarbons	BQL		60.	mg/kg	11/19/96
RFI Volatile list - Soils - Method 8260					
1,1,1-Trichloroethane	BQL		10.	ug/kg	11/15/96
1,1,2,2-Tetrachloroethane	BQL		10.	ug/kg	11/15/96
1,1,2-Trichloroethane	BQL		10.	ug/kg	11/15/96
1,1-Dichloroethane	BQL		10.	ug/kg	11/15/96
1,1-Dichloroethene	BQL		10.	ug/kg	11/15/96
1,2-Dichloroethane	BQL		10.	ug/kg	11/15/96
1,2-Dichloropropane	BQL		10.	ug/kg	11/15/96
Dibromochloromethane	BQL		10.	ug/kg	11/15/96
2-Chloroethyl vinyl ether	BQL		10.	ug/kg	11/15/96
2-Hexanone	BQL		10.	ug/kg	11/15/96
Acetone	100.		10.	ug/kg	11/15/96
Acrolein	BQL		100.	ug/kg	11/15/96
Benzene	BQL		10.	ug/kg	11/15/96
Bromodichloromethane	BQL		10.	ug/kg	11/15/96
Bromomethane	1.8	J	10.	ug/kg	11/15/96
Bromoform	BQL		10.	ug/kg	11/15/96
cis-1,2-Dichloroethene	BQL		10.	ug/kg	11/15/96
cis-1,3-Dichloropropene	BQL		1.0	ug/kg	11/15/96
Carbon disulfide	BQL		10.	ug/kg	11/15/96
Carbon tetrachloride	BQL		10.	ug/kg	11/15/96
Chloroform	1.4	J	10.	ug/kg	11/15/96
Chlorobenzene	BQL		10.	ug/kg	11/15/96
Chloroethane	BQL		10.	ug/kg	11/15/96
Chloromethane	BQL		6.6	ug/kg	11/15/96
Ethylbenzene	BQL		10.	ug/kg	11/15/96
Methylene chloride	8.7	J	10.	ug/kg	11/15/96
2-Butanone (MEK)	18.		10.	ug/kg	11/15/96
4-Methyl-2-Pentanone	BQL		10.	ug/kg	11/15/96
Styrene	BQL		10.	ug/kg	11/15/96
trans-1,2-Dichloroethene	BQL		10.	ug/kg	11/15/96
trans-1,3-Dichloropropene	BQL		1.0	ug/kg	11/15/96
Tetrachloroethylene	1.5	J	10.	ug/kg	11/15/96
Toluene	BQL		10.	ug/kg	11/15/96
Total Xylenes	BQL		10.	ug/kg	11/15/96
Trichloroethylene	BQL		10.	ug/kg	11/15/96
Vinyl acetate	BQL		10.	ug/kg	11/15/96

ENVIRITE CORPORATION
620 West Germantown Pike
Plymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/12/1996
Sample Description: East Overdig Bottom - South
EAS Project Number: 1306-96
EAS Sample Number: 9606148
Date Sample Received: 11/13/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Vinyl chloride	BQL	10.	ug/kg	11/15/96

BQL = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

2. Clean Water Act, List of Approved Test Procedures, 40 CFR.

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

ENVIRITE CORPORATION
620 West Germantown Pike
Plymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/12/1996
Sample Description: East Level 2 Pile Composite
EAS Project Number: 1306-96
EAS Sample Number: 9606149
Date Sample Received: 11/13/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Cyanide, Total	BQL		5.0	mg/kg	11/15/96
Total Petroleum Hydrocarbons	BQL		40.	mg/kg	11/19/96
RFI Volatile list - Soils - Method 8260					
1,1,1-Trichloroethane	BQL		10.	ug/kg	11/15/96
1,1,2,2-Tetrachloroethane	BQL		10.	ug/kg	11/15/96
1,1,2-Trichloroethane	BQL		10.	ug/kg	11/15/96
1,1-Dichloroethane	BQL		10.	ug/kg	11/15/96
1,1-Dichloroethene	BQL		10.	ug/kg	11/15/96
1,2-Dichloroethane	BQL		10.	ug/kg	11/15/96
1,2-Dichloropropane	BQL		10.	ug/kg	11/15/96
Dibromochloromethane	BQL		10.	ug/kg	11/15/96
2-Chloroethyl vinyl ether	BQL		10.	ug/kg	11/15/96
2-Hexanone	BQL		10.	ug/kg	11/15/96
Acetone	8.1	J	10.	ug/kg	11/15/96
Acrolein	BQL		100.	ug/kg	11/15/96
Benzene	BQL		10.	ug/kg	11/15/96
Bromodichloromethane	BQL		10.	ug/kg	11/15/96
Bromomethane	3.1	J	10.	ug/kg	11/15/96
Bromoform	BQL		10.	ug/kg	11/15/96
cis-1,2-Dichloroethene	BQL		10.	ug/kg	11/15/96
cis-1,3-Dichloropropene	BQL		1.0	ug/kg	11/15/96
Carbon disulfide	BQL		10.	ug/kg	11/15/96
Carbon tetrachloride	BQL		10.	ug/kg	11/15/96
Chloroform	1.5	J	10.	ug/kg	11/15/96
Chlorobenzene	BQL		10.	ug/kg	11/15/96
Chloroethane	BQL		10.	ug/kg	11/15/96
Chloromethane	1.4	J	6.6	ug/kg	11/15/96
Ethylbenzene	BQL		10.	ug/kg	11/15/96
Methylene chloride	8.9	J	10.	ug/kg	11/15/96
2-Butanone (MEK)	BQL		10.	ug/kg	11/15/96
4-Methyl-2-Pentanone	BQL		10.	ug/kg	11/15/96
Styrene	BQL		10.	ug/kg	11/15/96
trans-1,2-Dichloroethene	BQL		10.	ug/kg	11/15/96
trans-1,3-Dichloropropene	BQL		1.0	ug/kg	11/15/96
Tetrachloroethylene	BQL		10.	ug/kg	11/15/96
Toluene	BQL		10.	ug/kg	11/15/96
Total Xylenes	BQL		10.	ug/kg	11/15/96
Trichloroethylene	BQL		10.	ug/kg	11/15/96
Vinyl acetate	BQL		10.	ug/kg	11/15/96

ENVIRITE CORPORATION
620 West Germantown Pike
Plymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/12/1996
Sample Description: East Level 2 Pile Composite
EAS Project Number: 1306-96
EAS Sample Number: 9606149
Date Sample Received: 11/13/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Vinyl chloride	BQL	10.	ug/kg	11/15/96

BQL = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

2. Clean Water Act, List of Approved Test Procedures, 40 CFR.

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

APPENDIX G

ENVIRITE CORPORATION
620 West Germantown Pike
F' 'mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: PE Sample
EAS Project Number: 1306-96
EAS Sample Number: 9605900
Date Sample Received: 11/02/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Solid Pesticide/PCB Extraction				11/05/96
Cyanide, Total	170.	10.	mg/kg	11/05/96
Metal's Digestion for Solid Samples - Method SW-846-3050				11/06/96
Silver, Total	16.	3.5	mg/kg	11/11/96
Arsenic, Total	200.	10.	mg/kg	11/06/96
Barium, Total	490.	50.	mg/kg	11/12/96
Beryllium, Total	110.	2.0	mg/kg	11/11/96
Cadmium, Total	120.	5.0	mg/kg	11/08/96
Cobalt, Total	84.	5.0	mg/kg	11/11/96
Chromium, Total	99.	5.0	mg/kg	11/08/96
C ɔer, Total	140.	2.0	mg/kg	11/08/96
Mercury, Total	2.7	0.20	mg/kg	11/08/96
Nickel, Total	76.	3.0	mg/kg	11/08/96
Lead, Total	87.	6.0	mg/kg	11/08/96
Antimony, Total	BQL	50.	mg/kg	11/08/96
Selenium, Total	98.	20.	mg/kg	11/06/96
Tin, Total	BQL	30.	mg/kg	11/12/96
Thallium, Total	95.	10.	mg/kg	11/08/96
Vanadium, Total	BQL	20.	mg/kg	11/12/96
Zinc, Total	280.	10.	mg/kg	11/08/96
Base/Neutral and Acidic Extractable - Method SW-846-8270				11/04/96
Semi-Volatiles List - Thomaston RFI - Method 8270				
2,4,5-Trichlorophenol	3600.	330.	ug/kg	11/07/96
2,4,6-Trichlorophenol	3500.	330.	ug/kg	11/07/96
2,4-Dichlorophenol	BQL	330.	ug/kg	11/07/96
2,6-Dichlorophenol	BQL	330.	ug/kg	11/07/96
2-Chlorophenol	BQL	330.	ug/kg	11/07/96
2-Methylnaphthalene	BQL	330.	ug/kg	11/07/96
Acenaphthene	2500.	330.	ug/kg	11/07/96
Anthracene	5100.	330.	ug/kg	11/07/96
Bis (2-ethylhexyl) phthalate	BQL	330.	ug/kg	11/07/96
Butyl benzylphthalate	3100.	330.	ug/kg	11/07/96
Dibenzofuran	1900.	330.	ug/kg	11/07/96
Diethylphthalate	BQL	330.	ug/kg	11/07/96
Di-n-octylphthalate	BQL	330.	ug/kg	11/07/96
Di-n-butylphthalate	700.	330.	ug/kg	11/07/96
Fluoranthene	3700.	330.	ug/kg	11/07/96
Fluorene	BQL	330.	ug/kg	11/07/96

ENVIRITE CORPORATION
620 West Germantown Pike
ymouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: PE Sample
EAS Project Number: 1306-96
EAS Sample Number: 9605900
Date Sample Received: 11/02/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Naphthalene	1700.	330.	ug/kg	11/07/96
N-Nitrosodimethylamine	BQL	330.	ug/kg	11/07/96
N-Nitrosodiphenylamine	BQL	330.	ug/kg	11/07/96
Phenanthrene	1700.	330.	ug/kg	11/07/96
Pyrene	7200.	330.	ug/kg	11/07/96
Benzo (a) pyrene	BQL	330.	ug/kg	11/07/96
Benzo (b) fluoranthene	3900.	330.	ug/kg	11/07/96
Benzo (k) fluoranthene	BQL	330.	ug/kg	11/07/96
Solid Matrix PCB's - Method 608/8080				
Aroclor 1016	BQL	0.033	mg/kg	11/08/96
Aroclor 1221	BQL	0.033	mg/kg	11/08/96
Aroclor 1232	BQL	0.033	mg/kg	11/08/96
Aroclor 1242	BQL	0.033	mg/kg	11/08/96
Aroclor 1248	BQL	0.033	mg/kg	11/08/96
Aroclor 1254	BQL	0.033	mg/kg	11/08/96
Aroclor 1260	BQL	0.033	mg/kg	11/08/96
Solid Matrix Pesticides - Method 608/8080				
4,4'-DDD	230.	4.0	ug/kg	11/08/96
4,4'-DDE	140.	4.0	ug/kg	11/08/96
4,4'-DDT	170.	4.0	ug/kg	11/08/96
Aldrin	270.	2.0	ug/kg	11/08/96
Dieldrin	140.	1.0	ug/kg	11/08/96
Endosulfan sulfate	BQL	4.0	ug/kg	11/08/96
Endrin aldehyde	BQL	4.0	ug/kg	11/08/96
Endrin	210.	4.0	ug/kg	11/08/96
Endrin ketone	BQL	4.0	ug/kg	11/08/96
Heptachlor	260.	2.0	ug/kg	11/08/96
Heptachlor epoxide	110.	2.0	ug/kg	11/08/96
Methoxychlor	BQL	20.	ug/kg	11/08/96
a-BHC	130.	0.40	ug/kg	11/08/96
a-Chlordane	140.	4.0	ug/kg	11/08/96
Endosulfan I	BQL	4.0	ug/kg	11/08/96
b-BHC	140.	2.0	ug/kg	11/08/96
b-Chlordane	120.	4.0	ug/kg	11/08/96
Endosulfan II	BQL	4.0	ug/kg	11/08/96
d-BHC	BQL	2.0	ug/kg	11/08/96
g-BHC (Lindane)	190.	2.0	ug/kg	11/08/96

ENVIRITE CORPORATION
620 West Germantown Pike
'mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: PE Sample
EAS Project Number: 1306-96
EAS Sample Number: 9605900
Date Sample Received: 11/02/1996

Parameter	Data		Quantitation Limit	Units	Analysis Date
Solid Matrix Toxaphene/Chlordane - Method 608/8080					
Chlordane	BQL		30.	ug/kg	11/08/96
Toxaphene	BQL		40.	ug/kg	11/08/96
RFI Volatile list - Soils - Method 8260					
1,1,1-Trichloroethane	49.		10.	ug/kg	11/06/96
1,1,2,2-Tetrachloroethane	BQL		10.	ug/kg	11/06/96
1,1,2-Trichloroethane	BQL		10.	ug/kg	11/06/96
1,1-Dichloroethane	BQL		10.	ug/kg	11/06/96
1,1-Dichloroethene	BQL		10.	ug/kg	11/06/96
1,2-Dichloroethane	BQL		10.	ug/kg	11/06/96
1,2-Dichloropropane	BQL		10.	ug/kg	11/06/96
Dibromochloromethane	89.		10.	ug/kg	11/06/96
2-Chloroethyl vinyl ether	BQL		10.	ug/kg	11/06/96
2-Hexanone	BQL		10.	ug/kg	11/06/96
Acetone	4.3	J	10.	ug/kg	11/06/96
Acrolein	BQL		100.	ug/kg	11/06/96
Benzene	BQL		10.	ug/kg	11/06/96
Bromodichloromethane	84.		10.	ug/kg	11/06/96
Bromomethane	BQL		10.	ug/kg	11/06/96
Bromoform	98.		10.	ug/kg	11/06/96
cis-1,2-Dichloroethene	BQL		10.	ug/kg	11/06/96
cis-1,3-Dichloropropene	BQL		1.0	ug/kg	11/06/96
Carbon disulfide	BQL		10.	ug/kg	11/06/96
Carbon tetrachloride	68.		10.	ug/kg	11/06/96
Chloroform	68.		10.	ug/kg	11/06/96
Chlorobenzene	30.		10.	ug/kg	11/06/96
Chloroethane	BQL		10.	ug/kg	11/06/96
Chloromethane	BQL		6.6	ug/kg	11/06/96
Ethylbenzene	29.		10.	ug/kg	11/06/96
Methylene chloride	74.		10.	ug/kg	11/06/96
2-Butanone (MEK)	BQL		10.	ug/kg	11/06/96
4-Methyl-2-Pentanone	16.		10.	ug/kg	11/06/96
Styrene	BQL		10.	ug/kg	11/06/96
trans-1,2-Dichloroethene	BQL		10.	ug/kg	11/06/96
trans-1,3-Dichloropropene	BQL		1.0	ug/kg	11/06/96
Tetrachloroethylene	65.		10.	ug/kg	11/06/96
Toluene	37.		10.	ug/kg	11/06/96
Total Xylenes	140.		10.	ug/kg	11/06/96
Trichloroethylene	52.		10.	ug/kg	11/06/96

ENVIRITE CORPORATION
620 West Germantown Pike
'mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: PE Sample
EAS Project Number: 1306-96
EAS Sample Number: 9605900
Date Sample Received: 11/02/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date
Vinyl acetate	BQL	10.	ug/kg	11/06/96
Vinyl chloride	BQL	10.	ug/kg	11/06/96

* Comments *

VOA TIC's
1,3-Dichlorobenzene 49 ug/kg.
1,4-Dichlorobenzene 52 ug/kg.
1,2-Dichlorobenzene 70 ug/kg.
Unknown 110 ug/kg.

BNA TIC's
Phenol 2800 ug/kg
1,2-Dichlorobenzene 3000 ug/kg
2-Methylphenol 2700 ug/kg
4-Methylphenol 3200 ug/kg
1,2,4-Trichlorobenzene 4500 ug/kg
2,4-Dinitrotoluene 5000 ug/kg
4-Chlorophenylphenylether 4300
Pentachlorophenol 4900 ug/kg
Benzo(a)anthracene 4500 ug/kg
Chrysene 4700 ug/kg

ENVIRITE CORPORATION
620 West Germantown Pike
mouth Meeting, PA 19462-

Location Collected: 198 Old Waterbury Rd. Thomaston, CT
Date Sample Collected: 11/01/1996
Sample Description: PE Sample
EAS Project Number: 1306-96
EAS Sample Number: 9605900
Date Sample Received: 11/02/1996

Parameter	Data	Quantitation Limit	Units	Analysis Date

BQL = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

New York Certified Laboratory Number: 10916

Massachusetts Certified Laboratory Number: CT 020

The above analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

2. Clean Water Act, List of Approved Test Procedures, 40 CFR.

3. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987.

ENVIRONMENTAL
RESOURCE ASSOCIATES
ARVADA, COLORADO 1-800-372-0122

Analytical Verification Summary

PriorityPollutnT™/CLP Inorganic Soils — Quality Control Standards

Catalog Nº PPS-46 Lot Nº 231

Parameter	Made-to Value	Mean Recovery	Mean Recovery	Percent RSD	n
TRACE METALS PriorityPollutnT™ (Catalog No 540)	mg/Kg	mg/Kg	%	%	
aluminum	7040	6990	99.3%	20.3%	23
antimony	121	35.0	28.9%	45.4%	23
arsenic	199	164	82.2%	14.6%	30
barium	512	439	85.8%	12.4%	30
beryllium	110	97.8	88.9%	10.8%	26
boron	91.3	82.5	90.3%	15.8%	15
cadmium	125	112	89.9%	13.5%	31
calcium	2780	2620	94.2%	10.5%	22
chromium	109	96.2	88.3%	11.8%	30
cobalt	95.5	83.6	87.5%	9.18%	25
copper	157	140	88.9%	8.58%	30
iron	13600	17000	125%	29.6%	25
lead	109	96.1	88.2%	12.8%	30
magnesium	2020	1750	86.6%	14.6%	23
manganese	335	314	93.8%	9.75%	24
mercury	4.59	2.60	56.5%	27.1%	24
molybdenum	104	84.7	81.5%	9.80%	22
nickel	80.7	72.0	89.2%	12.7%	30
potassium	2280	2170	95.2%	21.8%	24
selenium	80.8	68.9	85.3%	11.6%	28
silver	95.6	82.5	86.2%	10.9%	27
sodium	272	288	106%	15.3%	17
strontium	151	133	87.8%	9.73%	13
thallium	101	86.0	85.2%	13.6%	24
tin	104	86.3	83.0%	15.8%	17
titanium	414	350	84.5%	24.4%	12
vanadium	108	96.7	89.5%	17.5%	24
zinc	319	276	86.6%	12.1%	31
CYANIDE PriorityPollutnT™ (Catalog No 541)	mg/Kg	mg/Kg	%	%	
total cyanide	250	203	81.0%	26.8%	10

The ***Made-to Values*** are equal to the actual amounts of each parameter spiked onto the soil plus the measured background concentrations of each parameter. The background concentrations for metals were determined by digesting the sample using EPA method 3050, SW-846 and analysis by ICP and AA spectroscopy. The background concentration for total cyanide was determined by EPA method 9010, SW-846.

The ***Mean Recoveries*** and ***Percent Relative Standard Deviation (RSD)*** data were obtained in an interlaboratory round robin study using the same samples you are analyzing.

PriorityPollutnT™/CLP Inorganic Soils Lot No. 231

ENVIRONMENTAL
RESOURCE ASSOCIATES
ARVADA, COLORADO 1-800-372-0122

Analytical Verification Summary

PriorityPollutnT™/CLP Organic Soils — Quality Control Standards

Catalog Nº PPS - 45 Lot Nº 342

Parameter	Certified Value	Mean Recovery	Mean Recovery (%)	n
SEMIVOLATILES				
BASE/NEUTRALS	µg/Kg	µg/Kg		
(Catalog No. 720)				
Acenaphthene	4370	2920	66.8%	22
Anthracene	10200	5380	52.7%	22
Benzo(a)anthracene	4500	3140	69.8%	21
Benzo(b)fluoranthene	6270	3720	59.3%	22
Butylbenzylphthalate	3810	2880	75.6%	19
4-Chlorophenyl-phenylether	7470	6170	82.6%	20
Chrysene	6490	5040	77.7%	23
Dibenzofuran	3160	2120	67.1%	19
1,2-Dichlorobenzene	9600	2550	26.6%	22
2,4-Dinitrotoluene	6610	4110	62.2%	20
bis(2-Ethylhexyl)phthalate	5950	4750	79.8%	20
Fluoranthene	4890	3310	67.7%	21
Naphthalene	3240	1780	54.9%	22
Phenanthrene	2090	1530	73.2%	19
Pyrene	13000	7850	60.4%	21
1,2,4-Trichlorobenzene	8660	3740	43.2%	20
ACIDS	µg/Kg	µg/Kg		
(Catalog No. 720)				
2-Methylphenol	7010	3490	49.8%	22
4-Methylphenol	8780	4400	50.1%	22
Pentachlorophenol	12400	7040	56.8%	20
Phenol	5110	3390	66.3%	21
2,4,5-Trichlorophenol	9030	5310	58.8%	20
2,4,6-Trichlorophenol	7380	4560	61.8%	20
PESTICIDES	µg/Kg	µg/Kg		
(Catalog No. 720)				
Aldrin	397	296	74.6%	15
alpha-BHC	199	143	72.0%	13
beta-BHC	289	188	65.0%	13
gamma-BHC(Lindane)	395	268	68.0%	14
alpha-Chlordane	198	151	76.3%	10
gamma-Chlordane	246	200	81.3%	10
4,4'-DDD	380	279	73.4%	15
4,4'-DDE	247	209	84.5%	15
4,4'-DDT	344	241	69.9%	15
Dieldrin	127	96.7	76.2%	15
Endrin	198	156	78.7%	15
Heptachlor	395	292	73.8%	14
Heptachlor epoxide	205	142	69.2%	15

continued on back

PriorityPollutnT™/CLP Organic Soils Lot No. 342

ENVIRONMENTAL
RESOURCE ASSOCIATES
ARVADA, COLORADO 1-800-372-0122

Analytical Verification Summary

PriorityPollutnT™/CLP Organic Soils — Quality Control Standards

Catalog Nº PPS - 45 Lot Nº 342

Parameter	Certified Value	Mean Recovery	Mean Recovery (%)	n
VOLATILES	µg/Kg	µg/Kg		
(Catalog No. 721)				
Benzene	34.4	34.4	100%	25
Bromodichloromethane	72.5	72.9	101%	25
Bromoform	88.0	91.3	104%	24
Carbon tetrachloride	57.8	57.0	98.6%	25
Chlorobenzene	31.0	31.7	102%	24
Chlorodibromomethane	84.0	88.0	105%	25
Chloroform	62.5	61.3	98.1%	25
1,2-Dichlorobenzene	72.0	73.7	102%	25
1,3-Dichlorobenzene	52.6	53.5	102%	25
1,4-Dichlorobenzene	55.5	56.7	102%	25
1,2-Dichloroethane	104	105	101%	25
Ethylbenzene	31.4	33.0	105%	25
Methylene chloride	76.5	72.1	94.2%	25
4-Methyl-2-pentanone (MIBK)	16.8	16.7	99.6%	14
Tetrachloroethylene	67.4	66.7	98.9%	25
Toluene	35.8	34.8	97.2%	24
1,1,1-Trichloroethane	42.7	42.9	100%	24
Trichloroethylene	57.9	55.2	95.4%	25
o-Xylene	63.1	see 2.		
p-Xylene	87.2	see 2.		
Xylenes, total	150	153	102%	25

(1) The Interlaboratory Analytical Data Summary illustrates typical recoveries obtained by laboratories using EPA methodologies

(2) Xylenes analyzed as Total Xylenes in study.

APPENDIX H

O&G INDUSTRIES, INC.

115 WALDRON, Post BOX 907
TORRINGTON, CT 06790-0907
(860) 489-9261

FOR QUESTIONS CALL 1-800-[illegible]-8727

Branford	Railroad Ave. Ext.	488-[illegible]
Bridgeport	240 Seaswick Ave.	[illegible]
Danbury	2 Segar Street	798-5894
Hamden	Bogue Road	288-[illegible]
New Milford	271 Danbury Road	354-4438
Prospect	Spring Road	758-5381
Southbury	238 Roxbury Road	263-2195
Stamford	668 Canal Street	324-9341
Woodbury	Park Road	263-2708

595454

11-07-1995

DATE

O&G INDUSTRIES, INC. (O&G) WARRANTS that the goods conform to the descriptions and specifications as contained herein. THIS WARRANTY IS EXPRESSLY MADE IN LIEU OF ANY AND ALL WARRANTIES EXPRESSED OR IMPLIED INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS. The exclusive remedy of the Buyer in the event that the goods do not conform shall be replacement of said goods within a reasonable time upon written notice to O&G.

[illegible] per cubic yard, payable stamps of one and one-half percent (1.5%) per month and be added on all accounts over 30 days. (ANNUAL PERCENTAGE RATE OF EIGHTEEN PERCENT (18%).

The Buyer agrees to pay all costs and expenses which may be incurred by O&G in collecting any account due and payable by the Buyer to O&G, including attorney's fees and sheriff and court costs whether or not an action is brought on such account. The Buyer agrees to assume responsibility for any and all damages resulting from the delivery of the above material on the premises which has been made at my own request.

THE BUYER HEREBY EXPRESSLY WAIVES ANY AND ALL RIGHTS HE/SHE/IT MAY HAVE TO A NOTICE AND HEARING UNDER CONNECTICUT GENERAL STATUTE SECTIONS 52-278 AND ANY OTHER STATUTORY OR CONSTITUTIONAL RIGHT HE/SHE/IT MAY HAVE TO NOTICE AND HEARING PRIOR TO THE USE OF ATTACHMENT, GARNISHMENT, OR OTHER [illegible] PROCEDURES BY O&G INDUSTRIES, INC. OR ITS ATTORNEYS IN THE COLLECTION OF ACCOUNTS OF THE BUYER.

THE UNDERSIGNED [illegible] TO O&G THAT (A) HE IS DULY AUTHORIZED BY BUYER TO SIGN THIS CERTIFICATION ON BEHALF OF THE BUYER, (B) THAT THE BUYER AGREES TO AND ACCEPTS THE TERMS AND CONDITIONS OF SALE LISTED ABOVE INCLUDING THE FINANCE CHARGE, (C) THE SPECIFIED MATERIALS HAVE BEEN RECEIVED IN GOOD CONDITION AND (D) I AGREE AND UNDERSTAND I WILL BE PERSONALLY RESPONSIBLE TO O&G FOR THE SPECIFIED MATERIALS AND COSTS IF I HAVE MISREPRESENTED MY AUTHORITY.

X [illegible] PRINTED NAME (BUYER)

CUSTOMER ID	JOB NO	P.O. NUMBER	STATUS	PLANT LOCATION	TICKET NO
AROH	1793		R	SB TURN.-HARW., BOGUE	595454

SOLD TO:	JOB LOCATION:
AARON ENVIRONMENTAL WATERBURY CT 06706	WATERBURY RD WATERBURY

TRUCK NO	TYPE	FOB		TAX TOWN	MILES ONE WAY
[illegible]	13-00	FOB [ ]	DELIVERED [XXX]	151	

PRODUCT CODE	PRODUCT DESCRIPTION	UNITS	SALE TYPE	ACCUM TOTAL	TIME OUT
9023	R.R.B. GRAVEL	TONS	[illegible]	0.00	7:45A

CASH SALES ONLY

GROSS LBS	73120 A	UNIT PRICE	
TARE LBS	27340 B	UNIT HAUL PRICE	
NET LBS	45780 LBS 20762 KGS	TONS	22.89 TONS 20.81 MTONS

AMOUNT FOB	1793	1793 → 532.49
DISCOUNT		
HAULING CHARGE		
SUBTOTAL		
SALES TAX	4050	
TOTAL SALE		

TIME LEFT PLANT

TIME ARRIVE JOB

TIME LEFT JOB

TIME RETURNED PLANT

CUSTOMER COPY

O&G INDUSTRIES, INC.
11[illegible] WEST [illegible] P.O. BOX [illegible]
TORRINGTON, CT 06790-0907
(860) [illegible]

Bethlehem	[illegible]	[illegible]
Burlington	[illegible]	[illegible]
Danbury	[illegible]	[illegible]
Harwinton	[illegible]	[illegible]
New Milford	27[illegible]	354-4436
Prospect	Spring [illegible]	758-9381
Southbury	238 Roxbury Road	263-2135
Stamford	686 Bedford Street	324-9641
Woodbury	Park Road	263-2708

595922

11-21-1996

DATE

1793

O&G INDUSTRIES, INC. O&G warrants that the goods sold hereunder to the descriptions and specifications as contained herein. THIS WARRANTY IS EXPRESSLY MADE IN LIEU OF ANY AND ALL WARRANTIES EXPRESSED OR IMPLIED INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS. The exclusive remedy of the Buyer in the event that the goods do not conform shall be replacement of said goods within a reasonable time upon written notice to O&G.

Terms: [illegible] of one and one-half percent (1.5%) per month will be added on all accounts over 30 days. (ANNUAL PERCENTAGE RATE OF EIGHTEEN PERCENT 18%).

The Buyer agrees to pay any and expenses which may be incurred by O&G in collecting any account due and payable by the Buyer to O&G, including attorney's fees and all costs and court costs whether or not an action is brought on such account. The Buyer agrees to assume responsibility for any and all damages resulting from the delivery of the above material on the above job which has been made at my (our) request.

THE BUYER HEREBY KNOWINGLY WAIVES ANY AND ALL RIGHTS HE/SHE/IT MAY HAVE TO A NOTICE AND HEARING UNDER CONNECTICUT GENERAL STATUTE SECTIONS 52-278f AND ANY OTHER STATUTORY OR CONSTITUTIONAL RIGHT HE/SHE/IT MAY HAVE TO NOTICE AND HEARING PRIOR TO THE USE OF ATTACHMENT, GARNISHMENT OR OTHER PREJUDGMENT REMEDY PROCEDURES BY O&G INDUSTRIES, INC. OR ITS ATTORNEYS IN THE COLLECTION OF ACCOUNTS OF THE BUYER.

THE UNDERSIGNED HEREBY CERTIFIES TO O&G THAT (A) HE IS DULY AUTHORIZED BY BUYER TO SIGN THIS CERTIFICATION ON BEHALF OF THE BUYER, (B) THAT THE BUYER AGREES TO AND ADOPTS THE TERMS AND CONDITIONS OF SALE LISTED ABOVE (INCLUDING THE FINANCE CHARGE), (C) THE SPECIFIED MATERIALS HAVE BEEN RECEIVED IN GOOD CONDITION AND (D) I AGREE AND UNDERSTAND I WILL BE PERSONALLY RESPONSIBLE TO O&G FOR THE SPECIFIED MATERIALS AND COSTS IF I HAVE MISREPRESENTED MY AUTHORITY.

X [illegible] 11/21

SIGNED DATE PRINTED NAME BUYER

[illegible]	P.O. NUMBER 1793	TAX STATUS R	PLANT LOCATION SG TORR.-HARW., BOGUE	TICKET NO. 595922

SOLD TO: HARDN ENVIRONMENTAL WATERBURY CT 06706

JOB LOCATION: OLD ENVIRITE SITE 198 OLD WATERBURY RD THOMASTON

TRUCK NO. 031[illegible]	TYPE 13 DG	FOB [ ] DELIVERED [XX]	TAX TOWN 140		MILES ONE WAY
PRODUCT CODE 9023	PRODUCT DESCRIPTION R.C.B. GRAVEL	UNITS TON	SALE TYPE S	ACCUM TOTAL 0.00	TIME OUT 7:55A

CASH SALES ONLY

GROSS LBS. 75950 A	UNIT PRICE	AMOUNT FOB	TIME LEFT PLANT 8:08
TARE LBS. 29750 S	UNIT HAUL PRICE	DISCOUNT	TIME ARRIVE JOB
NET LBS. 46200		HAULING CHARGE	TIME LEFT JOB
20952 KGS	TONS 23.10 TONS 21.00 MTONS	SUBTOTAL	TIME RETURNED PLANT
		SALES TAX	
		TOTAL SALE	

CUSTOMER COPY

MAY-27-1997 10:22 AARON ENVIRONMENTAL 203 755 0512 P.04/04

FOR DELIVERIES CALL 1-800-992-9727

O&G INDUSTRIES, INC.

112 WHITING ST. P.O. BOX 907
TORRINGTON, CT 06790-0907
(860) 482-5661

Beacon Falls	Naugatuck Ave. Ext.	729-4529
Bridgeport	240 Seaside Ave.	368-0363
Burlville	Whitney Road	485-9188
Danbury	9 Sagar Street	748-5894
Harwinton	Bogue Road	485-9188
New Milford	271 Danbury Road	354-4438
Prospect	Spring Road	758-5381
Southbury	236 Roxbury Road	263-2195
Stamford	986 Canal Street	324-9541
Woodbury	Park Road	263-2708

595931

11-21-1996

DATE

1793

O&G INDUSTRIES, INC. (O&G) warrants that the goods conform to the descriptions and specifications as contained herein. THIS WARRANTY IS EXPRESSLY MADE IN LIEU OF ANY AND ALL WARRANTIES EXPRESSED OR IMPLIED INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS. The exclusive remedy of the Buyer in the event the goods do not perform shall be replacement of said goods within a reasonable time upon written notice to O&G.

Terms: 30 days net. A finance charge of one and one-half percent (1.5%) per month will be added on all accounts over 30 days. (ANNUAL PERCENTAGE RATE OF EIGHTEEN PERCENT (18%).

The Buyer agrees to pay all costs and expenses which may be incurred by O&G in collecting any account due and payable by the Buyer to O&G, including attorney's fees and a sheriff and court fee, whether or not an action is brought on such account. The Buyer agrees to assume responsibility for any and all damages resulting from the delivery of the above material on the basis made which has been made at my (our) request.

THE BUYER HEREBY EXPRESSLY WAIVES ANY AND ALL RIGHTS HE/SHE/IT MAY HAVE TO A NOTICE AND HEARING UNDER CONNECTICUT GENERAL STATUTE SECTION 52-278f AND ANY OTHER STATUTORY OR CONSTITUTIONAL RIGHT HE/SHE/IT MAY HAVE TO NOTICE AND HEARING PRIOR TO THE USE OF ATTACHMENT, GARNISHMENT, OR OTHER PREJUDGMENT REMEDY PROCEDURES BY O&G INDUSTRIES, INC., OR ITS ATTORNEYS IN THE COLLECTION OF ACCOUNTS OF THE BUYER.

THE UNDERSIGNED HEREBY CERTIFIES TO O&G THAT (A) HE IS DULY AUTHORIZED BY BUYER TO SIGN THIS CERTIFICATION ON BEHALF OF THE BUYER, (B) THAT THE BUYER AGREES TO AND ACCEPTS THE TERMS AND CONDITIONS OF SALE LISTED ABOVE (INCLUDING THE FINANCE CHARGE), (C) THE SPECIFIED MATERIALS HAVE BEEN RECEIVED IN GOOD CONDITION AND (D) I AGREE AND UNDERSTAND I WILL BE PERSONALLY RESPONSIBLE TO O&G FOR THE SPECIFIED MATERIALS AND COSTS IF I HAVE MISREPRESENTED MY AUTHORITY.

X [redacted] Rick Vicka (AARON)
PRINTED NAME (BUYER)

CUSTOMER NO.	PO NO.	P.O. NUMBER	TAX STATUS	PLANT LOCATION	TICKET NO.
AARON		1793	R	30 TORR.-HARW., BOGUE	595931

SOLD TO:
AARON ENVIRONMENTAL
WATERBURY CT 06708

JOB LOCATION:
OLD ENVIRITE SITE
198 OLD WATERBURY RD
THOMASTON

TRUCK NO.	TYPE			TAX TOWN	MILES ONE WAY
0313895	13 OG	FOB [ ]	DELIVERED [XXX]	140	

PRODUCT CODE	PRODUCT DESCRIPTION	UNITS	SALE TYPE	ACCUM TOTAL	TIME OUT
9023	R.O.B. GRAVEL	TON	S	0.00	9:14A

CASH SALES ONLY

GROSS LBS. 57880 A	UNIT PRICE	AMOUNT FOB	TIME LEFT PLANT 9:20
TARE LBS. 29760 S	UNIT HAUL PRICE	DISCOUNT	TIME ARRIVE 9:43
NET LBS. 37820 LBS	TONS 18.91 TONS	HAULING CHARGE	TIME LEFT JOB
17152 KGS	17.19 MTONS	SUBTOTAL	
		SALES TAX	TIME RETURNED PLANT
		TOTAL SALE	

CUSTOMER COPY