## A Summary of the

## **Closure and Remedial Activities**

## **Performed for**

## Industrial Environmental Systems, Inc.

Prepared by

Northeast Solite Corporation (Mount Marion, NY)

and

ARG Environmental (Latham, NY)

June, 1999

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#### 1.0 FACILITY BACKGROUND

The Industrial Environmental Systems, Inc. (IES) facility (EPA I.D. No. NYD000707885) stored and blended industrial waste solvents used as a fuel at the adjacent Northeast Solite Corporation (NES) rotary kilns. The IES facility located in Mt. Marion, New York began operations in 1976 and ceased to operate in 1983. The land and structures owned by NES and IES are contiguous. However, the operation that received, blended, and stored the fuel was owned by IES as a separate corporate entity. A location map is presented in Figure 1 and a site drawing of the IES facility is shown in Figure 2.

The IES site utilized nine (9) storage tanks to blend, isolate, and transfer hazardous waste derived fuel to the NES rotary kilns. Solvents received at the facility were tested and then off-loaded from tank trailers into one of two receiving tanks. The receiving tanks were used to blend the solvent and segregate solid materials to minimize clogging of the piping and pumping system. Periodically, the receiving tanks were cleaned out and solid material was drummed. The drums were temporarily retained on site in accordance with Resource Conservation and Recovery Act (RCRA) then transported off site for disposal at an approved disposal facility.

The New York State Department of Environmental Conservation (NYSDEC) determined that the facility's operation required a permit, and in 1981 IES agreed to sign an Order on Consent. It is beyond the scope of this document to site the numerous correspondence, reports and meetings between IES and NYSDEC regarding the activities at the IES facility associated with the Order on Consent and the events that followed. However, a summary of the events is presented herein.

In accordance with the agreements between IES and the NYSDEC, a waste analysis plan was developed. Shipments of incoming fuels were tested for thermal value and certain chemical constituents. IES only transferred blended solvents meeting the agreed limitations to NES for use as fuel. All material transferred to NES was accomplished utilizing an underground piping system. The use of the material as fuel in the high temperature NES kilns ensured adequate destruction of the waste transferred to the facility.

The waste analysis plan included testing waste solvent shipments for polychlorinated biphenyls (PCB). IES would send a composite sample of ten fuel shipments to an off-site testing laboratory for PCB analysis. In November 1982, IES unknowingly received a shipment of PCB contaminated waste. Appropriate composite samples were obtained and sent for analysis in accordance with the waste analysis plan. IES received a report from the testing laboratory that the composite sample contained PCBs. The facility then submitted a sample of each individual shipment that was contained in the composite sample for analysis to isolate the source of the PCB contamination. However, during this period in November 1982, the solvent-oil fuel contaminated with PCBs was already burned. Once the source was identified, IES reported the findings to NYSDEC. In response, the NYSDEC issued a summary abatement order and commenced enforcement and permit revocation proceedings against IES. A Commissioner's Order dated May 18, 1983, modified by an order dated June 9, 1983, was issued.

In accordance with the Commissioner's orders and before IES could resume operation, IES was required to remove all PCB-contaminated materials from the fuel storage tanks. As an additional requirement, IES submitted and the NYSDEC approved an acceptable protocol to screen incoming fuel shipments for the presence of PCBs. The NYSDEC did not commence review and

approval of the protocol until all PCB-contaminated materials had been fully removed from the site. By late 1983, IES had removed all PCB-contaminated material. Therefore, NES and IES abandoned permitting of the waste solvent fuel program. All nine storage tanks were cleaned and left empty and eventually closed under the RCRA program.

During the installation of groundwater monitoring wells in compliance with the Order on Consent, soil and groundwater contamination was found at the site. Consequently, under the oversight and direction of NYSDEC personnel, additional work scope was developed to investigate and remediate the contamination. Independent, third party documentation and investigation reports submitted to the NYSDEC detailed and interpreted a large volume of chemical analytical data developed from the environmental monitoring program at the IES facility. A reference list of these reports (on file with the NYSDEC) by title and submission date is shown in Table 1. Monitoring results reveal low-level, multi-component contamination.

#### 2.0 GEOLOGIC CONDITIONS OF THE NES AND IES FACILITIES

The IES site is located completely within the NES facility. Therefore, the geological conditions of the IES facility include a description of relevant portions of the NES site. The general area of the fuel storage tanks, associated piping, NES kilns and product handling areas is situated among Devonian age rocks that form a bedrock ridge which trends approximately north 20° east. In the area north of IES/NES, the sequence of bedrock units exposed from oldest to youngest is Esopus Siltstone, Schoharie Limestone and the Onondaga Limestone. Probable thickness of these rock units in the Saugerties area is 150 feet, 100 feet and 120 feet, respectively. Attachment I shows the geological sections traversing the site. Section A-A' runs south to north across the western portion of the NES site. Section B-B' runs east to west across the NES site just north of the IES facility.

In the immediate area of the IES site, only the Schoharie and Esopus formations are exposed. The Onondaga formation was encountered in one well (BR-2 located within the NES property) below 200 feet of glaciolacustrine silts and clays which are present underlying the broad flat valley area in the western portion of the NES site (product storage area). These soils terminate against the west flanks of the Schoharie Limestone ridge at an elevation of approximately 190 feet. However, a very thin veneer of lacustrine soil occurs at slightly higher elevation between and atop the bedrock ridges in the eastern portion of the NES site (beneath and east of the IES facility). Test boring logs and well boring logs are presented as Attachment II.

#### 2.1 Western Area Geology (NES Product Storage Area)

The off-site "western area" is bounded on the east by the N20°E trending ridge on which the kilns are located; the western boundary is the former New York Central railroad tracks; the southern boundary is the property line; and the northern boundary is the site access road. The area is primarily used as a processing and storage area for the lightweight aggregate produced in the kilns.

#### 2.1.1 Unconsolidated Deposits

The uppermost "soil" consists of fill material generally about five to seven feet thick. This fill is comprised of clean medium to fine gravel and shale chips. Some cobbles and boulders were encountered during drilling which were interpreted to be pieces of limestone shot rock.

Glaciolacustrine deposits underlie the fill material over this portion of the site. These soils were deposited in Glacial Lake Albany during the last glacial age and consist primarily of varved silt and clay of medium plasticity with frequent seams of silt and clayey silt. Occasional, ice rafted pieces of fine gravel were noted in the samples collected.

The thickness of the glaciolacustrine unit is variable. The depth of bedrock determined in one well (BR-2) which fully penetrated the glaciolacustrine unit is 216 feet. Another well (DFT-3) located on the western portion of the site just north of the access road, was terminated at a depth of 100 feet and did not encounter bedrock. It is anticipated that bedrock is at least that deep as you approach the western edge of the property boundary, and that the 216-foot depth to bedrock is not anomalous. As you proceed to the east toward the central ridge and the kilns, the glaciolacustrine deposit thins. Other wells (BR-3 and BR-4) located near the bottom of this ridge encountered 4.5 and 3.0 feet, respectively, of glaciolacustrine soils. The surface of the glaciolacustrine unit dips gently to the west.

Glacial till has not been identified underlying the lacustrine deposits in this area, but it is likely that a thin veneer of glacial lodgement does exist.

#### 2.1.2 Bedrock

The western portion of this area is underlain by the Onondaga Formation of the Middle Devonian age. The Onondaga is a medium-light gray, medium to coarse-grained limestone. The Onondaga can be observed in outcrop about 2000 feet north of the kilns. In this area, the observed structure consists of two synclines and an anticline.

#### 2.2 Eastern Area Geology (includes the IES Site)

The eastern area is defined as the portion of the site to the east of the western area discussed in the previous section, which include the IES facility and a portion of the NES site. This area includes the tank farm, the kilns, the primary raw material crusher and conveyor system to the kilns, and is bounded to the south and southeast by the higher topography that separates this area from the quarry.

#### 2.2.1 Unconsolidated Deposits

Surface deposits in this area consist primarily of fill material. This fill ranges from large boulder-size slabs of shot rock from blasting of the central ridge south

and west of the tank farm area, to a silty sand and gravel material. The fill in the western portion of this area from the tank farm extending north-northeast toward the kilns lies directly above the bedrock surface.

To the east in the swale (i.e., under the NES primary crusher) and the lower flanks of the swale, the fill is underlain by glaciolacustrine deposits consisting of clayey silt and silt. These strata have been observed in test pits and excavations in this area and are generally thin, ranging from 0 to 5 feet thick. Topographic analysis of the U.S.G.S. 15 minute Saugerties Quadrangle indicates that the maximum elevation of Glacial Lake Albany is in the order of 195 feet MSL near the general plant area.

Consequently, it would be expected that glaciolacustrine deposits would not be found at an elevation higher than this. Local variations, however, may occur in areas where clay was deposited in shallow water protected environments behind naturally occurring bedrock dams.

Glacial till exists underlying the glaciolacustrine soils in some areas of the site. Glacial till was encountered during the drilling of wells DFT-I and UFT-1. At these locations, the glacial till consists of sand, clayey silt and medium fine gravel in almost equal proportions.

#### 2.2.2 Bedrock

The underlying bedrock consists of sedimentary formations of Devonian Age. The younger formation, the Schoharie Limestone, is observed in outcrops just south of the tank farm area. The Schoharie forms this low ridge which extends underneath the kilns and outcrops again just to the north of the kilns. The excavation conducted to expose and collect the seepage is in this formation.

The Schoharie is gray argillaceous limestone that strikes N20°E and dips to the west at about 35°. Cleavage discontinuities strike approximately parallel to bedding and dip to the east at about 25° to 30°.

The Schoharie Formation is underlain by the Esopus Formation, a 250-300 foot thick gritty siltstone, also of Devonian Age. The Esopus outcrops on the hill east of the tank farm and forms a series of ridges further to the east and northeast. The Esopus is used as a raw material for the lightweight aggregate operation and is exposed in the quarry as well as many nearby outcrops. While the exact location of the Esopus/Schoharie contact is not known, it most likely runs through the swale to the east of the tank farm area, and trends at approximately N20°E.

#### 3.0 GROUND WATER HYDROLOGY OF THE NES AND IES FACILITIES

Monitoring wells were installed in two separate water bearing zones. Shallow monitoring wells were installed in the granular fill overlying the lacustrine deposits. Deeper bedrock wells also were installed. The lacustrine clay aquitard between these zones varies in thickness from about 3 feet encountered at well BR-4 to over 200 feet at well BR-2.

#### 3.1 Western Area Hydrology (NES Product Storage Area)

The ground water in the fill is very limited. The thickness of the water bearing unit is generally less than two feet, and in several areas water levels in the shallow wells are below the fill/lacustrine contact indicating that the fill is essentially dry in that area. It is likely that the groundwater is present only seasonally or following precipitation in portions of the western area.

Recharge to this area is principally from infiltration of precipitation and runoff into the coarse fill. Other sources of recharge include water used in dust control during processing of the lightweight aggregate and some potential infiltration of water through the bedrock ridge of Schoharie that forms the eastern boundary of this zone.

Three rounds of ground water measurements were taken in February 1984 and groundwater elevations in the shallow wells were plotted to show the contours of the water table in Figure 3. As illustrated, ground water movement is principally to the west and northwest, depending on the amount of recharge to this shallow water-bearing zone.

Ground water movement in the vertical direction is not considered significant in this area where an appreciable thickness of clay separates the granular fill from the bedrock. The extreme contrast (on the order 10<sup>5</sup>) in permeability between the clay and the granular fill will promote ground water movement laterally rather than vertically. Some vertical ground water flow may occur from the fill into the bedrock in areas near the IES facility where the clay is absent.

#### 3.2 Eastern Area Hydrology (includes the IES Site)

The infiltration of precipitation into the granular fill results in a water bearing zone that exists mostly as a perched condition above a relatively impervious layer of either lacustrine soil or bedrock. In the area that extends from the vertical tanks to the kilns, the granular fill lies directly above the buried bedrock ridge, and water that infiltrated through the fill collected in bedrock depressions or troughs. During the excavation of test pits 1 and 5, water was observed in bedrock troughs. Upon pumping the water from these depressions, the flow from the bedrock seepage face was reduced significantly. This indicates that movement of water does occur from the fill material into the upper fractured and jointed bedrock. The local direction of ground water movement in this area depends on the orientation of the bedrock surface and bedrock discontinuities such as joints, fractures and bedding planes. Seepage from the bedrock face is from vertical fractures and inclined bedding plane that intercept water moving at or near the bedrock/fill interface.

Water also occurs in the granular fill that overlies the lacustrine deposits on the eastern flank of the buried bedrock ridge. Water in the fill in this area also occurs as a result of the infiltration of precipitation, and, based on monitoring of Well DFT-2, appears to be seasonal and generally only exists after significant precipitation events. The direction of water movement in this area is toward the east along the slope of the lacustrine deposits.

Water has also been encountered within granular fill in the swale to the east of the tank farm where DFT-1 is located. Recharge to this area occurs from infiltration of precipitation. In addition, recharge may occur in the area from infiltration of surface water, at least seasonally, from a small spring on the Esopus Siltstone slope southeast of Well DFT-1. In the swale, surface water moves northward along surface drainage features recharging the granular fill. The ground water movement in this area is most likely to the north following the bedrock topography.

#### 4.0 Site Investigation

The Order on Consent required the installation of a single groundwater monitoring well at the IES facility. A copy of the Order on Consent is presented in Attachment III. During the installation of the monitoring wells, a contaminated area was found. Discovery of the contamination lead to an extensive investigation of the site. A summary of the work performed is described below.

#### 4.1 Monitoring Well Installation and Water Quality Analysis

Prior to installing the monitoring well required in the order, Dunn Geoscience Corporation (DGC) drilled numerous test borings holes throughout the site. A determination of the geological and hydrological conditions of the fuel storage area was performed utilizing the borings to evaluate conditions of the site and to assist in selecting the location of the well.

Site geology revealed a bedrock outcrop to the east of the tank storage area. To the north of the area, the bedrock is encountered at a depth of one foot. The groundwater flow is primarily to the west as shown in Figure 3. Also, groundwater elevation measurements taken at two observation wells and the water elevation of a [former] pond adjacent to the south portion of the site indicated that groundwater flows away from the [former] pond area.

A tentative agreement between NYSDEC and IES added the installation of an additional monitoring well at the facility. Later two additional wells were proposed in a subsequent meeting. In August 1983, DGC installed three of the four proposed monitoring wells. It was determined by NYSDEC that the fourth well was too far upgradient to be of value. A replacement for the fourth well would be a bedrock well north of the tank farm.

Since the discovery of the contamination, additional monitoring wells were installed in the vicinity of the IES facility. The purpose of the additional wells was to delineate any possible plume and determine the extent of the contamination. No plume was ever detected and results of groundwater monitoring indicated that only minor contamination existed outside the immediate area of the tank farm. During the monitoring period, some wells were eliminated from the sampling protocol and other additional wells were installed and monitored. The resulting accumulated data provides an extensive groundwater investigation of the site. Several reports furnished by Dunn Geoscience Corporation, listed in Table 1, provide greater details of the analytical results. The well boring logs are presented as Attachment II.

#### 4.1.1 Inorganic Analytical Results

Monitoring results for inorganic analytical testing indicated that a few parameters such as chloride, sulfate, iron, manganese and selenium had initial elevated levels with respect to ground water standards. However, all have declined, been inconsistent, or are insignificant; therefore, no significant inorganic contamination exists at the site. This was agreed to by NYSDEC's Bureau of Hazardous Site Control in August 1984 and inorganic monitoring was deleted from the protocol.

#### 4.1.2 Volatile Organic Compound Analytical Results

The major source of contamination at the IES site was organic compounds. Commonly detected compounds included ketones, various chlorinated aliphatics and volatile aromatics. A summary of the analytical results is presented in Attachment IV.

Of the wells monitored, DFT-2 was the most contaminated when there was sufficient water in the well for sampling. Therefore, the results of some sampling rounds for well DFT-2 are absent due to dry well conditions.

The single, isolated detection of 5,500 ug/l tetrahydrofuran in well UFT-1 (September 1983) is an anomaly arising from solvent welding of the PVC during well installation. This well was replaced by a new upgradient well (UFT-1A) and tetrahydrofuran was not detected in subsequent tests.

During the monitoring period samples from neighboring drinking water wells were sampled by the County Health Department and analyzed for volatile organic compounds. The results of those analyses are presented in Attachment V. No analytes related to the IES were detected.

#### 4.1.3 Hydrocarbon Scans

Except for a few compounds having set NYSDEC maximum contamination limits (MCLs), most of the organic priority pollutants were not covered by specific groundwater standards. The general definition of contamination used by the New York State Department of Health (NYSDOH) was a MCL of 50 ug/l for any individual compound and/or a MCL of 100 ug/l for the total organic concentration. Results of total hydrocarbon scans from monitoring at the facility are summarized in Table 2. Results of these scans proved inconsistent due to the variable nature of the problem and the variability of different analytical methods

and internal standards attempted. These scans were eventually replaced by more specific methods or dropped where inappropriate.

#### 4.2 Bedrock Seep

During installation of the wells, seepage was observed from a then recently exposed bedrock face north of the tank farm in an area adjacent to and just south of the point where clinker drops from the NES kilns. This area was previously covered and became visible after the area was excavated. The seepage was oily, had a sheen, a strong odor, and flow was small. Samples of the seep were submitted for analysis of volatile organic compounds (EPA Method 624). Chlorinated solvents and other volatile organic compounds were detected in the sample. A summary of the volatile organic compounds identified and quantified in the aqueous seep samples is presented in Attachment VI. The presence of ketones, benzenoid aromatics and select chlorinated aliphatics is consistent with other ground water analyses from the tank farm area.

Under an approval from the NYSDEC, a collection system was installed to collect water from the seep for treatment and disposal. Seepage from the bedrock face was collected in a concrete trough and piped by a gravity drain line to a collection sump. Originally, collected water was transported off-site for disposal. Later, the water was discharged following activated carbon treatment. Following construction of the seep collection system, monitoring at the site continued for several years. Aqueous seep samples were collected periodically and analyzed to ensure proper operation of the system.

During the monitoring period the water quality of the bedrock face seepage improved significantly and levels of the organic contaminants dropped considerably. This favorably affected down gradient groundwater quality, as well as signaled a trend toward a reduction of the source of contamination.

#### 4.3 Test Pits

After the discovery of the seep, several steps were taken to determine whether an active contamination source existed. Three test pits (TP 8-83-1, TP 8-83-2, TP 8-83-3) were excavated during August 1983. A more extensive excavation was then conducted during November 1983 along the IES property to delineate contamination. A total of six new test excavations (TP-1, TP-2, TP-3, TP-4, TP-5, TP-6) were dug in the area surrounding the fuel tanks, fuel lines and bedrock seepage area, as shown in Figure 4. NYSDEC personnel observed all of the excavations. Excavations 1, 3, 4, 5, and 6 were performed to determine subsurface conditions including depth and type of fill, elevation and configuration of bedrock, location of zones of contaminated soil or ground water, and any significant sources of ground water recharge to the bedrock seep. Section A-A' in Figure 5 shows the subsurface conditions in the area. Excavation No. 2 was performed for the purpose of locating buried fuel lines, and is not shown in Figure 4. This excavation was located within Excavation No. 1. Attachment VII contains the test pit excavation logs. The three underground pipelines at the facility were hydrostatically pressure tested to determine if they were leaking. The results of the pressure test indicated that no leaks from the pipelines had occurred.

Contaminated soil uncovered during the excavation was removed and placed on plastic sheeting for testing. The excavated area was backfilled with clean shale, which was routinely quarried and crushed at the NES facility. The contaminated soil from the excavated areas was sampled in the presence of the NYSDEC personnel.

#### 4.3.1 Test Pit Excavation Soil Chemical Analysis

The excavation performed in August 1983 did not indicate any significant site contamination. Soil in the three excavations had a slight odor and there were no visible signs of contamination as noted in the excavation logs (Attachment VII). The excavation sites uncovered in November 1983 revealed visible contamination. Samples of soil were taken from two [excavated/accumulated] piles and analyzed for volatile organic compounds (EPA Method 624, GC/MS), and a hydrocarbon scan. Table 3 summarizes the results of the volatile organic analyses. Except for very slight levels of toluene, ethylbenzene and xylene isomers, the West Seep pile was clean of volatile organic compounds. The Top pile showed contamination with elevated levels of various organic compounds such as benzenoid aromatics and chlorinated aliphatics.

#### 4.3.2 Test Pit Excavation Aqueous Chemical Analysis

Aqueous samples were obtained from puddles at the bottoms of the excavation pits, TP-1, -3, -4, and -5. Analyses for volatile organic compounds were performed on all samples according to EPA Method 624. Contamination was predominantly ketones and several chlorinated aliphatics. There is a good qualitative correlation between these compounds and those found in other nearby aqueous sampling points. The results of the analysis are presented in Table 4.

#### 5.0 Remedial Activities

IES systematically pursued an investigation and evaluation of the site. Test pits were excavated to uncover the source of the contamination. Contaminated soils were removed and replaced with clean fill. Monitoring wells were installed and water quality data collected. These actions and other steps described below were taken to mitigate contamination at the site.

#### 5.1 Prevention Measures

To ensure that no future leaks or spills occurred from the facility all underground pipelines used to transfer hazardous waste fuel were removed and were replaced with new, aboveground lines. IES removed the underground pipes and installed the new aboveground pipes as a preventive measure only, since testing verified that the pipelines did not leak.

In addition, all of the storage tanks were reinstalled on a common concrete foundation meeting the requirements of Subtitle C Regulations for Hazardous Waste Storage and Treatment Tanks.

#### 5.2 Surface Sealing to Prevent Infiltration

In November 1984, the large area excavated in 1983 was completely weather-sealed by a four-inch application of macadam. Later, in 1987 a sub-soil-testing protocol was incorporated into the Closure Plan. Five 3-¼ inch holes were drilled through the macadam cover. Composite samples were taken at 2', 4', 6', 8' and 10' depth at each of the boreholes. Figure 6 shows the area covered and sealed with the macadam.

#### 6.0 Closure Activities

As discussed above, IES stopped receiving hazardous waste in 1983. NYSDEC required IES to completely clean and decontaminate all of the storage tanks as a result of the PCB contamination described in Section 1.0. The facility received no further shipments of hazardous waste. From 1983 to 1986, activities at the facility resulted in the removal of all of the underground pipelines. Areas contaminated were excavated and backfilled with clean material. Furthermore, extensive soil and groundwater testing was performed (see Table 1) demonstrating clean closure of the site.

A Closure Plan was submitted to and approved by the NYSDEC. Upon completion of the closure activities, an independent professional engineer certification was submitted. IES received approval from NYSDEC of the closure certification on July 6, 1988. A copy of the closure plan and other documents related to the facility's closure are presented in Attachment VIII. The approval letter from NYSDEC accepting the closure certification and considering the facility officially closed is presented in Attachment IX.

#### 7.0 Conclusion

IES fully cooperated with the NYSDEC to adequately investigate the site. Numerous monitoring wells were installed and an extensive monitoring program covering approximately five years indicated low level organic contamination and improving conditions at the facility. Also, extensive excavation and other actions taken at the facility provided adequate remediation of the site. Furthermore, no groundwater contamination of organic compounds was detected at any of the neighboring drinking water wells.

There is an apparent correlation between the concentration of volatile organic compounds in the seep and in wells DFT-1 and DFT-2. Well DFT-2 has a history of periodically being a dry well. When this occurs, the contaminant levels in DFT-1, which is down gradient from DFT-2, are lowest. When recharge to DFT-2 yields sufficient water for sampling, then DFT-1 shows an increase in contaminants and there is a corresponding decrease of volatile organic compounds in the seep. Comparison of these well data with the seep data indicates a correlation between the two locations. All of the compounds found in the wells were also found in the seep. Furthermore, during the excavation of test pits 1 and 5, water was observed in bedrock troughs. Upon pumping the water from these depressions, the flow from the bedrock seepage face was reduced significantly. This indicates that some movement of water does occur from the fill material into the upper fractured and jointed bedrock. This complementary relation may be dependent upon bedrock/overburden configuration, surface rainwater infiltration, and seasonal or temporal variations in groundwater conditions.

The information and data presented disclose a correlation between the wells, the bedrock seep and the contaminated material excavated at the site. The bedrock face seepage was chemically characteristic of the monitoring well samples seen on site with ketones, benzenoid aromatics and chlorinated aliphatics constituting the bulk of the contamination problem.

The data presented on Table 2 from Section 4.1.3 above summarize the hydrocarbon analysis performed on the seep and reflect the trend toward a reduction of the source of the contamination. This trend becomes more apparent by plotting the data over time as shown in Chart 1-3. The increase in concentrations during November 1984 to May 1985 occurs during the time when the macadam was applied to seal the area from infiltration. Since water infiltrating the area was reduced, flushing/dilution was diminished. Therefore, a brief increase in the concentration would be expected.

The extensive investigation and remediation performed throughout the site proved effective in mitigating the contamination. The analytical results show that the contamination eventually diminished to a low level. Conditions at IES continued to improve as indicated by a decline in the level and quantity of organic compounds detected. In conclusion, the actions taken and the results of the analyses of organic chemicals in the groundwater indicate that the IES facility does not pose a health threat to workers on-site or residential homes in the vicinity of the plant. Furthermore, contamination problem areas were confined within IES/NES boundaries.

#### 8.0 Summary

Contamination in the immediate vicinity of the tank farm most likely arose from local spills since underground piping showed no evidence of leaking. Such spills accumulated in upper fractured bedrock troughs and depressions, and over time were flushed from these areas by precipitation. This would account for the presence and concentrations in certain wells when they were not dry, especially since direct correlations and hydraulic connections were shown during excavations.

The predominant movement of these contaminants was: 1) toward the seep face as evidenced by the westward bedrock slope and the finding of dammed up contaminated water above the bedrock seep face during excavation of test pit 1, and the same general flow of ground water to the west, and 2) limited isolated flow to the east only in the vicinity of wells DFT-1 and DFT-2 given their downhill location along the slope of the east side of the tank farm area. Similar contamination is found nowhere else in areas monitored.

# **TABLES**

### Table 1

### Summary of Major Reports for

### Industrial Environmental Systems, Inc.

June 3, 1983	EVALUATION OF THE GEOLOGICAL AND HYDROLOGICAL CONDITIONS IN THE FUEL STORAGE AREA
December 1, 1983	FUEL TANK STORAGE AREA: MONITORING WELL INSTALLATIONS AND GROUNDWATER QUALITY ANALYSIS
May 15, 1984	TANK FARM: MONITORING WELL INSTALLATION & GROUNDWATER QUALITY ANALYSIS
April 1985	TANK FARM: GROUNDWATER QUALITY ANALYSIS
August 1986	TANK FARM AREA: GROUNDWATER QUALITY

Dec-83   Feb-84   Apr-84   Jun-84   Aug-84   Nov-84   Feb-85   Apr-85   May-85   May-85   May-85   May-85   May-85   May-86   M							Table 2						
Dec-81   Feb-84   Apr-84   Jun-84   Aug-84   Nov-84   Feb-85   Apr-85   May-85   Aug-85   Nov-85     A				ζ	UMMARY INDUSTR	OF TOTAI	L HYDRO(	CARBON /	ANALYSE: EMS, INC	Ø			
1   71   78   55   <20   340   1900   2700   380   390   390   390   320   2500   2700   380   390   3200   22500   2700   380   3200		Dec-83	Feb-84	Apr-84	Jun-84	Aug-84	Nov-84	Feb-85	Apr-85	May-85	Aug-85	Nov-85	Mar-86
1   1   1   1   1   1   1   1   1   1	UFT-1 UFT-1A	7.1	78	55	<20								
2300 560 <20 610 D 1010 810 C C C C C C C C C C C C C C C C C C C	DFT-1 DFT-2	380 2500	39	<30 7400	<20 580				340	1900	2700	380	
B 1010	DFT-4 DFT-5			560	<20	3	ſ			2300			<u>-</u> -
C 1600 <20 <10 16 230 2500 2600 2200 150 450 450 4500 4400 750 750 750 750 750 750 750 750 750 7	DF1-6 DFT6B			280	<20	<10	۵	1010			3300	Ç	
9	DFT-7			1600	<20	<10	16	230	2500	2600	2200	450 150	
11A	DFT-9 DFT-10			88	23 23	398 125	3 34	900 780	450 790	4600 7300	4400 5300	790 720	
H <30 <20 <10 1100 1100 120 <20 <10 120 1200 120 0 41700 120 1200 120 1200 120 2400 60 1210 170 380 380 1410 4500 2400 60 12600 370 1070 9600 4700 3000 4020 1070 9601 4700 1070 9601	DFT-11 DFT-11A			110	<20		۵		8500	4700	4900	770	
1100 72 280 DR DR DR DR DR 50 < 20 < 10 120 1200 41700 3100 5800 330 < 30 < 20 < 10 17 680 6800 2800 2400 60 210 170 380 380 1410 4500 2200 4600 560 ot detected at or above the reported value amaged well dry well dry well in microgram/liter = ug/L = part per billion = ppb	DITCH			<30	<20	<10	i			3400	2	) - -	
ot detected at or above the reported value dry well in microgram/liter = ug/L = part per billion = ppb	BR-1 BR-2			1100 50	<20	<10	72 120	280 1200	DR 41700	3100	DR 5800	330 330	
ot detected at or above the reported value dry well in microgram/liter = ug/L = part per billion = ppb	BR-3			×30	<20 420 420	×10	17	680	6800	2800	2400	9	
<ul> <li>&lt; = not detected at or above the reported value</li> <li>D = damaged well</li> <li>DR = dry well</li> <li>Units in microgram/liter = ug/L = part per billion = ppb</li> </ul>	SEEP			12600	370	000	200	1070	9600	4700	3000	360 4020	1700
<pre>&lt; = not detected at or above the reported value D = damaged well DR = dry well Units in microgram/liter = ug/L = part per billion = ppb</pre>													
D = damaged well DR = dry well Units in microgram/liter = ug/L = part per billion = ppb	< = not de	stected at	or above th	he reportec	i value								
Units in microgram/liter = ug/L = part per billion = ppb	D = dame	iged well											
	Units in m	crogram/lite	er = ug/L = I	part per billie	qdd = uc								

TABLE 3

VOLATILE ORGANICS - EXCAVATION PITS
SOIL SAMPLES COLLECTED ON DECEMBER 21, 1983

#### Industrial Environmental Systems, Inc.

			Pile L	ocation		
	Тор	Тор	Top	West	West	West
	Pile	Pile	Pile	Seep Pile	Seep Pile	Seep Pile
Acrolein	<100	<100	<100	<100	<100	<100
Acrylonitrile	<100	<100	<100	<100	<100	<100
Benzene	480	400	390	<20	<20	<20
Carbon tetrachloride	<20	<20	<20	<20	<20	<20
Chlorobenzene	1000	820	790	<20	<20	<20
	450	390	360	<20	<20	<20
1,2-Dichloroethane		580	500	<20	<20	<20
1,1,1-Trichloroethane	910		<20	<20 <20	<20	<20 <20
1,1-Dichloroethane	<20	<20 <20	<20 <20	<20 <20	<20 <20	<20 <20
1,1,2-Trichloroethane	<20				<20	<20 <20
1,1,2,2-Tetrachloroethane	436	520	540	<20	<20 <20	<20 <20
Chloroethane	<20	<20	<20	<20		<100
2-Chloroethylvinyl ether	<100	<100	<100	<100	<100	
Chloroform	<20	<20	<20	<20	<20	<20
1,1-Dichloroethene	<20	<20	<20	<20	<20	<20
Trans-1,2-Dichloroethene	<20	<20	<20	<20	<20	<20
1,2-Dichloropropane	<20	<20	<20	<20	<20	<20
1,3-Dichloropropene	<20	<20	<20	<20	<20	<20
Ethylbenzene	14000	11000	12000	<20	39	<20
Methylene chloride	<200	<200	<200	<200	<200	<200
Chloromethane	<20	<20	<20	<20	<20	<20
Bromomethane	<20	<20	<20	<20	<20	<20
Bromoform	<20	<20	<20	<20	<20	<20
Bromodichloromethane	<20	<20	<20	<20	<20	<20
Fluorotrichloromethane	<20	<20	<20	<20	<20	<20
Dichlorodifluoromethane	<20	<20	<20	<20	<20	<20
Chlorodibromomethane	<20	<20	<20	<20	<20	<20
Tetrachloroethene	3900	3000	2800	<20	<20	<20
Toluene	106000	90000	88000	180	300	87
Trichloroethene	1300	1000	950	<20	<20	<20
Vinyl chloride	<20	<20	<20	<20	<20	<20
Xylene isomers	52000	81000	85000	<50	67	<50

units in micrograms/kilogram = ug/kg = part per billion = ppb < = not detected at or above the reported value

TABLE 4

VOLATILE ORGANICS - EXCAVATION PITS
AQUEOUS SAMPLES COLLECTED DECEMBER 6, 1983

#### INDUSTRIAL ENVIRONMENTAL SYSTEMS, INC.

**Test Pit Locations Parameters** 3,East 3,West 4,South 4,North Benzene Chlorobenzene 1.2-Dichloroethane 1,1,1-Trichloroethane 1,1-Dichloroethane 1,1,2-Trichloroethane Chloroform Trans-1,2-Dichloroethane Ethyl Benzene Methylene Chloride Tetrachloroethene Toluene Trichloroethene Total Xylene Isomers Methyl Ethyl Ketone Methyl Isobutyl Ketone Acetone 

units in microgram/liter = ug/L = part per billion ppb

# **CHARTS**

DFT-11A DITCH DFT-7 DFT-9 DFT-10 -DFT6B DFT-11 DFT-1 → DFT-5 +-DFT-6 \*-DFT-2 -\*-DFT-4 → UFT-1 BR-1 BR-2 BR-3 \* SEEP ė. So. Jen 28. CAS. Sour Ver Ser. Ser. SONON Se NOO Sain Chart 3 Groundwater History Souns SOJEN 58.101 Solen CATORY Solver \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* TO TON Sealed With 4" Macadam 40 YO to des Bully \*O'Un AN TON 40.10h \*O. Jen 40. COS. \*O.Uer E& 30 × 45000 40000 35000 30000 25000 20000 15000 10000 5000 0 qdd

DFT-11 DFT-11A DFT-10 -DFT6B --- UFT-1A DFT-9 DITCH DFT-7 DFT-1 +-DFT-6 -- DFT-5 SEEP → UFT-1 -X-DFT-2 -\*-DFT-4 BR-1 **BR-2** Dec- Jan-85 Feb-84 85 Oct-84 Nov-Sealed With 4" Macadam Sep-Aug-84 Mar- Apr-84 May- Jun-84 Jul-84 84 84 Date Jan-84 Feb-93 83 × 4000 10000 8000 0 14000 12000 0009 2000 qdd

Chart 1 Pre Seal Results

DFT-10 DFT-11 DFT-11A DITCH **DFT6B** DFT-9 DFT-7 → UFT-1 X-DFT-2 \*-DFT-4 -DFT-5 +-DFT-6 SEEP BR-2 BR-1 Feb-86 Mar-86 Apr-85 May-85 Jun-85 Jul-85 Aug-85 Sep-85 Oct-85 Nov-85 Dec-85 Jan-86 Date +0 25000 20000 15000 10000 2000 40000 35000 30000 45000 qdd

Chart 2 Post Seal results

# **FIGURES**

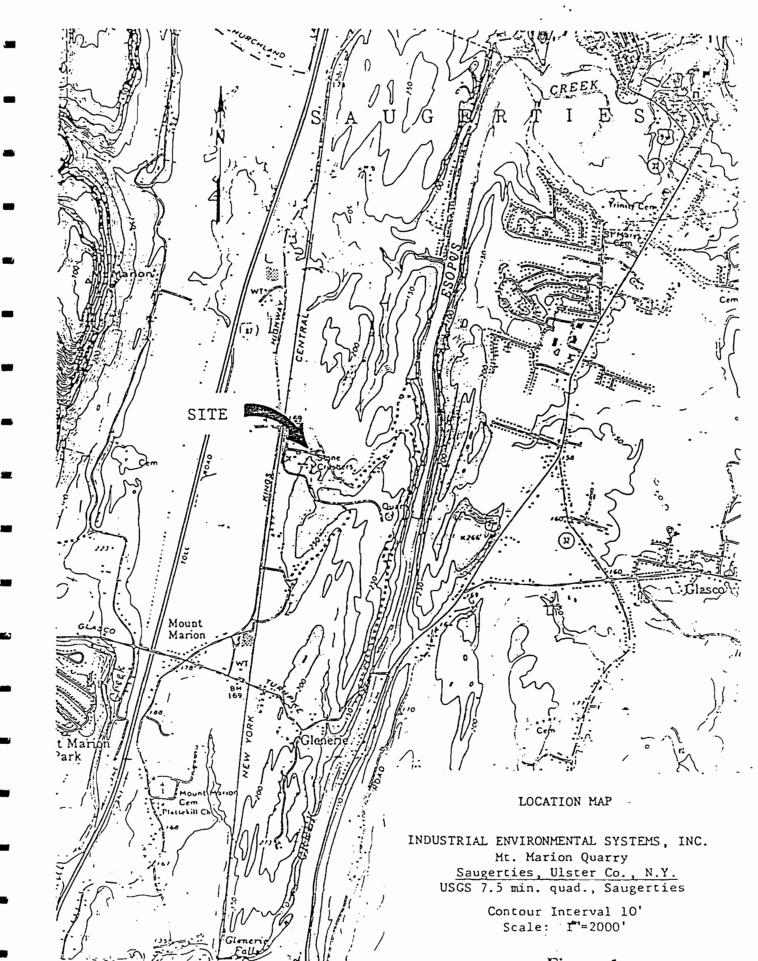
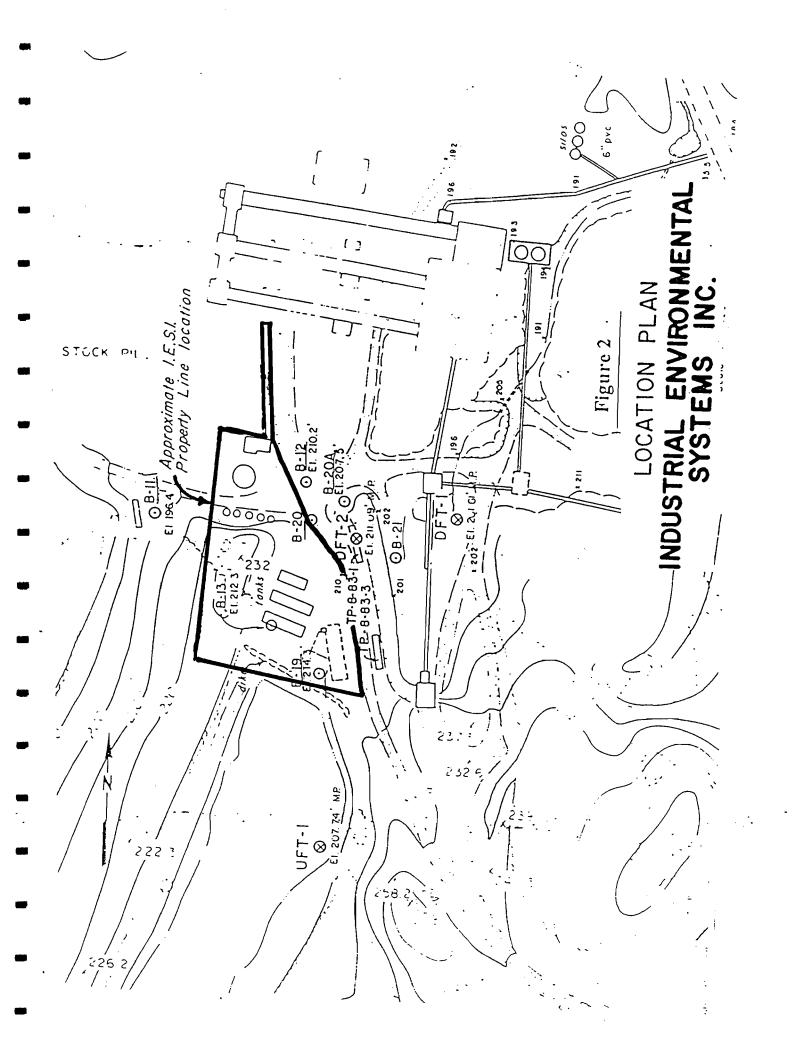
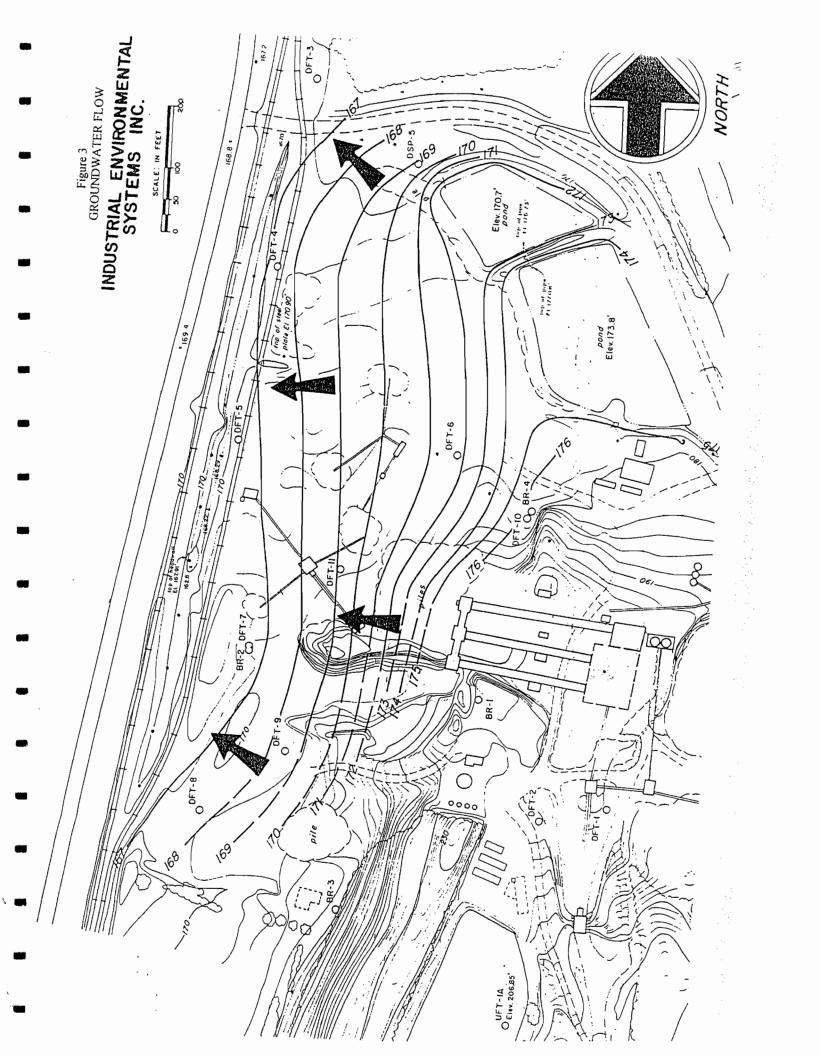
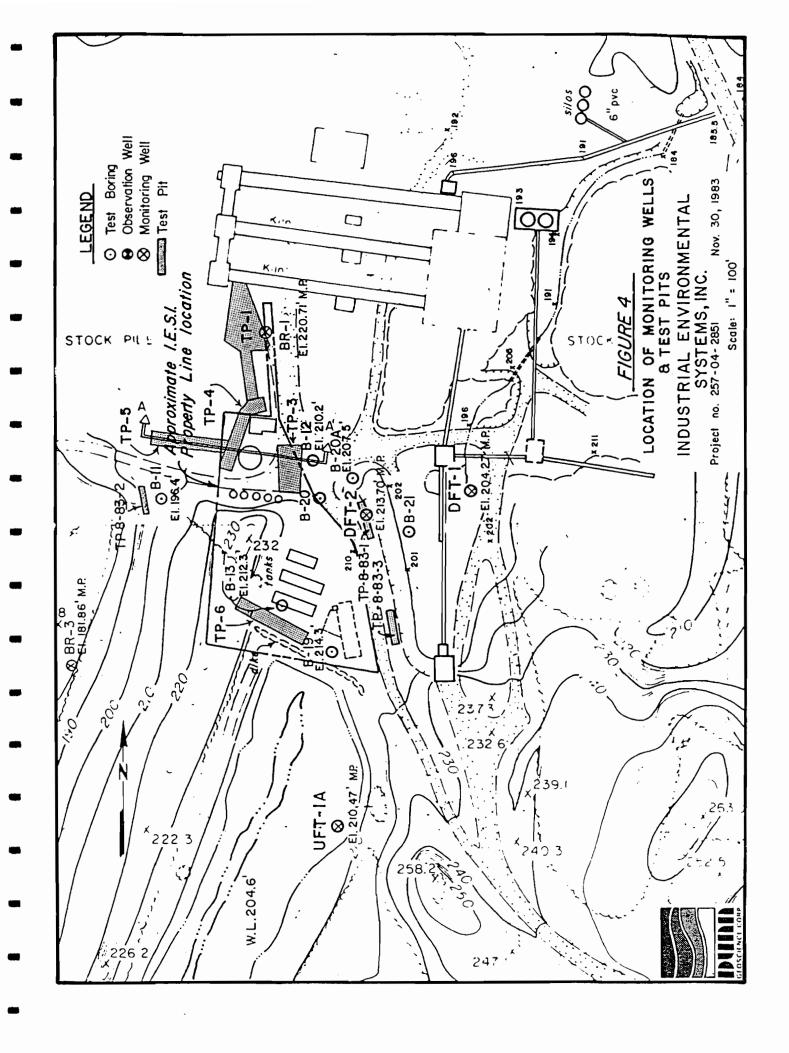
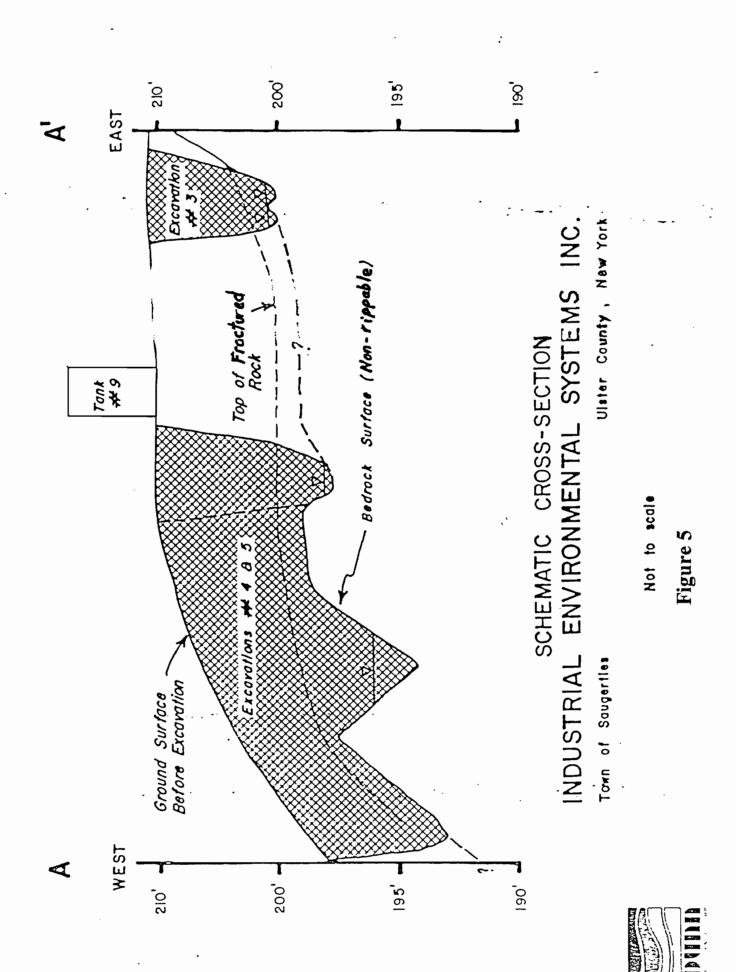


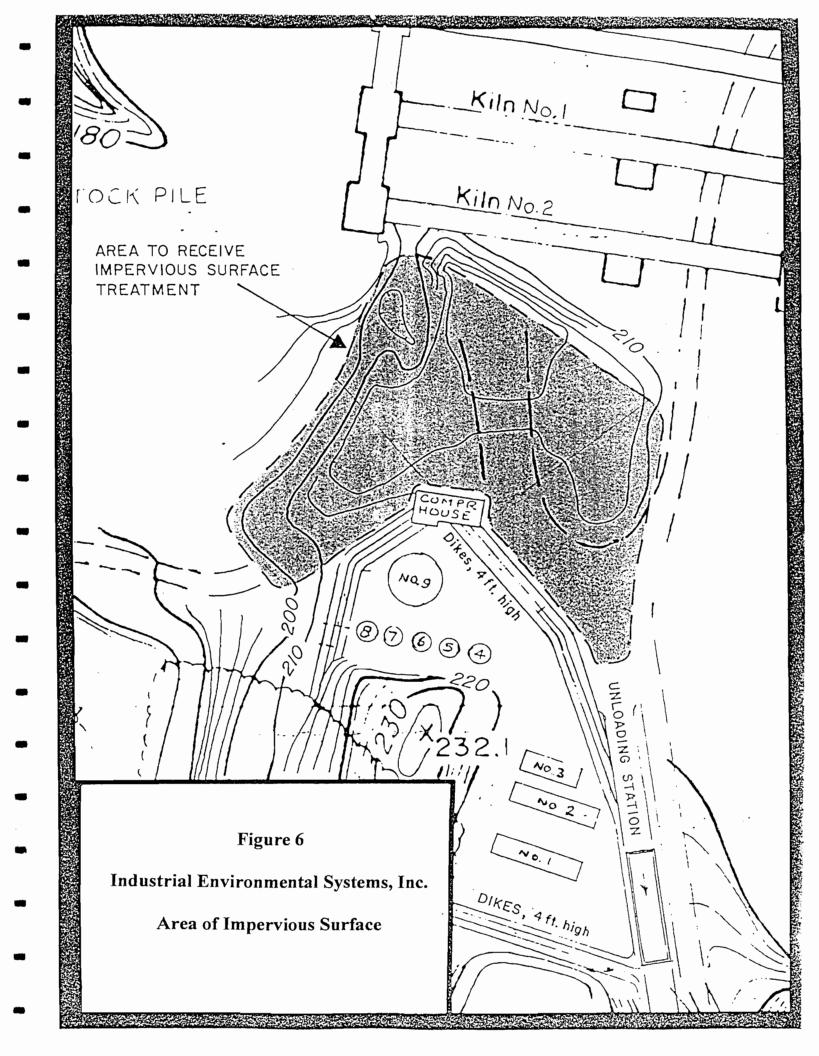
Figure 1











## **ATTACHMENTS**

### to accompany

A Summary of the
Closure and Remedial Activities
Performed for
Industrial Environmental Systems, Inc.

Prepared by

Northeast Solite Corporation (Mount Marion, NY) and ARG Environmental (Latham, NY)

June, 1999

# **ATTACHMENT I**

# **ATTACHMENT II**

DU			ENCE CO				TEST	BORING	LOG	BORING NO	<b>).</b> B–11
PRO		<del></del>	YORK _518 Lon of Ge			itio					D 11
CLIE	NT ]	Industri	ial Envi	onment	al Sy	stem	s, Inc.			SHEET I OF	1
DRIL	LING	CONTRAC	TOR Warre	n Geor	ge, I	nc.		· · · · · · · · ·		JOB NO. 257.	-1-2183
PUR	POSE	Geo	ologic Co	nditio	ns					ELEVATION 21:	
GROL	INDWA		•		_		CASING	SAMPLE	CORE	<del>                                     </del>	Surveyed
DA	<del>-                                    </del>	TIME	DEPTH	CASING	TY	PE	None	SS	None	DATE STARTED	· · · · · · · · · · · · · · · · · · ·
		·			+	ETER		1-3.8"		DATE FINISHED	
			<u> </u>	i	WEIG			130		DRILLER )	M. Imparato
					FAI			30"		INSPECTOR G. 1	
DEPTH FT.	CASING	SAMPLE NO.	BLOWS ON SAMPLE SPOON	ASS-	GRAPHIC		[]	DENTIF	CATIO	<u> </u>	REMARKS
3	3 8	S S	<del></del>	5 5 5 E	<b>5</b>			<del></del>			
		S-1	U	-		Gr (	cmfGa, c		Rec = 1.6' Dry - Moist		
	Ţ,	7 -	S				chemical odor				
	ļ	<del>-</del>	H 31	_		Or 1	Rec = 1.4'				
	ļ	S-2	37				Moist				
			18							ne Gravel d,some Silt	Slag
		S-3	10 5			(G		(Fi]		<del>-</del>	
5 -	<del>                                     </del>	13-3	14			No I	Rec = 0				
		<del> </del>	15				Rec = 0.4'				
		S-4	8			Br :	\$s, mfS,	tmG, o,	rts, v	eg	Moist
			13					8.01			
		6.5	11		Br yw mfGa(+), mfS, S Cy \$						Rec = 1.5'
	<u> </u>	S-5	17	-	Brown to yellow medium to fine						pp = 4.0 TSF
10 -	<u> </u>	S-6	17	]	GRAVEL and (+), medium fine Sand, some Clayey Silt (GC) (Fill)						Moist (Fill?)
			100/.		_	Same	Rec = 0.6'				
				-			Moist contains rock				
		1	·	コ			frags/brachio-				
		1		$\dashv$ $\mid$			Refusal	on Lime	stone		pod fossils
	7	_		コ	-						Hole backfilled with fill ma-
15 ~				-				•	•		terial
/5~				7							1
		1		_			•				
		-		]							
				_							
				-							
,		1		_							
20		1.									

	LATHA	M, NEW	-	-783-810	2			BORING	LOG	Boring No	). B-12
	ECT		tion of								
CLIE			rial Env					•		SHEET I OF	
DRILI	LING (		TOR Warr		ge,	Inc.				JOB NO. 257-1	
PURF	POSE	Geolog	gic Condi	tions					<b></b>		10.2
GROU	TAWON	ER					CASING	SAMPLE	CORE	DATUM As Sur	cveyed
DAT	TE	TIME	DEPTH	CASING	TY	PE	Flush	SS	None	DATE STARTED	3/16/81
		-			DIAM	ETER	4"	1-3/8"II		DATE FINISHED	3/16/81
					WEK	SHT	300	140		DRILLER M	1. Imparato
		_			FAI	LL.	24	30		INSPECTOR C	.D. Casper
DEPTH FT.	CASING	SAMPLE NO.	BLOWS ON SAMPLE SPOON	UNIFIED CLASS-FICATION	GRAPHIC LOG			DENTIF	ICATIO	N	REMARKS
		S-1	16 17	-				dium to			Rec = 1.0
		<del> </del>	100/0	<b>-</b>	-	$\vdash$		oarse to ilt (GP)		and, 1.0'	damp
	<u> </u>		100/.1	$\dashv$ $\mid$					- · · · · · · · · · · · · · · · · · · ·	/	
		S-2	100/.1	<b>_</b>			P	robable	Bedrock		Rollerbit to 2.0'
							Bottom o	f Hole @	2.0		2.0
		1		<b>-</b>							
5 -		-		-							
				_						`	
	l			_						-	
				$\dashv$ $\mid$							·
				<b>]</b>							
10 -		1		_							
		-		-							
				7							
				-							
				7							
									٠.		
15 ~				_							
				-							
		1		_							
		ł		$\dashv$ $\mid$							
		i	I			1					I

			ENCE CO				TEST	BORING	LOG	BORING NO	). B-13
PROJ	ECT		ation of								
CLIE	NT	Indust	rial Env	rironmen	ital :	Syst	ems, Inc			SHEET I OF	1
DRIL	LING	CONTRAC	TOR Warr	en Geor	ge,	Inc.				JOB NO. 257-	-1-2183
PURF	POSE	Geolog	gic Condi	tions			,		-	ELEVATION 2	12.3
GROL	<b>TAWDNI</b>	ER					CASING	SAMPLE	CORE	DATUM As	Surveyed
DA <sup>*</sup>	ΤE	TIME	DEPTH	CASING	TY	PE	None	SS	None	DATE STARTED	3/16/81
3/16	6/81	9:30	5.0'	None	DIAM	ETER		1-3/8"ID		DATE FINISHED	3/16/81
					WEK	энт		140		DRILLER	M. Imparato
					FAI	LL		30		INSPECTOR	G.D. Casper
DEPTH Ft.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON	UNIFIED CLASSI-	GRAPHIC LOG		Į.	DENTIF	CATIO	N	REMARKS
			P			Gr	cmfGs,	cmfS, t(	+) ş	·	Rec = 1.0'
		S-1	U	7			-				Dry
	٠.		S H	_				arse to oarse to			
		S-2	11	_			trace(+	) Silt (	GP)	(Fill)	
		3-2	7			No	Rec.				
			7	7		C	o=£0-	cmfS t (+	) ^		n 0
5 -		S-3	4	<u> </u>		Gr	cmigs,	cmis t	Ş		Rec = 0.5' Wet
3			8	7						,	chem odor
		S-4	8			Gr	cmfG1,	cmfS, t	<sup>+)</sup> \$		Rec = 1.2'
		ļ	15							7.0 <b>'</b>	Wet-Moist
		S-4a	11			BT	_	fG, 1\$&C edium to		AND,little	pp = 3.5 TSF
		S-5	10	7			medium	to fine	Gravel,	little SILT	Rec = 1.2'
		13-7	16 21	-			& CLAY	(GC)	(Fill)		pp = 3.5 TSF Moist
10 -			20	7						10.0'	
		S-6	8			Gr	mfGt, co	•	fine CP/	AVEL trace,	Rec = 1.2' Wet
			13 16				coarse	to fine	Sand, to	race SILT	,,,,,
		6 7	13	$\dashv$ $\mid$		Sar	(GW) ne	(Fi	11		Rec = 1.2'
		S-7	16	7						13.6'	pp = 3.75 TS
		S-7a	10	_						e medium to	Wet-Moist
		S-8	100/.5	7	•		(Fill			14.5	Rec = 0.5' pp = 2.5 TSF
15 -		-		-			<b>D</b>		0.11	. ,	Moist
				7			Botto	n of Hole	e @ 14.5	) '	Refusal on rock:
				$\dashv$ $\mid$							Hole backfil
				7							with Fill
		-		$\dashv$ $\mid$							
				]							·

			ENCE CO				TEST	BORING	LOG	BORING NO	<b>).</b> B-19
PROJ	ECT E	valuati	ion of Ge	eologic	Cond	itio	ns				-
CLIE	NT I	ndustri	ial Envir	conment	al Sy	stem	s, Inc.			SHEET I OF	1
DRILL	LING	CONTRACT	TOR Soil	and Ma	teria:	l Te	sting, I	nc.		JOB NO. 257	-1-2183
PURP	OSE G	eologic	Conditi	ions						ELEVATION 21	4.34'
GROU	TAWON	ER					CASING	SAMPLE	CORE	DATUM As	Surveyed
DAT	ΓE	TIME	DEPTH	CASING	TY	PE	HSA	SS	1	DATE STARTED	5/13/81
5/13	3/81		11.0		DIAME	TER	6"	1-3/8"ID	1	DATE FINISHED	5/13/81
				<b>-</b>	WEIG	тн	1	allenbeck			
					FAL	.L		30		INSPECTOR J.	P. Behan
DEPTH FT.	CASING	SAMPLE NO.	BLOWS ON SAMPLE SPOON	UNIFIED CLASS-	GRAPHIC LOG		11	DENTIF	CATIO	N	REMARKS
		S-1	11 12			Gr	fGs, cf	S, t\$			Rec = 1.7' dry
	•	S-2	12 14 14 17 12			Sa	me	GRAVEL s	ome, coa	im fine(+) arse to ay Silt (GW)	Rec = 0.7' moist
5 -		S-3	5 5 5 5			Gr	br fGs(	+), cfS,	1Cy\$	١.	Rec = 1.7' moist
	-	S-4A	4 4 7 6					cfS, tf			Rec = 1.6' moist pc wood in S-4
		-S-5	14 14 7			Sa		Gs, cfS	, ((+))		Rec = 1.3'
10 -		S-6	7 6 7			Sa	me				Rec = 0.7'
			7							12.0'	·
		S-7 S-7A	4 4 6 7			ı	O \$ gr \$ &	C1, fS	& CLAY	gray SILT ( little Sand (ML)	Rec = 1.5' moist mottled
15 -		S-8	17 12 7			Br	gr S &	C s, mfS	(Fi11)		Rec = 1.0 moist mottled
17.2		S-9	.7 150			Gr Gr		fS m of Hol	a at 17	16.0'	Rec = 0.4' moist weathered rock
ЕОВ						Si		nstalled d to 2'		11.5-16.5	Rec = 0.1' pc Gray Shale
20				-							

	LATH.	AM, NEW	ENCE CO	-783-810	2		<del></del>	BORING	LOG	BORING NO	<b>).</b> B-20
	ECT	Evalu	ation of	Geolog	ic Co	ndi	tions				· · · · · · · · · · · · · · · · · · ·
CLIE			trial En						· · · · · · · · · · · · · · · · · · ·	SHEET I OF	
DRILL	LING	CONTRAC	TOR Soil	L & Mate	erial	Tes	sting, I	nc.		JOB NO. 257-	1-2183
PURP	POSE	Geo	logic Co	ndition	s				<del>,                                      </del>	ELEVATION	
GROU	NDWA	TER					CASING	SAMPLE	CORE	DATUM	
DAT	ΓE	TIME	DEPTH	CASING	TY	PE	HSA	ss		DATE STARTED	
_					DIAMI	ETER	6"	1 3/8"		DATE FINISHED	<del></del>
					WEIG	HT		140		DRILLER H.	
					FAL	L	<u>  -                                   </u>	30"		INSPECTOR J	.P. Behan
DEPTH FT.	CASING	SAMPLE NO.	BLOWS ON SAMPLE SPOON	UNIFIED CLASS-	GRAPHIC LOG		. (1	DENTIF	CATIO	N	REMARKS
		S-1	5 5 15 35			G		n medium	fine (+	-) GRAVEL	Rec 1.7 dry Chemical Smell
		S-2	35 30 90 100	]		<u> </u>	ome, coa ittle cl	ayey sil	t (GW-G (Fill)	M)	Rec 1.7 Chemical Smel Wet
5 -		  - 				Во	ttom of	Hole @ 5	5.0'		Auger and spl spoon refusal at 5.0'
		-									
o -											
15 ~											
							٠				
		-									.*

	I ININI	GEOSCII	ENCE CO	70000A	1		·			<u> </u>	
L		HAM, NEW					TEST	BORING	LOG	BORING NO	). B-20A
PF	OJECT	Evalua	tion of	Geologi	c Co	ndit	ions				
CL	JENT	Indust	rial Env	vironmer	tal	Syst	ems, Inc			SHEET I OF	1
DF	RILLING	CONTRAC	ron Soi	1 & Mat	erial	L Te	sting, I	nc.		JOB NO. 257-	1-2183
PL	JRPOSE	Geolo	gic Cond	itions						ELEVATION 2	07.51
GF	<b>SOUNDW</b>	ATER					CASING	SAMPLE	CORE	DATUM As S	urveyed
	DATE	TIME	DEPTH	CASING	TY	PE	HSA	ss	-	DATE STARTED	5/13/81
5,	/13/8		4.0'	· -	DIAME	ETER	6"	1 3/8"		DATE FINISHED	5/13/81
L					WEIG	нт	_	140	-		Hallenbeck
L		<u> </u>			FAL	L		30"	<u> </u>	INSPECTOR J	.P. Behan
DEPTH	CASING	SAMPLE NO.	BLOWS ON SAMPLE SPOON	UNIFIED CLASSI-	GRAPHIC LOG		11	DENTIF	CATIO	N	REMARKS
		s-1	10 55 90 125			Gr	mfGs, cf	s, t\$			Rec 1.7' dry Slight Chemical Smell
		S-2	15 12 14 12			Br	mf (+) Gs ,	cfS, 1	(+)Cy\$		Rec 1.7' Sample moist Chemical Smell
5		S-3	12 11 12 8				f	Brown med Fravel so Fine Sand Clayey Si	ome, coa l, littl	rse to e (+)	Rec 1.5' Strong Chemical Smell; wet
		- S-4 - S-5	125	-		Br	fGa, cfS	5, 1(+)Cy	<b>,</b> \$	·	Rec 0.4'Moist Chemical Smell
10	, †—	S-6	125/.2'			Gr					1 pc. cG Rec 0.1
li li						·	ottom of	F, Hole @			l'i" well installed fol- lowing completion of drilling screen 6-8.5' Silica sand to 2.0' Grout to surface
20											

	T Fva		2-783-810					BORING NO	
CLIENT	LVU.	strial En			ystems, Inc	,	<del>-</del>	SHEET I OF	1
	IG CONTRA				Testing,				-1-2183
PURPOS	<del></del>	eologic C			_ resering,			ELEVATION	
	WATER	orogic c	JIIGI CION	3	CASING	SAMPLE	CORE	DATUM _	
DATE	TIME	DEPTH	CASING	TYPE	E HSA	SS	_	DATE STARTED	5/13/81
_	_	_		DIAMET	TER 6"	1 3/8"	_	DATE FINISHED	
			1	WEIGH		140		DRILLER H. H	allenbeck
*				FALL	-   -	30"	_	INSPECTOR J.	P. Behan
DEPTH FT.	BLOWS	BLOWS ON SAMPLE SPOON	UNIFIED CLASSI-	GRAPHIC LOG	11	DENTIF	ICATIO	N	REMARKS
5	S-1	20 .75 .90 .125			Brown gra Gravel so sand, tra (Fi	me, coar ce Silt 11)	se to f		Rec = 1.5' dry  Auger and split spoon refusal at 5.0'
15						·.			

PROJ			toring W			+1					-
CLIE			heast So						······································	SHEET I OF	1
DRIL	LING	CONTRACT	T00	il & Ma						JOB NO. 25	7-1-2183
PURF	POSE	Monit	oring We				<u> </u>			ELEVATION	204.90'
GROL	INDWAT	ER					CASING	SAMPLE	CORE	DATUM	MSL
DA'	ΤE	TIME	DEPTH	CASING	TYF	PΕ	HS Auge	r SS		DATE STARTED	8-17-83
3-17	7-83	10:45	4.2'		DIAME	TER	6" OD	$1\frac{3}{8}$ " id		DATE FINISHED	8-17-83
3-17	7-83	11:00	4-0'	1	WEIG	нт		140#		DRILLER J	. Hanson
					FAL	.L		30"		INSPECTOR	G. Casper
DEPTH FT.	CASING	SAMPLE NO.	BLOWS ON SAMPLE SPOON	UNIFIED CLASS- FICATION	GRAPHIC LOG		11	DENTIF	CATIO	N	REMARKS
5		S-1 S-2 S-3 S-3A		2 3 CL 4 5 CL 1 3 SM 1		Err Wee	Br or,  cts gr pu  ame  cown coan  layey Sil  cavel (Gr	S&C t, arple cl rse to f lt, and f) LACIAL T cing at en at 6. ad at 6. seal at out with l.0'-0.	CLAY li onal pie IOLACUST  fS; mtla ay, occ.  ine Sana (-) medi  ILL)  6.5'  5'-3.5' 5'-2.0' 2.0'-1. protect 0'	ttle, ece TRINE  i, freq. pc. mfG 5.0' i, some (+) tum fine	Rec.= 1.2' Moist  Rec.= 2.0' Moist Wetter at 3. Br gr mtld, sandier belo 3.0' Auguered to Rec.= 0.8' Clay-Moist Till-Dry-WET at tip of spoon Auger Refusa
15 -											

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	LATH	AM, NEW	ENCE CO	-783-810	2		BORING	LOG	BORING NO	DFT-1
CLIE			toring W						2552 : 25	
			heast So	lite Co	rporatio	n			SHEET I OF	1
		CONTRAC	TOR	Soil &	Material	Testing	. Inc.			7-1-2183
PURP			toring W	ell Ins	tallatio	1	SAMPLE		ELEVATION	198.64'
	NOWA		1		T	CASING	DATUM	MSL		
DAT	<b>Γ</b> Ε	TIME	DEPTH	CASING	TYPE	HS Auge	8-17-83			
					DIAMETER	6" OD			DATE FINISHED	8-17-83
					WEIGHT		140#		DRILLER J.	Hanson
				<u> </u>	FALL		30"	<u> </u>	INSPECTOR	G. Casper
DEPTH FT.	CASING	SAMPLE NO.	BLOWS ON SAMPLE SPOON	UNIFIED CLASSF	CRAPHIC	11	DENTIF	CATIO	N	REMARKS
5		S-1 S-2 S-3 S-4 S-5 S-6	9 7 13 15 2 1 7 6 4 5	9 5 5 SC 9 SC 9 SC 9 SC 9 SM-GM	G S M P	ray brown ome (+): edium fin iece of v ame; occ	n coarse Silt & C ne Grave Wood (SC (FILL) pc wd	to fine lay, son l; occas	ne (-)	S-1 & S-2 Not retained  Rec.= 0.4' Dry  Rec.= 0.7' Moist  Rec.= 0.5' WET  Rec.= 1.0' WET-Moist Denser-dryer
15 -			12		M S S B C	+) Silt of ine Grave ockets (Southon of onitoring creen at ilica Samentonite	S Clay, sel; occasion	some (+) sional c  L TILL) 13.0' nstalled .0' .0'-1.5' 1.5'-1.	prange-brown 13.0'	at 12.5', gravel more rounded Augers to 12.

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	LATH		ENCE CO			TEST	BORING	LOG	BORING NO	DFT-2
PROJE		Monito	oring Wel	1 Insta	allati	on				
CLIEN			east Soli	te Corr	orati	on			SHEET I OF	_1
DRILL	ING	CONTRACT	Soil	& Mate	erial	Testing Co	•			-1-2183
PURP	OSE	Monit	oring Wel	ll Insta	allati	on			ELEVATION	208.80'
GROU	NOWE	TER				CASING	SAMPLE	CORE	DATUM	MSL
DAT	E	TIME	DEPTH	CASING	TYP	LETUSD	SS		DATE STARTED	8-17-83
					DIAMET	ER 6" OD	$1\frac{3}{8}$ id		DATE FINISHED	8-19-83
	1				WEIGH	π <sub>140#</sub>	140#		DRILLER J	. Hanson
					FALL	30"	30"		INSPECTOR G	. Casper
DEPTH FT.	CASING	SAMPLE NO.	BLOWS ON SAMPLE SPOON	CLASS- FICATION	GRAPHIC	U	DENTIF	CATIO	N	REMARKS
5 ~						Dark Gray Sand, lit	tle(+) C	layey Si	ilt, some	Augered to 9.0' - No Samples Drilled in test pit 8-83-1 afte being backfilled with shale chips  Rec.= 1.4' Moist-Dry
15 -		S-1	75/	5 SM 6 20 ML		Bottom of Well scre Silica sa Bentonite Cement gr	(FIL.  ttle, fi ) GLACIO Hole at en at 9. nd at 9. seal at out at 2 protect	ne Sand LACUSTRI 9.5' 5'-3.5' 2.5'-2.0	9.0' 9.5' INE)	Slight odor Pulled auge Drove casin to 9.5' Drilled out casing & se well

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	GEOSCII	ENCE CO			TEST	BORING	LOG	BORING NO	).
PROJECT	Grou	ndwater	Contami	nation	Study				BR-1
CLIENT	Indu	strial E	nvironm	ental S	Systems, I	nc.		SHEET I OF	2
DRILLING					lling & P		Inc.	JOB NO. 25	7-4-2851
PURPOSE	-				Installa			ELEVATION	218.82
GROUNDY		0810 00.			CASING	SAMPLE	CORE	DATUM	MSL
DATE	TIME	DEPTH	CASING	TYPE	Stee1		<u> </u>	DATE STARTED	
1/22/9/	2 - 2004	ļ- <u>-</u> -		DIAMETE	_		NX	DATE ENUOYED	
	3:30PM						2 1/8"	<del>                                       </del>	
	12:00PM	<del></del>	30.00'	<del> </del>	<u> </u>				y Mason
	Complet	5.5	30.00'	<del></del>			_	INSPECTOR G	. Casper/J. Wink
CASING BLOWS	SAMPLE	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI- FICATION	GRAPHIC LOG	11	DENTIF	ICATIO	N	REMARKS
5		``			Shale Fin Fill Mate		ock rubb	<u>ole</u>	Rock sleave drilled with Ingersoll-Rand-Th 60 (Air-rotary-drill) Down to 30'  Very low return in cuttings of fill -probably packing inside on sidewalls.
15					Same				Drilling rate approx. 5 min/f 900 psi Gray return air

	NN G		ENCE COF		ATION	TEST BORING LOG	BORING NO	BR-1
PROJ.	ECT	Ground	Water Co	ntami	nation	Study	SHEET 2 OF	2
CLIE	NT	Indust	rial Envi	ronme	ntal S	ystems, Inc.	JOB NO. 257	-4-2851
DEPTH FT.	CASING	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSF FICATION	GRAPHIC LOG	IDENTIFICATION	N	REMARKS
						Limestone	•	Chip samples only
25-								No detectabl variation in rock. Difficulty i blowing hole clean on 1/18/84 foam hole to clear cuitin
30		Run#1				Run #1 - 30.0'-35.0'  Limestone - Medium gray (I ately hard, slightly weath amounts of calcite staining small fractures. Medium bedded. Slightly styloling fossiliferous.	hered small ng along to thinly	Rec. = 86% RQD = 64% D-2 S-2 F-3
35-	,					Bottom of hole at 35.0' Monitoring well installed		0.01-30.01
1						1-grouted 4" steel casing 2- 5' bedrock open hole  Locking (4" diameter) cap on steel riser.	- 30.0'-35.	0.0'-30.0' O'

<i>5</i> 0			ENCE CO York (518				TEST	BORING	LOG	BORING NO	).
PRO	JECT	Grown	dwater C	ontami	nation	ı Stı	udy				BR-2
CLIE	ENT	Indus	trial En	vironm	ental	Sys	tems, In	с.		SHEET I OF	2
DRIL	LLING	CONTRA	ACTOR	Hanson	Well	Dri	lling &	Pump Co.	, Inc.	JOB NO. 25	7-4-2851
PUR	POSE	Geol	ogic Con	dition	s & We	211	Installa	tion		ELEVATION	172.73'
GRO	WONUX	ATER	-6				CASING	SAMPLE	CORE	DATUM MSL	
DA1	TE	TIME	DEPTH	CASING	TY	PE	Steel			DATE STARTED	1/18/84
1/23	3/84	9:30P	12'	216'	DIAME	TER	6"	·		DATE FINISHED	1/23/84
	3/84	2:15P	81'	216'	WEIG	тн				DRILLER ROS	y Mason
-14-	3,04	401	0.1	210	FAL	L.				RO	Casper/J. Wink
DEPTH FT.	CASING	SAMPLE	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI- FICATION	GRAPHIC LOG			DENTIF			REMARKS
	<u> </u>					F	ill - Sh	ale fine	and roo	ck rubble	
		-		7				r and C		≥10.0'	
				-		1		ay SILT a		≃20.0'	
				]		~		, , , , , , , , ,			
	<u> </u>	1	<b>-</b>	-							ı
				]							
			. `	-							
50		1									Drilled open
ŀ		1		1							hole-with Ingersoll
	ļ	Į į		]							Rand TH-60
				-							air rotary drill down
		1		<b>1</b>							to 148'
	<u> </u>	-		-							using a 6" roller bit.
100											
-50				-							
		1		<b> </b>							
		-		-							
				-							1/19/84
		1		7							Drove casing
150		1		-							to 140'. Dri ed to 200'.
	<u> </u>			1							Drove casing
											180', roller bit to rock a
											216'.
		1		-							
				<b> </b>							
200				<b>-</b>						* *	

DUI	NN G		ENCE COF		ATION	TEST BORING LOG	BORING NO	). BR-2
PROJ.	ECT	01	-1- 0- 11	<b>.</b>		1 711	SHEET 2 OF	
CLIE						1 Installation	JOB NO. 257-	
						ystems, Inc.	1300 //0. 23/	7-2031
DEPTH FT.	CASING	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6	UNIFIED CLASSF FICATION	GRAPHEC LOG	IDENTIFICATION	N	REMARKS
					2:	* • - • •	216.0'	Casing down 1
						<u>Limestone</u> - Medium gray (		Chip samples only
						-	237.0'	
						Bottom of hole at 237.0'		Drilled rock
250-						Monitoring well installed		6" hammer bit 216'-218'.
						1-6" steel casing - 0.0	'-217'	Void from
						2-6" open rock hole - 2	16'-237'	218'-222' (rate: appro:
								12 min/ft do
						Bolt on cap installed on	steel riser	to 227') (rate: approx
			,					8 min/ft from
								227'-229'). Soft seam at
_								231.1'-232.0
								Yoid at 234.5 236.8'.
				1				
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_			ORK (518	-		L.	TEST	BORING	LOG	BORING N	0.
PRO	JECT	Gro	undwater	Contam	inati	on S	tudy			7	BR-3
CLIE	NT	Inc	dustrial	Enviro	nment	al S	ystems,	Inc.		SHEET I OF	2
DRIL	LING	CONTRA						Pump Co.	. Inc.	JOB NO. 25	7-4-2851
PUR	POSE	Geolo	gic Cond						,	ELEVATION	180.03'
GRO	UNDW	ATER	<u> </u>		_	$\overline{}$	CASING	SAMPLE	CORE	DATUM MSL	
DAT	Έ	TIME	DEPTH	CASING	TYP	Έ	Steel				1/23/84 .
2/2/	84	1:30 P	13.4'	14.5'	DIAME	TER	4"			DATE FINISHED	•
2/3/		12:00 P			WEIG	нт	<u> </u>			DRILLER R	loy Mason
. <i>j . j</i> j	**	12.00 1		14.7	FAL	L					. Casper/J. Win
DEPTH FT.	CASING	SAMPLE	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI- FICATION	GRAPHIC LOG		l I	DENTIF	ICATIO		REMARKS
2		σz	B W	30 =	<u> </u>	Br	(Glaci	T and CLA olacustr: '-4.5')			No Sample (0.0'-4.5')
5						<u>L</u> :	imeston	<u>e</u>		4.5'	Rock at 4.5' drilled open hole with Ingersoll Rand TH-60 air rotary drill down to 14.5' Chip sample of
5 -		Run #1				Linto sl fa	mestone thinly ightly ces and dividua	bedded, stained a coarser l beddin clasts	m gray modera along f graine g surfa	tely hard ractured sur d between ces.	4" steel casing set with bense grout from 1.0 14.5'.  Rec. = 100% RQD = 96% -D-2 S-2 F-2-3

DUI	NN G		ENCE COF		ATION	TEST BORING LOG	BORING NO	). BR-3	
ROJ	ECT	Ground	dwater Co	ntami	nation	Study	SHEET 2 OF	2	
LIEN	iT.					vstems, Inc.	JOB NO. 257-	257-4-2851	
DEPTH FT.	CASING					IDENTIFICATION		REMARKS	
		Run #2				Run #2 - 19.0'-24.0' Limestone - (Same) Void or from 23.0'-23.4', not as	fractured.	Rec.= 98% RQD = 94% D-2 S-2 F-2	
5		Run #3				Run #3 - 24.0'-29.0' Limestone - (Same) Slight stylolitic at 24.0', weath brown fracture at 26.8'	ly	Rec. = 96% RQD = 96% D-2 S-2 F-3	
0 -		Run #4				Run #4 - 29.0'-34.0' Limestone - (Same)	-	Rec. = 100% RQD = 100% D-2 S-2 F-3	
35						Bottom of hole at 34.0'  Monitoring well installed 4" steel casing with 20': 1-4" steel casing - 0.0 2-Grout seal - 1.0'-14.3 3-Rock sleave - 14.5'-3	'-14.5' 5'		
						J Nock Bloave - 14.5 -5			
							~ *		

			ENCE CO			•	TEST	BORING	LOG	BORING NO	).
PRO	JECT	Grou	ndwater	Contam	inati	n St	udy				BR-4
CLIE	NT	Indu	strial E	nviron	mental	Syst	tems, In	ic.		SHEET I OF	2
DRIL	LING	CONTRA	ACTOR	- Hanson	Well	Dril:	ling & 1	Pump Co.	, Inc.	JOB NO. 25	7-4-2851
PURF	POSE	Geolo	gic Cond	itions	& Wel	ll In	stallat	ion		ELEVATION	177.95'
GROL	JNDW	ATER	_	-		CASING SAMPLE CORE DATUM MS					
DAT	Ε	TIME	DEPTH	CASING	TYI	PE ,	Steel		NX	DATE STARTED	2/2/84
2/3/8	84	11:30P	2,95	15.0'	DIAME		4" ID		2" ID	DATE FINISHED	
,,,,,	WI						300 lbs			DRILLER ROS	y Mason
	$\neg$				FAL		30"				Casper/J. Winl
DEPTH FT.	CASING	SAMPLE	BLOWS ON SAMPLE SPOON PER 6"	INIFIED ILASSI- ICATION	GRAPHIC LOG			DENTIF	ICATIO	•	REMARKS
2		S Z	B S	305	<u> </u>	Fi:	ll mate:	rial			(No sample)
5							own SIL	I and CL	AY	3.0' 6.0'	(No sample)  Drilled with Ingersoll-Rand TH-60. Chip samples only-soft sear 7'-8'.  Set 4" steel casing down to 15.0'. Benseal grout 15.0'-2.0.
15		Run #1				Lin to alo bed wit	thinly ong smadding poth local	bedded, ll fract	m gray slight ures an Very fi asts of	(N5) medium ly stained d individual ne grained	Soft seam at 15.0' Rec.= 100% RQD = 92% D-2 S-2 F-3

DUI	NN G		ENCE COF		ATION	TEST BORING LOG	BORING NO	). BR-4
PROJ	ECT	Groun	dwater Co	ntami	nation	Study	SHEET 2 OF	2
CLIE	NT	Indu	strial En	viron	mental	Systems, Inc.	JOB NO. 25	7-4-2851
DEPTH FT.	CASING	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSIF FICATION	GRAPHIC LOG	IDENTIFICATION	N	REMARKS
		Run #2				Run #2 - 20.0'-25.0'  Limestone - (Same) styloli increase in fracturing bed planes	itic, Iding	Rec. = 100% RQD = 88% D-2 S-2 F-3
25 -		Run #3				Run #3 - 25.0'-30.0' Limestone - (Same) Not as	fractured	Rec. = 100% RQD = 96% D-2 S-2 F-3
во		Run #4				Run #4 - 30.0'-35.0' Limestone - (Same)		Rec. = 100% RQD = 96% D-2 S-2 F-3
35 <b>-</b>						Bottom of hole at 35.0' Monitoring well installed  4" steel casing - 0.0 20' open 3" rock hole	35.0' '-15.0' - 15.0'-30.	o'
<b>;</b> o −						Locking cap installed on a	steel -	

טט			ENCE CO				TEST	BORING	LOG	BORING NO	<b>)</b> .
PRO	JECT	Grou	ndwater	Contam	inatio	on S	tudy			1	UFT-1A
CLIE	ENT	Indu	strial E	nviron	nental	l Sy	stems, I	nc.		SHEET I OF	1
DRIL	LING	CONTRA	ACTOR	Soil &	Mate	rial	Testing	. Inc.		JOB NO. 25	7-4-2851
PUR	POSE	Monit	oring We					,		ELEVATION	206.85'
GRO	UNDV	VATER					CASING	SAMPLE	CORE	DATUM MSL	
DAT	rΕ	TIME	DEPTH	CASING	TY	PE	Flush	SS		DATE STARTED	
2/1/	/84	10:30AM	.6'	4.0'	DIAME	1 1 3 1 1					
				,,,	WEIG	тн		140 lbs		1	ne VanBurkom
					FAI	L	24"	30"			effrey T. Wink
DEPTH FT.	CASING	SAMPLE	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI- FIÇATION	GRAPHIC LOG			DENTIF	CATIO	<u> </u>	REMARKS
			13	ML-		G	ray Fill				Rec. = 1.5
		S-1	_ <del>7</del>	CL						1.0'	pp = 2.75 tsf Moist
			5	_		В:	r \$&C 1	,mfG			
				5 ML						, medium	
ŀ		S-2		8 CL		<u>f:</u>	ine Grave	el; varve		(MT =CL)	
-		ļ	1	5 ML			ame; SL v	varved	IKIKL	4.6'	Rec. = .9' pp = 3.0 tsf
.		S-3	11 100/,1	- CL			ottom of		4.6'	4.0	WET
5				]							Rec. = .6'
ŀ		┥		-		Mo	nitoring			d <b>–</b>	pp = 1.75tsf
ļ		]		]		1.		eaded PVC		d filter fab	WET ric - 2.0'-4.0
				-		2.	. Sand i	filter pa	ack - 1	.5'-4.6'	
l		1 1		]		3.	. Bentor . Cement	ifte pel: : Grout •	lets - : - 0.0'-:	1.0'-1.5' 1.0'	
- }		<b>↓</b> ∤		-							
,,				-		5	' protect ver 3.1'	ive cas:	ing ins	talled	
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			ENCE CO			'	TEST	BORING	LOG	BORING N	0.
PRO	JECT	Gro	undwater	Conta	ninati	ion S	Study				DFT-3
CLIE	ENT	Ind	lustrial	Enviro	nmenta	1 S	ystems,	Inc.		SHEET I OF	5
DRIL	LING	CONTR	ACTOR	Soil &	Mater	rial	Testing	, Inc.		JOB NO. 25	57-4-2851
PUR	POSE	Geo	ologic Co	ndítio	ns & V	Vell	Install	ation		ELEVATION	169.76'
GRO	UNDW	ATER					CASING	SAMPLE	CORE	DATUM	MSL
DAT	ΤE	TIME	DEPTH	CASING	TYI	PE	Flush	SS	-	DATE STARTE	1/12/84
					DIAME	ŢER	3				
					WEIG	HT 300 lbs 140 lbs DRILLER Duane Van					ane VanBurkom
					FAL	L	24"	30"	INSPECTOR	Weffrey T. Wink	
DEPTH FT.	CASING	SAMPLE	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI- FICATION	GRAPHIC LOG			DENTIF	ICATIO		REMARKS
		S-1	45 110 19 7	GP		Dk	Br cmfG	s, cmfS			Rec. = 1.6' pp = <.5 tsf Hard =.5 of fr
		S-2		Bk cmfS Brown, and gray GRAVEL some, coarse fine Sand, little Silt & Clay (GM)							Rec. = .1' pp = <.5 tsf Moist
5 -		S-3	2 2 4 7	MLCL		Br	, gr \$&	(FILL) C; vvd.			Rec. = .6' pp = 2.5 tsf Moist
		S-4	1	3 5 ML- 8 CL 2		Bro	own, gray	s, fS; n SILT & led and LACIOLACI	CLAY tra		Rec. = 1.4' pp = 4.25 tsf WET
		S-5	6 8 10 11	ML- CL		Sar	ne; 1 fS				Rec. 1.3' pp = 3.25 tsf WET
10 -		S-6		5 7 SM- 7 SC		10.		\$&C ' - Br m ' - Br,			Rec. = 1.4' pp = 2.0 tsf WET
		S-7	4 6 6 5	CT				vvd., o	cc. \$ 1 <u>9</u>	yr.	Rec. = 1.6' pp = <.5 tsf Silt layer @ 12.9'-13.2'
5 -		S-8	I III D	3 2 CL 1 1		Sar		s - <del>-</del>			Rec. = 1.6' pp = <.5 tsf WET Silt layer @ 14.6'-15.5'
		S-9	WHR WHR							Rec. = 1.1' pp = <.5 tsf WET	
20				]						* *	Ice rafted gravel

			ENCE COI		411011	TEST BORING LOG	BORING NO.		
ROJ	ECT	Groun	dwater Co	ntami	nation	Study	SHEET 2 OF	5	
LIE	NT	Indu	strial En	viron	mental	Systems, Inc.	JOB NO. 257	-4-2851	
DEPTH FT.	ĊASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6	UNIFIED CLASSH FICATION	GRAPHIC LOG	IDENTIFICATION	N	REMARKS	
		S-10	WRH WRH WRH	ML- CL		Gr br \$&C vvd, occ. thin \$ seam, freq. brown	varves	Rec. = 1.9' WET pp = <2.5 ts	
						Gray brown SILT & CLAY; von frequent seams and parting frequent brown varves (MICLACIOLACUSTRINE)	gs of Silt		
25-		S-11	WRH WRH WRH WRH			Same		Rec. = 1.8' WET pp = <.25 t	
30-		S-12 S-12A	WRH 1 1 1	ML- CL		Same Gr br \$ a(-), fS	31.5 <b>'</b>	Rec. = 1.8' WET pp = <.25 t	
35		S-13		ML- CL		Gr br \$&C vvd, freq. sear partings \$	ns and	Rec. = 2.0' WET pp = <.25 ts	
40-		S-14	WRH 1 2 2	ML- CL		Gr br \$&C vvd, freq. part Cy\$	tings	Rec. = 2.0' WET pp = <.25 te	

DUI	NN G		ENCE COI		ATION	TEST BORING LOG	BORING NO	DFT-3	
PROJ	ECT	Groun	dwater Co	ntami	nation	Study	SHEET 3 OF	5	
CLIE	NT			-		Systems, Inc.	JOB NO. 257	257-4-2851	
DEPTH FT.	CASING	SAMPLE NO.	BLOWS ON SAMPLE \$POON	UNIFIED CLASSF FICATION	GRAPHIC LOG	IDENTIFICATION	N .	REMARKS	
		s-15	WRH 1 2	ML- CL		Same; occ. thin seam Cy\$		Rec. = 2.0' WET pp =<.25 tsf	
50-		S -16	2 2 WRH 1	ML- CL		Same		Rec. = 2.0' WET pp = <.25 tsf	
55-		S-17	1 2 1	ML- CL		Same Gray brown SILT & CLAY; va frequent Silt seams and pa frequent brown varves (ML- (GLACIOLACUSTRINE)	artings,	Rec. = 2.0' WET pp = <.25 tsf	
60-		S-18	3 2 1 2	ML- CL		Same		Rec. = 2.0' WET pp = <.25 tsf	
65		S-19	4 3 2 2 2	ML- CL		Same	~ *	Rec. = 2.0' WET pp = <.25 tsf	

PROJE	CT	Grow	dwater Co	n t ami	nation	Study	SHEET 4 OF	DFT-3		
CLIEN						Systems, Inc.		OB NO. 257-4-2851		
DEPTH FT.	CASING	SAMPLE NO.	N N N N N N N N N N N N N N N N N N N	UNIFIED CLASSF FICATION	PHIC	IDENTIFICA		REMARKS		
		S-20	6 4 3 2	ML- CL		Same		Rec. = 2.0' WET pp= <.25 tsf occ. stiffer C seams		
75		S-21	4 3 3 2	CL		Same		Rec. = 2.0' WET pp = <.25 ts		
30		S-22	4 3 3 4	ML- CL		Same	-	Rec. = 2.0' WET pp = <.25 ts		
35 —		S-23	2 2 2 3 3	ML-		Same		Rec. = 1.9' WET pp = <2.5 ts		
90 -		S-24	2 3 3 4	ML- CL		Same				

DUNN		ENCE COI		ATION	TEST BORING LOG	BORING NO	DFT-3
PROJECT	Gro	ındwater	Conta	minati	on Study	SHEET 5 OF	5
CLIENT					Systems, Inc.	JOB NO. 257	-4-2851
DEPTH FT. CASING		W.S.	UNIFIED CLASSF FICATION		IDENTIFICATION	N .	REMARKS
100	s-25	3 2 3 2 P U S H	보다		Bottom of Hole at 100.0'  Backfilled with alternating of shale fines and benton 100.0'-9.0'  Bentonite seal at 9.0'-7.0 Silica Sand at 7.0'-1.5'  Well screen - 2" PVC with many at 7.0'-2.0'  Bentonite seal at 1.5'-1.0 Cement grout at 1.0'-0.0'  Installed protective casing lock cap	ite at	Rec. = 2.0' WET pp = <.25 tsf

			ENCE CO				TEST	BORING	LOG	BORING NO	).
PRO	JECT	Gro	undwater	Contar	ninati	on	Studv			1	DFT-4
CLIE	NT						vstems.	Inc.		SHEET I OF	1
DRIL	LING	CONTRA					<u>i</u> al Test:			JOB NO. 257-	-4-2851
PUR	POSE	Moni	toring W							ELEVATION	171.42
GRO	UNDW	ATER					CASING	SAMPLE	CORE	DATUM MS	
DAT	E	TIME	DEPTH	CASING	TY	PE	Flush	355 13" ID	~~	DATE STARTED	1/19/84
				•	DIAME	TER	4" ID	1/20/84			
				•	WEIG	нт	300 lbs	ne VanBurkom			
					FAL	L	24"	30"		1	effrey Wink
DEPTH FT.	CASING	SAMPLE	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI- FICATION	GRAPHIC LOG		11		REMARKS		
	P	S-1	53 52 33	GP		G	r mfG; sl	nale			Rec. = 1.0'
-	<u> P</u>	S-2	63			S	ame				Rec. = .5'
ŀ	P	3-4	100/.	4							
	P			<b> </b>							Tri-cone and washed
5 -	P			<u> </u>						5.0'	(3.0'-5.0')
	P	S-3	1 2	1		B	rown,darl	No recovery			
	P	S-4	19 24 28	3 ML-		~	(GI r, dk br	Rec. = 2.0' pp = >4.5 tsf			
	P		37	7		B	ottom of	Hole at	9.01	9.0'	
10		-		7			Backfille			)	
		-		7		Mo	onitoring	g well in	nstalled	- 2" PVC -	threaded
						1 2	Sand t	orotectivo back.	e filte	6.85' r fabric and	
				╡				•		ce 0.0'-1.4'	
15 -	1					4		ctive cas		talled over	
				-							
		-								~ >	
20 -		<u></u>									

DU			YORK (518				TEST	BORING	LOG	BORING NO	).
PRO	JECT	Gr	oundwate	r Cont	aminat	ion	Study				DFT-5
CLIE	ENT	Inc	lustrial	Enviro	nmenta	al S	ystems,	Inc.		SHEET I OF	1
DRIL	LING	CONTR	ACTOR	Soil	and Ma	ater:	ial <u>T</u> est:	ing, Inc	•	JOB NO. 25	7-4-2851
PUR	POSE	Mc	ntioring	Well	Instal	llat:	ion			ELEVATION	171.93
GRO	UNOV	VATER					CASING	SAMPLE	CORE	DATUM MS	L
DAT	ΓE	TIME	DEPTH	CASING	TY	PE	Flush	ss.		DATE STARTED	1/19/84
					DIAME	ETER	4" ID	$1\frac{3}{8}$ " ID		DATE FINISHED	1/23/84
					WEIG	ЭНТ	300 lbs	140 lbs		DRILLER D	uane VanBurkom
	[				FAL	.L	24"	30"		INSPECTOR Je	ffrey Wink
DEPTH FT.	CASING	SAMPLE	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI- FICATION	GRAPHIC LOG		10	ENTIF	ICATIO	N	REMARKS
	P P										No sample (0.0'-5.0')
	P P										Tri-cone and washed (0.0'-5.0')
5 -	P	S-1	20 10 7	GM			ray, brow	& Clay		GRAVEL 6.67	Rec. = .9' WET-stiff
		S-2	1	9 2 ML- 8 CL 2			own SILT	C & CLAY;	STRINE)	9.0'	Rec. = 1.1' pp = 2.5 tsf WET-stiff
10 +		1					outed ho			ite	
				7		Мс				d - 2" PVC tl	readed
						1.	2.0'-7	7.01		ter fabric	
				]		2.		ilter pa			
ŀ		1		_		3.		ite pell			
15 +		-		-				_		ace 0.0'-1.0	l
				]			otective ser	casing	instal	led over PVC	
				1 [						~ *	
- 1			<u> </u>	-l							

	JECT		YORK (518 indwater			77. 5		BORING ———		BORING N	DFT-6
	NT	0100								SHEET I OF	
		CONTRA	ustrial ACTOR				ystems. l Testin				7-4-2851
	POSE							g, Inc.	_	ELEVATION	
		Mon ATER	itoring	Well I	nstal.	lati	CASING	SAMPLE	CORE		175.21' ISL
DAT		TIME	DEPTH-	CASING	TY	PE			CORE	DATE STARTED	
					DIAME		Flush 4" ID	13" ID		DATE FINISHED	1/23/04
1/23	3/84	3:30PM	4.0'	5.0'	WEIG						
			· · · · ·		FAI			140 1bs			uane VanBurkom
	(2.0	w œ	ш			<u> </u>	24"	30"		INSTECTOR G	ary D. Casper
DEPTH FT.	CASING	SAMPLE	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI- FICATION	GRAPHIC LOG		11	DENTIF	CATIO	N	REMARKS
	P										No sample (0.0'-5.0')
	p			-							<b>.</b>
	· ·	1		<b>-</b>							Tri-coned and
	P	} i		-							(0.0'-5.0')
	P	]		<b>-</b>							
	P			-							
5		5-1A [	21	GP		L	Cray hr	own medi	ım fina	_5.5'	Rec. = 2.0'
		S=18_1	9	-		ı ١ —	GRAVEL (G			<del></del> /	Moist Oily smell to
		S-1B	12	CL				ioturbate ty CLAY;			of Silt
		S-2	i	2 CL	,					LACUSTRINE)	Rec. = 2.0' Moist
		]		1 2		S	ame; vvd	•		9.0'	1.0101
						B	ottom of	Hole at	9.0'	9.0	†
10 –				-		_	ackfille rout	d to 7.0	' with 1	bentonite	
		†		<u> </u>				g well i	nstalle	d - 2" threa	ded PVC
		-					. Scree	ned PVC	well and	d filter fab	ric 2.0'-7.0'
				<b>   </b>			<ul> <li>Sand</li> <li>Bento</li> </ul>	filter p	ack 1.5 lets 1	'-7.0' 0'-1.5', 7.0	-9.0'
				-			. Cemen	t grout	0.0'-1.0	0'	
		1		<b>   </b>				e casing	instal	led over	
15 -		-		-		P	VC riser	•			
		-		7							
				-							
				7							
						1					ŀ
		1		<u> </u>							

		ENCE CO			TEST	BORING	LOG	BORING NO	).
PROJECT	Grou	ndwater	Contam	inatio	n Study				DFT-7
CLIENT	Ind	ustrial	Enviro	nmenta	1 Systems,	Inc.		SHEET I OF	1
DRILLING	CONTRA	ACTOR	Soil &	Mater	ial Testing	. Inc.		JOB NO. 25	7-4-2851
PURPOSI	Moni	toring W						ELEVATION	173.30'
GROUND	WATER				CASING	SAMPLE	CORE	DATUM	MSL
DATE	TIME	DEPTH	CASING	- TYI	Flush	<del>- 5</del> 5		DATE STARTED	1/25/84
L/25/84	10:00P	5.8'	8.0'	DIAME	TER 4" ID	$1\frac{3}{8}$ " ID	-	DATE FINISHED	1/25/84
				WEIG	энт <sub>300 1bs</sub>	140 lbs	-	DRILLER Du	ane VanBurkom
				FAL	L 24"	30"		INSPECTOR	Jeffrey T. Wink
DEPTH FT. CASING BLOWS	SAMPLE	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI- FICATION	GRAPHIC LOG	11	DENTIF	CATIO	N	REMARKS
Р									No sample (0.0'-5.0')
P	-		7						Tri-coned and washed
P	7		<b>1</b>						(0.0'-5.0')
F	-	<del></del>	-						
5 P	S-1	24 39 48 34	GM- GC		Gray coars Gray coars Silt & Cla	e to fin	e Grave	L little, l, little	Rec. = 1.0' pp = <.5 tsf WET
10	S-2		5 7 CL 6 9		fine Grave	l; varve ACIOLACU	d (ML- STRINE)		Tri-coned and washed (7.0'-6 Rec. = 1.1' pp= 3.0 tsf Moist
15					1. Screen	well in ed PVC w - 3.0'- ilter pa ite pell grout - casing	stalled ell and 8.0' ck - 2. ets - 2 0.0'-2	9'-10.0' 0'-2.9'	readed

	LATHA	AM, NEW	ENCE CO				TEST	BORING	LOG	BORING NO	).
	JECT	Gro	undwater	Contam	inatio	on S	tudy				DFT-8
CLIE			ustri <u>al</u>	Environ	mental	1 Sy	stems.	Inc.		SHEET I OF	1
DRIL	LING	CONTR	ACTOR S	oil & M	ateria	al I	esting.	Inc.		JOB NO. 25	7-4-2851
PURF	POSE	Mon	itoring	Wel <u>l In</u>	stalla	atio	n			ELEVATION	171.49'
GROL	JNOW	ATER					CASING	SAMPLE	CORE	DATUM M	SL
DAT	Ε .	TIME	DEPTH	CASING -	TYP	Ε	Flush	SS		DATE STARTED	1/23/84
					DIAMET		4" ID	$1\frac{3}{8}$ " ID		DATE FINISHED	1/23/84
					WEIGH			140 1bs		DRILLER Dua	ne VanBurkom
					FALL		24"	30"			effrey T. Wink
	စ္တ	w ec	(0 W.Z=	o ≟ ≊	ပ္		24				
DEPTH FT.	CASING	SAMPLE	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI- FICATION	GRAPHIC LOG		11	DENTIF	ICATIO	N	REMARKS
5	P P P P	S-1 S-2A S-2B S-3	14 14 8 9	GM- GC 7 GM- 4 GC 7 ML- CL		Gr Grasil Sam Br, Bro	gr S&C	5.0'	No sample (0.0'-2.0') Tri-cone and washed (0.0'-2.0') Rec. = 1.1' pp = <.5 tsf WET Rec. = 1.0' pp = 3.5 tsf Moist Rec. = .3' pp = 4.5 tsf Moist		
!5						1. 2. 3. 4.	Screen 2.0'-7 Sand f Benton Cement 0.0'-1	ed PVC a. 0' ilter pa ite pell bentoni .0' casing	nd filte  ck - 2.0  ets - 1.  te groun	.0'-2.0' to surface	
-										* *	

....

DU			E <b>NCE C</b> ( YORK (518			TEST	BORING	LOG	BORING NO	).
PRO	JECT	Gro	undwater	Contar	ninati	on Study			1	DFT-9
CLIE	NT			-		l Systems,	Inc.		SHEET I OF	1
DRIL	LING	CONTRA				rial Testin			JOB NO. 25	7-4-2851
PUR	POSE	Moni	toring W						ELEVATION	172,11'
GRO	UNDY	NATER		· · · · · · · · · · · · · · · · · · ·		CASING	SAMPLE	CORE		SL
DAT	ΓE	TIME	DEPTH	CASING	TYP	E Flush	SS		DATE STARTED	1/26/84
1/26	784	10:00P	4.5'	5.0'	DIAME		$1\frac{3}{8}$ " ID		DATE FINISHED	1/27/84
		11:00P	4.5'	5.0'	WEIGI		140 1bs		DRILLER Dun	ne VanBurkom
<u> </u>	704	11,001	7.2	2.0	FAL		30"		INSPECTOR	Jeffrev T. Wink
DEPTH FT.	CASING BLOWS	SAMPLE	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI- FICATION	GRAPHIC LOG		DENTIF			REMARKS
_						Gray fill				No sample
	P	-		7		,				(0.0'-2.0')
	P			<b>_</b>					2.0'	Tri-cone and w NX Core (2.0'-
	P			-	,	74			. د بید د خان دیا کے کے	Rec. = 2.0'
		1		_		Limestone	- snot r	CK		RQD = 0.0' D -3
	P	-		-					4.0'	S-3 F-4
5 -	P					Gray, blac		fine G	RAVEL	
5			65	GC		(GP)	(FILL)		_6.0'	Rec. = .6' pp = 4.5 tsf
		S-1	70 23	CL	-	Br \$&C 1 m	fG; m	tld (6.0		WET
			17	8 6		Brown, gra				Rec. = 1.6'
		S-2		3 ,		mottled an	d varved	(ML-CL		pp = 4.5 tsf
				.8 27		(GL Br, gr \$&	ACIOLACU	STRINE)	9.0'	WET
				<u>'</u>		Bottom of		9.0'	7.0	
10 -		-		-					- 2" thread	d PVC
				_						c 4.0'-9.0'
				-			ilter pa			
		7		╡			ite pell			
		-		$\dashv$ $\mid$			grout -			
		_		<b>-</b>			_			
				$\dashv$ $\mid$		5' protect 2.8' PVC r		ng inst	alled over	
15 -				<u> </u>			- •			
		-		$\dashv$ $\mid$						
				_						
		$\dashv$		$\dashv$					** *	
20 -			•							

	LATHA	M, NEW	YORK (518	783-61	02		.51	BORING	LUG	BORING NO	
PRO	JECT	Grou	ndwater	Contam	inatio	n Study	,				DFT-10
CLIE	ENT	Ind	ustrial	Enviro	nmenta	1 Syste	ems,	Inc.		SHEET I OF	1
DRIL	LING	CONTRA	ACTOR	Soil &	Mater	ial Tes	sting	Inc.		JOB NO. 257	-4-2851
PUR	POSE	Monit	oring We	ll Ins	tallat	ion				ELEVATION	178.21
GRO	UNDW	ATER				CAS	SING	SAMPLE	CORE	DATUM MS	L
DAT	TE .	TIME	DEPTH	CASING	TYI	PE Flu	ish	SS		DATE STARTED	1/26/84
		·			DIAME	TER 4"	ID	$1\frac{3}{8}$ '' ID		DATE FINISHED	1/26/84
					WEIG	300 30C	lbs	140 lbs	., .	DRILLER Dua	ne VanBurkom
					FAL	L 24'	•	30"		INSPECTOR J	effrey T. Wink
DEPTH FT.	CASING	SAMPLE	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI- FICATION	GRAPHIC LOG		11	DENTIF	CATIO	N	REMARKS
				7		Gray	fill				No Sample (0.0'-3.0')
	Р			] [							Tri-cone and
	P	-		-				(FILL)			washed (0.0'-
	Р									3.0'	
	P	S-1	9	ML-				C 1, mfG ay SILT		SOME	Rec. = 1.1' pp = 4.5 tsf
		3-1	7			medi:	ım fi	ne Grave	l: slig	htlv	Moist
5 -	P		7	8				CL) (GL	ACIOLAC	USTRINE)	
	P	S-2		O ML-		Br, g	gr \$&	C a, mfG			Rec. = .3'
	P		$\frac{1}{3}$	7 CL				•		7.0'	pp = 2.0 tsf Moist
				<b>-</b>		Botto	om of	Hole at	7.01		
		1		-						d-2" threade	a PVC
		-		7		f	Eabri	ned PVC v c 2.0'-7	.0'		
10 -				_				filter pa nite peli			
				-				t grout			
		1		コー		-5' pr	otec	tive cas:	ing ins	talled over	
		1		-				riser.	5		
				]							
				<u> </u>							
				7							
15 -		1		<u> </u>							
		{		-							
				<b> </b>							
				-							
		1		<b> </b>							
		1		-						* *	
20 -		]		7							

LATHAM	NEW YORK (5)	B) 783-81	102		BORING		BORING NO			
PROJECT	Groundwater	Contam	inatio	n Study				DFT-11		
CLIENT	Industrial	Enviro	nmenta	l Systems,	Inc.		SHEET I OF	1		
DRILLING C	ONTRACTOR	Soil &	Mater	ial Testing	Inc.		JOB NO. 27	4-4-2851		
PURPOSE	Monitoring N	Well In	stalla	tion			ELEVATION	171.84		
GROUNDWAT	ER			CASING	SAMPLE	CORE	DATUM MSL			
DATE TI	IME DEPTH	CASING	TYF	Flush	SS		DATE STARTED	1/2//84		
	<b>-</b>		DIAME	·4 1D	1층" ID	• .		1/27/84		
			WEIG	HT 300 1bs	140 lbs		+	ne VanBurkom		
		<u> </u>	FAL	L 24"	30"		INSPECTOR J	effrey T. Wink		
DEPTH FT. CASING BLOWS	SAMPLE NUMBER BLOWS ON SAMPLE SPOON BEB 6"	UNIFIED CLASSI- FICATION	GRAPHIC LOG	11	DENTIF	ICATIO	N	REMARKS		
	3-2	ML- CL 5 ML- 22 38	Run#1	Bottom of  1. Screen  2. Sand  3. Benton  4. Cemen	2.0'-5 Shot : .0') AY  mfG; (Fil: .6 CLAY - CL) LACIOLACI mtld  Hole at ned PVC ; filter penter p	1) little USTRINE  9.0' pipe and ack - 2 lets 0.0'-	5.5' medium  9.0' d filter fab: .0'-7.0' 1.0'-2.0'	No Sample (0.0 Tri-cone and washed (0.0'-2.0') Rec. = 2.0' RQD = 0% D-2 S-3 F-4 Rec. = .25' pp = <.5 tsf WET Rec. = 1.3' pp = >4.5 tsf WET		

## **ATTACHMENT III**

## STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION

In the Matter of Alleged Violation of Part 360 of Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York ("6 NYCRR") by

ORDER ON CONSENT

INDUSTRIAL ENVIRONMENTAL SYSTEMS, INC.

Respondent.

## WHEREAS:

- l. Respondent owns and operates a storage facility in the Town of Saugerties, County of Ulster, State of New York (the facility), which facility is used to accept for and dispense to Northeast Solite Corporation fuels used in the production of lightweight aggregate.
- 2. The fuel stored by Respondent is non-conforming fuel (defined for purposes of this Order as solvents, crankcase oils, lubricating oils and all other organic materials which do not constitute conforming fuels defined for purposes of this Order as coal, distillate fuel oil, residual fuel oil or gas which conform to the limitations specified in 6 NYCRR 225), made up primarily of spent solvents.
- 3. The component chemicals of the fuels stored by Respondent may pose a threat to the environment if improperly stored or handled.
- 4. The Department alleges that storage by Respondent of spent solvents constitutes the operation of a hazardous waste storage site requiring a permit pursuant to Section 360.8(a)(17) of 6 NYCRR.
- 5. The Department alleges that Respondent has neither applied for nor received the permit required by Part 360 of 6 NYCRR.

6. Section 360.8(a)(18) provides, in pertinent part:

"Records shall be maintained at every facility receiving hazardous wastes detailing the physical and chemical nature, origin, quantity, disposal location within the facility, disposal method for said wastes, and such other information as the department may require."

- 7. Pursuant to Section 71-1503.1 of the ECL, a violation of Part 360 of 6 NYCRR subjects the violator to a penalty of up to two thousand five hundred dollars and an additional penalty of up to one thousand dollars for each day during which such violation continues, and, in addition thereto, the violator may be enjoined from continuing such violation.
- 8. By Notice of Hearing and Complaint dated May 12, 1981, Department commenced formal administrative proceedings against Respondent for the violation of Part 360 of 6 NYCRR alleged herein. Said proceedings were commenced by Department for the purpose of obtaining an order directing Respondent to undertake remedial measures Department believes are necessary to protect the environment and public health. The execution of this Order has obviated the need for such formal proceedings.
- 9. Respondent has affirmatively waived its right to notice and hearing on these matters in the manner provided by law, and consents to the issuance and entry of this Order.
- 10. Respondent, by its consent to the issuance and entry of this Order, does not admit to any violation of law, rule or regulation.

NOW, having considered this matter and being duly advised, it is ORDERED that:

I. Respondent agrees to pay to the Department, on demand, a contempt penalty of one hundred dollars (\$100.00) per day for each day that Respondent exceeds any deadline imposed herein; provided, however, that the total contempt penalty assessed for violations of this Order shall not exceed three thousand dollars. The imposition of such contempt penalty in no way suspends the right of the Department to proceed with the imposition of any other penalty or fine pursuant hereto or to any applicable law, rule, regulation or order. Any determination by the Department or its duly authorized representative

regarding the assessment or amount of a contempt penalty pursuant to this Order shall be subject to judicial review in a proceeding brought pursuant to Article 78 of the New York Civil Practice Law and Rules.

- II. Respondent shall comply with each of the requirements set forth in the Schedule of Compliance, hereby incorporated herein and made a part hereof.
- III. Any violation alleged by the Department herein to have been committed by Respondent shall constitute a continuing alleged violation. However, the Department shall not institute any action or proceeding for penalties or other relief pursuant to law on account of any of such alleged violation for as long as Respondent adheres to and fully complies with the terms, provisions and conditions of this Order.
- IV. For the purpose of insuring compliance herewith, duly authorized representatives of the Department shall be permitted access during reasonable business hours to Respondent's premises or facilities covered by this Order for the purposes of inspection and the making of such tests as may be deemed necessary to determine the status of Respondent's compliance herewith.
- Respondent shall not be in default of compliance with this Order if Respondent is unable to comply with any provision of this Order because of the action of a national, state, local government body or court, the act of the Department, an act of God, war, strike, riot or catastrophe as to any of which the negligence or willful misconduct on the part of Respondent was not the proximate cause. Further, Respondent shall not be in default of compliance with this Order if Respondent is unable to comply with any provision of this Order because of the action of a third-party who is not an agent of Respondent as to which the negligence or willful misconduct on the part of Respondent was not the proximate cause. For purposes of this Order, commercial laboratories performing analysis for Respondent and/or Department shall not be deemed agents of Respondent. Respondent shall apply in writing to the Department immediately upon obtaining knowledge of such event and request an appropriate modification to this Order.
- VI. If, for any reason, Respondent desires that any provision of this Order be changed, Respondent shall make timely written application therefor to the Department setting forth reasonable grounds for the relief sought. No change or modification to this Order shall be made or be effective except as may be specifically set forth in writing by such Department upon

timely written application by Respondent for the relief sought. The Department shall approve or disapprove every application for modification of this Order within thirty days of receipt of said application by the Department. Such modification requests not approved or disapproved within thirty days shall be deemed to be approved. Any approval, disapproval or other determination made by the Department or its duly authorized representative with respect to an application for modification of this Order shall be subject to judicial review in a proceeding brought pursuant to Article 78 of the New York Civil Practice Law and Rules.

VII. All reports and submissions herein required shall be made to the Region 3 Headquarters, New York State Department of Environmental Conservation, 21 South Putt Corners Road, New Paltz, New York, 12561. Attention: Paul D. Keller, Regional Director.

VIII. The provisions of this Order shall be deemed to bind Respondent, its officers, directors, agents, employees, successors and assigns, and all persons, firms and corporations acting under or for it.

IX. Any approvals, disapprovals or other determinations made by the Department or the Commissioner (or their duly authorized representatives) pursuant to this Order shall be subject to judicial review pursuant to Article 78 of the New York Civil Practice Law and Rules.

X. If, for any reason, judicial review pursuant to Article 78 of the New York Civil Practice Law and Rules is not available to Respondent, the approval, disapproval or other determination for which judicial review was unsuccessfully sought shall be subjected to binding arbitration by an arbitrator acceptable to both the Department and Respondent.

Dated: Albany, New York

Oug. 10, 1981.

ROBERT F. FLACKE, Commissioner New York State Department of Environmental Conservation

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Вy

TO: INDUSTRIAL ENVIRONMENTAL SYSTEMS, INC.
c/o David E. Evans, Esq.
McGuire, Woods & Battle
1400 Ross Building
Richmond, Virginia 23219

cc: NORTHEAST SOLITE CORPORATION
P. O. Box 437
Kings Highway
Mount Marion, New York 12456

Attention: Mr. John Bragg

cc: SOLITE CORPORATION
P. O. Box 27211
Richmond, Virginia 23216

Attention: Mr. Edgar Martin

#### CONSENT BY RESPONDENT

Respondent hereby consents to the issuing and entering of this Order, waives its rights to notice and hearing herein,-and agrees to be bound by the provisions, terms and conditions contained herein.

INDUSTRIAL ENVIRONMENTAL SYSTEMS,

STATE OF COUNTY OF

On this Anday of July , 1981, before me personally came & & Markin , to me know, who being

by me duly sworn, did depose and say that he resides in

Richmond, Vengenia, that he is Vice President of

INDUSTRIAL ENVIRONMENTAL SYSTEMS, INC., the Corporation described in and which executed the foregoing instrument, and that he signed his name as authorized by said Corporation.

Notary Public Sn. Tuylon

My Commission Expires March 25, 1985

#### SCHEDULE OF COMPLIANCE

In order to comply with Article 27 of the ECL and the Rules and Regulations promulgated thereunder, and to assure proper storage and control of non-conforming fuels, Respondent shall perform the following remedial measures:

- I. A spill prevention, control and countermeasure plan shall be immediately developed and implemented in accordance with federal regulations (40 CFR 265, Subparts C and D).
- II. Within ten days of their receipt, Respondent must forward to the Department copies of all federal manifest forms received by the Respondent pursuant to the Rules and Regulations promulgated pursuant to the Federal Resource Conservation and Recovery Act.
- III. By August 15, 1981, Respondent shall propose to the Department, for the Department's approval, a site for the installation of one groundwater monitoring well downgradient of the facility. Within 21 days after receipt of the Department's approval, Respondent shall install the monitoring well downgradient of the facility. Said well shall be installed in accordance with the Department's approval. The downgradient well shall be sampled bi-monthly. All samples will be grab samples and shall be analyzed for concentrations of the following parameters (detection limits are bracketed; ug/1 = micrograms per liter, mg/1 = milligrams per liter, and pc/1 - picocuries per liter):

Aluminum (10 ug/l) Arsenic (10 ug/l) Barium (10 ug/1) Benzene (10 ug/1) Cadmium (10 ug/1) Chloride (2 mg/l) Chromium (Hexavalent) (50 ug/1) Copper (10 ug/1) Cyanide (2 ug/1) Flouride (100 ug/1) Foaming Agents (25 ug/1) Iron (10 ug/1) Lead (10 ug/1) Manganese (10 ug/l) Mercury (10 ug/1) Nickel (10 ug/1) Nitrate (50 ug/1) Oil and Grease (1 mg/l) PCB (0.05 ug/1)

pH (0.1 su)
Phenols (1 ug/l)
Radioactivity (1000 pc/l Gross Betain absence of Strontium 90 and
Alpha emitters; 3 pc/l Radium 226;
10 pc/l Strontium 90)
Selenium (10 ug/l)
Silver (10 ug/l)
Sulfate (2 mg/l)
Sulfide (200 ug/l)
Toluene (10 ug/l)
Xylene (10 ug/l)
Zinc (10 ug/l)

\*Total Chlorinated Organics (Gas Chromotography with Electron Capture Method) (1 ug/1)

\*\*Hydrocarbon Scan (Gas Chromotography with Mass Spectroscopy Detection Method) (1 ug/1)

- \*All substances detected at concentrations of 1 microgram or greater, expressed as Lindane, shall be identified.
- \*\*All substances detected at concentrations of 1 microgram or greater, expressed as Iso-octane, shall be identified.
  - IV. As an alternative to III above, Respondent must, by August 1, 1981, prove to the satisfaction of the Department that the groundwater has not and will not be contaminated by Respondent's operations and, therefore, monitoring wells are unnecessary.
  - V. Respondent shall file a completed application by no later than August 15, 1981, for a permit to operate a solid waste management facility for the storage of hazardous wastes. The application should address all aspects of the applicable provisions of 6 NYCRR Part 360 and 40 CFR 265.
  - VI. Respondent shall not store or accept for storage PCBs, insecticides, pesticides or radioactive materials.
  - VII. Respondent shall develop and submit to the Department not later than August 15, 1981, a plan in a form acceptable to the Department which

assures that by September 1, 1981, fuels supplied to Northeast Solite Corporation at all times conform to the criteria specified in paragraph 3(G) of the Order on Consent executed by Northeast Solite Corporation of even date herewith.

# **ATTACHMENT IV**

		FORMER INC	FORMER INDUSTRIAL ENVIRONMENTAL SYSTEMS, INC. FACILITY MOUNT MARION, NEW YORK SEPTEMBER 1983 TO JUNE 1988	ENTAL SYSTEMS, INC. 4, NEW YORK 1TO JUNE 1988	FACILITY			
	UFT-1			UFT-1A				
PARAMETERS	SEPT 1983	NOV-DEC 1983	JAN-FEB 1984	JUNE 1984	MAY 1985	FEB 1985	AUG 1985	NOV 1985
ACETONE	;	;	;	;	:	:	. 1	-1-
1-1-DICHLOROETHANE	ı	;	•	:		٠	;	1
TRANS-1,2-DICHLOROETHENE	e (	<b>.</b>	<b>.</b>	;	:	:	:	
CHLOROFORM METHYL ETHYL KETONE	e :	<b>,</b> ;	<b>.</b>	: :	: :	: :	: :	:
1,2-DICHLOROETHANE	13	26	;	c.	:	:	:	-/
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1,1,2,2.TETRACHLOROETHANE	ĸ	9	~		:	1 6	;	
TOLUENE	:	: :	: :	: :	: :	m:	: :	: /: -
ETHYL BENZENE MIXVIENE	: Y	¥X	¥ Z	¥X	Ą	Ϋ́	NA	. V
O-XYLENE O-XYLENE	٧×	NA	NA.	NA	N.	N	W	NA
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METHYLENE CHLORIDE	:	;	i	:	4.8	3.6	ŧ	/
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BENZENE	: :	: :	: :	: :	: :	: 1	: :	: :
1,2-DICHLOROPROPENE	:	:	:	:	:	:	ţ	/
1.2-DICHLOROPROPANE	:	:	:	:	:	:	:	/
CATBON TETRACHLORIDE	: :	: :	: :	: :	: :	: 1	: :	: /:
TRICHLOROFLUOROMETHANE	:	;	:	:	:	60	:	-/-
TRICHLOROFLUOROETHANE	:	:	:	:	:	:	:	:
CHLOROMETHANE	:	: :	: :	: :	: 1	: :	: :	: /:
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DICHLOROBENZENES	:	:	:	:	;	;	;	1
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1.2-DICHLOROBENZENE	:	:	:	;	;	:	:	
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ACETONE .	:	:	:			: '	1 (	:	1 / 1
1-1-DICHLOROETHANE	-	e	:	•	8	16	8	18.7	4/5
TRANS-1,2-DICHLOROETHENE	:		:	:	:	:	:	:	1
СНГОРОГОЯМ	:	:	:	:	:	:	:	•	/3.1
METHYL ETHYL KETONE	:	35	:		;	:	:	ı	-1-
1,2 DICHLOROETHANE	4	12	σ.	ž	<b>5</b>	31	=	8	15/11.5
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TRICHLOROETHENE	:	:	:	ı	;	ю	ю	æ	1
1, 1, 2. TRICH, OROETHANE	:	:	•	c	;	8	<b>6</b> 0	:	3/:-
METHYL ISOBUTYL KETONE	:	52	;	:	:	:	1	;	/
TETRACHLOROE THENE	:	:	:	:	:	æ	æ	ı	-/-
1.1.2.2. TETRACHLOROETHANE		2	:	;	:	;	:	:	/
TOLUENE	;	:	:	:	:	7	:		
FIHAL BENZENE	:	:	•	:	:	:	:	:	
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SNI IXX	Y.	N	VA	Ą	¥Z	NA	¥	¥	¥X
P.XYLENE	ΥN	NA.	NA	Ą	NA	NA	NA	<b>V</b>	<b>A</b> X
TOTAL XYLENE	:	:	:	:	:	ŧ	:	:	/
TETRAHYDROFURAN	:	:	:	:	:	:	:	:	/
ISOPROPYL ETHER	;	:	:	:	:	:	:	:	/
METHYLENE CHLORIDE	:	:		:	:	:	:	4.8	:-/:-
2-CHLOROE THYL-VINYL ETHER	:	:	:	:	:	:	:	:	-1-
BENZENE	:	:	:	:	:	:	<b>6</b> 0	<b>a</b>	1
CHLOROBENZENE	:	:	:	:	:	:	<b>6</b> 0	;	-1-
1.2.DICHLOROPROPENE		:	:	:	:	:	:	:	1
1.2-DICHLOROPROPANE	:	;		:	:	:	:		/
CARBON TETRACHLORIDE	:	:	:	:	:	:	:		/ 1.3
1,2. DICHLOROE THENE	:	:	:	:	:	:	:	∞	1.17-
TRICHLOROFLUOROMETHANE	:	:	:	:	:	:	:	;	/
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VINYL CHLORIDE	:	;	:	:	;	:	:	80	
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8 - Originally reported as BMDL, outdated nonvenchature ( Below Method Dector Seed Finet) signifying a qualitative detection less than the quantitation breat thins in PPB

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SEPTEMBER 1983 TO JUNE 1988

PARAMETERS	MAY 1985	AUG 1985	NOV 1985	JUNE 1988
ACETONE .	-/-	:-/-		-11-
1-1-DICHLOROETHANE	8.8 / 5.3	/ 9	5.3 / 5.1	2.2 // 2.1
TRANS-12-DICHLOROETHENE		/		//
СНГОЯОГОЯМ	/8	:-1:-	1	//
METHYL ETHYL KETONE	1	:-/:-	/	//
1,2 DICHLOROETHANE	24.1 / 15	24 / 21	18 / 19.7	5.9 // 7.5
1,1,1-TRICHLOROETHANE	B / 1.3	:-/:-	/1	
TRICHLOROETHENE	-/ 13.5	:-/::		//
1,1,2.TRICHLOROE THANE	5.71	:-/:-	32/	//
METHYL ISOBUTYL KETONE		:-1::		:: // ::
TE TRACHLOROE THENE		:-/::		//
1,1,2,2. TETRACHLOROETHANE	::1::	:/-		//
TOLUENE	:-1:-	/ \$		//
ETHYL BENZENE	/	:-1:-		//
M-XYLENE	NA	٧	٧	//
O XYLENE	٧X	¥	٧	
P-XYLENE	<b>V</b> V	N A	٧	//
TOTAL XYLENE		:-1::		//
TETRAHYDROFURAN		1	1	//
ISOPROPYL ETHER	:-1::	/	:- 1 ::	//
METHYLENE CHLORIDE	4.8/			#
2-CHLOROE THYL-VINYL ETHER	:- / :-	:1:	:-1:-	//
BENZENE	/ 8	21		//
CHLOROBENZENE	:-1::	1		//
1.2.DICHLOROPROPENE	:-1::	:-/:-		//
1,2-DICHLOROPROPANE	:-1::		1	//
CANBON TETRACHLORIDE	:- / ::			//
1,2-DICHLOROE THENE	.11.7	/ 1.3	/ 1 4	//
TRICHLOROFLUOROMETHANE	/ 3.3	12	1	//
TRICHLOROFLUOROETHANE		:- / :-		#
CHLOROMETHANE	:-1:-			//
CHLOROETHANE				//
1,1-DICHLOROE THENE	1.:			//
DICHLOROBENZENES	1			#
VINYL CI4LORIDE	:-1::			//
1,2 DICHLOHORENZENE		<i>'</i> :-	1	#
			<i>'</i> ::	
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PCB 1260		/	/.:	#

<sup>1 //</sup> y - Orginal // Duplicate.
NA - Not Analyzed.
B - Orginally reported as BMDL, outdated norminchature ( Below Method Derawdien Linut ) signifying a qualitative detection loss than the quantifation first.
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SEPTEMBER 1983 TO JUNE 1988

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PARAMETERS	ACETONE	1-1-DICHLOROETHANE	TRANS-12-DICHLOROETHENE	CHLOROFORM	METHYL ETHYL KETONE	1,2-DICHLOROETHANE	1,1,1-TRICHLOROETHANE	IRICHLOROETHENE	1,1,2-TRICHLOROE 1HANE	METHYL ISOBUTYL KETONE	TETRACHLOROETHENE	1,1,2,2-1ETRACHLOROETHANE	TOLUENE	ETHYL BENZENE	M.XYLENE	O-XYLENE	P.XYLENE	TOTAL XYLENE	TETRAHYDROFURAN	ISOPROPYL ETHER	METHYLENE CHLORIDE	2-CHLOROETHYL-VINYL ETHER	BENZENE	CHLOROBENZENE	1,2 DICHLOROPROPENE	1.2-DICHI OROPROPANE	CANBON TETRACHLORIDE	1,2-DICHLOROE TI LENE	TRICH! OROF! UOROMETHANE	1 RICHLOROFLUOROE THANE	CHLOROMETHANE	CHLOROETHANE	1, 1-DICHLOROETHENE	DICHLOROBENZENES	VINYL CHLORIDE	1,2 DICH OROBENZENE		P.P. : DDE	PCB 1242	FCB 1260	

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SEPTEMBER 1983 TO JUNE 1988

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1-1-DICHLOROETHANE	;	23	æ	47	;	. 56.4		ı	ı	~
TRANS-12-DICH ORDETHENE	:	;		:		:	:	:	;	1
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TOLUENE	;	:	:	36	:	;		;	1	;
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TETRAHYDROFURAN	:	:	:	:	:	:		:		;
ISOPROPYL ETHER	:	:	:	:	:	:	:	:		;
METHYLENE CHLORIDE	:		:	:	:	:		:	1.2	:
2-CHLOROETHYL-VINYL ETHER	:	:	:	:	:	:	:	:		:
BENZENE	:	:	:	:		:	:	:	:	;
CHLOROBENZENE	;	:	:	:	8.	:	:	:		:
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1.2-DICHLOROPROPANE	:	:	:	:	:	:	:	:	:	:
CARBON TETRACHLORIDE	;	:	:	:			:	ı	:	:
1.2-DICHLOROETHENE	;	:	:	:		:	:	:	:	:
TRICHLOROFLUOROMETHANE	:	:	:	;			:	:	:	:
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CHLOROMETHANE	:	:	:	:	1.2	:	:	:	ı	:
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SEPTEMBER 1983 TO JUNE 1988

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DFT-10

DFT-9 con't

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TRANS-12-DICHI ORDETHENE	:	:		:	:	:		;	:	:
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I.I.C.C. IE INACHLONOE INGINE	. :	Œ	:	:	ı	:	œ	:	:	,
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TETRAHYDROFURAN	:	:	:	:	:	:	:	:	:	ı
SOPROPYL ETHER	:	:	:	:	:	:	:	:	:	:
METHYLENE CHLORIDE	:	;	;	:	:	:	•	:	•	:
2-CHLOROETHYL-VINYL ETHER	:	:	:	:	:	:	:	:	:	ı
BENZENE	:	:	:	:	Ξ	:	:	:	:	:
CHLOROBENZENE	:	:	:	:	•	:	:	:	:	ı
1.2-DICHLOROPROPENE	;	:	:	:	:	:	:	•	:	•
1.2.DICHLOROPROPANE	:		:	:	:	:	;	:	:	,
CARBON TETRACHLORIDE	:	:	:	:	:	:	:	;	:	ı
,2.DICHLOROE THENE	:	:	;	:	1.4	£.7	:	:	:	;
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CHLOROETHANE	:	:	:	;	:	:	;	:	1	ı
1,1-DICHLOROE THENE	:	:	:	:	:	:	:	:	1	1
DICHLOROBENZENES	:	:	:	:	:	:	1	;	1	:
VINYL CHLORIDE	:	:	:	:	:	:	:	:	:	•
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NA = Not Analyznd. It = Originally reported as RMDL, outdated normanclature ( Reform Method Destruter Limit ) signifying a qualitative detection less than the quantitation limit. Unds to 1918.

SEPTEMBER 1983 TO JUNE 1988

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ANE 1.8 2	ANE 1.8 2	OROETHANE	:	:	:	:	
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#6	## 1.2	OROPROPENE	:	:	:	:	
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	:		:	:	:	:	

NA - Not Analyzed. B - Originally imported as BMDL, outdated nomenclature ( Below Method Dectection Limit ) signifying a qualitative detection less than the quantitation limit. Units in PPB

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BR-3	AUG 1984	;	:	:	:	:	:	:		:	:	=	:	63	;	¥	¥	NA	:	:	;	:	:	:	;	:	:	:	:	:		:	:	:	:	:	:	:	:	:
BR-2	MOV 1984	;	:	:	:	:	:	:	:	;	:	80	:	В	;	NA	N.	NA	:	:	:	:	:	:	:	;	:	:	:	:	;	:	:	:	:	:	:	;	:	:
BR-1	HOV 1984	ī	:	:	:	:	:	:	:	:	:	,		•	:	¥	¥X	¥	:	:		80	:	:	:	:	:	:	;	:	:	:	•	:	:	:	:	;		:
	PARAMETERS	ACETONE .	1-1-DICHLOROETHANE	TRANS-12-DICHLOROETHENE	CHLOROFORM	METHYL ETHYL KETONE	1,2-DICHLOROETHANE	1,1,1-TRICHLOROETI IANE	TRICHLOROETHENE	1,1,2.TRICHLOROETHANE	METHYL ISOBUTYL KETONE	1 E TRACHLOROETHENE	1,1,2,2-TETRACHLOROETHANE	TOLUENE	ETHYL BENZENE	M. XYI ENF	O.YYI ENE	PXYLENE	TOTAL XYLENE	1ETRAHYDROFURAN	ISOPROPYL ETHER	METHYLENE CHLORIDE	2-CHLOROETHYL-VINYL ETHER	BENZENE	CHLOROBENZENE	1,2 DICHLOROPROPENE	1,2-DICHLOROPROPANE	CARBON TETRACHLORIDE	1,2.DICHLOROETHENE	TRICHLOROFLUOROMETHANE	TRICHLOROFLUOROETHANE	CHLOROMETHANE	CHLOROETHANE	1.1-DICHLOROETHENE	DICHLOROBENZENES	VINYL CHLORIDE	1.2 DICHLOROBENZENE	P.P 00E	PCB 1242	PCB 1260

NA - Not Analyzed. B - Originally reported as RMDL, outdated nomenclature ( Below Method Decrection Linux ) signifying a qualitative detection less than the quantitation firrit. Linis In PPB

# **ATTACHMENT V**

#### ANALYTICAL REPORT

#### Company:

NORTHEAST SOLITE

KINGS HIGHWAY

MT.MARION

NY 12456

# Report Summary

Report Date:

05-APR-91

Project:

STANDARD

Lab Number:

97355

Sample Number(s):

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97355-001

to

97355-001

Ronald A. Bayer Laboratory Director

EnviroTest 🔄 Laboratories Inc. \_ 315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

N IDED 73507

CTDOUG DH MAKA

Client Name: NORTHEAST SOLITE

Sample Number: 97355-001 Project Name: STANDARD

Date Collected: 20-MAR-91 Matrix: 2 GW/WW --

Detection

Date Received: 20-MAR-91 Method: VOA-502.1

Analyzed Date: 29-MAR-91

Sample Location: AT WELL

Comments:

			Decection	-	<b>5</b> L-
	CAS NO.	Compound	Limit ug/l	Conc. ug/l	Data Qualifier
	CAD NO.	Сомрочна			2
	74-87-3	Chloromethane	•5		U
	74-83-9	Bromomethane	.5		Ŭ
	75-71-8	Dichlorodifluoromethane	.5		Ŭ
	75-01-4	Vinyl Chloride	.5		Ŭ
	75-00-3	Chloroethane	.5 .5 .5		Ŭ
	75-09-2	Methylene Chloride	• 5		Ŭ
	75-69-4	Tricĥlorofluoromethane	•5		Ŭ
	75-35-4	1,1-Dichloroethene	• 5		Ŭ
	74-97-5	Bromochloromethane	•5		U
	75-34-3	1,1-Dichloroethane	.5		U
	156-59-4	Trans-1,2-Dichloroethene	.5		U
	156-59-4	cis-1,2-Dichloroethene	•5		U
4	67-66-3	Chloroform	.5		Ŭ
	107-06-2	1,2-Dichloroethane	.5		U .
	590-20-7	2,2-Dichloropropane	.5		U
	74-95-3	Dibromomethane -	•5		U
	71-55-6	1,1,1-Trichloroethane	.5		U
	56-23-5	Carbon Tetrachloride	.5		U
	75-27-4	Bromodichloromethane	.5		U
	78-87-5	1,2-Dichloropropane	.5		U
	563-58-6	1,1-Dichloropropene	• 5		U
	79-01-6	Trichloroethene	.5		Ŭ
	142-28-9	1,3-Dichloropropane	.5		. <b>U</b>
	124-48-1	Dibromochloromethane	. 5		U
	79-00-5	1,1,2-Trichloroethane	. 5		U
	106-93-4	1,2-Dibromoethane	.5		Ŭ
	75-25-2	Bromoform	.5		U
	630-20-6		.5		Ŭ
	96-18-4	1,2,3-Trichloropropane	.5		Ŭ
	79-34 <b>-</b> 5	1,1,2,2-Tetrachloroethane	.5		U

Continued ...

Samplenum: 97355-001

Method: VOA-502.1 continued

CAS NO.	Compound	ug/l	ug/l	Qualifier
127-18-4	Tetrachloroethene	. 5		Ū
108-90-7	Chlorobenzene	• 5		ָ ט
108-86-1	Bromobenzene	. 5		Ū
95-49-8	2-Chlorotoluene	.5		Ŭ
106-43-4	4-Chlorotoluene	• 5		Ū
541-73-1	1,3-Dichlorobenzene	.5		Ū
95-50-1	1,2-Dichlorobenzene	.5		Ŭ
106-46-7	1,4-Dichlorobenzene	.5		Ŭ
10061-01-5	cis-1,3-Dichloropropene	.5		U
10061-02-6	trans-1.3-Dichloropropene	.5		Ŭ

Client Name: NORTHEAST SOLITE

Sample Number: 97355-001 Project Name: STANDARD

Date Collected: 20-MAR-91 Matrix: 2 GW/WW

Date Received: 20-MAR-91 Method: VOA-503.1

Analyzed Date: 28-MAR-91

Sample Location: AT WELL

Comments:

<b>3</b>	CAS NO.	Compound	Detection Limit ug/l	Conc.	Data Qualifier
	71-43-2	Benzene	.5		U
***	79-01-6	Trichloroethene	.5		Ŭ
	108-88-3		.5		Ŭ
	127-18-4		.5		Ŭ
	108-90-7		.5		Ŭ
	100-41-4		.5		Ŭ
	106-42-3	p-Xylene	.5		Ū
	108-38-3	m-Xylene	.5		Ū
	95-47-6	o-Xylene	.5		Ū
	98-82-8	Isopropylbenzene	.5		Ū
	100-42-5		.5		U U
	103-65-1	n-Propylbenzene	.5		Ū
300	98-06-6	tert-Butylbenzene	. 5		U
_	95-49-8	2-Chlorotoluene	.5		U
	106-43-4		.5		U
	108-86-1	Bromobenzene	.5		U
	135-98- <sup>4</sup> 8		• 5		U
	108-67-8		.5		Ŭ
	99-87-6		•5		U
	95-63-6		•5		ប
	106-46-7	1,4-Dichlorobenzene	.5		Ŭ
	541-73-1	1,3-Dichlorobenzene	.5		Ŭ
	104-51-8		.5		Ŭ
-	95-50-1	1,2-Dichlorobenzene	•5		Ŭ
_	87-68-3		.5		U
	91-20-3	Naphthalene	.5		ប ប
	120-82-1	1,2,4-Trichlorobenzene	.5		
	87-61-6	1.2.3-Trichlorobenzene	• 5		U

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Client Name: NORTHEAST SOLITE

Sample Number: 97355-001 Project Name: STANDARD

Date Collected: 20-MAR-91 Matrix: 2 GW/WW

Date Received: 20-MAR-91 Method: VOA-503.1

Analyzed Date: 28-MAR-91

Sample Location: AT WELL

Comments:

CAS NO.	Compound	Detection Limit ug/l	Conc. ug/l	Data Qualifier
71-43-2	Benzene	.5		U
79-01-6	Trichloroethene	.5		Ŭ
108-88-3	Toluene	• 5		Ū
127-18-4	Tetrachloroethene	•5		Ū
108-90-7		•5		Ū
100-41-4		.5		Ū
106-42-3	p-Xylene	•5		Ū
108-38-3		.5		U
95-47-6		•5		U
98-82-8	Isopropylbenzene	.5		U
100-42-5	Styrene	.5		U
103-65-1	n-Propylbenzene	•5		U
98-06-6	tert-Butylbenzene	.5		U
95-49-8	2-Chlorotoluene	•5		U
106-43-4	4-Chlorotoluene	• 5		Ŭ
108-86-1	Bromobenzene	.5		U
135-98-8		.5		Ŭ
108-67-8	1,3,5-Trimethylbenzene	.5		U
99-87-6	4-Isopropyltoluene	• 5		Ū
95-63-6	1,2,4-Trimethylbenzene	.5		U
106-46-7		. 5		U
541-73-1	1,3-Dichlorobenzene	.5		Ū
104-51-8		.5		U
95-50-1	1,2-Dichlorobenzene	.5		U
87-68-3	Hexachlorobutadiene	.5		Ū
91-20-3	Naphthalene	. 5		U
120-82-1		.5		U
87-61-6	1,2,3-Trichlorobenzene	.5		U

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Client Name: NORTHEAST SOLITE

Sample Number: 97355-001 Project Name: STANDARD

Date Collected: 20-MAR-91 Matrix: 2 GW/WW

Date Received: 20-MAR-91 Method: VOA-502.1

Analyzed Date: 29-MAR-91

Sample Location: AT WELL

Comments:

		Detection		
		Limit	Conc.	Data
CAS NO.	Compound	<u>ug/l</u>	ug/l	Qualifier
74-87-3	Chloromethane	.5		U
74-83-9	Bromomethane	. 5		Ŭ
75-71-8	Dichlorodifluoromethane	. 5		บ
75-01-4	Vinyl Chloride	.5		Ū
75-00-3	Chloroethane	.5 .5 .5		Ŭ
75-09-2		.5		Ŭ
75-69-4	Trichlorofluoromethane	.5	-	Ü
75-35-4		. 5		ij
74-97-5	Bromochloromethane	.5 .5		ij
75-34-3	1,1-Dichloroethane	.5		บ บ บ
156-59-4	Trans-1,2-Dichloroethene	.5		Ū
156-59-4	cis-1,2-Dichloroethene	.5		Ü
67-66-3	Chloroform	.5		Ŭ
107-06-2	1,2-Dichloroethane	.5		ŭ
590-20-7	2,2-Dichloropropane	. 5		บั
74-95-3	Dibromomethane	. 5 . 5		ŭ
71-55-6		.5		บั
56-23-5		.5		บ
75-27-4		,5		Ŭ
78-87-5	1,2-Dichloropropane	.5		Ü
563-58-6	1,1-Dichloropropene	• 5		บ
79-01-6	Trichloroethene	.5		บี
142-28-9	1,3-Dichloropropane	. 5		Ü
124-48-1	Dibromochloromethane	.5 .		U
79-00-5	1,1,2-Trichloroethane	. 5		U
106-93-4	1,2-Dibromoethane	.5		Ū
75-25-2	Bromoform	.5		Ū
630-20-6	1,1,1,2-Tetrachloroethane			บั
96-18-4		.5		บั
79-34-5	1,1,2,2-Tetrachloroethane			ប៊
	-, -, -, b 1001 doll201000114/10	• •		Ū

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Samplenum: 97355-001

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Method: VOA-502.1 continued

CAS NO.	Compound	ug/l	ug/l	Qualifier
• • • • • • • • • • • • • • • • • • • •	· .			
127-18-4	Tetrachloroethene	. 5		. U
108-90-7	Chlorobenzene	. 5		Ū
108-86-1	Bromobenzene	.5		Ü
95-49-8	2-Chlorotoluene	.5		Ū
106-43-4	4-Chlorotoluene	.5		U
541-73-1	1,3-Dichlorobenzene	.5		Ū
95-50-1	1,2-Dichlorobenzene	.5		Ū
106-46-7	1,4-Dichlorobenzene	.5		ŭ
10061-01-5	cis-1,3-Dichloropropene	. 5		IJ
	trans-1,3-Dichloropropene	.5		Ŭ

No. 24 / 125/7

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# Volatile Organics Analysis Data Sheet

Client Name: NORTHEAST SOLITE

Sample Number: 97355-001 Project Name: STANDARD

Date Collected: 20-MAR-91 Matrix: 2 GW/WW

Date Received: 20-MAR-91 Method: VOA-503.1

Detection

Analyzed Date: 28-MAR-91

Sample Location: AT WELL

Comments:

-	CNC NO	Cornound	Limit	Conc.	Data
	CAS NO.	Compound	<u>ug/1</u>	<u>ug/1</u>	Qualifier
	71-42-0	Dangens	-		••
	71-43-2	Benzene	.5		U
-	79-01-6		. 5		Ü
	108-88-3	Toluene	. 5		ប
	127-18-4		.5		Ŭ
	108-90-7	Chlorobenzene	.5		U
	100-41-4		.5		U
	106-42-3	p-Xylene	• 5		U
	108-38-3	m-Xylene	.5		บ
	95-47-6	o-Xylene	.5 .5 .5 .5 .5 .5 .5 .5 .5		Ŭ
•	98-82-8	Isopropylbenzene	.5		Ŭ
	100-42-5	Styrene	. 5		U
	103-65-1	n-Propylbenzene	.5		Ŭ
_	98-06-6	tert-Butylbenzene	• 5		Ū
_	95-49-8	2-Chlorotoluene	• 5		บ้
	95-49-8 106-43-4	4-Chlorotoluene	.5		Ū
	108-86-1	Bromobenzene	.5		ប៊
_	135-98-8		.5		บั
	108-67-8		.5		บั
	99-87-6	4-Isopropyltoluene	.5		ŭ
	95-63-6	1,2,4-Trimethylbenzene	.5		บ
-	106~46-7	1,2,4-111methylbenzene	.5		บ
	541-73-1	1,3-Dichlorobenzene	.5		ũ
	104-51-8	n-Butylbenzene	.5		<u>ជ</u>
-	95-50-1		.5		Ŭ
	87-68-3	Hexachlorobutadiene	. 5		Ŭ
	91-20-3		.5		U
	120-82-1		.5		Ŭ
	87-61-6	1,2,3-Trichlorobenzene	. 5		U

# ANALYTICAL REPORT

#### Company:

NORTHEAST SOLITE

KINGS HIGHWAY

MT.MARION NY 12456

#### Report Summary

Report Date: 26-APR-91

Project: STANDARD

Lab Number: 97355

Sample Number(s): 97355-001

to

97355-001

Ronald A. Bayer Laboratory Director

Client Name: NORTHEAST SOLITE

Sample Number: 97355-001 Project Name: STANDARD

Date Collected: 20-MAR-91 Matrix: 2 GW/WW

Date Received: 20-MAR-91 Method: VOA-502.1

Detection

Analyzed Date: 29-MAR-91

Sample Location: AT WELL

Comments:

		Limit	Conc.	Data
CAS_NO	Compound	ug/l	ug/l	Qualifier
74-87-3	Chloromethane	.5		Ū
74-83-9	Bromomethane	.5		Ŭ
75-71-8	Dichlorodifluoromethane	.5		Ŭ
75-01-4	Vinyl Chloride	.5		Ŭ
75-00-3	Chloroethane	.5		Ŭ
75-00-3	Methylene Chloride	.5 .5 .5		Ŭ
75-69-4	Trichlorofluoromethane	.5		Ŭ
75-35-4		.5		Ŭ
74-97-5	1,1-Dichloroethene Bromochloromethane	.5		Ŭ
		.5		Ŭ
75-34-3	1,1-Dichloroethane	.5		Ŭ
156-59-4		.5 .5 .5		Ŭ
156-59-4	cis-1,2-Dichloroethene	• 5		Ŭ
67-66-3	Chloroform	•5		Ū
107-06-2	1,2-Dichloroethane	.5		
590-20-7	2,2-Dichloropropane	• 5		U U
74-95-3	Dibromomethane	. 5		
71-55-6	1,1,1-Trichloroethane	•5		U U
56-23-5	Carbon Tetrachloride	.5		Ŭ
75-27-4	Bromodichloromethane	.5		Ŭ
78-87-5	1,2-Dichloropropane	.5		Ŭ
563-58-6		.5		Ŭ
79-01-6	Trichloroethene	• 5		Ū
142-28-9	1,3-Dichloropropane	•5		Ŭ
124-48-1	Dibromochloromethane	•5		Ü
79-00-5	1,1,2-Trichloroethane	.5		Ŭ
106-93-4	1,2-Dibromoethane	.5		
75-25-2	Bromoform	•5		U U
630-20-6		.5		
96-18-4	1,2,3-Trichloropropane	.5		U
79-34-5	1,1,2,2-Tetrachloroethane	.5		Ŭ

Continued ...

Samplenum: 97355-001

Method: VOA-502.1 continued

CAS NO.	Compound	ug/l	ug/l	Qualifier
		_		
127-18-4	Tetrachloroethene	<b>.</b> 5		Ü
108-90-7	Chlorobenzene	<b>.</b> 5		Ŭ
108-86-1	Bromobenzene	<b>.</b> 5		Ŭ
95-49-8	2-Chlorotoluene	.5		Ŭ
106-43-4	4-Chlorotoluene	.5		Ŭ
541-73-1	1,3-Dichlorobenzene	.5		U
95-50-1	1,2-Dichlorobenzene	<b>.</b> 5		Ŭ
106-46-7	1,4-Dichlorobenzene	.5		U
10061-01-5	cis-1,3-Dichloropropene	.5		Ŭ
10061-02-6	trans-1.3-Dichloropropene	.5		Ŭ

EnviroTest :::
Laboratories Inc.

### ANALYTICAL REPORT

# Company:

N.E. SOLITE

PO BOX 437

MT.MARION

NY 12456

#### Report Summary

Report Date:

29-MAY-91

Project:

STANDARD

Lab Number:

98775

Sample Number(s):

98775-001

to

98775-003

Konald A. Bayer Laboratory Director

EnviroTest Laboratories Inc. \_

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

\*\*100

NACUUM 10113

Client Name: N.E. SOLITE

Sample Number: 98775-001 Project Name: STANDARD

Date Collected: 01-MAY-91 Matrix: 2 GW/WW

Date Received: 01-MAY-91 Method: VOA-502.1

Detection

Analyzed Date: 10-MAY-91

Sample Location: WELL 1, WELL 2, WELL 3

Comments:

		Dececton		
		Limit	Conc.	Data
CAS NO.	Compound	ug/l	ug/l	Qualifier
74-07-2	Chlamomathana	_		U
74-87-3	Chloromethane	.5 .5		Ω O
74-83-9	Bromomethane			Ŭ
75-71-8	Dichlorodifluoromethane			
75-01-4	Vinyl Chloride	. 5		Ü
75-00-3	Chloroethane	• 5		Ŭ
75-09-2	Methylene Chloride	. 5		U
75-69-4	Trichlorofluoromethane	. 5		Ŭ
75-35-4	1,1-Dichloroethene	.5		Ŭ
74-97-5	Bromochloromethane	.5		U
75 <b>-</b> 34 <b>-</b> 3	1,1-Dichloroethane	.5		U
156-59-4	Trans-1,2-Dichloroethene	.5		Ŭ
156-59-4	cis-1,2-Dichloroethene	.5		U
67-66-3	Chloroform	.5		Ŭ
107-06-2	1,2-Dichloroethane	.5		U
590-20-7	2,2-Dichloropropane	.5		Ŭ
74-95-3	Dibromomethane	.5		Ŭ
71-55-€	1,1,1-Trichloroethane	.5		Ŭ
56-23-5		<b>.</b> 5		Ŭ
75-27-4	Bromodichloromethane	. 5		Ŭ
78-87-5	1,2-Dichloropropane	. 5		Ŭ
563-58-6	1,1-Dichloropropene	. 5		Ŭ
79-01-6	Trichloroethene	. 5		Ŭ
142-28-9	1,3-Dichloropropane	. 5		Ŭ
124-48-1	Dibromochloromethane	. 5		Ŭ
79-00-5	1,1,2-Trichloroethane	.5		Ŭ
106-93-4	1,2-Dibromoethane	. 5		Ŭ
75-25-2	Bromoform	.5		Ŭ
630-20-6	1,1,1,2-Tetrachloroethane			Ū
96-18-4	1,2,3-Trichloropropane	.5		Ŭ
79-34-5	1,1,2,2-Tetrachloroethane			Ŭ
,, ,,	1,1,2,2 recruonitoroconanc			•

Continued ...

EnviroTest 😂 Laboratories Inc. \_\_ Samplenum: 98775-001

Method: VOA-502.1 continued

CAS NO.	Compound	ug/l	ug/l	Qualifier
127-18-4	Tetrachloroethene .	. 5		Ū
108-90-7	Chlorobenzene	- 5-	•	Ū
108-86-1	Bromobenzene	. 5		Ū
95-49-8	2-Chlorotoluene	.5		U
106-43-4	4-Chlorotoluene	.5		U
541-73-1	1,3-Dichlorobenzene	.5		U
95-50-1	1,2-Dichlorobenzene	• 5		U
106 <b>-</b> 46 <b>-</b> 7	1,4-Dichlorobenzene	•5		U
10061-01-5	cis-1,3-Dichloropropene	• 5		U
10061-02-6	trans-1,3-Dichloropropene	•5		U

Client Name: N.E. SOLITE

Sample Number: 98775-001 Project Name: STANDARD

Date Collected: 01-MAY-91 Matrix: 2 GW/WW -

Date Received: 01-MAY-91 Method: VOA-503.1

Analyzed Date: 10-MAY-91

Sample Location: WELL 1, WELL 2, WELL 3

Comments:

		Detection		
		Limit	Conc.	Data
CAS NO.	Compound	ug/l	ug/l	Qualifier
71-43-2	Benzene	.5		U
79-01-6	Trichloroethene	.5		U
108-88-3	Toluene	.5		U
127-18-4	Tetrachloroethene	.5		U
108-90-7	Chlorobenzene	.5		U
100-41-4	Ethylbenzene	.5		U
106-42-3	p-Xylene	•5		U
108-38-3	m-Xylene	.5		U
95-47-6	o-Xylene	•5		U
98-82-8	Isopropylbenzene	.5		U
100-42-5	Styrene	•5		U
103-65-1	n-Propylbenzene	• 5		U
98-06-6	tert-Butylbenzene	• 5		U
95-49-8	2-Chlorotoluene	• 5		U
106-43-4	4-Chlorotoluene	•5		U
108-86-1	Bromobenzene	• 5		U
135-98-8	sec-Butylbenzene	.5		Ŭ
108-67-8	1,3,5-Trimethylbenzene	.5		Ŭ
99-87 <b>-</b> 6	4-Isopropyltoluene	.5		Ŭ
95-63-6	1,2,4-Trimethylbenzene			U
106-46-7	1,4-Dichlorobenzene	• 5		U
541-73-1	1,3-Dichlorobenzene	.5		Ŭ
104-51-8	n-Butylbenzene	. 5		Ŭ
95-50-1	1,2-Dichlorobenzene	. 5		U
87-68-3	Hexachlorobutadiene	.5		Ŭ
91-20-3	Naphthalene	• 5		U
120-82-1	1,2,4-Trichlorobenzene	. 5		U
87-61 <b>-</b> 6	1,2,3-Trichlorobenzene	• 5		U

#### ANALYTICAL REPORT

Company: Northeast Solite Corp.

PO Box 437

Mt. Marion NY 12546

## Report Summary

Report Date: 19-JUL-91

Project: STANDARD

Lab Number: 101084

Sample Number(s): 101084-01

to

101084-02

Ronald A. Bayer Laboratory Director

Client Name: Northeast Solite Corp.

Sample Number: 101084-01 Project Name: STANDARD

Date Collected: 09-JUL-91 -- Matrix: 1 DrinkH20

Date Received: 09-JUL-91 Method: VOA-502.1

Analyzed Date: 19-JUL-91

Sample Location: BEFORE FILTER

Comments:

CAS NO.	Compound	Detection Limit ug/l	Conc. ug/l	Data Qualifier
74-87 <b>-</b> 3	Chloromethane	.5		U
74-83-9	Bromomethane	.5		Ŭ
75-71-8	Dichlorodifluoromethane	.5		Ū
75-01-4	Vinyl Chloride	.5		Ŭ
75-00-3	Chloroethane	.5		Ŭ
75-09-2	Methylene Chloride	.5		Ŭ
75-69-4	Trichlorofluoromethane	•5		Ŭ
75-35-4	1,1-Dichloroethene	• 5		Ŭ
74-97-5	Bromochloromethane	.5		Ŭ
75-34-3	1,1-Dichloroethane	.5		Ŭ
156-59-4		.5		Ŭ
156-59-4	cis-1,2-Dichloroethene	•5		Ŭ
67-66-3	Chloroform	.5		Ŭ
107-06-2	1,2-Dichloroethane	.5		U
590-20-7	2,2-Dichloropropane	.5		Ŭ
74-95-3		.5		Ŭ
71-55-6	1,1,1-Trichloroethane	•5		Ŭ
56 <del>-</del> 23-5	Carbon Tetrachloride	.5		U
75-27-4	Bromodichloromethane	•5		Ŭ
78-87-5	1,2-Dichloropropane	• 5		Ŭ
563-58-6	1,1-Dichloropropene	. 5		Ŭ
79-01 <b>-</b> 6	Trichloroethene	•5		Ū
142-28-9	1,3-Dichloropropane	.5		U
124-48-1	Dibromochloromethane	•5		U
79-00-5	1,1,2-Trichloroethane	• 5		Ŭ
106-93-4	1,2-Dibromoethane	.5		Ŭ
75 <del>-</del> 25-2	Bromoform	.5		Ŭ
630-20-6	1,1,1,2-Tetrachloroethane	.5		U
96-18-4	1,2,3-Trichloropropane	.5		U
79-34-5	1,1,2,2-Tetrachloroethane	.5		U

Continued ...

Samplenum: 101084-01

Method: VOA-502.1 continued

-	CAS NO.	Compound	ug/l	ug/l	Qualifier
	127-18-4	Tetrachloroethene	.5		ŭ
	108-90-7	Chlorobenzene	• 5		. Ω
4	108-86-1	Bromobenzene	•5		Ŭ
	95-49-8	2-Chlorotoluene	.5		Ŭ
	106-43-4	4-Chlorotoluene	•5		Ŭ
	541-73-1	1,3-Dichlorobenzene	•5		Ŭ
-	95-50-1	1,2-Dichlorobenzene	•5		Ŭ
	106-46-7	1,4-Dichlorobenzene	•5		Ŭ
		cis-1,3-Dichloropropene	.5		Ū
	10061-02-6	trans-1,3-Dichloropropene	•5		Ū

Client Name: Northeast Solite Corp.

Sample Number: 101084-01 Project Name: STANDARD

Date Collected: 09-JUL-91 Matrix: 1 DrinkH20

Date Received: 09-JUL-91 Method: VOA-503.1

Analyzed Date: 19-JUL-91

Sample Location: BEFORE FILTER

Comments:

		Detection		
		Limit	Conc.	Data
CAS NO.	Compound	ug/l	ug/l	Qualifier
71-43-2	Benzene	• 5		U
79-01 <del>-</del> 6	Trichloroethene	.5		Ŭ
108-88-3	Toluene	•5		Ŭ
127-18-4	Tetrachloroethene	•5		Ŭ
108-90-7	Chlorobenzene	.5		Ŭ
100-41-4	Ethylbenzene	.5		Ŭ
106-42-3	p-Xylene	•5		U
108-38-3	m-Xylene	•5		U
95-47-6	o-Xylene	•5		U
98-82-8	Isopropylbenzene	.5		Ŭ
100-42-5	Styrene	•5		U
103-65-1	n-Propylbenzene	•5		Ŭ
98-06-6	tert-Butylbenzene	.5		Ŭ
95-49-8	2-Chlorotoluene	•5		Ŭ
106-43-4	4-Chlorotoluene	•5		Ŭ
108-86-1	Bromobenzene	•5		Ŭ
135-98-8	sec-Butylbenzene	.5		U
108-67-8	1,3,5-Trimethylbenzene	.5		Ŭ
99-87-6	4-Isopropyltoluene	.5		U
95-63-6	1,2,4-Trimethylbenzene	• 5		Ü
106-46-7	1,4-Dichlorobenzene	• 5		Ŭ
541-73-1	1,3-Dichlorobenzene	.5		U
104-51-8	n-Butylbenzene	.5		Ŭ
95-50-1	1,2-Dichlorobenzene	• 5		Ŭ
87-68-3		.5		ŭ
91-20-3		• 5		Ŭ
120-82-1	1,2,4-Trichlorobenzene	• 5		Ŭ
87-61-6	1,2,3-Trichlorobenzene	.5		Ŭ

Client Name: Northeast Solite Corp.

Sample Number: 101084-02 Project Name: STANDARD

Date Collected: 09-JUL-91 Matrix: 1 DrinkH20

Date Received: 09-JUL-91 Method: VOA-502.1

Analyzed Date: 19-JUL-91

Sample Location: AFTER FILTER

Comments:

CAS NO.	Compound	Detection Limit ug/l	Conc.	Data Qualifier
74-87-3	Chloromethane	.5		Ū
				Ū
				Ū
		• 5		Ū
		• 5		Ū
		• 5		Ū
	Trichlorofluoromethane			Ū
	1.1-Dichloroethene	. 5		Ŭ
		. 5	-	Ū
				Ū
				Ŭ
156-59-4	cis-1,2-Dichloroethene	. 5		Ŭ
		• 5		Ŭ
				Ū
				Ū
	Dibromomethane			Ū
		. 5		U
	Carbon Tetrachloride	.5		Ŭ
75-27-4	Bromodichloromethane	.5		Ū
78-87-5	1,2-Dichloropropane	. 5		Ū
563-58-6	1,1-Dichloropropene			Ū
79-01-6	Trichloroethene	• 5		U
142-28-9	1,3-Dichloropropane	• 5		Ū
124-48-1	Dibromochloromethane	• 5		Ū
79-00-5	1,1,2-Trichloroethane	. 5		Ū
106-93-4	1,2-Dibromoethane			U
75-25-2				Ū
630-20-6	1,1,1,2-Tetrachloroethan			Ū
96-18-4	1,2,3-Trichloropropane	. 5		Ŭ
79-34-5	1,1,2,2-Tetrachloroethan	e .5		Ŭ
	74-87-3 74-83-9 75-71-8 75-01-4 75-00-3 75-09-2 75-69-4 75-35-4 74-97-5 75-34-3 156-59-4 67-66-3 107-06-2 590-20-7 74-95-3 71-55-6 56-23-5 75-27-4 78-87-5 563-58-6 79-01-6 142-28-9 124-48-1 79-00-5 106-93-4 75-25-2 630-20-6 96-18-4	74-87-3 Chloromethane 74-83-9 Bromomethane 75-71-8 Dichlorodifluoromethane 75-01-4 Vinyl Chloride 75-00-3 Chloroethane 75-09-2 Methylene Chloride 75-69-4 Trichlorofluoromethane 74-97-5 Bromochloromethane 75-34-3 1,1-Dichloroethane 75-34-3 1,1-Dichloroethane 75-6-59-4 Cis-1,2-Dichloroethene 67-66-3 Chloroform 107-06-2 1,2-Dichloroethane 590-20-7 2,2-Dichloropropane 74-95-3 Dibromomethane 75-27-4 Bromodichloromethane 75-27-4 Bromodichloromethane 78-87-5 1,2-Dichloropropane 563-58-6 1,1-Dichloropropane 79-01-6 Trichloroethene 142-28-9 1,3-Dichloropropane 124-48-1 Dibromochloromethane 79-00-5 1,1,2-Trichloroethane 19-00-5 1,1,2-Trichloroethane 106-93-4 1,2-Dibromoethane 1,2-Dibromoethane 1,2-Dibromoethane 1,2-Trichloroethane 1,2-Trichloroethane 1,2-Trichloroethane 1,2-Trichloroethane 1,2-Trichloroethane 1,2-Trichloroethane	CAS NO.         Compound         Limit ug/l           74-87-3         Chloromethane         .5           74-83-9         Bromomethane         .5           75-71-8         Dichlorodifluoromethane         .5           75-01-4         Vinyl Chloride         .5           75-00-3         Chloroethane         .5           75-09-2         Methylene Chloride         .5           75-69-4         Trichlorofluoromethane         .5           75-35-4         1,1-Dichloroethene         .5           74-97-5         Bromochloromethane         .5           75-34-3         1,1-Dichloroethane         .5           156-59-4         Trans-1,2-Dichloroethene         .5           156-59-4         Trischloroethane         .5           107-06-2         1,2-Dichloroethane         .5           107-06-2         1,2-Dichloropropane         .5           107-06-2         1,2-Dichloropropane         .5           74-95-3         Dibromomethane         .5           75-27-4         Bromodichloromethane         .5           75-27-4         Bromodichloropropane         .5           563-58-6         1,1-Dichloropropane         .5           79-01-6 <td< td=""><td>CAS NO.         Compound         Limit ug/l         Conc. ug/l           74-87-3         Chloromethane         .5           74-83-9         Bromomethane         .5           75-71-8         Dichlorodifluoromethane         .5           75-01-4         Vinyl Chloride         .5           75-00-3         Chloroethane         .5           75-09-2         Methylene Chloride         .5           75-69-4         Trichlorofluoromethane         .5           75-35-4         1,1-Dichloroethene         .5           74-97-5         Bromochloromethane         .5           75-34-3         1,1-Dichloroethane         .5           156-59-4         Trans-1,2-Dichloroethene         .5           156-59-4         Cis-1,2-Dichloroethene         .5           107-06-2         1,2-Dichloroethane         .5           107-06-2         1,2-Dichloropropane         .5           50-20-7         2,2-Dichloropropane         .5           74-95-3         Dibromomethane         .5           75-27-4         Bromodichloromethane         .5           78-87-5         1,2-Dichloropropane         .5           563-58-6         1,1-Dichloropropane         .5</td></td<>	CAS NO.         Compound         Limit ug/l         Conc. ug/l           74-87-3         Chloromethane         .5           74-83-9         Bromomethane         .5           75-71-8         Dichlorodifluoromethane         .5           75-01-4         Vinyl Chloride         .5           75-00-3         Chloroethane         .5           75-09-2         Methylene Chloride         .5           75-69-4         Trichlorofluoromethane         .5           75-35-4         1,1-Dichloroethene         .5           74-97-5         Bromochloromethane         .5           75-34-3         1,1-Dichloroethane         .5           156-59-4         Trans-1,2-Dichloroethene         .5           156-59-4         Cis-1,2-Dichloroethene         .5           107-06-2         1,2-Dichloroethane         .5           107-06-2         1,2-Dichloropropane         .5           50-20-7         2,2-Dichloropropane         .5           74-95-3         Dibromomethane         .5           75-27-4         Bromodichloromethane         .5           78-87-5         1,2-Dichloropropane         .5           563-58-6         1,1-Dichloropropane         .5

Continued ...

Samplenum: 101084-02

Method: VOA-502.1 continued

CAS NO.	Compound	ug/l	ug/1	Qualifier
127-18-4	Tetrachloroethene	• 5		TT
108-90-7	Chlorobenzene	.5	. •	Ü
108-86-1	Bromobenzene	.5		Ŭ
95-49-8	2-Chlorotoluene	.5		Ū
106-43-4	4-Chlorotoluene	.5		Ū
541-73-1	1,3-Dichlorobenzene	.5		Ū
95-50-1	1,2-Dichlorobenzene	•5		Ū
106-46-7	1,4-Dichlorobenzene	• 5		Ū
	cis-1,3-Dichloropropene	.5		Ū
10061-02-6	trans-1.3-Dichloropropene	5		IJ

Client Name: Northeast Solite Corp.

Sample Number: 101084-02 Project Name: STANDARD

Date Collected: 09-JUL-91 -Matrix: 1 DrinkH20

Date Received: 09-JUL-91 Method: VOA-503.1

Analyzed Date: 19-JUL-91

Sample Location: AFTER FILTER

Comments:

		Detection		
		Limit	Conc.	Data
CAS NO.	Compound	<u>ug/l</u>	ug/l	<u>Qualifier</u>
		_		77
71-43-2	Benzene	.5		Ŭ
79-01-6		• 5		Ŭ
108-88-3		• 5		Ŭ
127-18-4		• 5		Ŭ
108-90-7		• 5		U
100-41-4		.5 .5 .5 .5		Ŭ
106-42-3		• 5		U
108-38-3		• 5		Ŭ
95-47-6		• 5		Ŭ
98-82-8		• 5		U
100-42-5	Styrene	.5		Ŭ
103-65-1	n-Propylbenzene	.5		U
98-06-6	tert-Butylbenzene	.5		U
95-49 <del>-</del> 8	2-Chlorotoluene	555555555555555555555555555555555555555		U
106-43-4	4-Chlorotoluene	.5		Ŭ
108-86-1		.5		U
135-98-8		• 5		U
108-67-8	1,3,5-Trimethylbenzene	.5		Ū
99-87-6		<b>.</b> 5		U
95-63-6	1,2,4-Trimethylbenzene	.5 .5 .5 .5		U
106-46-7	1,4-Dichlorobenzene	. 5		U
541-73-1		. 5		Ŭ
104-51-8		• 5		Ŭ
95-50-1	1,2-Dichlorobenzene	• 5		U
87-68-3	Hexachlorobutadiene	.5		U
91-20-3	Naphthalene	. 5		U
120-82-1	1,2,4-Trichlorobenzene	.5 .5 .5		U
87-61-6	1.2.3-Trichlorobenzene	.5		U

#### ANALYTICAL REPORT

Company:

Northeast Solite Corp.

PO Box 437

Mt. Marion

NY 12546

#### Report Summary

Report Date:

19-JUL-91

Project:

STANDARD

Lab Number:

101084

Sample Number(s):

101084-01

to

101084-02

Ronald A. Bayer Laboratory Director

#### Volatile Organics Analysis Data Sheet

Client Name: Northeast Solite Corp.

Sample Number: 101084-01 Project Name: STANDARD

Date Collected: 09-JUL-91 Matrix: 1 DrinkH20

Date Received: 09-JUL-91 Method: VOA-502.1

Analyzed Date: 19-JUL-91

Sample Location: BEFORE FILTER

Comments:

		Detection		
		Limit	Conc.	Data
CAS NO.	Compound	ug/l	ug/l	Qualifier
74-87-3	Chloromethane	.5		Ŭ
74-83-9	Bromomethane	.5		Ü
75-71-8	Dichlorodifluoromethane	•5		Ŭ
75-01-4	Vinyl Chloride	• 5		Ü
75-00-3	Chloroethane	•5		Ŭ
75-09-2	Methylene Chloride	.5		Ŭ
75-69-4	Trichlorofluoromethane	•5		Ŭ
75-35-4	1,1-Dichloroethene	.5		Ŭ
74-97-5	Bromochloromethane	•5		Ŭ
75-34-3	1,1-Dichloroethane	•5		Ŭ
156-59-4	Trans-1,2-Dichloroethene	.5		Ŭ
156-59-4	cis-1,2-Dichloroethene	•5		Ŭ
67-66-3	Chloroform	.5		Ŭ
107-06-2	1,2-Dichloroethane	.5		Ŭ
590-20-7	2,2-Dichloropropane	.5		Ŭ
74-95-3	Dibromomethane	.5		Ŭ
71-55-6	1,1,1-Trichloroethane	.5		U
56-23-5	Carbon Tetrachloride	.5		U
75-27-4	Bromodichloromethane	.5		U
78-87-5	1,2-Dichloropropane	.5		Ŭ
563 <b>-</b> 58-6	1,1-Dichloropropene	. 5		Ŭ
79-01 <del>-</del> 6	Trichloroethene	• 5		Ü
142-28-9	1,3-Dichloropropane	. 5		Ü
124-48-1	Dibromochloromethane	• 5		Ü
79-00-5	1,1,2-Trichloroethane	•5		U
106-93-4	1,2-Dibromoethane	• 5		Ŭ
75-25-2	Bromoform	•5		Ŭ
630-20-6	1,1,1,2-Tetrachloroethan	e .5		Ŭ
96-18-4	1,2,3-Trichloropropane	• 5		Ŭ
79-34-5	1,1,2,2-Tetrachloroethan	e .5		Ŭ
	· · ·			

Continued ...

Samplenum: 101084-01

Method: VOA-502.1 continued

	CAS NO.	Compound	ug/l	ug/l	Qualifier
	127-18-4	Tetrachloroethene	. 5		ΤŢ
•	108-90-7	Chlorobenzene	.5		. Ŭ
	108-86-1	Bromobenzene	. 5		Ŭ
	95-49-8	2-Chlorotoluene	.5		U
	106-43-4	4-Chlorotoluene	.5		U
	541-73-1	1,3-Dichlorobenzene	• 5		U
	95-50-1	1,2-Dichlorobenzene	.5		Ŭ
	106-46-7	1,4-Dichlorobenzene	.5		Ŭ
	10061-01-5	cis-1,3-Dichloropropene	•5		U
	10061-02-6	trans-1.3-Dichloropropene	.5		Ŭ

EnviroTest 🖾 Laboratories Inc. .

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315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

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#### Volatile Organics Analysis Data Sheet

Client Name: Northeast Solite Corp.

Sample Number: 101084-01 Project Name: STANDARD

Date Collected: 09-JUL-91 Matrix: 1 DrinkH20

Date Received: 09-JUL-91 Method: VOA-503.1

Analyzed Date: 19-JUL-91

Sample Location: BEFORE FILTER

Comments:

CAS NO.	Compound	Detection Limit ug/l	Conc. ug/l	Data Qualifier
	_	_		77
71-43-2	Benzene	.5		Ŭ
79-01-6		. 5		U
108-88-3		• 5		U
127-18-4		• 5		Ŭ
108-90-7		• 5		Ŭ
100-41-4	Ethylbenzene	.5		U
106-42-3 108-38-3	p-Xylene	.5		U
108-38-3	m-Xylene	.5 .5		U
95-47-6	o-Xylene	•5		U
98-82-8	Isopropylbenzene	.5		U
100-42-5	Styrene	.5		U
103-65-1	n-Propylbenzene	.5		Ŭ
98-06-6		.5		Ŭ
95-49-8	2-Chlorotoluene	.5		U
106-43-4	4-Chlorotoluene	.5		U
108-86-1		.5		U
135-98-8		.5		U
108-67-8		.5		U
99-87-6		.5 .5		U
95-63-6	1 2 4-Trimothylhonzone	.5		U
106-46-7	1,4-Dichlorobenzene	.5		Ŭ
541-73-1	1,3-Dichlorobenzene	•5		U
104-51-8		.5		U
95-50-1	1,2-Dichlorobenzene	•5		U
87-68-3		.5		U
91-20-3		.5		Ŭ
120-82-1	1,2,4-Trichlorobenzene	•5		Ŭ
87-61-6	1,2,3-Trichlorobenzene	.5		Ŭ

#### Volatile Organics Analysis Data Sheet

Client Name: Northeast Solite Corp.

Sample Number: 101084-02 Project Name: STANDARD

Date Collected: 09-JUL-91 Matrix: 1 DrinkH20

Date Received: 09-JUL-91 Method: VOA-502.1

Analyzed Date: 19-JUL-91

Sample Location: AFTER FILTER

Comments:

		Detection		
		Limit	Conc.	Data
CAS NO.	Compound	ug/l	ug/l	Qualifier
74-87-3	Chloromethane	.5		Ŭ
74-83 <b>-</b> 9	Bromomethane	•5		Ŭ
75-71-8	Dichlorodifluoromethane	.5		Ŭ
75-01-4	Vinyl Chloride	.5		Ŭ
75-00-3	Chloroethane	•5		Ŭ
75-09-2	Methylene Chloride	•5		Ŭ
75-69-4	Trichlorofluoromethane	.5 .5 .5		Ŭ
75-35-4	1,1-Dichloroethene	•5		Ŭ
74-97-5	Bromochloromethane	.5	-	Ŭ
75-34-3	1,1-Dichloroethane	•5		Ŭ
156-59-4	Trans-1,2-Dichloroethene	.5 .5 .5		Ŭ
156-59-4	cis-1,2-Dichloroethene	.5		Ŭ
67-66-3	Chloroform	.5		Ŭ
107-06-2	1,2-Dichloroethane	•5		Ŭ
590-20-7	2,2-Dichloropropane	.5		Ŭ
74-95-3	Dibromomethane	.5		Ŭ
71-55-6	1,1,1-Trichloroethane	• 5		Ŭ
56-23-5	Carbon Tetrachloride	• 5		Ŭ
75-27-4	Bromodichloromethane	•5		Ŭ
78-87-5	1,2-Dichloropropane	•5		Ŭ
563-58-6	1,1-Dichloropropene	•5 •5 •5		Ŭ
79-01-6	Trichloroethene	• 5		U
142-28-9	1,3-Dichloropropane	.5		Ŭ
124-48-1	Dibromochloromethane	.5 .5		Ŭ
79-00-5	1,1,2-Trichloroethane	.5		Ü
106-93-4	1,2-Dibromoethane	.5		Ŭ
75-25-2	Bromoform	.5		Ü
630-20-6	1,1,1,2-Tetrachloroethane			Ŭ
96-18-4	1,2,3-Trichloropropane	.5		Ü
79-34 <b>-</b> 5	1,1,2,2-Tetrachloroethane	e .5		Ü

Continued ...

Samplenum: 101084-02

Method: VOA-502.1 continued

CAS NO.	Compound	ug/l	ug/l	Qualifier
127-18-4	Tetrachloroethene	.5		. 11
108-90-7	Chlorobenzene	•5	•	Ŭ -
108-86-1	Bromobenzene	.5		U
95-49-8	2-Chlorotoluene	•5		Ŭ
106-43-4	4-Chlorotoluene	.5		Ŭ
541-73-1	1,3-Dichlorobenzene	• 5		Ŭ
95-50-1	1,2-Dichlorobenzene	.5		Ŭ
106-46-7	1,4-Dichlorobenzene	.5		Ü
	cis-1,3-Dichloropropene	• 5		Ŭ
10061-02-6	trans-1.3-Dichloropropene	. 5		Ü

 315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

\*\*\*\*\*\*\*\*\*\*\*

ANALYTICAL REPORT N.E. SOLITE PO BOX 437 NY 12456 MT.MARION Report Date: 29-0CT-91 Project: STANDARD 104491 Lab Number: Sample Number(s): 104491-01 to 104491-02 Ronald A. Bayer Laboratory Director

EnviroTest Laboratories Inc. \_

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

NYSDOH 10142

Client Name: N.E. SOLITE

Project Name: STANDARD

ETL Sample Number: 104491-01

Client I.D.: WELL BEFORE LIGHT

Date Collected: 15-0CT-91

Matrix: 1 DrinkH20

Date Received: 15-0CT-91

Percent Solid: NA

Date Analyzed: 22-OCT-91

Method: VOA-502.1

Comments:

		Detection Limit	Conc.	Data
CAS NO.	Compound	ug/l	ug/l	Qualifier
74-87-3	Chloromethane	.5	- 45.32	U
74-83-9	Bromomethane	.5		U
75-71-8	Dichlorodifluoromethane	.5		Ü
75-01-4 75-00-3	Vinyl Chloride Chloroethane		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
75-09-2	Methylene Chloride	.5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ŭ
75-69-4	Trichlorofluoromethane	. 20 <b>5</b> .81 db.21		U
<i>7</i> 5-35-4	1,1-Dichloroethene	.5		U
74-97-5	Bromochloromethane			U
75-34-3	1,1-Dichloroethane	-5 -1.   -1.5   -1.     1.5	An Consessor receive	U
156-59-4 156-59-4	Trans-1,2-Dichtoroethene cis-1,2-Dichtoroethene		1 2 E. S.	IJ
67-66-3	Chloroform	.5	1758	Ü
107-06-2	1,2-Dichloroethane	.5		• U
590-20-7	2,2-Dichloropropane	- <u>5</u>		U
74-95-3	Dibromomethane	.5 5 💨		U
71-55-6 56-23-5	1,1,1-Trichloroethane Carbon Tetrachloride			Ü
75-27-4	Bromodichloromethane	.5 	45.1.38338	Ü
78-87-5	1.2-Dichloropropane	.5 .5		U
563-58-6	1,1-Dichloropropene			U
79-01-6	Trichloroethene	.5 	20 1 Study WW88	U
142-28-9 124-48-1	1,3-Dichloropropane Dibromochloromethane		1813.0 (100 A ABA	11
79-00-5	1,1,2-Trichtoroethane	.5 .5	+ # J/ve#25	· · · · · · · · · · · · · · · · · · ·
106-93-4	1,2-Dibromoethane	5		U
75-25-2	Bromoform	<b>.</b> 5		U
630-20-6	1,1,1,2-Tetrachloroethane	.5 .5 .5 .5 .5	1 J. J. J. M.	U
96-18-4 79-34-5	1,2,3-Trichloropropane 1,1,2,2-Tetrachloroethane	. o 5	110,000,00	U
127-18-4	Tetrachloroethene	- 25	-10, N \$38	Ü
108-90-7	Chlorobenzene	.5		
108-86-1	Bromobenzene	. <u>5</u> .**	a de servición de la compaña d	Ü
95-49-8 106-43-4	2-Chlorotoluene 4-Chlorotoluene	.5 ~1 45 . ~ ~!**	4 8 Jones 100 page 20	b
541-73-1	1.3-Dichlorobenzene	.5		Ū
95-50-1	1,2-Dichtorobenzene	n in an		Ü
106-46-7	1,4-Dichlorobenzene	.5	Maria de la compa	U 
10061-01-5	cis-1,3-Dichloropropene			e. e. <b>u</b> niteration
10061-02-6	trans-1,3-Dichloropropene	.5		U

EnviroTest 55 Laboratories Inc. \_

NYSDOH 10142

CTOOHS PH-0054

Client Name: N.E. SOLITE

Project Name: STANDARD

ETL Sample Number: 104491-01

Client I.D.: WELL BEFORE LIGHT

Date Collected: 15-OCT-91

Matrix: 1 DrinkH20

Date Received: 15-0CT-91

Percent Solid: NA

...

Date Analyzed: 22-0CT-91

Method: VOA-503.1

Comments:

		Detection Limit	Conc.	Data
 CAS NO.	Compound	ug/l	ug/l	Qualifier
71-43-2	Benzene	9-4-1-88		U
79-01-6	Trichloroethene	<b>.5</b>		U
	Toluene			Ü
127-18-4	Tetrachloroethene		141 MYC (	U 11 21.04.811101 1
108-90-7 100-41-4	Chlorobenzene		sa, cara de está de es	
	Ethylbenzene p-Xylene	en ole <del>ra era era i <b>S</b>ala co</del> ntarin ence	100	
108-38-3	p-Xylene m-Xylene		PAN 7.32 BAS	11
95-47-6			u	บัง
98-82-8	Isopropylbenzene	.5		Ü
100-42-5	Styrene	- 1		U
103-65-1	n-Propylbenzene	.5		Ü
	tert-Butylbenzene	and the second section of the sectio	4 - 1	U
95-49-8	2-Chlorotoluene	-3		U
106-43-4				U
108-86-1	Bromobenzene		The state of the s	U sama anakana ma
135-98-8 108-67-8	sec-Butylbenzene	and Valley <b>and an interp</b> edies on the con-	twist to	
99-87-6	1,3,5-Trimethylbenzene 4-Isopropyltoluene	Straff and rational strain and the		ะ เราะ <b>บั</b>
95-63-6	1 2 4-Trimethylbenzene	12 1 2 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The second	u u
	1.4-Dichtorobenzene	.5 		25 Y U S S S
541- <i>7</i> 3-1	1.3-Dichlorobenzene	.5		IJ
104-51-8	n-Butylbenzene	\$1. 40 (1998 <b>).</b> \$1. 40 (1998).		Ü
95-50-1	1.2-Dichlorobenzene	.5		υ
87-68-3	Hexachiorobutadiene	24. T. 44. T. 5. T. S. S. S. S. S.		U
91-29-3	Naphthalene	grin, Burgin (1 <mark>.5</mark> turkigad), a iliy	ng ang managan ang managan	U To the Paragraph of the Labor
120-82-1		원 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	milianin ing Patrian	, i i i i i i i i i i i i i i i i i i i
87-61-6	1,2,3-Trichlorobenzene	.5		U



Client Name: N.E. SOLITE

Project Name: STANDARD

ETL Sample Number: 104491-02

Client I.D.: AFTER UV LIGHT

Date Collected: 15-007-91

Matrix: 1\_DrinkH20.

Date Received: 15-0CT-91

Percent Solid: NA

Date Analyzed: 22-0CT-91

Method: VOA-502.1

Comments:

			Detection Limit	Conc.	Data
	CAS NO.	Compound	ug/l	ug/l	Qualifier
	74-87-3	W. 60-10Th TV	.5		บ
	74-83-9	Bromomethane	.5		U
	75-71-8	Dichlorodifluoromethane	. <b>. 5</b> 1		U
	75-01-4	Vinyl Chloride			U
	75-00-3	Chloroethane	🛂 tuki — usibutalis	- 5.500.00000000000000000000000000000000	U
	75-09-2	Methylene Chloride	.) 		U XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	75-69-4 75-35-4	Trichloroftuoromethane 1,1-Dichloroethene	요. 그 이 그 이 그를 모르고 바다.	a bit. Tarigateas ay dear easta	3 <b>U</b> 3.3033.0030
	73-35-4 74-97-5	Bromochloromethane		A.C. 1-1 19-3-328-3-40307-7333338750	0 000000000000000000000000000000000000
	75-34-3	1,1-Dichloroethane		- IT IT WAS DEPARTED TO SELECTION	8. <b>4</b> :2882.82 (48:29) - 11
	156-59-4	Trans-1,2-Dichioroethene	e <b>is</b> te e la companya	7.77.77.77.77	Ü
	156-59-4	cis-1,2-Dichloroethene	.5		Ü
	67-66-3	Chloroform	.5	7994 (8000000000000000000000000000000000000	0
	107-06-2	1,2-Dichloroethane	.5		บ
:	590-20-7	2,2-Dichloropropane	.5		U
	74-95-3	Dibromomethane	.5		U
	71+55-6	1,1,1-Trichloroethane	.5		U
	56-2 <b>3-</b> 5	Carbon Tetrachloride	.5	10/10/30/30/30 + 6/9000	U
	75-27-4	BromodichLoromethane	<b>-</b> 5		ń
	78-87-5	1,2-Dichloropropane	.5	A	U .
	563-58-6	1,1-Dichloropropene	···· :		# <b>U</b> E#########
	79-01-6	Trichloroethene			U 8940-000-00-000-00
	142-28-9 124-48-1	1,3-Dichloropropane Dibromochloromethane	: 123		:U::::::::::::::::::::::::::::::::::::
	79-00 <del>-</del> 5	1,1,2-Trichloroethane		i che elleriscosi	ne e
	106~93-4	1,2-Dibromoethane	5	19. 19.0 PH - C 19.4/40 19.790 A.A.	<b>₩</b>
	75-25-2	Bromoform	K <b>iš</b> io pu medpadamo	NATE   1886   1886   1886   1886   1886   1886   1886   1886   1886   1886   1886   1886   1886   1886   1886	u company
	630-20-6	1,1,1,2-Tetrachloroethane	.5	20 1 2 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2	U
	96-18-4	1,2,3-Trichloropropane	<b>1.5</b>		U
	79-34-5	1,1,2,2-Tetrachloroethane	.5		บ
	127-18-4	Tetrachloroethene	\$ <b>.5</b> 4.46 (1. 1. )		บ
	108-90-7	Chlorobenzene	.5	5 ft 5	U experience rous hope he
	108-86-1	Bromobenzene	.5		n
	95-49-8	2-Chlorotoluene		. 24 2,78,835 ,592-380344	U
	106-43-4	4-Chlorotoluene			U STATE OF THE STA
	541-73-1 95-50-1	1,3-Dichlorobenzene 1,2-Dichlorobenzene	.) (15)	N 1 - 3 P. P. PAR 199 P. HORES	o Smillion of the
	95-50-1 106-46-7	1,4-Dichlorobenzene	:• <u>5</u>	15-49, 4988888900000000	::• 
	100-40-7	cis-1,3-Dichloropropene			Ŭ.
	10061-02-6	trans-1,3-Dichloropropene	_5	"000000 - 1002	u u u u u u u u u u u u u u u u u u u

Client Name: N.E. SOLITE

Project Name: STANDARD

ETL Sample Number: 104491-02

Client I.D.: AFTER UV LIGHT

Date Collected: 15-0CT-91

Matrix: 1 Drink#20

Date Received: 15-0CT-91

Percent Solid:

Date Analyzed: 22-0CT-91

Method: VOA-503.1

Comments:

		Detection Limit	Conc.	Data
CAS NO.	Compound	ug/l	ug/l	Qualifier
71-43-2	Benzene	5, 5, 1, 1, 2, 1, 1, 2, 1, 1, 2, 1, 1, 1, 2, 1, 1, 2, 1, 1, 2, 1, 1, 2,	表现第二十二十分 10	U
79-01-6	Trichloroethene	.5	B 3 3 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5	U 255 THE RESERVOINT AND THE TOTAL T
108-88-3 127-18-4	Toluene Tetrachloroethene	<u>.5</u>		, j
108-90-7	Chlorobenzene	.5.5		com in the contract of the con
100-41-4	Ethylbenzene	5		U
	p-Xylene	.5		U
108-38-3	m-Xylene			U
95-47-6	o-Xylene	.5		บ
98-82-8	Isopropylbenzene	. 5		<b>U</b> 
100-42-5	Styrene	.5		User Control
103-65-1 98-06-6	n-Propylbenzene tert-Butylbenzene		arandawwww.an.u., packay	Destruction and the second
95-49-8	2-Chlorotoluene	5		omen.≌es cas de la U
106-43-4	=	a at let a 22 <b>15</b> Reporting	·家族医療的 1.4%	Ü
108-86-1	Bromobenzene	.5		U
135-98-8	sec-Butylbenzene			U
108-67-8	1.3.5-Trimethvlbenzene	.5	- 2 AVOV	<b>U</b>
99-87-6	4-1sopropyltoluene			o u
95-63-6	1,2,4-Trimethylbenzene	. <b>)</b> - 10000 <b>3=</b> 000000000000000000000000000000000000	1995 NO - 288 8864 1 To 11 C 11 8 TO 12	U 
106-46-7 541-73-1	1,4-Dichlorobenzene 1,3-Dichlorobenzene	-		.33743.2 <b>9</b> 389.3353.3557
104-51-8	n-Butylbenzene			Ŭ
95-50-1	1,2-Dichlorobenzene	.5	1 mpm / 10	n 
87-68-3	Hexachlorobutadiene	. 10.189 <b>. is</b> 10.000		ช
91-20-3	Naphthalene	.5		ប
120-82-1	1,2,4-Trichlorobenzene			U
87-61-6	1,2,3-Trichlorobenzene	.5		U

EnviroTest 🚟 Laboratories Inc. \_

NYSDOH 10142

300 FLATBUSH AVE.

KINGSTON, N.Y. 12401

# NEW YORK STATE DEPARTMENT OF HEALTH WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

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PAGE 1
                         RESULTS OF EXAMINATION
                                                                FINAL REPORT
SAMPLE ID: 928080178 SAMPLE RECEIVED:92/04/21/ CHARGE: 19.00 PROGRAM: 110:STATE SUPERFUND ANALYTICAL SERVICES
                         DRAINAGE BASIN: GAZETTEER CODE:5524
JGERTIES V. GOUNTY:ULSTER
LATITUDE: . LONGITUDE: . LOCATION: N.E. SOLITE SITE #356005 BATH TAP
REPORTING LAB: TOX:LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: 5022W-KET: VOLATILE ORGANICS & KETONES IN WATER
SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL
TIME OF SAMPLING: 92/04/20 11:20
                                                     DATE PRINTED:92/05/20
ANALYSIS: 5022W VOLATILE ORGANICS IN WATER-EPA 502.2 (DES 310-33)
                        DATE REPORTED: 92/04/29 REPORT MAILED OUT
DICHLORODIFLUOROMETHANE (FREON-12) < 0.5 MCG/L < 0.5 MCG/L
 VINYL CHLORIDE
                                            < 0.5 MCG/L
 BROMOMETHANE
                                            < 0.5 MCG/L
                                       < 0.5 MCG/L
< 0.5 MCG/L
< 0.5 MCG/L
 CHLOROETHANE
 TRICHLOROFLUOROMETHANE (FREON-11)
TRICHEUROFEGORO...

1,1-DICHLOROETHENE

METHYLENE CHLORIDE (DICHLOROMETHANE)

TRANS-I,2-DICHLOROETHENE

1,1-DICHLOROETHANE

2,2-DICHLOROPROPANE

<0.5 MCG/L

HLOROFORM CO.5 MEG/L
BROMOCHLOROMETHANE CO.5 MEG/L
1,1,1-TRICHLOROETHANE CO.5 MCG/L
                                           < 0.5 MCG/L
 1,1-DICHLOROPROPENE
                         < 0.5 MCG/L
< 0.5 MCG/L
 CARBON TETRACHLORIDE
 1,2-DICHLOROETHANE
                                           < 0.5 MCG/L
 BENZENE
                                            < 0.5 MCG/L
 TRICHLOROETHENE
                           < 0.5 MCG/L
< 0.5 MCG/L
 1,2-DICHLOROPROPANE
 BROMODI CHLOROMETHANE
                                        < 0.5 MCG/L
 DIBROMOMETHANE
                                        < 0.5 MCG/L
< 0.5 MCG/L
< 0.5 MCG/L
 CIS-1,3-DICHLOROPROPENE
 TOLUENE
 TRANS-1,3-DICHLOROPROPENE
 1,1,2-TRICHLOROETHANE
 1,3-DICHLOROPROPANE
                                           < 0.5 MCG/L
                         < 0.5 MCG/L
< 0.5 MCG/L
 TETRACHLOROETHENE
 DIBROMOCHLOROMETHANE
                  *** CONTINUED ON NEXT PAGE ****
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     DIRECTOR OF ENVIRONMENTAL SANITATION
    ULSTER COUNTY HEALTH DEPT.
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PAGE 2

RESULTS OF EXAMINATION

FINAL REPORT

```
SAMPLE ID: 928080178 SAMPLE RECEIVED: 92/04/21/ CHARGE: 19.00
POLITICAL SUBDIVISION: SAUGERTIES V.

LOCATION: N.E. SOLITE SITE #356005 BATH TAP
                                                                                                                DATE PRINTED:92/05/20
 TIME OF SAMPLING: 92/04/20 11:20
  .----PARAMETER-----
                                                                                               -----RESULT----
  1,2-DIBROMOETHANE (EDB)
                                                                                             < 0.5 MCG/L
                                                                                            < 0.5 MCG/L
  1.1.1.2-TETRACHLOROETHANE < 0.5 MCG/L
ETHYLBENZENE < 0.5 MCG/L
  M/P-XYLENE
                                                                                             < 0.5 MCG/L
  O-XYLENE
                                                                                             < 0.5 MCG/L
  STYRENE < 0.5 MCG/L ISOPROPYLBENZENE (Cumene) < 0.5 MCG/L
  BROMOFORM
                                                                                             < 0.5 MCG/L
  1.1.2.2-TETRACHLOROETHANE
                                                                                             < 0.5 MCG/L
  1,2,3-TRICHLOROPROPANE < 0.5 MCG/L
N-PROPYLBENZENE < 0.5 MCG/L
  BROMOBENZENE
                                                                                             < 0.5 MCG/L
 1,3,5-TRIMETHYLBENZENE < 0.5 MCG/L
0-CHLOROTOLUENE < 0.5 MCG/L
P-CHLOROTOLUENE < 0.5 MCG/L
TERT-BUTYLBENZENE < 0.5 MCG/L
  1,2,4-TRIMETHYLBENZENE
SEC-BUTYLBENZENE
                                                                                             < 0.5 MCG/L
                                                                               < 0.5 MCG/L
< 0.5 MCG/L
< 0.5 MCG/L
  4-ISOPROPYLTOLUENE (p-Cymene)
1,3-DICHLOROBENZENE
1,4-DICHLOROBENZENE
                                                                                            < 0.5 MCG/L
 N-BUTYLBENZENE < 0.5 MCG/L
1,2-DICHLOROBENZENE < 0.5 MCG/L
  1,2-DIBROMO-3-CHLOROPROPANE
                                                                                           < 0.5 MCG/L
  1,2,4-TRICHLOROBENZENE
                                                                                          < 0.5 MCG/L
 HEXACHLOROBUTADIENE (C-46) < 0.5 MCG/L
NAPHTHALENE < 0.5 MCG/L
1,2,3-TRICHLOROBENZENE < 0.5 MCG/L
PH OF VOLATILE ALIQUOT

ANALYSIS: KET KETONES - PURGE & TRAP TECHNIQUE (DES 310-25)
                                                  DATE PRINTED: 92/05/20 FINAL REPORT
  -----RESULT-----
  2-BUTANONE (METHYL ETHYL KETONE) < 10. MCG/L
                                                                                           < 10. MCG/L
  4-METHYL-2-PENTANONE (MIBK)
  ACETONE
                                                                                           < 10. MCG/L
 METHYL TERT BUTYL ETHER < 10. MCG/L
                  FOLLOWING PARAMETERS NOT PART OF TEST PATTERN
ANALYSIS: HE ICP-THE SICP GROUPING TO A SECOND SECO
    -----PARAMETER------
                                                                                        -----RESULT-----
  MERCURY
                                                                                           < 0.2 MCG/L
                                < TO. MCG/L
< 5. MCG/L
  ARSENIC
```

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

PAGE 3

#### RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 928080178 SAMPLE RECEIVED: 92/04/21/ CHARGE: 19.00 POLITICAL SUBDIVISION: SAUGERTIES V. COUNTY: ULSTER LOCATION: N.E. SOLITE SITE #356005 BATH TAP
TIME OF SAMPLING: 92/04/20 11:20

DATE PRINTED:92/0

DATE PRINTED:92/05/20

The state of the s			
PARAMET	TER		RESULT
LEAD -	•	. < 10	O. MCG/L
BERYLLIUM		•	1. MCG/L
SILVER	5.4.5		O. MCG/L
BARIUM			B. MCG/L
CADMIUM		the same of the contract of th	5. MCG/L
COBALT			5. MCG/L
CHROMIUM	V (A) (V)	-	5. MCG/L
COPPER		and the first term of the first terms.	B. MCG/L
IRON			6. MCG/L
MANGANESE			5. MCG/L
NICKEL	: " 3	_	5. MCG/L
STRONTIUM		and the second of the second of the second	D. MCG/L
TITANIUM	•		5. MCG/L
VANADIUM		-	5. MCG/L
ZINC		_	9. MCG/L
HOLYBDENUM		to the second to	D. MCG/L
ANTIMONY	114.34		D. MCG/L
TIN			D. MCG/L
THALLIUM - SALESS.	: *	-	O. MCG/L
ALUMINUM	1 여러 소설 휴	37 A. C. C. C. C. Control of the	D. MCG/L
CALCIUM	esperator in the live of waste swift Audi	ANY CHARLES AND CONTRACTOR AND AND ANY	.4 MG/L
POTASSIUM			.7 MG/L
MAGNESTUM	in a grade t		.5 MG/L
SODIUM	이 그는 없었다.	新文· 1、14、110000 11、 高点: 1点: 1.4、1、1。	.8 MG/L
T. T. T. T. T. T. War (2001) 11 2 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A 1971 1. 3.	END OF REPORT	

# NEW YORK STATE DEPARTMENT OF HEALTH WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 928080179 SAMPLE RECEIVED:92/04/21/ CHARGE: 19.00

PROGRAM: I10:STATE SUPERFUND ANALYTICAL SERVICES

SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE:5524

POLITICAL SUBDIVISION:SAUGERTIES V. COUNTY:ULSTER

LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: SAGAZI KIT TAP SITE #356005

DESCRIPTION:CHERI SAGAZI 5094 OLD KINGS HWY SAUGERTIES ---

DESCRIPTION: CHERI SAGAZI 5094 OLD KINGS HWY SAUGERTIES - - REPORTING LAB: 80: LABORATORY OF ANALYTICAL CHEMISTRY

TEST PATTERN: 5022W-KET: VOLATILE ORGANICS & KETONES IN WATER SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL

TIME OF SAMPLING: 92/04/20 11:45 DATE PRINTED:92/05/20

ANALYSIS: 5022W VOLATILE ORGANICS IN WATER-EPA 502.2 (DES 310-33)

DATE REPORTED: 92/04/29 REPORT MALLED OUT

-----PARAMETER-----------RESULT----< 0.5 MCG/L DICHLORODIFLUOROMETHANE (FREON-12) < 0.5 MCG/L CHLOROMETHANE VINYL CHLORIDE < 0.5 MCG/L BROMOMETHANE < 0.5 MCG/L CHLOROETHANE < 0.5 MCG/L < 0.5 MCG/L TRICHLOROFLUOROMETHANE (FREON-11) < 0.5 MCG/L 1,1-BICHLOROETHENE METHYLENE CHLORIDE (DICHLOROMETHANE) < 0.5 MCG/L TRANS-1,2-DICHLOROETHENE < 0.5 MCG/L < 0.5 MCG/L 1,1-DICHLOROETHANE 2,2-DICHLOROPROPANE < 0.5 MCG/L CIS-1,2-DICHLOROETHENE < 0.5 MCG/L CHLOROFORM < 0.5 MCG/L < 0.5 MCG/L BROMOCHLOROMETHANE 1,1,1-TRICHLOROETHANE < 0.5 MCG/L 1,1-DICHLOROPROPENE < 0.5 MCG/L CARBON TETRACHLORIDE < 0.5 MCG/L 1,2-DICHLOROETHANE < 0.5 MCG/L BENZENE < 0.5 MCG/L TRICHLOROETHENE < 0.5 MCG/L < 0.5 MCG/L < 0.5 MCG/L 1,2-DICHLOROPROPANE BROMODI CHLOROMETHANE DIBROMOMETHANE < 0.5 MCG/L CIS-1,3-DICHLOROPROPENE < 0.5 MCG/L TOLUENE < 0.5 MCG/L < 0.5 MCG/L TRANS-1,3-DICHLOROPROPENE 1,1,2-TRICHLOROETHANE < 0.5 MCG/L 1,3-DICHLOROPROPANE < 0.5 MCG/L < 0.5 MCG/L TETRACHLOROETHENE DIBROMOCHLOROMETHANE < 0.5 MCG/L

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\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

DIRECTOR OF ENVIRONMENTAL SANITATION ULSTER COUNTY HEALTH DEPT.
300 FLATBUSH AVE.
KINGSTON.N.Y. 12401

SUBMITTED BY: MAPSFONE

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PAGE 2
                    RESULTS OF EXAMINATION
                                                   FINAL REPORT
SAMPLE ID: 928080179 SAMPLE RECEIVED: 92/04/21/ CHARGE: 19.00
POLITICAL SUBDIVISION: SAUGERTIES V. COUNTY: ULSTER
LOCATION: SAGAZI KIT TAP SITE #356005
TIME OF SAMPLING: 92/04/20 11:45
                                            DATE PRINTED:92/05/20
 -----PARAMETER----
                                   -----RESULT------
< 0.5 MCG/L
 1,2-DIBROMOETHANE (EDB)
                              < 0.5 MCG/L
 CHLOROBENZENE
                       < 0.5 MCG/L
< 0.5 MCG/L
 1,1,1,2-TETRACHLOROETHANE
 ETHYLBENZENE
 M/P-XYLENE
                                    < 0.5 MCG/L
 0-XYLENE
                                    < 0.5 MCG/L
 STYRENE
                       < 0.5 MCG/L
< 0.5 MCG/L
                                  < 0.5 MCG/L
 ISOPROPYLBENZENE (Cumene)
 BROMOFORM
                                    < 0.5 MCG/L
 1,1,2,2-TETRACHLOROETHANE
                                    < 0.5 MCG/L
 1,2,3-TRICHLOROPROPANE
                                 < 0.5 MCG/L
                                   < 0.5 MCG/L
< 0.5 MCG/L
N-PROPYLBENZENE
 BROMOBENZENE
                                   < 0.5 MCG/L
 1,3,5-TRIMETHYLBENZENE
O-CHLOROTOLUENE
                                < 0.5 MCG/L
P-CHLOROTOLUENE
                                 < 0.5 MCG/L
TERT-BUTYLBENZENE
                                   < 0.5 MCG/L
1,2,4-TRIMETHYLBENZENE
                                   < 0.5 MCG/L
SEC-BUTYLBENZENE
4-ISOPROPYLTOLUENE (p-Cymene)
                                < 0.5 MCG/L
< 0.5 MCG/L
1,3-DICHLOROBENZENE
                                   < 0.5 MCG/L
1,4-DICHLOROBENZENE
                                   < 0.5 MCG/L
N-BUTYLBENZENE
                                  < 0.5 MCG/L
                                  < 0.5 MCG/L
1,2-DICHLOROBENZENE
1,2-DIBROMO-3-CHLOROPROPANE
                                   < 0.5 MCG/L
1,2,4-TRICHLOROBENZENE
                                   < 0.5 MCG/L
HEXACHLOROBUTADIENE (C-46)
                                   < 0.5 MCG/L
                                  < 0.5 MCG/L
NAPHTHALENE
1,2,3-TRICHLOROBENZENE
                                   < 0.5 MCG/L
PH OF VOLATILE ALIQUOT
                    KET KETONES - PURGE & TRAP TECHNIQUE (DES 310-25)
                   DATE PRINTED: 92/05/20 FINAL REPORT
2-BUTANONE (METHYL ETHYL KETONE) < 10. MCG/L
4-METHYL-2-PENTANONE (MIBK)
ACETONE
                                   < 10. MCG/L
METHYL TERT BUTYL ETHER
       FOLLOWING PARAMETERS NOT PART OF TEST PATTERN
ANALYSIS: ICP-1 ICP GROUPING 1
                                  -----RESULT----
   -----PARAMETER----
MERCURY
                                   < 0.2 MCG/L
ARSENIC
                                   < 10. MCG/L
                                 < 5. MCG/L
```

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

TITANIUM VANADIUM

PAGE 3 RESULTS OF EXAMINATION SAMPLE ID: 928080179 SAMPLE RECEIVED: 92/04/21/ SAMPLE CHARGE: 19.00 POLITICAL SUBDIVISION: SAUGERTIES V. COUNTY: ULSTER

LOCATION: SAGAZI KIT TAP SITE #356005 TIME OF SAMPLING: 92/04/20 11:45 DATE PRINTED:92/05/20 BERYLLIUM < 1. MCG/L SILVER < 10. MCG/E
BARIUM 184. MCG/E CADMIUM < 5. MCG/L COBALT < 5. MCG/L < 5. MCG/L < 5. MCG/L CHROMIUM < 10. MCG/L IRON MANGANESE 5. MCG/L < 5. MCG/L 2450. MCG/L NICKEL STRONTIUM

< 5. MCG/L

< 5. MCG/L

211. MCG/E

< 20. MCG/L MOLYBDENUM < 80. MCG/L ANTIMONY < 50. MCG/L THALE IUM ALUMINUM < 80. MCG/L < 100. MCG/L

CALCIUM 69.5 MG/L POTASSIUM 1.5 MG/L 14.5 MG/L 18.4 MG/L MAGNES LUM SODIUM \*\*\* END OF REPORT \*\*\*

#### NEW YORK STATE DEPARTMENT OF HEALTH WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1 RESULTS OF EXAMINATION FINAL REPORT

SAMPLE ID: 928080177 SAMPLE RECEIVED: 92/04/21/ CHARGE: 19.00 E. PROGRAM: 110:STATE SUPERFUND ANALYTICAL SERVICES

SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE:5524
POLITICAL SUBDIVISION:SAUGERTIES V. COUNTY:ULSTER
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: FIN PAN TANK TAP SITE #356005
DESCRIPTION:OLD KINS HWY AND TISSEL RD MT. MARION

REPORTING LAB: - . \_ . TOX:LAB FOR ORGANIC ANALYTICAL CHEMISTRY TEST PATTERN: 5022W-KET: VOLATILE CORGANICS & KETONES IN WATER SAMPLE TYPE: 120:PRIVATE WATER SUPPLY - DRILLED WELL

TIME OF SAMPLING: 92/04/20 13:55 DATE PRINTED:92/05/20

ANALYSIS: 5022W VOLATILE ORGANICS IN WATER-EPA 502.2 (DES 310-33) DATE REPORTED: 92/04/29 REPORT MAILED OUT

-----RESULT----< 0.5 MCG/L VINYL CHLORIDE BROMOMETHANE < 0.5 MCG/L CHLOROETHANE

CHLOROFLUOROMETHANE

CHLOROFLUOROMETH METHYLENE CHLORIDE (DICHLOROMETHANE) < 0.5 MCG/L TRANS-1,2-DICHLOROETHENE <0.5 MCG/L
1,1-DICHLOROETHANE <0.5 MCG/L 2,2-DICHLOROPROPANE < 0.5 MCG/L < 0.5 MCG/L CIS-1,2-DICHLOROETHENE CHLOROFORM <0.5 MCG/L BROMOCHLOROMETHANE <0.5 MCG/L < 0.5 MCG/L 1,1,1-TRICHLOROETHANE 1.1-DICHLOROPROPENE < 0.5 MCG/L < 0.5 MCG/L < 0.5 MCG/L CARBON TETRACHLORIDE 1,2-DICHLOROETHANE < 0.5 MCG/L < 0.5 MCG/L TRICHLOROETHENE < 0.5 MCG/L 1,2-DICHLOROPROPANE < 0.5 MCG/L BROMODICHLOROMETHANE DIBROMOMETHANE < 0.5 MCG/L CIS-1.3-DICHLOROPROPENE < 0.5 MCG/L TOLUENE 現場 (40.5 MCG/L ) (10.5 MCG/L < 0.5 MCG/L TRANS-1,3-DICHLOROPROPENE < 0.5 MCG/L 1,1,2-TRICHLOROETHANE 1,3-DICHLOROPROPANE < 0.5 MCG/L TETRACHLOROETHENE < 0.5 MCG/L
DIBROMOCHLOROMETHANE < 0.5 MCG/L \*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

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DIRECTOR OF ENVIRONMENTAL SANITATION ULSTER COUNTY HEALTH DEPT. 300 FLATBUSH AVE. KINGSTON, N.Y. 12401

SUBMITTED BY: MAPSTONE

8/2

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RESULTS OF EXAMINATION
                                                     FINAL REPORT
 SAMPLE ID: 928080177 SAMPLE RECEIVED:92/04/21/
 POLITICAL SUBDIVISION: SAUGERTIES V. COUNTY: ULSTER
 LOCATION: FIN PAN TANK TAP SITE #356005
 TIME OF SAMPLING: 92/04/20 13:55
                                             DATE PRINTED:92/05/20
                                     -----RESULT-----
  -----PARAMETER-----
  1,2-DIBROMOETHANE (EDB)
CHLOROBENZENE
                                     < 0.5 MCG/L
  CHLOROBENZENE
                                  -< 0.5 MCG/L
                                    < 0.5 MCG/L
< 0.5 MCG/L
                                   < 0.5 MCG/L
 1,1,1,2-TETRACHLOROETHANE
  ETHYLBENZENE
  M/P-XYLENE
                                      < 0.5 MCG/L
  O-XYLENE
                                     < 0.5 MCG/L
 STYRENE < 0.5 MCG/L
ISOPROPYLBENZENE (Cumene) < 0.5 MCG/L
  BROMOFORM
                                     < 0.5 MCG/L
                                     < 0.5 MCG/L
  1,1,2,2-TETRACHLOROETHANE
                                     < 0.5 MCG/L
< 0.5 MCG/L
                                   < 0.5 MCG/L
  1,2,3-TRICHLOROPROPANE
  N-PROPYLBENZENE
  BROMOBENZENE
  1,3,5-TRIMETHYLBENZENE
                                     < 0.5 MCG/L
  O-CHLOROTOLUENE
                                  < 0.5 MCG/L
  P-CHLOROTOLUENE
                                  < 0.5 MCG/L
  TERT-BUTYLBENZENE
                                     < 0.5 MCG/L
  1.2,4-TRIMETHYLBENZENE
                                     < 0.5 MCG/L
  SEC-BUTYLBENZENE
                                     < 0.5 MCG/L
 4-ISOPROPYLTOLUENE (p-Cymene)
1,3-DICHLOROBENZENE
                                     < 0.5 MCG/L
                                     < 0.5 MCG/L
  1,3-DICHLOROBENZENE
  1,4-DICHLOROBENZENE
                                     < 0.5 MCG/L
                             < 0.5 MCG/L
< 0.5 MCG/L
N-BUTYLBENZENE
  1,2-DICHLOROBENZENE
                                     < 0.5 MCG/L
  1,2-DIBROMO-3-CHLOROPROPANE
  1,2,4-TRICHLOROBENZENE
                                     < 0.5 MCG/L
 HEXACHLOROBUTADIENE (C-46) < 0.5 MCG/L
NAPHTHALENE < 0.5 MCG/L
                                     < 0.5 MCG/L
  1,2,3-TRICHLOROBENZENE
                                     < 0.5 MCG/L
  PH OF VOLATILE ALIQUOT
                         ANALYSIS:
             KET
                     KETONES - PURGE & TRAP TECHNIQUE (DES 310-25)
                     DATE PRINTED: 92/05/20 FINAL REPORT
 ----PARAMETER----
                                ------RESULT-----
                               < 10. MCG/L
 2-BUTANONE (METHYL ETHYL KETONE)
  4-METHYL-2-PENTANONE (MIBK)
                                    < 10. MCG/L
                                     < 10. MCG/L
 ACETONE
                                 10. MCG/L - 10. MCG/L
 METHYL TERT BUTYL ETHER
        FOLLOWING PARAMETERS NOT PART OF TEST PATTERN
------PARAMETER------
                                     < 0.2 MCG/L
 MERCURY
  ARSENIC
                                     < 10. MCG/L
                                      < 5. MCG/L
 SELENIUM
```

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

PAGE 3 RESULTS OF EXAMINATION

SAMPLE ID: 928080177 SAMPLE RECEIVED: 92/04/21/ CHARGE: 19.00
POLITICAL SUBDIVISION: SAUGERTIES V. COUNTY: ULSTER

POLITICAL SUBDIVISION: SAUGERTIES V. LOCATION: FIN PAN TANK TAP SITE #356005

DATE PRINTED:92/05/20 TIME OF SAMPLING: 92/04/20 13:55 Time of Same end. 32,04,20 13.33

LEAD	1.2	RESU MCG/L	LT	
BERYLLIUM	_	MCG/L	• -	
SILVER		MCG/L	e same e	- 257
BARIUM		MCG/L		
CADMIUM		MCG/L	1. 11.1	30.00
COBALT	_	MCG/L		
CHROMIUM	-	MCG/L	1941	97E.
COPPER		MCG/L		
IRON		MCG/L		
MANGANESE	44.	MCG/L		
NICKEL	< 5.	MCG/L	2.1	
STRONTIUM	500.	MCG/L	. :	
TITANIUM	< 5.	MCG/L		
'ANADIUM	< 5.	MCG/L		
CINC YOU TO BE THE COME OF SALES HAVE A CALL OF A	35.	MCG/L		
OLYBDENUM		MCG/L	1 V 1	<u> </u>
ANTIMONY		MCG/L		
TIN	_	MCG/L		
FHALLIUM	- 1. 1	MCG/L		
150 - 2 - 1, 50, 500 F 200 D; 200 F 3 Hadday 2 to 400000000000000000000000000000000000	< 100.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i ya Mir.	. 400%
CALCIUM		MG/L		
POTASSIUM		MG/L		
MAGNESIUM		MG/L		
SODIUM		MG/L	·	
*** END OF REP	ORT **	7C 7C		

#### PAGE 1 RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 928080180 SAMPLE RECEIVED: 92/04/21/ CHARGE: 19.00 PROGRAM: IIO:STATE SUPERFUND ANALYTICAL SERVICES DRAINAGE BASIN: SOURCE ID: GAZETTEER CODE:5524 POLITICAL SUBDIVISION: SAUGERTIES V. COUNTY: ULSTER LATITUDE: . LONGITUDE: . Z DIRECTION: LOCATION: FARM DELI KIT TAP SITE #356005 DESCRIPTION: ANDY AND JACKIE LABARGE 5100 OLD KINGS HWY SAUGERTIES REPORTING LAB: 80: LABORATORY OF ANALYTICAL CHEMISTRY

TEST PATTERN: 5022W-KET: VOLATILE ORGANICS & KETONES IN WATER SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL

TIME OF SAMPLING: 92/04/20 13:30 DATE PRINTED:92/05/21

ANALYSIS: 5022W VOLATILE ORGANICS IN WATER-EPA 502-2 (DES 310-33) DATE PRINTED: 92/05/21 FINAL REPORT (REV)

-----PARAMETER----------RESULT---< 0.5 MCG/L DICHLORODIFLUOROMETHANE (FREON-12) < 0.5 MCG/L CHLOROMETHANE < 0.5 MCG/L VINYL CHLORIDE < 0.5 MCG/L BROMOMETHANE CHLOROETHANE : < 0.5 MCG/L TRICHLOROFLUOROMETHANE (FREON-II) < 0.5 MCG/L < 0.5 MCG/L 1,1-DICHLOROETHENE METHYLENE CHLORIDE (DICHLOROMETHANE) < 0.5 MCG/L TRANS-1,2-DICHLOROETHENE < 0.5 MCG/L
1,1-DICHLOROETHANE < 0.5 MCG/L < 0.5 MCG/L < 0.5 MCG/L 2,2-DICHLOROPROPANE < 0.5 MCG/L CIS-1,2-DICHLOROETHENE < 0.5 MCG/L CHLOROFORM : BROMOCHLOROMETHANE < 0.5 MCG/L < 0.5 MCG/L 1,1,1-TRICHLOROETHANE < 0.5 MCG/L 1,1-DICHLOROPROPENE < 0.5 MCG/L CARBON TETRACHLORIDE < 0.5 MCG/L 1.2-DICHLOROETHANE BENZENE < 0.5 MCG/L TRICHLOROETHENE < 0.5 MCG/L < 0.5 MCG/L 1,2-DICHLOROPROPANE < 0.5 MCG/L BROMODICHLOROMETHANE < 0.5 MCG/L DIBROMOMETHANE < 0.5 MCG/L CIS-1,3-DICHLOROPROPENE < 0.5 MCG/L < 0.5 MCG/L TOLUENE TRANS-1,3-DICHLOROPROPENE < 0.5 MCG/L 1,1,2-TRICHLOROETHANE < 0.5 MCG/L 1,3-DICHLOROPROPANE < 0.5 MCG/L TETRACHLOROETHENE < 0.5 MCG/L DIBROMOCHLOROMETHANE

COPIES SENT TO: CO(1), RO(1), LPHE(2), FED(), LNFQ-P(), LNFQ-L()

\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

DIRECTOR OF ENVIRONMENTAL SANITATION ULSTER COUNTY HEALTH DEPT. 300 FLATBUSH AVE.

KINGSTON, N.Y. 12401

SUBMITTED BY: MAPSTONE

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PAGE 2
                                                      RESULTS OF EXAMINATION
                                                                                                                                        FINAL REPORT
 SAMPLE ID: 928080180 SAMPLE RECEIVED: 92/04/21/ SEE CHARGE:
 POLITICAL SUBDIVISION: SAUGERTIES V. COUNTY: ULSTER
 LOCATION: FARM DELI KIT TAP SITE #356005
 TIME OF SAMPLING: 92/04/20 13:30
                                                                                                                    DATE PRINTED: 92/05/21
                                                                                              -----PARAMETER---
                                                                                            -----RESULT---
   1,2-DIBROMOETHANE (EDB)
                                                                                              < 0.5 MCG/L
   CHLOROBENZENE
                                                                                              < 0.5 MCG/L
  1,1,1,2-TETRACHLOROETHANE
                                                                                         < 0.5 MCG/L
< 0.5 MCG/L
   ETHYLBENZENE
  M/P-XYLENE
                                                                                              < 0.5 MCG/L
   O-XYLENE
                                                                                              < 0.5 MCG/L
  STYRENE WAS A BY TO BE A STEEL AND A STEEL
                                                                                         < 0.5 MCG/L
< 0.5 MCG/L
< 0.5 MCG/L
  ISOPROPYLBENZENE (Cumene)
   BROMOFORM
   1,1,2,2-TETRACHLOROETHANE
                                                                                              < 0.5 MCG/L
                                                                                             < 0.5 MCG/L
  1,2,3-TRICHLOROPROPANE
                                                                                        < 0.5 MCG/L
  N-PROPYLBENZENE
  BROMOBENZENE
                                                                                              < 0.5 MCG/L
  1,3,5-TRIMETHYLBENZENE
                                                                                            < 0.5 MCG/L
                                                                          < 0.5 MCG/L
< 0.5 MCG/L
< 0.5 MCG/L
  O-CHLOROTOLUENE
  P-CHLOROTOLUENE
  TERT-BUTYLBENZENE
  1,2,4-TRIMETHYLBENZENE
SEC-BUTYLBENZENE
                                                                                          < 0.5 MCG/L
                                                                                         < 0.5 MCG/L
                                                                                         < 0.5 MCG/L
  4-ISOPROPYLTOLUENE (p-Cymene)
  1,3-DICHLOROBENZENE
                                                                                             < 0.5 MCG/L
  1,4-DICHLOROBENZENE
                                                                                             < 0.5 MCG/L
                                                                                        < 0.5 MCG/L
  N-BUTYLBENZENE
                                                                                        < 0.5 MCG/L
  1,2-DICHLOROBENZENE
  1,2-DIBROMO-3-CHLOROPROPANE
                                                                                          < 0.5 MCG/L
  1,2,4-TRICHLOROBENZENE
                                                                                         < 0.5 MCG/L
 HEXACHLOROBUTADIENE (C-46)
                                                                                         < 0.5 MCG/L
                                                                                    < 0.5 MCG/L
 NAPHTHALENE
  1,2,3-TRICHLOROBENZENE
                                                                                             < 0.5 MCG/L
  PH OF VOLATILE ALIQUOT
REVISION DATE 92/05/20, ABOVE RESULT VALUE CHANGED, WAS:
                                                  KETONES - PURGE & TRAP TECHNIQUE (DES 310-25)
ANALYSIS:
                                   KET
                                                  DATE REPORTED: 92/05/20 REPORT MAILED OUT
```

FOLLOWING PARAMETERS NOT PART OF TEST PATTERN

\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*

-----RESULT----

< 10. MCG/L

< 10. MCG/L

< 10. MCG/L

< 10. MCG/L

-----PARAMETER-----

4-METHYL-2-PENTANONE (MIBK)

METHYL TERT BUTYL ETHER

ACETONE:

2-BUTANONE (METHYL ETHYL KETONE)

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PAGE I
                  RESULTS OF EXAMINATION FINAL REPORT
SAMPLE ID: 923080181 SAMPLE RECEIVED:92/04/21/ CHARGE: 14.00
PROGRAM: 110:STATE SUPERFUND ANALYTICAL SERVICES
SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE:5500.
POLITICAL SUBDIVISION-HISTER COUNTY: ULSTER
POLITICAL SUBDIVISION: ULSTER
LOCATION: TRIP BLANK-7 ULSTER CO. WATER SAMPLES

COUNTY: ULSTER CO. WATER SAMPLES
                                                 COUNTY: ULSTER
DESCRIPTION: WITH SAMPLE #928080174 TO 928080180 DATE PREPARED: 4/6/92
REPORTING LAB: 80:LABORATORY OF ANALYTICAL CHEMISTRY
TEST PATTERN: 5022W-KET: VOLATILE ORGANICS & KETONES IN WATER
SAMPLE TYPE: 297:FIELD BLANK / TRIP BLANK
TIME OF SAMPLING: 92/04/20 :
                                                    DATE PRINTED: 92/05/20
ANALYSIS: 5022W VOLATILE ORGANICS IN WATER-EPA 502.2 (DES 310-33)
                       DATE REPORTED: 92/04/29 REPORT MAILED OUT
 -----PARAMETER----
                                         -----RESULT-----
 DICHLORODIFLUOROMETHANE (FREON-12) < 0.5 MCG/L
 CHLOROMETHANE
                                          < 0.5 MCG/L
                                          < 0.5 MCG/L
 VINYL CHLORIDE
                                         < 0.5 MCG/L
 BROMOMETHANE
 CHLOROETHANE
                                   < 0.5 MCG/L
TRICHLOROFLUOROMETHANE (FREON-11) < 0.5 MCG/L

1,1-DICHLOROETHENE < 0.5 MCG/L

METHYLENE CHLORIDE (DICHLOROMETHANE) < 0.5 MCG/L

TRANS-1,2-DICHLOROETHENE < 0.5 MCG/L

1,1-DICHLOROETHANE < 0.5 MCG/L

2,2-DICHLOROPROPANE < 0.5 MCG/L
                                < 0.5 MCG/L
 CIS-1,2-DICHLOROETHENE
                        < 0.5 MCG/L
< 0.5 MCG/L
< 0.5 MCG/L
< 0.5 MCG/L
< 0.5 MCG/L
 CHLOROFORM
 BROMOCHLOROMETHANE
                          < 0.5 MCG/L
< 0.5 MCG/L
< 0.5 MCG/L
< 0.5 MCG/L
 1,1,1-TRICHLOROETHANE
 1,1-DICHLOROPROPENE
 CARBON TETRACHLORIDE
 1,2-DICHLOROETHANE
 BENZENE
                               < 0.5 MCG/L
< 0.5 MCG/L
< 0.5 MCG/L
 TRICHLOROETHENE
                           < 0.5 MCG/L
< 0.5 MCG/L
 1,2-DICHLOROPROPANE
 BROMODICHLOROMETHANE
                             < 0.5 MCG/L
< 0.5 MCG/L
< 0.5 MCG/L
< 0.5 MCG/L
DIBROMOMETHANE
 CIS-1,3-DICHLOROPROPENE
TOLUENE
TRANS-1, 3-DICHLOROPROPENE
                                       < 0.5 MCG/L
 1,1,2-TRICHLOROETHANE
1,3-DICHLOROPROPANE
TETRACHLOROETHENE
DIBROMOCHLOROMETHANE
                                          < 0.5 MCG/L
                                       < 0.5 MCG/L
                                           < 0.5 MCG/L
                 *** CONTINUED ON NEXT PAGE ***
COPIES SENT TO: CO(1), RO(1), LPHE(1), FED(), INFO-P(), INFO-L()
    DIRECTOR OF ENVIRONMENTAL SANITATION
    ULSTER COUNTY HEALTH DEPT.
                                          SUBMITTED BY: MAPSTONE
    300 FLATBUSH AVE.
    KINGSTON, N.Y. 12401
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FINAL REPORT
                    RESULTS OF EXAMINATION
PAGE 2
SAMPLE 10: 928080181 SAMPLE RECEIVED: 92/04/21/ CHARGE: 14.00
POLITICAL SUSDIVISION: ULSTER
                                          COUNTY: ULSTER
LOCATION: TRIP BLANK-7 ULSTER CO. WATER SAMPLES
                                              DATE PRINTED:92/05/20
TIME OF SAMPLING: 92/04/20 :
1.1.1.2-TETRACHLOROETHANE < 0.5 MCG/L
ETHYLBENZENE < 0.5 MCG/L
M/P-XYLENE < 0.5 MCG/L
O-XYLENE
                                     < 0.5 MCG/L
                                    < 0.5 MCG/L
STYRENE < 0.5 MCG/L
ISOPROPYLBENZENE (Cumene) < 0.5 MCG/L
                                     < 0.5 MCG/L
BROMOFORM
                                     < 0.5 MCG/L
1,1,2,2-TETRACHLOROETHANE
1.2,3-TRICHLOROPROPANE < 0.5 MCG/L
N-PROPYLBENZENE < 0.5 MCG/L
                                     < 0.5 MCG/L
BROMOBENZENE
                                     < 0.5 MCG/L
 1,3,5-TRIMETHYLBENZENE
O-CHLOROTOLUENE
P-CHLOROTOLUENE
                                  < 0.5 MCG/L
                                < 0.5 MCG/L
TERT-BUTYLBENZENE
1,2,4-TRIMETHYLBENZENE
SEC-BUTYLBENZENE
                                     < 0.5 MCG/L
                                     < 0.5 MCG/L
SEC-BUTYLBENZENE < 0.5 MCG/L
4-ISOPROPYLTOLUENE (p-Cymene) < 0.5 MCG/L
1,3-DICHLOROBENZENE
                                     < 0.5 MCG/L
                                     < 0.5 MCG/L
1,4-DICHLOROBENZENE
N-BUTYLBENZENE < 0.5 MCG/L

1,2-DICHLOROBENZENE < 0.5 MCG/L

1,2-DIBROMO-3-CHLOROPROPANE < 0.5 MCG/L
                                     < 0.5 MCG/L
 1,2,4-TRICHLOROBENZENE
HEXACHLOROBUTADIENE (C-46) < 0.5 MCG/L
NAPHTHALENE < 0.5 MCG/L

1.2.3-TRICHLOROBENZENE < 0.5 MCG/L
1,2,3-TRICHLOROBENZENE
                                     < 0.5 MCG/L
PH OF VOLATILE ALIQUOT
                                        1
             KET KETONES - PURGE & TRAP TECHNIQUE (DES 310-25)
ANALYSIS:
                    DATE PRINTED: 92/05/20 FINAL REPORT
2-BUTANONE (METHYL ETHYL KETONE) < 10. MCG/L < 10. MCG/L
-----RESULT
                                    < 10. MCG/L
METHYL TERT BUTYL ETHER

**** END OF REPORT ****
```

T 	1 A K A	LYTICAL RE	PORT		
	Work Por Ht.	theast Solite Corp. Fox 437 Warlon W 125	<b>54</b>		
	To Eure, Jew	ransmittal memo 767	Lindner		
	Co.	Co.		***************************************	
_	Fax #	Fax #			
	Repor	** Deta: 11-MA  ***Ct: STAND  **Ct: STAND  **Character: 11094  **Ca: Muniber(a): 11094  **Ca: Muniber(a): 11094  **Ca: Muniber(a): 11094	7-7 <b>2</b>		
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T			~	7	
Ĭ			Ronald	A. Bayer	
Γ			Laborato	pry Director	_
				<u> </u>	

EnviroTest [1]

315 Eulimpon Avonum Nowburgh, NY 12h5d (914) 062 0090 FAX (914) 587 0841

Client Name: Northeast Solite Corp.

Project Name: STANDARD

ETL Sample Number: 110948-01

Client I.D.: SEEP AFTER FILTER

Date Collected: 04-MAY-92 Matrix: 2 GW/WV

Date Received: 06-MAY-92 Percent Solid: NA

Date Analyzed: 07-MAY-92 Method: VOA-624

Comments:

		Detection Limit	Conc.	Data
CAS NO.	Compound	ug/i	ug/l	Qualifier
74-87-3	thi orone thane	10	•	U
74-83-9	Bromomethane	10		υ
75-01-4	Yinyi Chloride		·	ช
75-00-3	Chloroethane	10		Ü
75-09-2	Methylene Chiloride	5		ij
75-69-4	Trichlorofluoromethana	5		Ų
75-35-4	1.1-Dichioroethene	. 5	•••	U
75-64-3	1.1-Dichloroethane	5		U
156-60-5	trans-1,2-Dichtoroethene			U
67-66-3	Chloroform	5		ย
107-06-2	1,2-01chtoroethere	5	• •	บ
71-55-6	1,1,1-Trichtoroethane	5		υ
56+23-5	Carbon tetrachtoride	· 5		Ù
75-27-4	Bromodichloromethane	<b>5</b> ,		u
78-87-5	1,2-Dichtoropropune	5		υ
10061-01-5	cis-1,3-Dichloropropene	5		Ų
79-01-6	Trichloroethere	5		ų.
71-43-2	Benzene	5		'n
124-48-1	Dibromochioromethane	5.		υ
10061-02-6	trans-1,3-Dichloropropene 1,1,2-Trichloroethane	5		Ų
79-00-5	1,1,2-Trichtoroethane	<b>5</b> ·		υ
110-75-8	2-Chloroethylvinyl ether	5		U
75-25-2	Bronoform	5		U
79-34-5	1,1,2,2-Tetrachloroothane	5		بن
127-18-4	Tetrachtoroethene	5		บ
108-88-3	Toluene	5		Ų
108-90-7	Chlorobenzene	3		υ
100-41-4	Ethylbenzene	5		ů.
541-73-1	T, 3-b Tch to robenzene	5		U
95-50-1	1,2-Dichlorobenzene	5		Ü
106-48-7	1,4-d Tchtorobenzene	3		Ų

# **ATTACHMENT VI**

SUMMARY OF HISTORICAL SEEP MONITORING DATA - IESI

PARAMETERS	Sep-83	Sep-83	Nov-83	Jan-84	Apr-84	Jun-84	Jul-84	Aug-84	Aug-84
ACETONE	120	130		490	1900				
1,1-DICHLOROETHANE	6	7		7	7	က			
TRANS-1,2-DICHLOROETHENE		ო		80	ო				
CHLOROFORM	10	7	10	10	27	က	7		
METHY ETHYL KETONE	40	30	06	300	1200				
1,2-DICHLOROETHANE	20	9		19	77	1	9	Θ	œ
1,1,1-TRICHLOROETHANE	10	-		6	18	4	2.1		<del>[</del>
TRICHLOROETHENE	9			c)	9		4.	Θ	-
1,1,2-TRICHLOROETHANE	7				ო				
METHYL ISOBUTYL KETONE	28	25	88	240	1200				
TETRACHLOROETHENE	4			S.	4	က	4	Ω	4.
1,1,2,2-TETRACHLOROETHANE	4	7		က	9				
TOLUENE	4	7	13	95	-				Ą
ETHYLBENZENE	6	ო		16					₹ Z
m-XYLENE	Ϋ́	Ϋ́	Ϋ́	Ą	Ϋ́	Ϋ́	Ϋ́	Ϋ́	¥ Y
o-XYLENE	Ϋ́	<b>∀</b> Z	Ϋ́						
p-XYLENE	Ϋ́	∢ Z	Ϋ́	Ą	Ą	Ϋ́	Ϋ́	Ϋ́Z	₹ Z
TOTAL XYLENE	65	19	77	160					
TETRAHYDROFURAN	97	46							
ISOPROPYL ETHER	7	ო							
METHYLENE CHLORIDE					70				
2-CHLOROETHYL VINYL ETHER									
BENZENE				လ					Ϋ́
CHLOROBENZENE									
1,2-DICHLOROPROPENE									-
1,2-DICHLOROPROPANE					2				
CARBON TETRACHLORIDE									
1,2-DICHLOROETHENE									
TRICHLOROFLUOROMETHANE									
TRICHLOROFLUOROETHANE								,	
CHLOROMETHANE									
CHLOROETHANE									
1.1-DICHLOROETHENE							6.		16
DICHLOROBENZENES									<u>!</u>
VINYL CHLORIDE									
1,2-DICHLOROBENZENE									Ϋ́
NA = not analyzed									
Units in $ug/L = ppb$									

SUMMARY OF HISTORICAL SEEP MONITORING DATA - IESI

PARAMETERS	Aug-84	Aug-84	Sep-84	Oct-84	Oct-84	Nov-84	Nov-84	Dec-84	Dec-84
ACETONE	¥			ΑN	ΑN		¥	NA NA	Υ <sub>N</sub>
1,1-DICHLOROETHANE		,						Ą	•
TRANS-1,2-DICHLOROETHENE								Ą	
CHLOROFORM								Ϋ́	
METHY ETHYL KETONE	¥ V			Ϋ́	Ϋ́			<u>.</u>	
1,2-DICHLOROETHANE	3.1	2	2			80		Ą	
1,1,1-TRICHLOROETHANE						ı		Ą	
TRICHLOROETHENE						ω		ζ Z	
1,1,2-TRICHLOROETHANE						ı		Ϋ́ X	
METHYL ISOBUTYL KETONE	Ą	-	<b>-</b>	¥	Ϋ́				
TETRACHLOROETHENE	-	-				В		¥	
1,1,2,2-TETRACHLOROETHANE			<b>-</b>						
TOLUENE	1.2	1.2					1.6	2.6	2
ETHYLBENZENE	t.9	1.5	2.7		1.3		6.	2.1	1 8
m-XYLENE	¥	1.5	2.6			¥			l
o-XYLENE	Ϋ́	2.4	3.6		3.1	Ϋ́			
p-XYLENE	¥	-	1.9		1.3	Ϋ́	-	0.2	1.2
TOTAL XYLENE									!
TETRAHYDROFURAN									
ISOPROPYL ETHER									
METHYLENE CHLORIDE								Ą	
2-CHLOROETHYL VINYL ETHER								ΑN	
BENZENE							4.	1.7	8.
CHLOROBENZENE									!
1,2-DICHLOROPROPENE									
1,2-DICHLOROPROPANE									
CARBON TETRACHLORIDE								Ą	
1,2-DICHLOROETHENE									
TRICHLOROFLUOROMETHANE								Ϋ́	
TRICHLOROFLUOROETHANE									
CHLOROMETHANE								Ϋ́	
CHLOROETHANE								₹ Z	
1.1-DICHLOROETHENE	-							₹ Z	
DICHLOROBENZENES									
VINYL CHLORIDE								Ϋ́	
1,2-DICHLOROBENZENE	က								
NA = not analyzed									
Units in ug/L = ppb									

SUMMARY OF HISTORICAL SEEP MONITORING DATA - IESI

PARAMETERS	Jan-85	Jan-85	Jan-85	Feb-85	Feb-85	Feb-85	Mar-85	Mar-85	Mar-85
ACETONE	ΑN	N/A	A/A	N/A	A/N	A/A			
1,1-DICHLOROETHANE	<b>₹</b>			<del>1.</del>	ΑX	7.			
TRANS-1,2-DICHLOROETHENE	¥	ΑN	∀,Z	1.6	A/N	Ϋ́Z			
CHLOROFORM	₹	ΑN	∀/Z		Ϋ́	∀X			
METHY ETHYL KETONE				A/X					
1,2-DICHLOROETHANE	Ϋ́	ΑN	∀ Z		A/Z	۷ Z		<b>-</b>	
1,1,1-TRICHLOROETHANE	¥	A/N	∀,Z	3.8	A/A	∢ Z			
TRICHLOROETHENE	¥	A/N	∀ Z	2.5	Ϋ́Z	Ϋ́Z	1.2	1.2	
1,1,2-TRICHLOROETHANE		A/N	∀ Z		A/N	¥ Z			
METHYL ISOBUTYL KETONE		A/A	∀ Z	A/N	N/A	Ϋ́Z			
TETRACHLOROETHENE	¥	N/A	∀,X	4.1	N/A	1.7		2.8	
1,1,2,2-TETRACHLOROETHANE		N/A	1.3		ΑX	Ϋ́Z			
TOLUENE	9.5	5.4	4.9	9	1.9	4.6	7	=	ო
ETHYLBENZENE	12.3	9.2	8.8	7.2	2.2	4.2	8.4	8.4	1.9
m-XYLENE	5.3	3.6	ო	ΑX	A/N	3.6	Α'X	7.8	Y/N
o-XYLENE	16.3	11	11	A/A	2.1	8.6	Α/N	7	∀'X
p-XYLENE	8.6	7	7	ΑX	1.5	5.7	A/N	o	Ϋ́Z
TOTAL XYLENE				ΑX			27.8		4.4
TETRAHYDROFURAN									
ISOPROPYL ETHER									
METHYLENE CHLORIDE	₹	Υ V	۷/۷	5.8	A/N	∀/Z			
2-CHLOROETHYL VINYL ETHER	Ϋ́	A/A	۷ X		N/A	∀X		_	
BENZENE	8.9	3.8	2.9	4.4	1.4	3.3			
CHLOROBENZENE					A/N	∀ Z			
1,2-DICHLOROPROPENE									
1,2-DICHLOROPROPANE	_								
CARBON TETRACHLORIDE	₹ Z	∀ X	∢ Z		Ϋ́	Ϋ́			
1,2-DICHLOROETHENE									
TRICHLOROFLUOROMETHANE	¥ X	Ϋ́	∢ Z		A/N	Ϋ́Z			
TRICHLOROFLUOROETHANE									
CHLOROMETHANE	₹ Z	¥ Ż	Ϋ́Z		₹ Ż	∀ X			
CHLOROETHANE	¥	۷/X	∢ Z		Α/Z	Ϋ́Z			
1.1-DICHLOROETHENE	¥	A/A	∢ Z	2.8	A/A	∀ Z			
DICHLOROBENZENES									
VINYL CHLORIDE	Ϋ́	A/A	∀'Z		N/A	∀,Z			
1,2-DICHLOROBENZENE			Ϋ́Z		A/N	∀/Z			
NA = not analyzed	•								
Units in $ug/L = ppb$									

SUMMARY OF HISTORICAL SEEP MONITORING DATA - IESI

PARAMETERS	Apr-85	Apr-85	Apr-85	May-85	May-85	May-85	Jun-85	Jun-85	Jun-85
ACETONE 11-DICHLOROFTHANE				N/A			110		
TRANS-1,2-DICHLOROETHENE									
CHLOROFORM				1.8					
METHY ETHYL KETONE									
1,2-DICHLOROETHANE									
1,1,1-TRICHLOROETHANE									
TRICHLOROETHENE				2.3					
1,1,2-TRICHLOROETHANE									
METHYL ISOBUTYL KETONE	56			A/A					
TETRACHLOROETHENE			1.7	4.1	1.2	2.1		2.3	1.5
1,1,2,2-TETRACHLOROETHANE									
TOLUENE		18	2.3	9		1.6		1.2	
ETHYLBENZENE	2	7	3.7	7.2	1.5	4.1	7	4.1	2.5
m-XYLENE	Ϋ́Z	Ϋ́Z	A/A	ΑX	ΑN	Ϋ́	Α/N	Α/Z	Α/Z
0-XYLENE	Ϋ́Z	Α/Z	Α/N	ΑN	A/A	ΑN	Ϋ́	Ϋ́Z	A/Z
p-XYLENE	Ϋ́	∀/Z	∀ <b>X</b>	Ϋ́	A/A	ΑN	A/N	A/X	₹/Z
TOTAL XYLENE	19	21.1	16.1		5.1	8.9	2	7.5	2
TETRAHYDROFURAN							1	<u> </u>	I
ISOPROPYL ETHER									
METHYLENE CHLORIDE				2.8					
2-CHLOROETHYL VINYL ETHER									
BENZENE			3.2	4.4	7	4.5		2.4	9.1
CHLOROBENZENE				9				İ	!
1,2-DICHLOROPROPENE									
1,2-DICHLOROPROPANE									
CARBON TETRACHLORIDE									
1,2-DICHLOROETHENE									
TRICHLOROFLUOROMETHANE				10					
TRICHLOROFLUOROETHANE								,	
CHLOROMETHANE									
CHLOROETHANE									
1.1-DICHLOROETHENE									
DICHLOROBENZENES			2.8			1.3		1.3	
VINYL CHLORIDE									
1,2-DICHLOROBENZENE									
NA = not analyzed									
Units in $ug/L = ppb$									

SUMMARY OF HISTORICAL SEEP MONITORING DATA - IESI

PARAMETERS	Jun-85	Jul-85	Jul-85	Aug-85	Aug-85	Aug-85	Aug-85	Sep-85	Sep-85
ACETONE						,		<u> </u>	
1,1-DICHLOROETHANE									
TRANS-1,2-DICHLOROETHENE									
CHLOROPORM									
MELHY ELHYL KELONE									
1,2-DICHLOROETHANE									
1,1,1-1 KICHLOKOEI HANE									
TRICHLOROETHENE	2	2.2	1.2		1.6			1.7	
1,1,2-TRICHLOROETHANE									
METHYL ISOBUTYL KETONE			1.2						
TETRACHLOROETHENE	2.2	3.3	2.2		1.2		4.1	τ-	•
1,1,2,2-TETRACHLOROETHANE									
TOLUENE		1.6			1.2				
ETHYLBENZENE		5	2.1		2.8			17	
M-XYI ENF	Ą,	ΑN	Į V	A/N	0 V	Δ/N	V/N	- 2	<b>V</b>
I I I I I I I I I I I I I I I I I I I	ζ.V.	N/A	N N						Ž
					2 2	<b>X</b>	X S	¥ ;	ΨX
P-A TENE	K)	Z/Z	Z/A	Z/A	¥ Z	Υ V	V V	A/A	₹ Z
TOTAL XYLENE	2.7	15.5	6.1		8.4	8.7		3.2	8.6
TETRAHYDROFURAN									
ISOPROPYL ETHER									
METHYLENE CHLORIDE									
2-CHLOROETHYL VINYL ETHER									
BENZENE	6.	9.	4.		1.2		4	4	7
CHLOROBENZENE					!		:	:	2
1,2-DICHLOROPROPENE									
1,2-DICHLOROPROPANE									
CARBON TETRACHLORIDE									
1,2-DICHLOROETHENE									
TRICHLOROFLUOROMETHANE									
TRICHLOROFLUOROETHANE								,	
CHLOROMETHANE									
CHLOROETHANE									
1.1-DICHLOROETHENE									
DICHLOROBENZENES	-	97	1.4		2.8	-	9	2.7	7
VINYL CHLORIDE			•		ì	•	<u>)</u>	i	<u>!</u>
1,2-DICHLOROBENZENE									
NA = not analyzed	-								
Units in ug/L = ppb									

# SUMMARY OF HISTORICAL SEEP MONITORING DATA - IESI

ACETONE  1,1-DICHLOROETHANE TRANS-1,2-DICHLOROETHENE CHLOROFORM METHY ETHYL KETONE 1,2-DICHLOROETHANE 1,1,1-TRICHLOROETHANE TRICHLOROETHENE TRICHLOROETHENE 1,1,2-TRICHLOROETHENE TETRACHLOROETHENE TETRACHLOROETHENE 1,1,2,2-TETRACHLOROETHANE TOLUENE ETHYLBENZENE m-XYLENE o-XYLENE P-XYLENE TOLUENE	1.7 L NA	Y Y Z	A A A A	1 1.2 N. N. A.		
THENE NE FONE ETHANE		1.7 L NA	₹ ₹ Ž Ž	A X X	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
HLOROETHENE KETONE STHANE ROETHANE ROETHANE TYL KETONE SETHENE HLOROETHANE		1.7 L NA	₹ ₹ Ž Ž	Y X X	1.2 N N N N N N N N N N N N N N N N N N N	•
KETONE STHANE SOETHANE HENE SOETHANE TYL KETONE SETHENE HLOROETHANE		1.7 1 NA	₹ ₹ Ž Ž	Y X X	1.2 X X X X X X X X X X X X X X X X X X X	
HYL KETONE DROETHANE HLOROETHANE OETHENE HLOROETHANE OROETHENE TRACHLOROETHANE		1.7 L NA	Y Y Z	A X X	1.2 N N N N N N N N N N N N N N N N N N N	•
DROETHANE HLOROETHANE OETHENE HLOROETHANE OROETHENE TRACHLOROETHANE IZENE		1.7 L NA	₹ ₹ Ž Ž	A X X	1.2 X X X X X X X X X X X X X X X X X X X	
HLOROETHANE OETHENE HLOROETHANE SOBUTYL KETONE COROETHENE TRACHLOROETHANE		1.7 L NA	₹ ₹ Ž Ž	Y X X	1.2 N N N N N N N N N N N N N N N N N N N	•
OETHENE HLOROETHANE SOBUTYL KETONE OROETHENE TRACHLOROETHANE		1.7 1 VN	₹ ₹ Ž Ž	Y X X	1.2 N N N N A A A A	
HLOROETHANE SOBUTYL KETONE OROETHENE TRACHLOROETHANE	,	1.7 1 NA	₹ ₹ Ž Ž	Y X X	1.2 N N N 1.2 A A A	
OBUTYL KETONE OROETHENE TRACHLOROETHANE IZENE	,	1.7 L A N	₹ ₹ ŽŽ	Y X X	N N N 1.2 N N N N N N N N N N N N N N N N N N N	
OROETHENE TRACHLOROETHANE	•	7. 1 S A	Y X Z	X X X	N N 1.2 2 2 2 2 4 A A A	
TACHLOROETHANE IZENE		- X	Y X X	A X X	1. X X X X X X X X X X X X X X X X X X X	
ZENE	•	- Š	N/N N/N	N/N N/A N/A	Y Y Y Z Z Z	
ZENE	<u>ا</u>	Ϋ́	A A	∢ ∢ ∢ Z Z Z	Y Y Y	
i.		Ϋ́	Z Z Z Z	<b>∀ ∀ ∀</b> Z Z Z	A A A	
Ļ	≰		N/A	∢ ∢ Ž Ž	<b>V V X X</b>	
i.	<b>∀</b> I	A/N		A/N	N/A	
	<b>∀</b>	A/A	Ϋ́Z			
I O I AL XY LENE						
TETRAHYDROFURAN						
ISOPROPYL ETHER						
METHYLENE CHLORIDE						
2-CHLOROETHYL VINYL ETHER						
BENZENE						
CHLOROBENZENE						
1,2-DICHLOROPROPENE						
1,2-DICHLOROPROPANE						
CARBON TETRACHLORIDE						
1,2-DICHLOROETHENE						
TRICHLOROFLUOROMETHANE						
TRICHLOROFLUOROETHANE						
CHLOROMETHANE						
CHLOROETHANE						
1.1-DICHLOROETHENE						
DICHLOROBENZENES		7:				
VINYL CHLORIDE						
1,2-DICHLOROBENZENE						
NA ≈ not analyzed						
Units in ug/L = ppb						

# **ATTACHMENT VII**

# TEST PIT LOG

## DUNN GEOSCIENCE CORPORATION

5 Northway Lane, North

Latham, New York 12110 (518) 783-8102

DATE	STAR	TED	8-16-83 TIME JOB NO	257-1-2183
DATE	FINIS	HED _	8-16-83 TIME TEST PIT !	NO. <u>8-83-1</u>
CLIE	NT No	ortheas	t Solite Corp. SITE Mt. Marion, NY	
SUR	FACE E	ELEVAT	ION EXCAVATOR	
DATU	JM		EQUIPMENT Backhoe	
WAT	ER ELE	VATION	None INSPECTOR W.J. Hall	
DEPTH		MOIST.	DESCRIPTION OF SOIL	REMARKS
			Gray coarse to fine SAND, trace Silt, and coarse to fine (+) Gravel.  (FILL)	
_5_			6.0'	Slight to
			Brown gray Clayey Silt little, fine SAND with occasional piece of gravel (GLACIOLACUSTRINE)	moderate odor at contact.
			9.5'	
-10			Limit of Backhoe	Very slight seepage at NW corner of trench-dry the followin day.
				, , <del>,</del> .
— 15 —			Note: Test Trench was 36' long.	
20				

## TEST PIT LOG

### DUNN GEOSCIENCE CORPORATION

5 Northway Lane, North

Latham, New York 12110 (518) 783-8102

DATI	E STAR	TED _	8-16-83	TIME	JOB	NO	257-1-2183
DATE	E FINIS	SHED _	8-16-83	TIME	TEST	PIT	NO. <u>8-83-2</u>
CLIE	ENTN	lortheas	t Solite Corp.	SITE	Mt. Marion, N	<u> </u>	
SUR	FACE E	ELEVAT	ION	EXCAV	ATOR		
DATE	JM			EQUIPM	MENT Backhoe		
1				INSPEC			
				DESCRIPTION OF			REMARKS
			to fine Gravel	fine SAND, trace (FILL)			Odor and dary gray- black
				with about 5-15 (FILL)			staining in
— 5 —					,	6.0'	
			Collapsing Hol	e Forces Termina	tion		
10-							
				٠.			
— 15 —		•	Note: Test Tr	ench was 20' lon	g.		
		,					
20							

### TEST PIT LOG

# DUNN GEOSCIENCE CORPORATION 5 Northway Lane, North Latham, New York 12110 (518) 783-8102

DATE	L SIAM	(150	0-10-03 JOB NO.	237-1-2103
DATE	E FINIS	SHED _	8-16-83 TIME TEST PIT	NO. 8-83-3
CLIE	NT1	Northea	st Solite Corp. SITE Mt. Marion, NY	
SURFACE ELEVATION EXCAVATOR				
DATE	JM		EQUIPMENT Backhoe	
WAT	ER ELE	VATION	None INSPECTOR W.J. Hall	
DEPTH	DENS.	MOIST.	DESCRIPTION OF SOIL	REMARKS
			Gray coarse to fine SAND, trace Silt and coarse to fine gravel	Occasional slight odor
			(FILL)	
_5_			<b>`</b>	
			Collapsing Hole Forces Termination	
10-	Ì			
		٠		•
<u> </u>				
		`	. •	
20				

Date Started	11-29-83	Length	130'
Date Finished	12-09-83	Width	 40'
		Maximum Depth	15'

Excavation extended from southern edge of kiln foundation south-southeast to an area just north of the small block building where it intersected Excavation No. 4. Work on this excavation was performed on several days during the course of this project. Excavation No. 2, which is not shown, fell within Excavation No. 1.

### **Observations**

- Visibly contaminated water was present above the bedrock seep standing at a depth of one to two feet. The water was dammed up behind a bedrock ridge at the edge of the face;
- Lowering the water level in this excavation by pumping caused a reduction in the flow from the seep to approximately one-half to two-thirds of its original rate;
- Pumping at Excavation No. 5 caused a drop in the water level in Excavation No. 1 with a corresponding reduction in seep flow;
- Digging was hampered, especially in the northern end of the excavation, by deep, loose fill. A large and unstable excavation resulted;
- The bedrock surface rises slowly toward south-southeast. A couple of shallow ridges, perhaps due to bedding, were exposed;
- Dry, hard bedrock was exposed at the bottom of the excavation from approximately 60 to 150 feet south of the kiln. Water was encountered again as the rock surface dropped off further south;
- Ground water was trickling along some of the rock surfaces, but most of water entering the section of the trench above the seep appeared to be coming from the south. Water was entering from fractures in bedrock and contained surface film and frequent oil blebs;

- The soil and rock fill in a two- to three-foot zone above the bedrock surface in the area surrounding the intersection of Excavations No. 1 and 4 was saturated with a heavy, dark brown oil;
- The south end of excavation encountered six feet or less of fill overlying highly fractured but in-place bedrock. The fractured rock was rippable.

Date Started	11 <b>-</b> 29 <b>-</b> 83	Length	10'
Date Finished	11-29-83	Width	10!
		Maximum Depth	61

Shallow excavation dug to locate fuel lines. Bedrock was not exposed, and no contaminated water or soil was encountered. Excavation No. 1 encompassed this excavation.

Date Started	11-29-83	Length	50'
Date Finished	11-30-83	Width	30'
		Maximum Depth	12'

Excavation extended from the pump pad east of the small vertical tanks to a line approximately even with the northern edge of tank No. 9. Excavation was hampered by the presence of many buried fuel, electrical and air lines which were left exposed as the excavation progressed.

#### Observations

- Strong odors were produced as the excavation progressed through the unsaturated fill;
- A layer of purple colored fill approximately eight inches thick was present just below the surface;
- Approximately two to three feet of cinders and shale fines were present overlying shot rock;
- Contamination was noted within the finer portions of the fill, particularly near the buried pipes. Surfaces of the fractured rock were often coated with dark residual contamination;
- The solid bedrock surface dropped off from approximately two and one-half feet at the southern end of the excavation to about eleven feet at the center and northern end. A knob of solid, unfractured bedrock was exposed in the eastern wall of the pit. The surface of the knob dipped at approximately 30-35 to the east and may represent a bedding plane in the Schoharie formation. This knob appeared to be confining ground water to its west;
- A low ridge trending north-south divided the bottom of the pit into two halves. The east half was slightly deeper;

- Slight ground water seepage was observed trickling down the exposed bedrock knob. This water was visibly uncontaminated. Water collected slowly in the bottom of the pit. A heavy, oily sheen was present on top of the water. Water appeared to be entering the west half of the pit from the west and eastern half from the north. Water collecting in the west half was visibly more contaminated.

Date Started	12-05-83	Length	80'
Date Finished	12-06-83	Width	15'
		Maximum Depth	14'

Excavation started at a point southwest of tank No. 9 and progressed in a northerly direction along the top of the slope to a point north of the small block building where it intersected with Excavation No. 1.

#### Observations

- Black "tar-like" material was uncovered in a pocket at a depth of about three feet opposite tank No. 9. This material did not have a detectable odor and was most likely No. 6 oil or similar material;
- Fill in the southern portion of the excavation consisted of rock, wood, plaster sheeting, cables, brick and metal;
- The northern portion of the excavation uncovered up to four feet of loose fill overlying highly fractured but in-place rock to a depth of approximately 14 feet where solid rock was encountered;
- A bedrock ridge paralleled the excavation along its western wall.
   The height of the ridge was one to two feet above the excavation bottom;
- Ground water was encountered at a depth of approximately twelve feet and appeared to be contaminated, having a multicolor surface film. Water entered the trench directly from bedrock as upwellings in bedrock fractures and from the east. The water was confined by the bedrock ridge along the west wall and flowed slowly in a northerly direction along the axis of the excavation;

- Heavy thick oil was encountered in a two- to three-foot layer above bedrock near the northwest corner of the block building and most of the water entering the excavation in this area was from the west.

Date Started	12-06-83	Length	80'
Date Finished	12-06-83	Width	15 '
		Maximum Depth	13'

Excavation started west of tank No. 9, at the west side of Excavation No. 4, and continued down the slope for a total length of approximately 80 feet, to determine if contamination was present west of the immediate fuel storage area.

### Observations

- The bedrock ridge along the west side of Excavation No. 4 rises to a height of approximately two feet and then falls off further to the west into another north-south trending bedrock trough, at about 55 feet from Tank No. 9. The rock surface rises again further west before falling off down the slope;
- The western one-third of the excavation encountered brown soil and rock above the bedrock surface, and no water;
- Ground water encountered in the bedrock trough appeared to be contaminated and had a heavy black oil surface film. When pumped, the excavation yielded large quantities of water which entered from the north. Flow was mostly through highly fractured rock above the solid bedrock surface. Approximately two feet of water collected in the pit;
- When Excavation No. 5 was pumped, the water in Excavation No. 1 dried up and flow at the bedrock seep slowed accordingly, to approximately 65 percent of original rate;
- The water in Excavation No. 5 did not return to its original level after pumping was stopped, and the thickness of the surface film increased.

Date Started	12-09-83	Length	80'
Date Finished	12-09-83	Width	15'
		Maximum Depth	12'

Excavation No. 6 was located north of the fuel tank area and extended east from the ridge of Schoharie bedrock. The purpose of this excavation was to intercept and identify any possible source of ground water recharge to the fuel tank area.

### <u>Observations</u>

- A maximum thickness of approximately eight feet of fill was encountered over bedrock in the westernmost end of the trench, and over clay soil in the central and eastern portion of the excavation;
- Water seepage occurred along the fill/soil interface in a thin layer of decaying vegetation. Seepage was predominantly from the south;
- Water quality was good and seepage rate was low and decreased as the excavation continued to the east.

# **ATTACHMENT VIII**



P.O. BOX 437 • MT. MARION • NEW YORK 12456 • PHONE (914) 246-9571

July 29, 1987

Mr. James Reidy, P. E.
Region 3 Hazardous Waste Engineer
N. Y. State Dept. of Environmental Conservation
202 Mamaroneck Ave.
White Plains, NY 10601

Re:

Industrial Environmental Systems, Incorporated Northeast Solite Corporation

Dear Mr. Reidy:

Pursuant to recent correspondence between your office and ours, the Closure Plan for the subject facilities has been revised and augmented under date of July 29, 1987. The Plan is enclosed herewith.

Very truly yours,

John H. Bragg

cc: A. Klauss T. West

G. Peck D. Evans

S. Potter G. Eure

G. Heitzman G. Kosko

E. Martin

Industrial Environmental Systems, Incorporated

and

Northeast Solite Corporation

FACILITY CLOSURE PLAN

July 29, 1987

### CLOSURE PLAN

### [6 NYCRR 373-1.5(a)(2)(xiii)] [40 CFR 270.14(b)(13)]

1.0 CLOSURE PERFORMANCE STANDARD [6 NYCRR 373-2.7(b)(1),(2)] [40 CFR 264.111(a),(b)]

Industrial Environmental Systems, Incorporated ("IESI") and Northeast Solite Corporation ("NSC") will maintain a copy of this Closure Plan and all revisions, as approved, in the facility office until certification of closure completeness has been submitted to, and accepted by, the Commissioner of the New York State Department of Environmental Conservation ("DEC").

This Closure Plan was designed to ensure that the IESI and NSC facilities will not require further maintenance and controls after closure, to minimize or eliminate threats to human health and the environment and to avoid escape of hazardous waste, hazardous waste constituents, leachate, contaminated rainfall, or waste decomposition products to the ground, to surface waters or to the atmosphere. If there is evidence of any spills or leaks, in the course of closure activities, samples will be taken and analyzed in order to determine the extent of contamination, if any, in soil, surface water or ground water. To the extent necessary to minimize any threat to human health and the environment, any contaminated soil will be excavated, removed and disposed of at an approved TSD facility, and any contaminated surface water or groundwater will be remediated.

2.0 PARTIAL AND FINAL CLOSURE ACTIVITIES [6 NYCRR 373-2.7(c)(1)(i)]
[40 CFR 254.112(a)(1)

Partial closure of the IESI facility took place with the total removal of all liquids and bottom sludges from all of the facility's fuel tanks, with these wastes being shipped in bulk, together with all drummed wastes, to approved TSD facilities. The manifest numbers and shipping destinations are listed in a letter from John Bragg (IESI) to James Reidy (DEC), dated May 29, 1987. This letter is included as Appendix A. As this work proceeded, DEC Region 3 received frequent progress reports and was kept fully informed of

procedures and developments. A partial list of the correspondence in this regard is contained in Appendix A. The project was completed on November 17, 1983. All tanks were left in broom-clean condition, and have been empty since that date.

In December, 1983, extensive excavation was conducted in the area between the IESI and NSC facilities, a space measuring approximately 150 feet by 200 feet. All visibly contaminated soil was removed, as were all underground LBM pipelines which had carried hazardous waste fuel, and the area was back-filled with clean 3/8-inch by 0-inch shale, which is routinely quarried and crushed on NSC's site. The pipelines removed were replaced with new, above-ground lines in July, 1984. During the same month, No. 9 fuel tank was completely steamed out and fitted with a new bottom, which rests on a concrete foundation above ground level, while Nos. 4, 5, 6, 7 and 8 tanks were re-installed on a common concrete foundation which was equipped with a leak detection system.

In November, 1984, the excavated/refilled area mentioned above was completely weather-sealed by a four-inch application of macadam. Final closure activities will include obtaining four sub-soil samples from below the previously excavated areas beneath the present macadam cover. The samples will be analyzed for possible concentrations of volatile organics. The protocol for this sampling can be found in a letter (attached Appendix B) from John Bragg to James Reidy, dated July 10, 1987.

Beginning in January, 1984, several monitoring wells were installed in the vicinity of the IESI facility. These have exhibited minimal contamination, and will continue to be monitored over such future period as may be mutually agreeable. Several reports furnished by Dunn Geoscience Corporation, consultant to IESI/NSC, summarize monitoring well analysis results over a lengthy period of time. A reference list of these reports by title and submission date is shown on page 2 of Appendix A. Complete copies have been maintained in the DEC files.

It is not anticipated that any of the tanks will be re-located within the IESI/NSC premises or sent to another location off-site, but in the event this should occur, procedures outlined in Section 4.2 for final closure will be followed. Prior to final implementation of this Closure Plan, any modifications to the existing facility equipment, structures, instruments or

procedures related to the management of either facility will result in IESI and/or NSC revising the Plan accordingly. It is understood that such changes will be subject to approval by DEC before they are initiated.

### 3.0 MAXIMUM WASTE INVENTORY [6 NYCRR 373-2.7(c)(ii)] [40 CFR 264.112(a)(2)]

The maximum hazardous waste drum storage capacity is twenty 55-gallon drums (1,100 gallons), while the total capacity of the eight hazardous waste fuel storage tanks is 207,000 gallons, thus the total capacity of the IESI facility is 208,100 gallons. As stated in Section 2.0, partial closure has been effectuated with the total removal from the site of the tanks' contents and the drummed waste inventory. Prior to final closure of the IESI/NSC facilities, the maximum inventory of wastes on these facility sites will be only the liquids in the transfer lines and in the feed lines to the aggregate kilns, a maximum of 450 gallons. This amount would be increased by whatever volume of cleaning and rinsing liquids is required.

## 4.0 INVENTORY REMOVAL AND DISPOSAL OR DECONTAMINATION OF EQUIPMENT [6 NYCRR 373-2.7(c)(iii),(iv); (e)] [40 CFR 264.114]

All hazardous waste stored at IESI was held in above-ground, closed top, steel storage tanks and in 55-gallon drums, positioned inside a secondary containment area surrounded by a 4-foot dike. Closure activity was initiated with the removal of all the hazardous waste that was stored in tanks and drums.

Appendix C describes the fire, safety and spill control procedures that will be implemented during final closure operations.

All pumps, valves and pipelines will be drained into liquid-tight drums and/or pumped into tanker trucks. The drainings will be transported to Oldover Corporation at Arvonia, Virginia or to a nearby approved incineration facility for final disposal.

Following waste removal, all piping (with the exception of new, unused piping) to and from the eight LBM fuel storage tanks on the IESI premises will be disconnected, dismantled and decontaminated. The work will be performed by a properly qualified outside contractor with the capabilities and authorization to transport all removed wastes, including combustibles, condensates and rinsing liquids, to approved disposal facilities.

### 4.1 CLOSURE OF CONTAINERS [6 NYCRR 373-2.9(i)] [40 CFR 264.178]

Any containers of flushing water or oil, condensate, hazardous waste drainings or contaminated work clothes that result from the closure process will be staged in the container storage area, prior to removal for disposal at an approved facility. Flushing liquids that are possibly hazardous in nature will be handled as described in Appendix A [(D)(1,2)].

### 4.2 CLOSURE OF TANKS [6 NYCRR 373-2.10(e)] [40 CFR 264.197]

Closure of the tank storage area involves decontamination of the tanks, the removal of all waste from, and decontamination of, the blending and recirculation process equipment, all contaminated piping, valves and pumps, and secondary containment equipment and structures.

The tanks will be decontaminated and closed through the following steps:

- 1. Manhole covers will be removed and the tanks will be checked for any remaining sludge particles or dirt.
- 2. The tanks will be closed and steam cleaned, if necessary. In this event, sufficient steam shall be added to a tank to raise its shell temperature to 170 deg. F. (76 deg. C.), as specified in API Publication 2015, "Cleaning Petroleum Storage Tanks". This temperature should be sufficient to to remove any solvent residue.
- 3. The tanks will be purged and water flushed and the condensate and rinse water will be pumped into tanker trucks for transport to E. I. duPont, Deepwater, New Jersey, or an

equivalent facility. Tanks will be inspected visually to insure that all residues have been removed, and a "sniffer" type gas detector will be used to determine if any combustible vapors remain. Steam cleaning will be repeated as long as significant residues are present.

- Tanks, pumps, piping, valves and structures will be subjected to wet wipe tests, and they will be considered clean and decontaminated if the results of such tests demonstrate that any remaining hazardous constituents are less than 1,000 micrograms per square meter. A recommended standard field operating procedure for wet wipe sampling is described in Appendix D attached to this Plan.
- 5. During the tank cleaning, inspection and decontamination process, the fire, safety and spill control procedures found in Appendix C will be followed. The loading and transport procedures used during tank closure will be the same as used during normal operation. All transport operations will be accomplished in accordance with DOT, EPA, State and local regulations.

Process equipment, piping, pumps and valves will be decontaminated through the following procedures:

- 1. The pipes, pumps and process equipment will be steam cleaned, using sufficient steam to raise the temperature of the equipment to 170 deg. F.
- 2. The equipment and piping will be purged and flushed with water. The condensate and rinse water will be pumped into tanker trucks and transported to E. I. duPont, Deepwater, New Jersey, or an equivalent facility.
- 3. The process units and pipes will be checked for remaining residues using a flammable gas detector to identify any remaining vapors. Steam cleaning will be repeated if necessary.
- 4. Successful decontamination will be verified by wipe tests, as mentioned above.

The secondary containment structures, including the concrete bases, curbs and sumps for the tank and drum storage areas will be steam cleaned and flushed with water, and the resulting condensate ands rinse water will be collected and transported to an approved off-site TSD facility.

The truck unloading area will be blocked to ensure no escape of cleaning media or debris. Barriers will be erected around the area of the pad, if necessary, to collect decontamination solutions. The pad will be steam cleaned and the resulting condensate will be collected, analyzed for contamination, and sent to an approved off-site TSD facility.

### 4.3 CLOSURE OF ROTARY KILNS [6 NYCRR 373-2.15(h)] [40 CFR 264.351]

NSC's three lightweight aggregate production units are cylindrical, horizontally mounted rotary kilns constructed of steel shells with refractory lining. The incineration system involves the piping for feeding waste from the IESI storage facility to the kilns, the kilns themselves, a wet scrubber on air emissions from the kilns, and emission stacks. Due to the very high destruction efficiency of the kiln, hazardous waste and constituents will contact only the fuel feed piping during the incineration operation. These closure procedures are directed toward dismantling and removal of all contaminated feed lines, fittings and valves on NSC premises, testing the surrounding area to document that no inadvertent contamination has occurred and implementing any remediation of area contamination that might be necessary. The feed lines and associated components that are removed will be transferred for use at another approved Solite facility. Closure of hazardous waste incineration operations will not result in discontinuation of lightweight aggregate production at NSC. Therefore, dismantling or demolition of equipment other than the feed lines is not included in these closure procedures.

Closure of hazardous waste incineration operations at NSC will include the following procedures:

 Beginning at the connection to the new unused IESI feed supply lines at the south end of NSC's premises, all of the contaminated feed lines extending northward through the NSC incineration facility will be disconnected and dismantled. Pipelines and components will be drained to drip-dry condition. All drainings will be caught in suitable containers, and the contents of these will be transferred to 55-gallon drums.

- 2. The contaminated piping, valves and fittings will be capped or blanked as appropriate and the equipment will be loaded on a \_truck for transport to an approved Solite facility.
- 3. Personnel performing this work will be furnished with appropriate safety equipment, as described Appendix C. All contaminated safety clothing used during closure, together with all pipeline drainings, drainage containers and like equipment will be collected in 55-gallon drums and transported off-site to an approved TSD facility.

### 4.4 CERTIFICATION OF CLOSURE [6 NYCRR 373-3.7(f)]

When closure is completed, IESI/NSC will submit their certification to DEC, together with a certification by an independent registered New York State professional engineer, that the facility has been closed in accordance with the specifications in the approved closure plan.

5.0 SCHEDULE FOR CLOSURE [6 NYCRR 373-2.7(d),(f)] [40 CFR 264.112(a)(4), 264.113, 264.115]

Following receipt of approval of this Closure Plan, final closure activities will be initiated in accordance with Part 373-2.7 of the Regulations. Completion of closure will be within 180 days following the approval date. The DEC Commissioner will be notified by IESI and NSC 180 days before the commencement of final closure. Tables I and II attached show the closure activity schedules contemplated for IESI and NSC, respectively. Final closure will be supervised and certified by a professional engineer, registered in the State of New York, and by IESI/NSC. The anticipated working schedule for the professional engineer is included in Appendix A, page 4, (G)(2).

6.0 EXTENSIONS OF CLOSURE TIME [6 NYCRR 373-2.7(d)] [40 CFR 264.113(a),(b)]

Neither IESI nor NSC anticipates that any extension of closure time will be required.

TABLE I

CLOSURE SCHEDULE FOR CONTAINERS AND TANKS (IESI)

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		ACTIVITY	. Washing of tank storage and piping system	Removal/disposal of washings, sludge and absorbents	. Testing for any remaining contamination	Soil sampling and analysis as may be required	Completion of closure, certification and submittal to NYSDEC Commissioner and USEPA Region II Administrator
_	<u> </u>		۱ ا	2.	<u>۳</u>	4.	2

TABLE II

CLOSURE SCHEDULE FOR ROTARY KILNS (NSC)

Dismantle, drain and cap   Feed lines and fittings   Feed lines and fittings off-site   Feed lines and fitting and safety equipment   Feed lines and fitting and safety equipment   Feed lines   Feed lin	i			1 	i i i i		[ 	1	Days			 	  -  -  -  -	 	1
		. Activity	7	14	21	28	35	42	49	26	63	70	77	84	06
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P.O. BOX 437 • MT. MARION • NEW YORK 12456 • PHONE (914) 246-9571

May 29, 1987

Mr. James Reidy, P. E. Regional Hazardous Waste Engineer, Region 3 N. Y. State Dept. of Environmental Conservation 202 Mamaroneck Ave. White Plains, N. Y. 10601

Ref: Proposed Facility Closure Plan dated January 6, 1987: Industrial Environmental Systems, Inc. (IESI) and Northeast Solite Corp. (NSC)

Your letter of April 6, 1987

Dear Mr. Reidy:

The purpose of this letter is to address perceived deficiencies in the subject proposed Closure Plan, as noted in your above referenced letter. The following comments conform to the paragraph numbering found in that letter.

### A) Closure Performance Standard

We note that the Certificate of Closure completeness will not require approval by the USEPA Region II Administrator.

### B) Partial and Final Closure Activities

- 1) The period during which waste was removed from the IESI storage tanks, the destinations to which that waste was shipped and a complete listing of numbered shipment manifests on file with your Department is set forth in Table I on page 6 of this letter.
- 2) There is extensive correspondence between DEC officials and IESI representatives documenting the fact that your Department was kept advised of activities and developments during the partial closure involving the removal of all material from the IESI storage tanks. The DEC people involved were: Region 3 Attorney Laura Zeisel, Deputy Commissioner Peter Lanahan, Region 3 Technician Robert Martin, Region 3 Director Paul Keller, Region 3 Engineer Albert Klauss, Commissioner Henry Williams, Cesar Manfredi, Compliance Counsel Laurens Vernon, General Counsel Nicholas Robinson and Administrative Law Judge William Dickerson. Other writers and addressees were: IESI attorneys Thomas West and David Evans, IESI Manager John Bragg, State Assemblyman Maurice Hinchey and Town of Saugerties Attorney Daniel Lamb, Jr.

Mr. Reidy Page 2 May 29, 1987

A partial list of the pertinent correspondence, which you will find in the Department files, follows:

Letter of Date:	To: -	From:	_Copies to:
11/30/82 12/10/82 2/24/83 3/7/83	Zeisel Martin Keller Klauss	West Bragg Bragg Bragg	Lanahan, Evans, Lamb Zeisel, West, Evans, Lamb Zeisel, West, Evans
3/23/83 4/8/83 4/22/83 5/9/83	Klauss Klauss Klauss Klauss	Bragg Bragg Bragg Bragg	Evans, West Evans, West Evans, West
5/24/83 6/7/83 6/7/83	Williams Klauss Williams	West Bragg West	Zeisel, Dickerson, Vernon, Evans  Zeisel, Hinchey, Dickerson, Vernon, Evans
6/10/83 6/13/83 8/18/83 8/23/83 9/2/83 10/21/83 11/18/83 12/20/83	Klauss Klauss Williams Manfredi Williams Williams Klauss West	Bragg Bragg West Bragg West West Bragg Zeisel	Zeisel, Evans Klauss Zeisel, Evans Zeisel, Keller, Robinson, Evans Keller Williams, Vernon, Evans

3) The results obtained from the monitoring wells installed beginning in January, 1984, and the frequency of sampling these wells, are extensively chronicled in three bound reports submitted by our consultant, Dunn Geoscience Corporation. Several copies of each, as listed below, reside in the Department's files. Copies of the various letters of transmittal are enclosed.

### IESI Facility Monitoring Well Reports Prepared by Dunn Geoscience Corporation

- a. Tank Farm Monitoring Well Installation & Ground-Water Quality

  Analysis May 15, 1984 (Transmitted by letters dated May 24, 1984,
  from John Bragg to Albert Klauss and Edward Miles)
- b. Tank Farm Groundwater Quality Analysis April, 1985, including a separate Appendix volume (Transmitted by letters dated April 19, 1985, from John Bragg to Albert Klauss and William Wertz)
- c. Tank Farm Area Groundwater Quality Assessment August, 1986, including a separate Appendix volume (Transmitted by letter dated September 3, 1986, from George Eure to Albert Klauss)

Mr. Reidy Page 3 May 29, 1987

- 4) It is understood that any modifications to the Closure Plan and/or equipment utilized must be approved by DEC prior to the initiation of these changes.
- 5) It is our recollection that, early in 1984 during the site excavation described in Section 2.0 of the Proposed Closure Plan, the excavated soil was examined and sampled by a representative of the New York State Health Department laboratory, and that this person was accompanied by either Edward Miles or William Wertz, from the Albany DEC office. We know of no analysis results from these samples.
- (6) The backfill placed in the excavated area was clean  $3/8" \times 0"$  crushed shale from the NSC quarry deposit.

### C) Inventory Removal and Disposal of Decontamination of Equipment

- 1) In order to prevent and/or contain spills during decontamination and dismantling, an adequate supply of drums and half-drums will be provided to catch drainings. Any considerable quantity of used cleaning liquids will either be conducted to drums and continuously pumped to a receiving tanker or pumped directly to a tanker. The ground surface in all active working areas will be covered with polyethylene plastic to insure that any minor escape of liquid will not contact the ground soil. Where necessary, temporary barrier berms will be constructed of impermeable clay, in order to guard against the spread of any possible spill. An adequate supply of absorbent materials designed for spill-control use will be maintained at the work site.
- 2) At the present time we are negotiating the closure work with several qualified contractors. The contract has not yet been awarded.

### D) Closure of Containers

- 1) Flushing liquids will be retained in approved drums until they can be analyzed for possible hazardous constituents. It is anticipated that any detected contamination of flushing liquids will be low-level in value.
- 2) Flush water exhibiting hazardous characteristics will be disposed of at the E. I. duPont facility in Deepwater, New Jersey. Non-hazardous flush water will be wasted through the NSC process water system. Combustible flushing liquids will be transported to Oldover Corporation, Arvonia, Virginia, an approved incinerator of liquid hazardous waste for use as process fuel.

### E) Closure of Tanks

- 1) The safety and spill control procedures outlined in the IESI/NSC hazardous waste management facility permit application will be added to the Closure Plan.
- 2) Refer to (C)(1) above.
- 3) Refer to (D)(2) above.

Mr. Reidy Page 4 May 29, 1987

### F) Closure of Rotary Kilns

- 1) The feed lines to the rotary kilns will not be dismantled for shipping to another location. They will instead be drained and decontaminated as described in Section 4.2(4) of the Proposed Closure Plan dated January 6, 1987.
- 2) Refer to (C)(1) above.
- 3) The disposition of the contaminated material is described in (D)(2) above.

### G) Schedule for Closure

- 1) Following receipt of approval of the revised Closure Plan, final closure activities will be initiated in accordance with Part 373-2.7 of the Regulations.
- 2) Set forth below is a tentative schedule for the involvement of an independent professional engineer in the closure activities. The objective will be to have the engineer present on the site in a series of one-day visits, at points in time that are significant to efficient accomplishment of the work and to satisfaction of the requirements incorporated in the closure plan. IESI/NSC will keep the engineer informed of all sample analysis results as they are received.

The engineer will thoroughly review the closure plan prior to his first visit to the facility.

### Tentative Schedule - Supervising Professional Engineer

### Day Engineer's Function

- Inspect the work location(s). Verify that safety gear and spill control equipment are available and adequate. Observe tank flushing and pipeline dismantling/draining procedures. Approve temporary drum storage of drained flushing liquids.
- 4 Observe and approve methods and procedures in sampling spent flushing liquids.
- With regard to any waste to be shipped and disposed off-site, check the initial truck-loading procedures and manifest record-keeping.

  Observe continuing flushing/draining operations.
- Advise and observe in connection with sampling for any possible remaining contamination of equipment and any final sampling that may be deemed necessary. Monitor procedures for disposal of all contaminated clothing and safety equipment.
- 135 At the appropriate time during the period presently estimated to extend from day 135 to day 180, and following the validation of all

Mr. Reidy Page 5 May 29, 1987

sample analysis results, the engineer will conduct his final inspection of the facility site and cerify the closure project to be complete and ready for submittal to the Commissioner, NYSDEC.

### H) Closure Cost Funding

1) As described on page I-2 of the IESI/NSC hazardous waste management facility application, the financial assurance mechanism for the final closing cost is a Closure Trust Fund which has been established at Sovran Bank NA, Richmond, Virginia.

We will submit a re-draft of the Proposed Closure Plan at such time as the Department approves the changes and additions contained in this letter.

Very truly yours,

John H. Bragg

Enc: (5)

cc: J. O'Mara

(less enc.)

A. Klauss

G. Peck

S. Potter

G. Heitzman

E. E. Martin

T. S. West

D. E. Evans

G. E. Eure G. Kosko Mr. Reidy Page 6 May 29, 1987

### TABLE I

Industrial Environmental Systems, Inc.
-- Waste Removal from Tanks
Began 12/14/82, Completed 11/17/83
List of Shipments and Manifest Numbers

•	Shipment Date	N. Y. Manife Number	est Destination — — — — — — — — — — — — — — — — — — —
_	12/14/82	159455 7	Oldover Corp., Arvonia, VA
_	12/16/82	159458 4	same
	12/16/82	159453 9	same
	12/17/82	159460 2	same
	3/2/83	159463 8	Chemical Waste Management, Inc., Emelle, AI
	3/3/83	301208 4	same
	4/5/83	159468 3	SCA Chemical Services, Inc., Model City, NY
	4/5/83	159469 2	same
-	4/5/83	159470 1	same
	8/15/83	159474 6	Oldover Corp., Arvonia, VA
	8/27/83	277999 2	same
	9/21/83	277998 3	SCA Chemical Services, Inc., Chicago, IL
	10/21/83	277992 9	same
	10/21/83	277993 8	same
<b>=</b>	10/25/83	277990 2	same
	10/31/83	277991 1	same
	11/10/83	277987 5	same
	11/11/83	277984 8	same
-	11/11/83	277986 6	same
	11/11/83	277985 7	same
	11/14/83	277996 5	same
	11/14/83	277983 9	same
	11/15/83	277979 4	same
	11/16/83	277981 2	same
_	11/17/83		inal shipment) same
-		-	

### New York State Department of Environmental Conservation

202 Mamaroneck Avenue, White Plains, New York 10601



Commissioner

April 6, 1987

Mr. John H. Bragg Northeast Solite Corporation P.O. Box 437

Mt. Marion, New York 12456

Re: Proposed Facility Closure Plan

Industrial Environmental Systems, Incorporated

and Northeast Solite Corporation

### Dear Mr. Bragg:

Upon review of the above mentioned Closure Plan, as contained in your letter of January 8, 1987, it has been found that the submitted Closure Plan has several deficiencies. Among these deficiencies are:

### A) Closure Performance Standard

The Certificate of Closure completeness does not have to be approved by the USEPA Region II Administrator.

### B) Partial and Final Closure Activities

- 1) To where was the waste removed from the site on November 17, 1983 shipped? Also, a copy of all manifests must be included.
- 2) Was the partial closure completed under DEC's supervision and, if not, was the DEC notified before the closure began? An explanation for any non-notification of DEC must be submitted with the revised Closure Plan.
- 3) What has been the sampling frequency and results on the monitoring wells installed beginning in January, 1984?
- 4) Any modifications to this Closure Plan and/ or equipment utilized must be approved by DEC before initiation of these changes.

Mr. Bragg Page 2 April 6, 1987

- 5) a) Were any soil samples taken during the excavation and, if so, please submit results.
- b) At least four soil samples below the excavated site must be taken to assure that there is no residual contamination.
- 6) What was the source and analysis of the clean fill used after excavation was completed

### C) <u>Inventory Removal and Disposal of Decontamination</u> of Equipment

- 1) What precautions will be implemented to prevent spills during decontamination and dismantling?
- 2) Who is the "properly qualified outside contractor" that will perform the work?

### D) Closure of Containers

- 1) Will the flushing water or oil, etc. be handled as hazardous or non-hazardous and how will this determination be made?
- 2) What is the final destination of the abovementioned wastes?

### E) Closure of Tanks

- 1) The safety and spill control procedures outlined in the facility's hazardous waste management facility permit application and, as mentioned in the Closure Plan, must be added to the Closure Plan for completeness.
- 2) A more detailed description of the barriers erected around the unloading pad, to insure no release of cleaning fluid, must be supplied.
- 3) What "approved off site TSD Facility" will the condensate and rinse water be shipped to?

Mr. Bragg Page 3 April 6, 1987

### F) Closure of Rotary Kilns

- 1) Unless the feed lines and associated equipment that are removed are decontaminated, they must be shipped as hazardous waste.
- 2) What precautions, to prevent spills, will be implemented during the draining of pipelines and components into 55 gallon drums?
- 3) Where will the contaminated material be shipped to?

### G) Schedule for Closure

- 1) Within 30 days after receipt of approval of this revised Closure Plan, final closure activities will be initiated and not 180 days as stated in submitted Closure Plan.
- 2) A proposed schedule for the independent professional engineer to supervise the actual closing must be supplied. Although some flexibility in this schedule may be allowed during closure activity, this schedule must be specific and conclusively demonstrate that adequate supervision of the closure activity will be achieved.

### H) Closure Cost Funding

1) How will the cost be funded and what is the total cost for all closure activity?

Mr. Bragg Page 4 April 6, 1987

Please address the above deficiencies and submit the revisions to this office by May 15, 1987.

If you have any questions on the above comments, you may contact Mr. John O'Mara of my staff at (914) 761-6660.

Very truly yours,

James Reidy, P.E.

Regional Hazardous Waste Engineer

Region 3

JR:JO:bz

cc: A. Klauss

G. Heitzman, Albany

G. Peck

S. Potter



P.O. BOX 437 • M.E. MARION • NEW YORK 12456 • PHONE 1914) 246-9571

July 10, 1987

Mr. James Reidy, P. E. Region 3 Hazardous Waste Engineer N. Y. State Dept. of Environmental Conservation 202 Mamaroneck Ave. White Plains, N. Y. 10601

Industrial Environmental Systems, Inc. (IESI) and

Northeast Solite Corp. (NSC): Proposed Facility Closure Plan

dated January 6, 1987

Your letters of April 6 and June 24, 1987

Dear Mr. Reidy:

The purpose of this letter is to propose a sub-soil testing protocol to be incorporated in our Closure Plan. As I understand your letter of June 24, 1987, agreement on this testing will put the Plan into approvable

As previously stated in our proposal, excavations to remove possibly contaminated soil were conducted in December, 1983. The excvated area ("the area") was later (November, 1984) topped with 4 inches of macadam. The area is delineated in red on our attached Sketch 1-87. We propose to drill four holes, 3-1/4 inches in diameter, approximately equally spaced and traversing the area in an east-west direction. Hole locations are designated as A, B, C and D on the sketch.

To facilitate obtaining samples well below the excacavated site, all holes will penetrate to a depth of ten feet. Each hole will be blown clean when a depth of eight feet is reached. The cuttings from the final two feet beyond the eight-foot depth will constitute the sub-soil sample, which will be analyzed for volatile organics.

If further information is required, please advise.

Very truly yours,

cc: A. Klauss

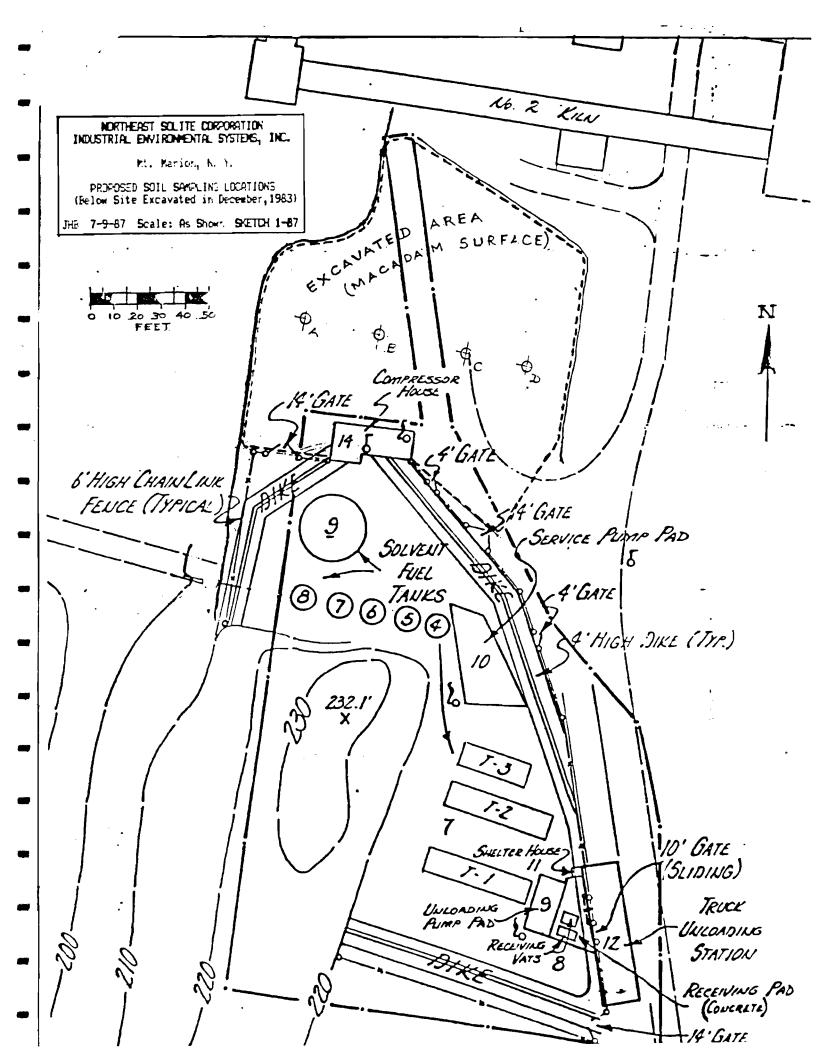
T. West

G. Heitzman

D. Evans

G. Peck S. Potter G. Eure G. Kosko

E. Martin



### New York State Department of Environmental Conservation

202 Mamaroneck Avenue, Room 304 White Plains, NY 10601-5381



THOMAS C. JORLING
Commissioner

July 21, 1987

Mr. John Bragg
Northeast Solite Corporation
P. O. Box 437
Mt. Marion, NY 12456

Dear Mr. Bragg:

The addition of the sub soil testing protocol as contained in your July 10, 1987 letter will put the closure plan into an approvable form with the following additions:

- 1. A composite sample should be taken at 2', 4', 6', 8' and 10' depths at each of the bore holes;
- 2. A background sample should be taken to measure if there are elevated levels at at the sampling site.

You should also be aware that after the drilling through the macadam, the drill should be cleaned and the hole blown clear to avoid any cross contamination of any sample taken below the macadam.

Upon the receipt of the amended closure plan, we can then proceed to the public notice of the closure. If you have any questions, you may contact Mr. John O'Mara of my staff at (914) 761-6660.

Very truly yours,

Dames Rordy, P.E.

Reg. Hazardous Waste Engr

Region 3

JR/acp

cc A. Klauss

G. Heitzman

G. Peck

S. Potter

EZKI TSW

DEE

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P.O. BOX 437 • MT. MARION • NEW YORK 12456 • PHONE (914) 246-9571

July 22, 1987

Mr. James Reidy, P. E. Region 3 Hazardous Waste Engineer N. Y. State Dept. of Environmental Conservation 202 Mamaroneck Ave., Room 304 White Plains, NY 10601

Re:

Northeast Solite Corp. and Industrial Environmental Systems, Inc.: Sub Soil-Testing Protocol Amendment to Proposed Facility Closure Plan dated January 6, 1987

Dear Mr. Reidy:

In answer to your letter of July 21st, we confirm that four sub-soil samples for analysis will be taken from four drilled holes on our premises. These holes, located in a macadam-surfaced area, have been designated as A, B, C and D in a sketch submitted with our letter of July 10th. A fifth sampling hole ("E") will be drilled in a location removed from the heavily-trafficked area, for the purpose of obtaining a background sub-soil sample. A single composite sample, representing portions taken from depths of 2, 4, 6, 8 and 10 feet, will be obtained from each drill-hole.

At each hole location, an area of subgrade approximately one foot square will be exposed prior to commencement of drilling, in order to avoid contamination from the macadam material.

We are in the process of amending the subject Closure Plan to reflect the corrections and additions discussed in your most recent letter as well as yours of April 6th and June 24th, and in my letters of May 29th and July 10th. The amended Plan should be in your hands on or about July 27, 1987.

Very truly yours,

John H. Bragg

cc: A. Klauss

T. West

G. Peck

D. Evans

G. Heitzman

G. Eure

S. Potter

G. Kosko

E. Martin



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July 31, 1987

Mr. John O'Mara N. Y. State Dept. of Environmental Conservation 202 Mamaroneck Ave., Room 304 White Plains, NY 10601

Northeast Solite Corp. and Industrial Environmental Systems, Inc. - Closure Plan dated July 29, 1987

Dear Mr. O'Mara:

As you pointed out in our conversation this morning, the letter included with Appendix B of the subject plan is inappropriate, and drill hole "E" is omitted from the accompanying sketch. Please substitute Appendix B (Rev. 7/31/87), which we enclose in quadruplicate. The revision incorporates our letter to Mr. Reidy dated July 22, 1987, and a corrected Sketch 1-87.

Very truly yours,

John H. Bragg

A. Klauss cc:

T. West

G. Peck

D. Evans

G. Heitzman G. Eure

S. Potter

G. Kosko

E. Martin

Industrial Environmental Systems, Incorporated ("IESI") and Northeast Solite Corporation ("NSC")

FIRE, SAFETY AND SPILL CONTROL PROCEDURES GOVERNING CLOSURE OF HAZARDOUS WASTE MANAGEMENT FACILITY

- 1. <u>Waste Inventory</u>. The facility's inventory of hazardous waste at the commencement of final closure activities will be minimal. As described in Section 2.0 of the Closure Plan, the contents of all eight hazardous waste storage tanks were removed and disposed of in 1983, with no drummed material remaining in storage. Therefore, the total amount of waste subject to possible spill incidents during final closure is a maximum of 450 gallons, representing liquids which may remain in the pipe lines. Any cleaning/flushing liquids would be added to this amount.
- 2. Personal Safety Protection. Where necessary, working personnel will be equipped with acid/solvent resistant coveralls (olefin material coated with heavy polyethylene film), head protection, neoprene coated gloves, and boots that are resistant to solvents and acids. Wrists and ankles of coveralls will be sealed with electrical tape to protect against upward and inward splash. Full face respirators with organic vapor filter cartridges, sealing directly to the mask, will be used.
- 3. Control and Prevention of Fire. During closure operations, no smoking will be permitted anywhere within the facility. A fire or an explosion could result from ignition of vapors within a tank, exposed waste material, or waste spills. The use of on-site water to extinguish a fire will be avoided. Water may be used to to cool nearby tanks, drums or other waste-containing equipment to prevent the spread of a fire and possible explosions. Fires will be contained, controlled and/or extinguished with 20-pound dry-chemical portable fire extinguishers. This is a <u>fire-limiting</u> measure only; the local Fire Department will be called for any emergency involving fire or explosion, and, once present on the site, will direct all responses to the emergency.

Secondary effects which could result from a fire/explosion emergency will be limited to the greatest possible extent. If a fire threatens adjacent materials or equipment that could ignite or explode, these will be removed. In the event that the NSC rotary kiln burning operation presents any hazard during a fire/explosion incident, the process will be shut down until the emergency has passed.

4. <u>Spill Control.</u> Initial response to any spill incident will consist of shutting down or isolating the spill source and controlling the spread of spilled materials. If a fire is, or could be, involved, the Fire Department will be notified and the control procedures described in paragraph 3 above will be implemented.

Because of the relatively small waste inventory, any possible hazardous waste spills will be limited in quantity. Mobile equipment will be readily available for use in placing any temporary barrier berms that might be needed. These will be constructed of fine crushed shale and/or impermeable clay. Both of these materials are readily available on the site. Fine crushed lightweight aggregate is provided for clean-up absorption purposes.

Precautions and procedures for spill control follow:

- a. If the spill is at all large, temporary dikes will be placed to limit and control its spread.
- b. In order to reduce any explosion/fire potential, all electrical power in the immediate spill area will be shut down. Any mobile equipment not required for the immediate emergency will be shut off.
- c. If the amount of spillage liquid warrants, it will be transferred by portable pump to a tanker truck, if available, for transport off the premises. Alternatively, the liquids will be transferred to drum containers or to an on-site storage tank, as applicable.
- d. Material spilled on tanks, piping or other associated equipment will be thoroughly cleaned off.

- e. Small spills could result from pump leaks or pipeline drainings. These will be removed by absorption in fine lightweight aggregate and suitable padding. Any contaminated soils attendant on a spill will be excavated. These soils and any spent absorption materials will be placed in sealed drums for removal to a suitable disposal facility.
- f. Pump foundation pads, tanker truck loading/unloading slabs and other containment structures located within a spill area will be washed down with water, detergent and stiff brooms.

  Washing liquids will be pumped into a tanker truck for offsite disposal.
- g. Minor spills will be immediately taken up with suitable absorbent materials as they occur.
- h. If a spill ensues while loading or unloading a tanker truck, all valves on the truck and on the associated piping and hoses will be secured until the spill is contained, neutralized and cleaned up.
- i. Control of possible spills occurring during the emptying, filling, loading or unloading of containers will be implemented as described above. Any leaking containers that might be encountered will be placed in compatible 85-gallon emergency drums and packed with absorbent material.



5 NORTHWAY LANE NORTH • LATHAM, NEW YORK 12110 (518) 783-8102

Dunn Geoscience Corporation

Standard Field Operating Procedure

Wet Wipe Sampling - SWS - 1F1

#### WET WIPE SAMPLING - SWS - 1F1

## Protocol For Wet Wipe Sampling

Wet wipe sampling is utilized to verify the completeness of decontamination of various surfaces as well as to delineate areas of suspected contamination. The former technique incorporates random testing of surfaces while the latter approach would warrant a more detailed grid strategy. Both situations will utilize similar sampling protocols.

## Sampling Protocol

- Step 1. Prior to initiation of sampling place sterilized 3" x 3" gauze pads in a 500 ml wide mouth sample bottle equipped with a teflon-lined lid. Add a sufficient amount of solvent (for PCB's and dioxin use pesticide grade hexane) to thoroughly saturate all the gauze pads contained in the wide-mouth bottle. The sampling technician should wear new, unused, latex gloves while handling the gauze pads. A clean pair of tweezers should be placed in the wide mouth bottle prior to application of the teflon lined lid.
- Step 2. Outline a 2500 cm<sup>2</sup> area (approximately 19.8" x 19.8") with masking tape or other appropriate devices. If the surface will not allow for one contiguous 2500 cm<sup>2</sup> area, then sub-areas can be measured provided the sum total equals 2500 cm<sup>2</sup>.
- Step 3. Use tweezers to remove one saturated gauze pad from the wide mouth container. It is important that a new pair of latex gloves is used for the collection of each wipe sample. After removing one gauze pad, place the tweezers back in the wide mouth container and cap tightly.

## Page 2

- Step 4. Place the gauze pad in the gloved hand of the sampler and wipe the subject surface area by applying constant pressure in a horizontal left to right fashion. Each stroke of the gauze pad should overlap the previous stroke to ensure complete coverage of the surface. Once the entire area has been wiped, the gauze pad should be reversed and the area rewiped vertically left to right.\*
- Step 5. Upon completion of the wiping procedure place the used gauze pad in a pre-numbered 250 ml sample container and cap tightly.

### Quality Assurance/Quality Control

In addition to proper sampling protocols and techniques there are certain measures that can be utilized to determine the representativeness of analytical data derived from wet wipe sampling procedures. These methods employ gloved field blanks, trip blanks, rewipe samples and duplicate samples to ensure quality analytical results. A brief description of each of these methods is provided:

1. Gloved field blank - A solvent saturated sterilized gauge pad is used to gently wipe a new pair of latex gloves which has been obtained from the same allotment of gloves as used during the sampling. This gauze pad is then placed in a pre-numbered sample bottle and submitted for analysis. Analytical results will indicate whether contamination from the latex gloves or the gauze pad is a concern.

### Page 3

- 2. Trip blank A trip blank consists of an empty sample container which accompanies the remaining sample bottles from the laboratory to the field and back to the laboratory. Analytical results will indicate whether sample bottle contamination is a concern.
- 3. Rewipe Sample These samples are collected by rewiping an area from which a wipe sample has already been obtained. Analytical results indicate the effectiveness of contaminant removal by the solvent saturated gauze pad.
- 4. Duplicate Wipe Two wipe samples are collected from areas directly adjacent to one another. Analytical results indicate the consistency of contamination and reproducibility of analyses.

\* In a situation where heavy oil and grease is encountered, multiple gauze pads can be used; however, no more than three gauze pads should be employed for the collection of any one sample.



P.O. BOX 437 • MT. MARION • NEW YORK 12456 • PHONE (914) 246-9571

. August 3, 1987

Mr. John O'Mara N. Y. State Dept. of Environmental Conservation 202 Mamaroneck Ave., Room 304 White Plains, NY 10601

Re: Northeast Solite Corp. and Industrial Environmental Systems, Inc. - Facility Closure Plan dated July 29, 1987

Dear Mr. O'Mara:

We enclose four copies of a correction page 2, to be inserted in the Closure Plan in place of the original page bearing the same number. This is necessary in order to make the text consistent with the earlier revision made to Appendix B.

We regret any inconvenience this may have caused.

Very truly yours,

John H. Bragg

cc: E. Martin

T. West

D. Evans

G. Eure

G. Kosko

procedures and developments. A partial list of the correspondence in this regard is contained in Appendix A. The project was completed on November 17, 1983. All tanks were left in broom-clean condition, and have been empty since that date.

In December, 1983, extensive excavation was conducted in the area between the IESI and NSC facilities, a space measuring approximately 150 feet by 200 feet. All visibly contaminated soil was removed, as were all underground LBM pipelines which had carried hazardous waste fuel, and the area was back-filled with clean 3/8-inch by 0-inch shale, which is routinely quarried and crushed on NSC's site. The pipelines removed were replaced with new, above-ground lines in July, 1984. During the same month, No. 9 fuel tank was completely steamed out and fitted with a new bottom, which rests on a concrete foundation above ground level, while Nos. 4, 5, 6, 7 and 8 tanks were re-installed on a common concrete foundation which was equipped with a leak detection system.

In November, 1984, the excavated/refilled area mentioned above was completely weather-sealed by a four-inch application of macadam. Final closure activities will include obtaining four sub-soil samples from below the previously excavated areas beneath the present macadam cover. The samples will be analyzed for possible concentrations of volatile organics. The protocol for this sampling can be found in a letter [attached Appendix B (Rev. 7/31/87)] from John Bragg to James Reidy, dated July 22, 1987.

Beginning in January, 1984, several monitoring wells were installed in the vicinity of the IESI facility. These have exhibited minimal contamination, and will continue to be monitored over such future period as may be mutually agreeable. Several reports furnished by Dunn Geoscience Corporation, consultant to IESI/NSC, summarize monitoring well analysis results over a lengthy period of time. A reference list of these reports by title and submission date is shown on page 2 of Appendix A. Complete copies have been maintained in the DEC files.

It is not anticipated that any of the tanks will be re-located within the IESI/NSC premises or sent to another location off-site, but in the event this should occur, procedures outlined in Section 4.2 for final closure will be followed. Prior to final implementation of this Closure Plan, any modifications to the existing facility equipment, structures, instruments or

New York State Department of Environmental Conservation 50 Wolf Road, Albany, New York 12233-



October 22, 1987

Mr. John H. Bragg Northeast Solite Corporation P.O. Box 437 Mt. Marion, NY 12456

Dear Mr. Bragg:

Re: Closure of NSC, EPA ID No. NYD050424324, and IES, EPA ID No. NYD000707885

This letter is to inform you that upon review of our records, the applicable regulatory requirements, in conjunction with closure of the above-referenced facility, have been met, and, hereby, approval of the closure plan and Public Notice is granted.

Please note that this approval in no ways precludes your responsibility to submit closure certification to this office as noted in the closure plan. It is deemed that closure of the referenced facility is not complete until such certification is received by this office.

If you have any questions regarding this notice, please contact Mr. Mark Kauffman at (518) 457-3274.

Sincerely,

James Sibbald Moran, P.E.

Supervisor

Facility Closure Section

Bureau of Hazardous Waste Operations

Division of Hazardous Substances Regulation

cc: A. Klauss, Region 3, New Paltz

J. Reidy, Region 3, White Plains

J. Middelkoop

M. Kauffman

Professional Engineering and Land Surveying
74 Main Street • Saugerties, New York 12477
Phone: (914) 246-3571

Richard J. Praetorius, P.E.

Thomas W. Conrad, L.S.

19 April 1988

Industrial Environmental Systems, Inc. Northeast Solite Corp. P.O. Box 437, Kings Highway Saugerties, New York 12477

ATTENTION: GEORGE EURE

SUBJECT:

INDUSTRIAL ENVIRONMENTAL SYSTEMS, INC. (IESI) AND NORTHEAST SOLITE CORP. (NSC), PROPOSED FACILITY

CLOSURE PLAN DATED 29 JULY 1987

Dear Mr. Eure:

As part of the conditions outlined in the Closure Plan for the IESI/NSC facility, we were hired by you to review the approved Closure Plan and to inspect the sampling procedures, dismantling operations and other closure activities.

After reviewing the plan, we inspected the site on a spot-check basis, and have attached our observations. It should be noted that one aspect of the plan was changed, in that instead of steam cleaning the pipes and fittings, they were dismantled by Cecos International, loaded into two 20 cubic yard containers, and shipped to the Cecos International facility in Buffalo, N.Y. O. (See Hazardous Waste Manifest NYA-3307228 and NYA-5908383).

Twenty one barrels of rust scale and three barrels of wash water were also removed from the site. In reviewing the Hazardous Waste Manifests for all the material removed from the site the records appear in order.

We have received the sampling results from the wipe tests and soil borings taken during our inspections, and the results appear to be valid representations of the conditions present at the time of sampling. Industrial Environmental Systems, Inc.
Page 2
19 April 1988

After discussing the test results with Ronald Bayer of Envirotest Laboratories, Inc., the method stipulated for testing the soil samples for trichloroethylene did not yield meaningful results. -- If the N.Y.S.D.E.C. has any questions about this, we recommend that they be referred directly to Ronald Bayer for further explanation.

The closure project is complete and ready for submittal to the Commissioner of the NYSDEC.

Respectfully submitted,

PRAETORIUS AND CONRAD, P.C.

Richard J. Praetorius, P.E. President

RJP/jsg Enc.

## New York State Department of Environmental Conservation 202 Mamaroneck Avenue, White Plains, New York 10601



Commissioner

May 12, 1988

Mr. George E. Eure Northeast Solite Corporation P.O. Box 437 Mt. Marion, New York 12456

Re: Closure Certification of Industrial Environmental Systems Inc. (IES) EPA No. NYD 000707885
Northeast Solite Corp. (NES) EPA NYD 050424324

Dear Mr. Eure:

In answer to your letter of April 25, 1988, please be advised that this Department has reviewed the above mentioned certification, and found it deficient for the following reasons:

- 1) The schedule that the professional engineer (PE) was on site to insure that the approved Closure Plan (CP) was adhered to, must be supplied. Specifically, what days, how much time on these days and what was observed must be submitted. A field notebook would suffice.
- The PE certification should specify that closure of hazardous waste facility conforms to the NYSDEC approved CP except as noted in your letter of April 25, 1988. The supervising role of the PE is explained in Section G of May 29, 1987 letter of IES-NES to this Department. The PE should determine if tanks, drums and structures are clean and decontaminated. Did the PE check the initial truck loading procedures?
- Specify what is the final destination of the tanks.
- 4) Specify if pumps were also wipe tested or instead if they were dismantled together with pipes and fittings.
- 5) The wipe test results of tank samples show hazardous constituents less than 1,000 micrograms/square meter. However, where there is trichloroethene present in the laboratory results of volatile organics, the facility is

required to submit evidence (e.g. letter of Envirotest Lab or new sampling, etc.) that the amounts of such chemical in the sample concentration is too small so that sample could not give a representative value.

- 6) Both owner and PE certifications do not mention closure of feed lines to rotary kilns as per approved Closure Plan.
- Should you have any questions regarding this matter, please call Mr. Wilfredo Palomino of my staff at (914) 761-6660.

Very truly yours,

James Reidy P.E.

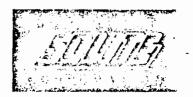
Regional Hazardovs Waste Engineer

JR:WP:bz

cc: A. Klauss, NYSDEC, New Paltz

M. Kauffman NYSDEC Albany.

60019e Kosko info.



P.O. BOX 437 • MI, MARION • NEW YORK 12456 • PHONE (9)4) 246-9571

June 8, 1988

Mr. Jim Reidy, P.E. Regional Hazardous Waste Engineer NYS Dept. of Environmental Conservation 202 Mamaroneck AVenue White Plains, NY 10601

Re: Closure Certification of Industrial Environmental Systems, Inc., EPA No. NYD 000707885
Northeast Solite Corp., EPA No. NYD 050424324

Dear Mr. Reidy:

The purpose of this letter is to address the perceived deficencies listed in your letter of May 12, 1988.

- 1. The Schedule of Professional Engineer.
  Enclosed are daily reports from the P.E. showing dates, times and observations.
- 2. P.E. Certification of Closure.
  A letter stating the facility has been closed is attached.
- 3. The Final Destination of the Tanks.

  Tanks #1, 2, 3, 4, 5, 6 and 7 will be dismantled and scrapped.

  Tanks #8 and 9 will remain as fuel oil storage for kiln fuel.
  - The pumps were dismantled and disposed of with the contaminated pipes and valves listed on manifest #NYA 330722 8 and NYA 590838 3.
- 5. <u>Laboratory Results of Volatile Organics.</u>
  Enclosed is a letter from Envirotest Laboratories, Inc. explaining the results.
- 6. NES Feed Lines.
  The feel lines for Northeast Solite were dismantled and disposed of with the piping, valves and pumps listed on manifest NYA 330722 8 and NYA 590838 3.

Please notify me if you have further questions.

Sincerely,

George E. Eure Plant Manager

Professional Engineering and Land Surveying

74 Main Street • Saugerties, New York 12477

Phone: (914) 246-3671

Richard J. Praetorius, P.E.

Thomas W. Conrad, L.S.

8 April 1988

Industrial Environmental Systems, Inc. Northeast Solite Corporation Mt. Marion, New York 12456

SUBJECT:

Facility Closure Plan, Removal of Transfer and Feed Lines, Steam Cleaning of Containment Slabs, Field Inspection

DATE:

7 April 1988

PRESENT:

George Eure, Northeast Solite Corporation George Collins, Praetorius and Conrad, P.C. E. Donnelly, Cecos International, Inc. J. Falbo, Cecos International, Inc.

INSPECTION:

Arrived on site at 2:15 p.m. Noticed all hazardous waste fuel transfer and feed pipe lines had been removed. Pipe lines had been stored in two containers for removal from site. According to G. Eure, pipe lines will be disposed of in approved hazardous waste landfill.

Noticed containment slabs. Containment slabs were steam cleaned by Cecos International. Rinse water had been collected and stored in 55-gallon drums. Samples of rinse water have been submitted to testing lab.

Left site at 3:00 p.m.

George R. Collins, Project Engineer

•

Professional Engineering and Land Surveying

74 Main Street • Saugerties, New York 12477

Phone: (914) 246-3671

Richard J. Praetorius, P.E.

Thomas W. Conrad, L.S.

8 March 1988

Industrial Environmental Systems, Inc.
Northeast Solite Corporation
Mt. Marion, New York 12456

SUBJECT:

Facility Closure Plan, Sub-Soil Testing, Field

Inspection

DATE:

7 March 1988

PRESENT:

George R. Collins, Praetorius & Conrad, P. C.

George Eure, Northeast Solite, Inc. Whiting Pixley, Envirotest Labs, Inc.

Charlie, Drill Operator, Northeast Solite, Inc.

INSPECTION:

Arrived 1:3J p.m. A roughly 1 sq. ft. area of macadam had been removed (4" thick) in 5 locations, at approximately the same points as shown on the Sketch 1-87 in a letter from John Bragg, Northeast Solite to James Reidy, N.Y.S.D.E.C.

Test Hole E was sampled first. Hole was drilled to a depth of roughly 2'. The hole and tailings were then blown clean. A box with a 2" slot cut from the bottom was then placed over the hole in order to catch any tailings that would blow out of the hole for use in the sampling. The drill was taken down to a depth of 10'.

The procedure was then begun for Test Hole D, however, no tailings were being blown out of hole, possibly due to fracture in the sub-soil. The drill was moved to Test Hole C, and it was found the same happened as at Hole D.

Test Hole B. Small amounts of soil were coming up, enough for a sample to be taken. Small drops of oil and paint particles were noticed in the soil sample, coming from the drill rig.

Test Hole A was then sampled. Paint and oil were noticed in sample again. A small amount of paint was scraped from the rigging for sampling. Also, a sample of the lubricating oil for the drill would be taken to determine their make-up.

A new hole was cut out of the macadam for Test Holes C and D, both about 4' west of their orTgInal

location. The sampling procedure was done for both holes.

Left site at 3:00 p.m.

George R. Collins, Project Engineer

Professional Engineering and Land Surveying
74 Main Street • Saugerties, New York 12477
Phone: (914) 246-3671

Richard J. Praetorius, P.E.

Thomas W. Conrad, L.S.

1 February 1988

Industrial Environmental Systems, Inc. Northeast Solite Corp. Mt. Marion, New York 12456

SUBJECT:

Facility Closure Plan, Wet Wipe Sampling, Field

Inspection.

DATE:

28 January 1988

PRESENT:

George R. Collins, Praetorius and Conrad, P.C. Rich Bayer, Envirotest Labs, Inc.

Jim Palumbo, Northeast Solite Corp.

INSPECTION:

Arrived on site 1:40. Sampling being taken off floor of tank 9 upon arrival. Wet wipe samples taken in the following order: Tank 9, 6, 5, 4, 3, 2, 1, 7. Tank 8 was not open and was said to have No. 2 fuel oil inside. A sample vial of the liquid from Tank 8 was taken. A rewipe sample was taken in Tank 5. A duplicate sample was taken in Tank 3. Sample area: 20" x 20" square. All samples taken from tank walls, except Tank 9. Left site at 3:00

p.m.

George R. Collins, Project Engineer

Professional Engineering and Land Surveying 74 Main Street • Saugerties, New York 12477 Phone: (914) 246-3671

Richard J. Praetorius, P.E.

Thomas W. Conrad, L.S.

2 June 1988

Industrial Environmental Systems, Inc. Northeast Solite Corporation P. O. Box 437, Kings Highway Saugerties, New York 12477

ATTENTION: GEORGE EURE

SUBJECT:

INDUSTRIAL ENVIRONMENTAL SYSTEMS, INC. (IESI) AND NORTHEAST SOLITE CORP. (NSC), PROPOSED FACILITY

CLOSURE PLAN DATED 29 JULY 1987

Dear Mr. Eure:

The facility has been closed in accordance with the approved closure plan referenced above with modification as described in my letter of 19 April 1988.

If you require any additional information, please feel free to contact me.

Very truly yours,

PRAETORIUS AND CONRAD, P. C.

Richard J. Praetorius, P. E.

President

RJP/qsl

# **ATTACHMENT IX**

# New York State Department of Environmental Conservation 50 Wolf Road, Albany, New York 12233



Commissioner

July 6, 1988

Mr. George E. Eure Northeast Solite Corporation P.O. Box 437 Mt. Marion, NY 12456

Dear Mr. Eure:

RE: Closure of NSC, EPA Identification Number: NYD050424324 and IES, EPA Identification Number: NYD000707885

This letter is to confirm the receipt of owner/operator and independent professional engineer's certification dated April 25, 1988 of RCRA closure for this facility as well as the required additional information dated June 8, 1988. We now consider this facility officially closed. Your authority to operate as a Treatment, Storage, and Disposal Facility (TSDF) is terminated.

Please be advised that the United States Environmental Protection Agency has determined that the corrective action provisions of the Hazardous and Solid Waste Amendments (HSWA) Section 3008(h) apply to all TSDF's which have acquired interim status.

The New York State Department of Environmental Conservation has established a program to evaluate the corrective action measures necessary at closed and closing facilities within the State. Once the corrective action provisions of HSWA have been met by the facility or determined not to be necessary at the facility, the facility can have their interim status terminated.

If you have any questions regarding your closure or status within this program, please contact Ms. Michelle M. Taylor, of my staff, at (518) 457-3274.

Sincerely,

James Sibbald Moran, P.E.

Chief, Facility Closure Section
Bureau of Hazardous Waste Operations
Division of Hazardous Substances Regulation

cc: H. Mulholland, USFPA

- A. Klauss, Region 3 (New Paltz)
- J. Reidy, Region 3 (White Plains)
- J. Desai